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Safety Management Information Statistics (SAMIS): 1994 Annual Report

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

Final Report July 1996





FTA OFFICE OF SAFETY AND SECURITY

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The <u>Safety Management Information Statistics 1994 Annual Report</u> is a compilation and analysis of mass transit accident and casualty statistics reported by transit systems in the United States during 1994, reported under the Federal Transit Administration's Section 15 reporting system.

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PREFACE

The <u>Safety Management Information Statistics (SAMIS) 1994 Annual Report</u> is a compilation and analysis of mass transit accident and casualty statistics reported by Federal Transit Administration (FTA)-funded transit systems in the United States during 1994, reported under the FTA's National Transit Database Reporting System.

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

The authors wish to thank Judy Meade, Director for the FTA's Office of Safety and Security; Carole Ferguson, Transit Safety Specialist at the Office of Safety and Security; William T. Hathaway, Senior Project Engineer at the Volpe Center; and David A. Knapton, Technical Task Initiator at the Volpe Center for their direction, guidance, and valuable comments during the preparation of this report.

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NARRATIVE COMMENTS



INTRODUCTION

Now in its fifth 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.

The 1994 SAMIS Annual Report contains several new trend analysis graphs. Improvements to this year's report include rearranging of the tables and graphs in order to make the comparisons among the graphs easier. The same data are presented in graphs and tables in different forms in order to give the reader an alternative view of the statistics. There is a one-page "Transit Safety Clock" which shows the time intervals before a given type of incident occurs, and a listing of transit agencies whose data were used to produce this year's report appears at the end.

The safety data presented in this report are collected via Form 405 of the Federal Transit Administration's National Transit Database 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/Buses going off road; Personal Casualties;* and *Fires*. Each of these categories is 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 Vanpool (VP).

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, their 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

Only 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 Transportation</u>, are not included in the calculations.

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 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 retroactively to the 1990 and 1991 safety data so that a meaningful comparison can be made among all five years.

FORM 405

Or	FORM 409 Transit Sa	5] fety	Fiscal Year: 1	12/31/94
	Mode			
a		b	С	d
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)			
08	In vehicles			
09	In stations			
10	Right of way & others			
11	TOTALS			
12	Transit property damage	Dollar Ar	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	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/buses going off road.

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/Buses going off road

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.

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.

Incident

Collisions, personal casualties, derailments/buses going off road, 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/buses going off road, 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.

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.



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 prearranged schedules for preformed 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.

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 [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].

CHARTS

Transit Safety Clock

1994

One Incident*

every

7 Minutes

* Collisions, Personal Casualties, Fires, and Derailments/Buses going off road

One Fatality*

every

27 Hours

* from Collisions, Personal Casualties, Fires, and Derailments/Buses going off road

One Injury*

every

9 Minutes

* from Collisions, Personal Casualties, Fires, and Derailments/Buses going off road

The Transit Safety Clock should be viewed with care. The mode of display should not be taken to imply a regularity in the occurrence of various transit mishaps, rather, it represents the annual ratio of fixed time intervals (e.g. 365x24 hours/year, or 365x24x60 minutes/year) to the total number of incidents, fatalities, injuries, collisions, etc.



\$4417 in

Property Damage

every Hour

One Collision*

every

18 Minutes

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

One Derailment*

every

32 Hours

* Derailments/Buses going off road

One Fire*

every

100 Minutes

* in Vehicles, Stations, Rights of way/Road

Totals of all Transit Mishaps by Year

	1990	1991	1992	1993	1994
Incidents*	90,163	83,139	73,831	64,986	70,693
Fatalities	339	300	273	281	320
Injuries	54,556	52,125	55,089	52,668	58,193
Collisions**	57,726	46,238	36,202	30,338	29,698
Suicides (attempts)	126	74	86	95	103
Personal Casualties	25,212	30,352	31,352	29,036	35,359
Derailment/Left Road	276	229	178	221	274
Fires	6,823	6,246	6,001	5,296	5,259
Property Damage (\$) 37,972,669		37,476,192	37,454,950 44,924,732		38,376,397

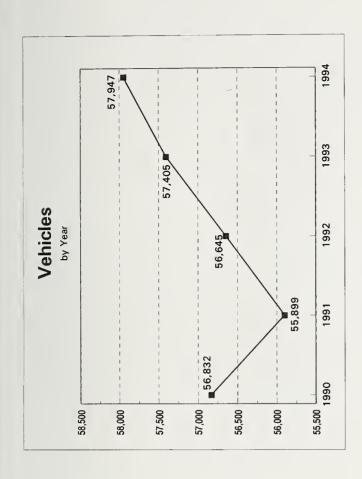
* This is the total incidents of Collisions, Derailments, Personal Casualties, and Fires.

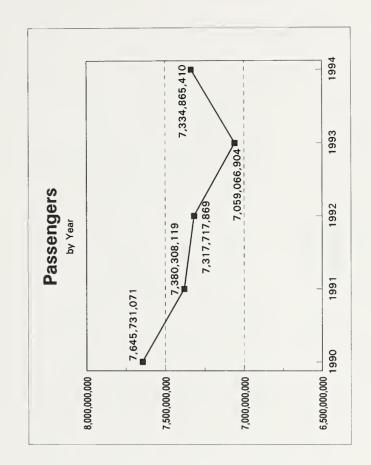
** Not including suicide attempts.

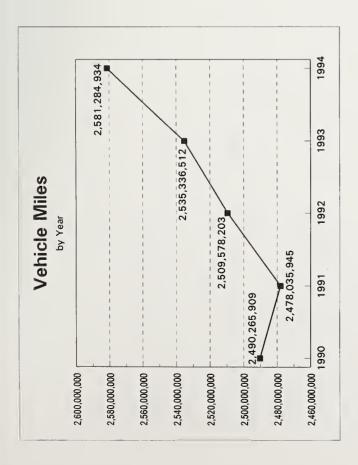
A look at SAMIS data from 1990 through 1994 (All Modes Combined)

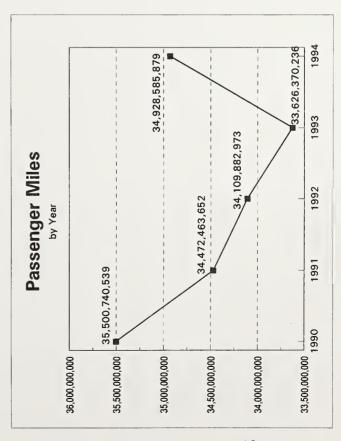
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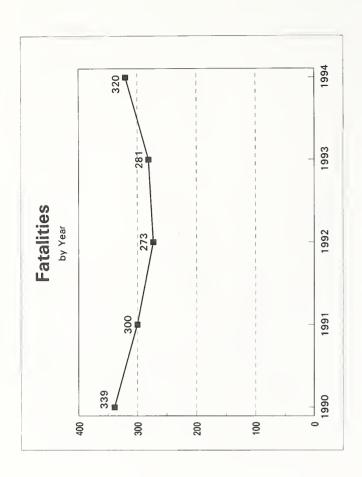


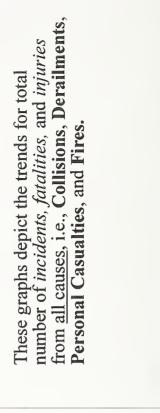


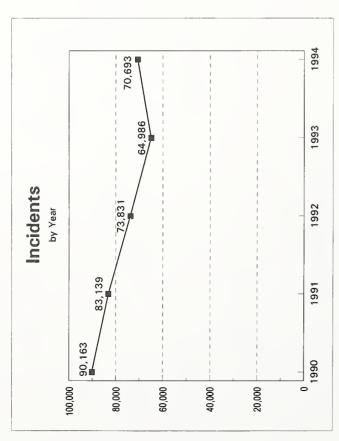


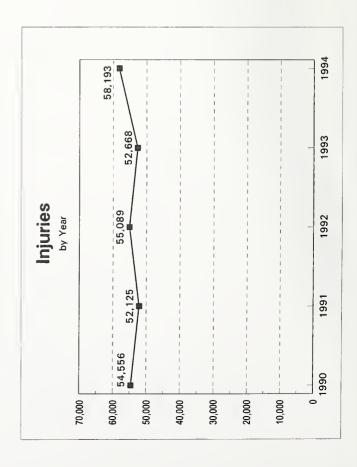


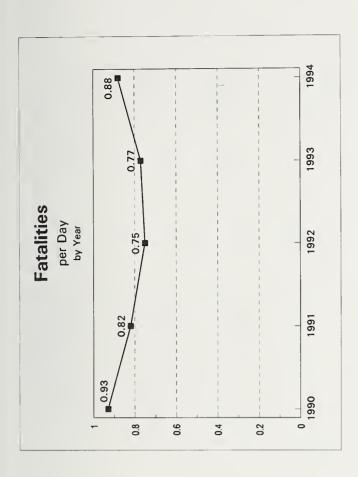




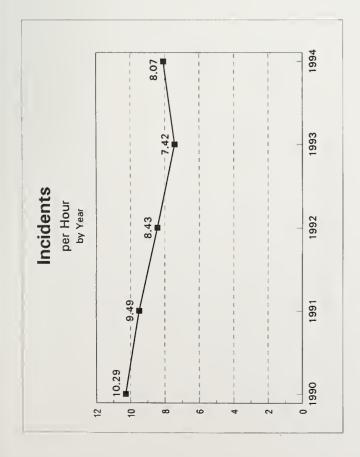


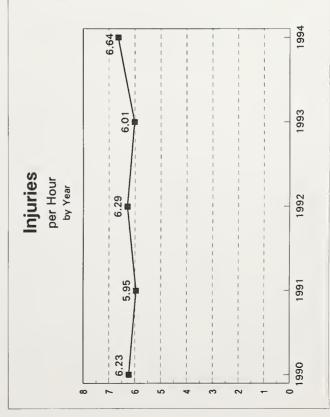


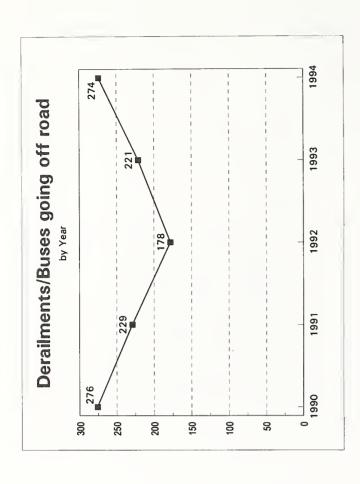


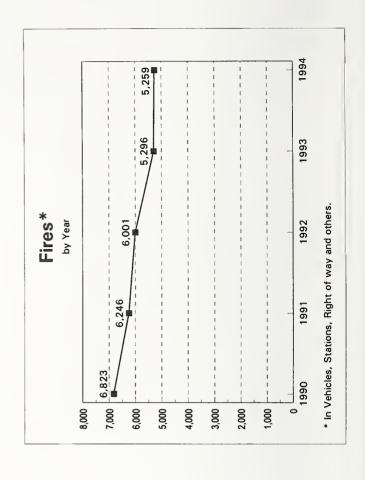


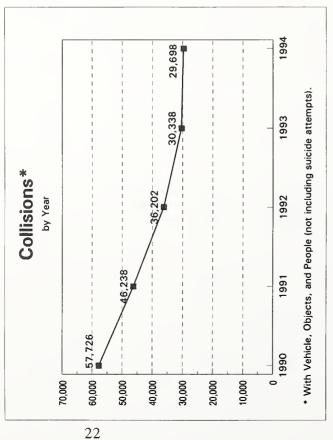


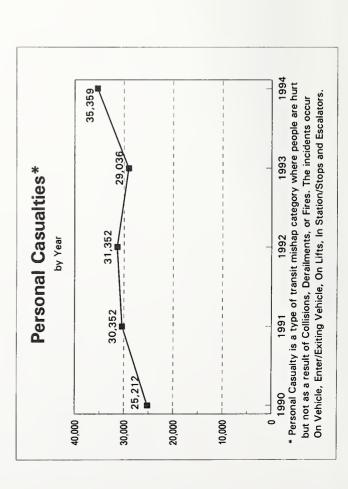


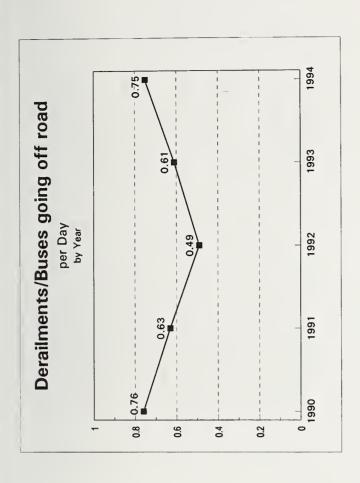


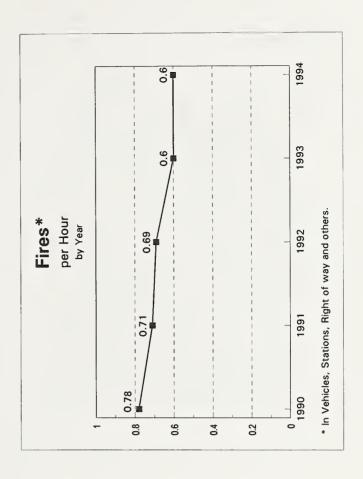


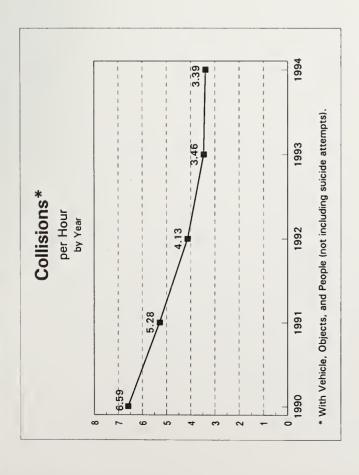


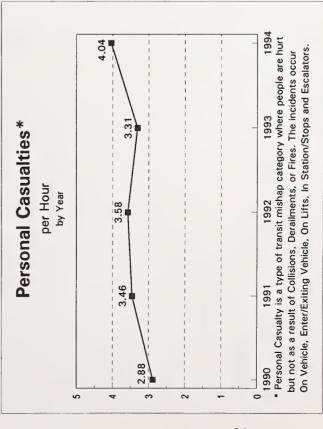


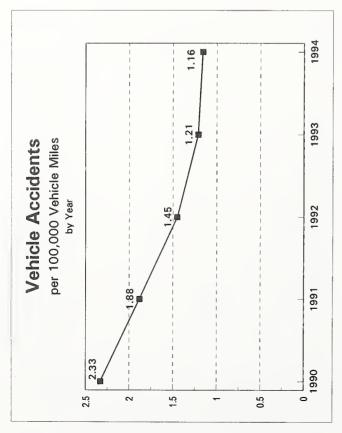


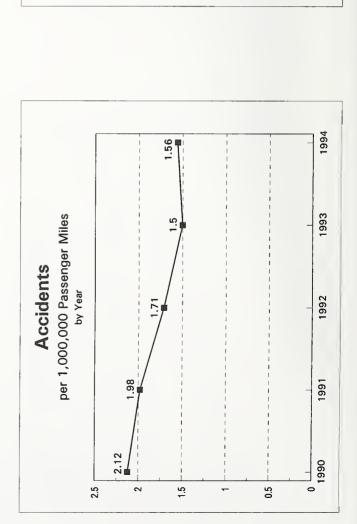












This graph shows the accident rate which is based only on the number of vehicle accidents (incidents). These include all vehicle accidents resulting from Collisions [with vehicles, objects, people (not suicides)] and Derailments (vehicle derailed/left roadway). The vehicle mile figure includes both revenue 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 (see page 52 for individual transit mode figures).

Casualties (on the vehicle, and entering/exiting entering/exiting the vehicle), and is indexed in this page, consider that the number of vehicle Passenger Miles (see page 53 for individual Collisions [with vehicles, objects, and people This graph differs from the Vehicle Accidents average trip length all affect the accident rate. This graph shows the trend for the number of accidents, the number of passengers, and the the vehicle). When analyzing the results on Personal Casualties (on the vehicle, and graph (previous graph) in that it includes accidents (or incidents) resulting from not suicides)], Derailments (vehicle derailed/left roadway), and Personal transit mode figures)

1994 0.07 per 10,000,000 Passenger Miles 1993 90.0 Fatalities by Year 1992 0.07 1991 0.07 1990 0 0.08 90.0 0.04 0.02

entering/exiting the vehicle). See page 54 for

individual transit mode figures.

people (not suicides)], Derailments (vehicle

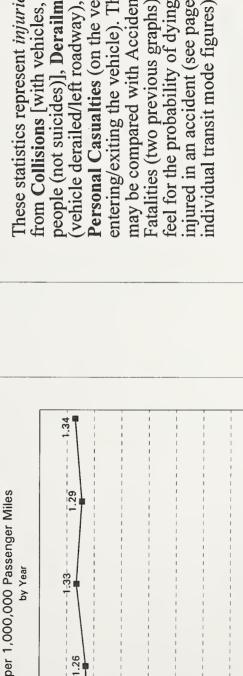
derailed/left roadway), and Personal

Casualties (on the vehicle and

from Collisions [with vehicles, objects,

These statistics represent fatalities resulting

These statistics represent injuries resulting feel for the probability of dying or being Personal Casualties (on the vehicle and Fatalities (two previous graphs) to get a entering/exiting the vehicle). This chart from Collisions [with vehicles, objects, injured in an accident (see page 55 for may be compared with Accidents and people (not suicides)], Derailments (vehicle derailed/left roadway), and



Injuries

by Year

-1-33

1.26

1.24

1.4 1.2

1.6

0.4 0.2

0.8

9.0

1994

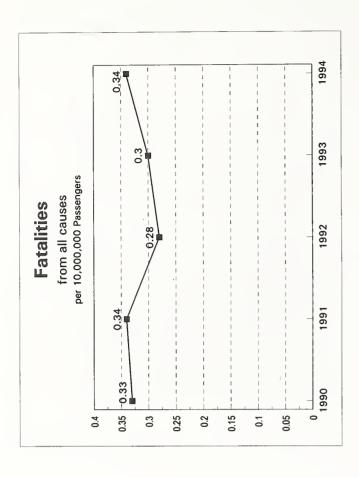
1993

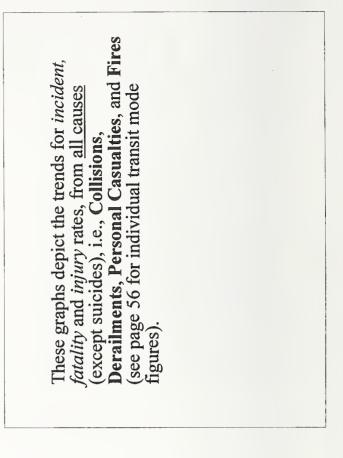
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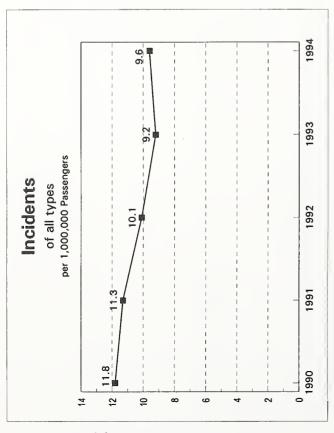
1991

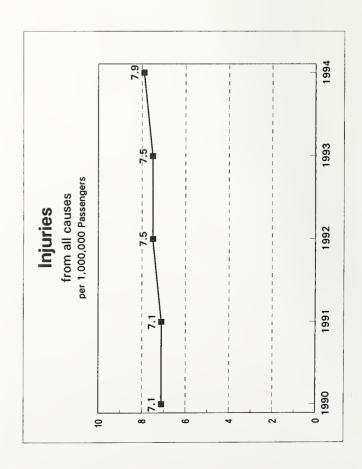
1990

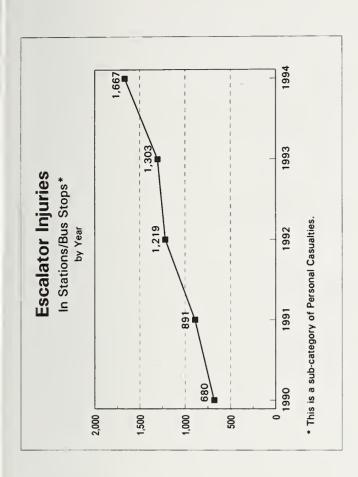
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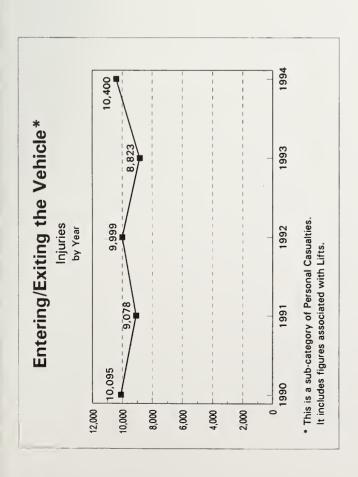








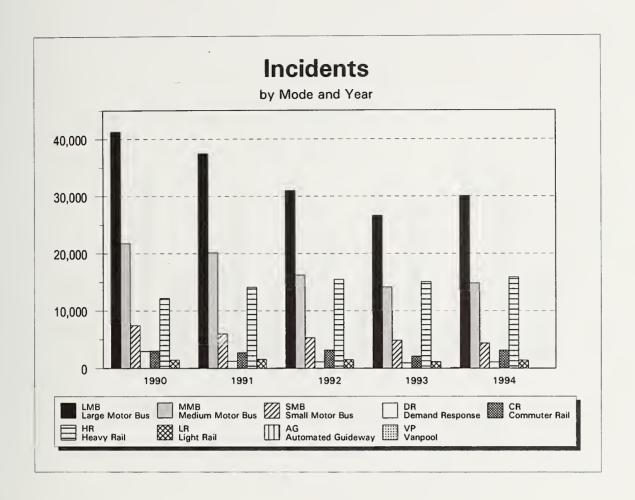






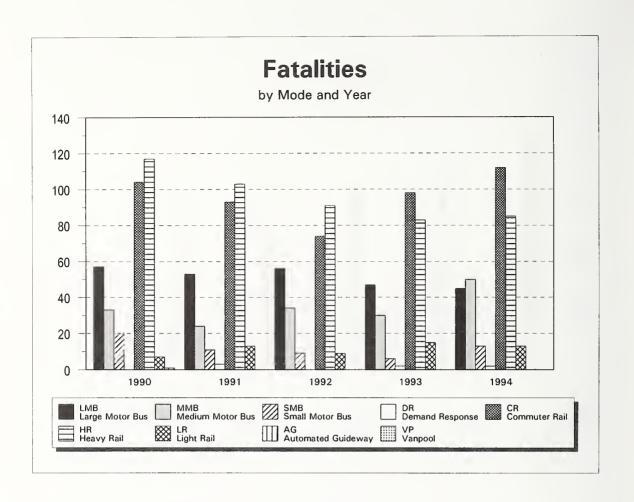
A look at SAMIS data from 1990 through 1994 (Individual Transit Modes)

TRENDS



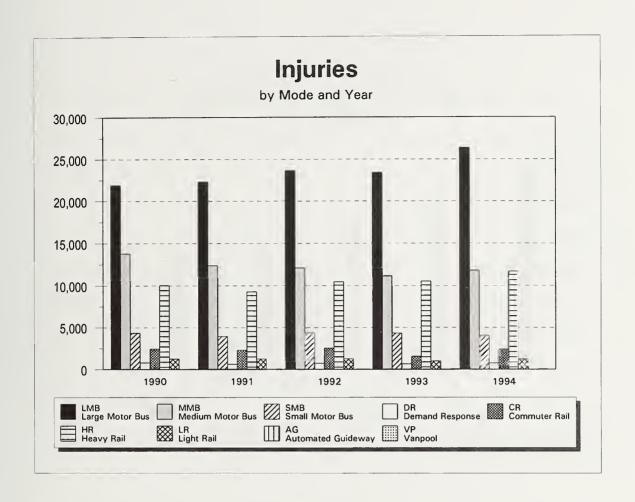
Incidents by Mode and Year

	1990	1991	1992	1993	1994
LMB	41,266	37,403	30,952	26,626	30,038
MMB	21,764	20,116	16,222	14,109	14,809
SMB	7,407	5,934	5,308	4,845	4,338
DR	2,965	1,241	1,137	946	1,062
CR	3,031	2,716	3,160	2,111	3,115
HR	12,178	14,102	15,512	15,082	15,869
LR	1,465	1,543	1,492	1,136	1,413
AG	3	1	8	10	10
VP	84	83	40	121	39
Total	90,163	83,139	73,831	64,986	70,693



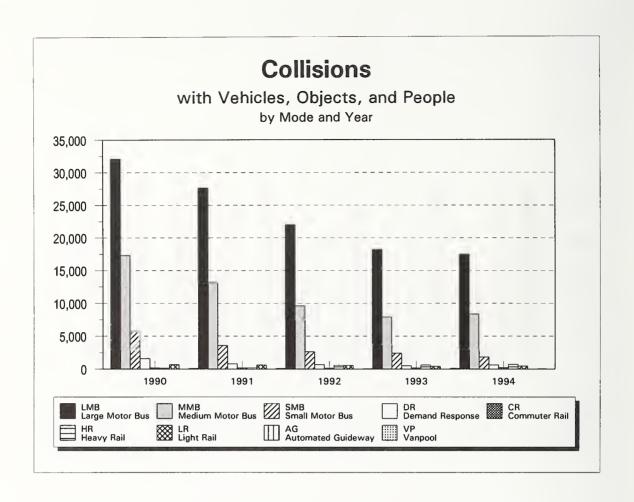
Fatalities by Mode and Year

	1990	1991	1992	1993	1994
LMB	57	53	56	47	45
MMB	33	24	34	30	50
SMB	20	11	9	6	13
DR	0	3	0	2	2
CR	104	93	74	98	112
HR	117	103	91	83	85
LR	7	13	9	15	13
AG	1	0	0	0	0
VP	0	0	0	0	. 0
Total	339	300	273	281	320



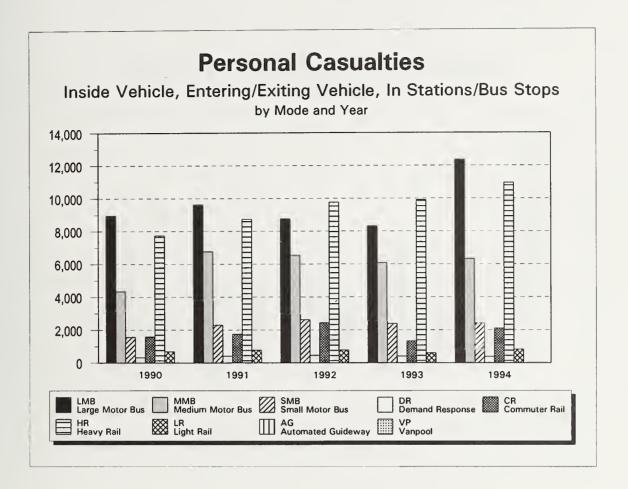
Injuries by Mode and Year

	1990	1991	1992	1993	1994
LMB	21,891	22,301	23,654	23,393	26,365
MMB	13,780	12,366	12,090	11,153	11,798
SMB	4,335	3,952	4,346	4,327	4,032
DR	807	622	713	652	731
CR	2,438	2,308	2,546	1,560	2,374
HR	10,036	9,285	10,446	10,532	11,673
LR	1,244	1,251	1,268	982	1,181
AG	4	0	7	10	10
VP	21	40	19	59	29
Total	54,556	52,125	55,089	52,668	58,193



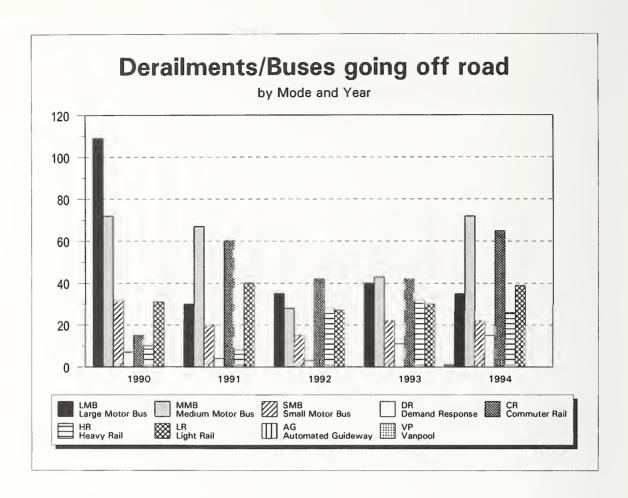
Collisions by Mode and Year

	1990	1991	1992	1993	1994
LMB	32,057	27,608	21,994	18,177	17,450
MMB	17,282	13,159	9,576	7,904	8,324
SMB	5,737	3,583	2,634	2,410	1,851
DR	1,606	810	665	513	644
CR	160	188	139	166	201
HR	134	180	585	630	718
LR	668	631	573	419	473
AG	1	0	1	1	1
VP	81	79	35	118	36
Total	57,726	46,238	36,202	30,338	29,698



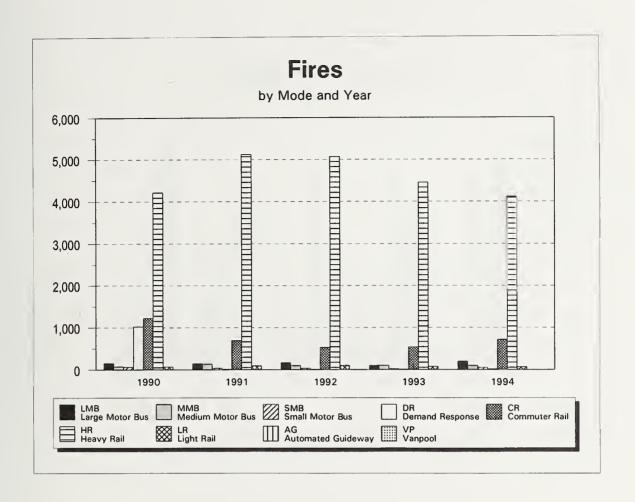
Personal Casualties by Mode and Year

	1990	1991	1992	1993	1994
LMB	8,949	9,618	8,753	8,309	12,348
MMB	4,335	6,753	6,514	6,062	6,312
SMB	1,569	2,294	2,628	2,394	2,412
DR	330	415	461	412	391
CR	1,592	1,751	2,429	1,326	2,102
HR	7,740	8,743	9,766	9,916	10,952
LR	692	774	789	607	832
AG	2	0	7	9	8
VP	3	4	5	1	2
Total	25,212	30,352	31,352	29,036	35,359



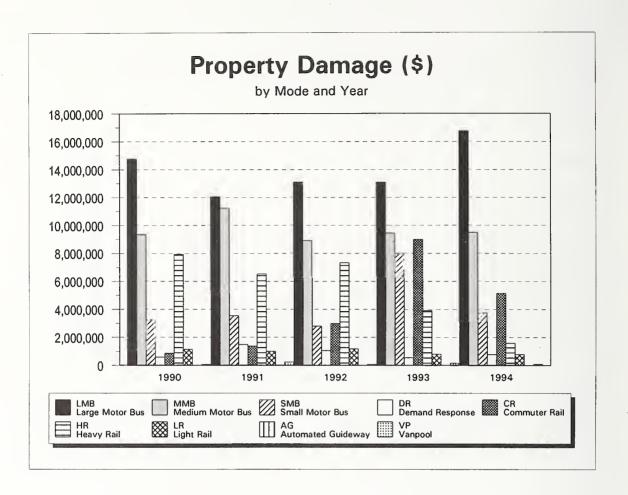
Derailments/Buses going off road by Mode and Year

	1990	1991	1992	1993	1994
LMB	109	30	35	40	35
MMB	72	67	28	43	72
SMB	32	20	15	22	22
DR	7	4	3	11	15
CR	15	60	42	42	65
HR	10	8	28	32	26
LR	31	40	27	30	39
AG	0	0	0	0	0
VP	0	0	0	1	0
Total	276	229	178	221	274



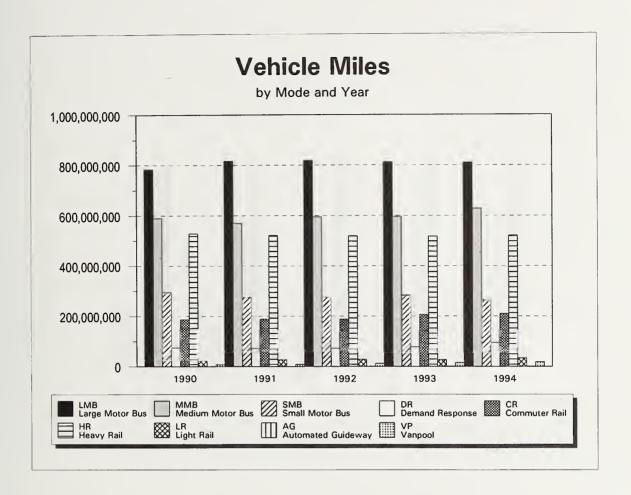
Fires by Mode and Year

	1990	1991	1992	1993	1994
LMB	151	146	168	99	197
MMB	73	136	98	100	98
SMB	62	36	31	19	51
DR	1,022	12	8	10	12
CR	1,226	695	527	540	715
HR	4,217	5,124	5,068	4,452	4,117
LR	72	96	101	75	67
AG	0	1	0	0	1
VP	0	0	0	1	1
Total	6,823	6,246	6,001	5,296	5,259



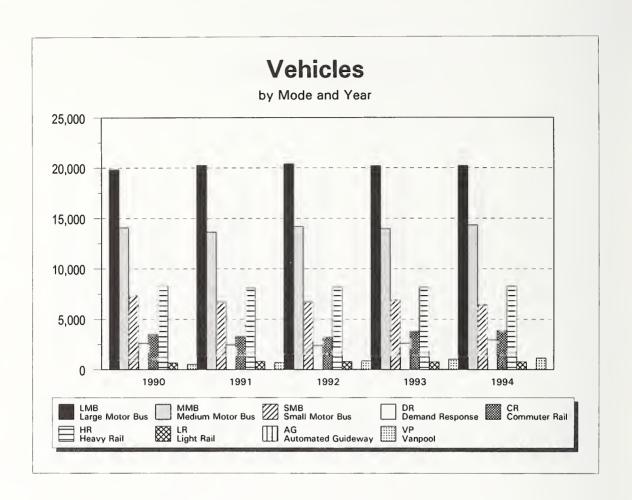
Property Damage (\$) by Mode and Year

	1990	1991	1992	1993	1994
LMB	\$14,760,209	\$12,050,771	\$13,105,639	\$13,091,179	\$16,754,916
ммв	9,343,884	11,238,640	8,900,792	9,440,339	9,490,771
SMB	3,264,278	3,543,247	2,807,956	7,971,835	3,748,256
DR	600,594	1,492,942	1,053,526	547,062	778,653
CR	861,513	1,370,729	2,986,769	9,003,757	5,140,604
HR	7,929,642	6,525,828	7,333,790	3,911,643	1,597,031
LR	1,144,000	1,008,107	1,184,825	801,082	784,719
AG	0	2,217	11,286	0	3,051
VP	68,549	243,711	70,367	157,835	78,396
Total	\$37,972,669	\$37,476,192	\$37,454,950	\$44,924,732	\$38,376,397



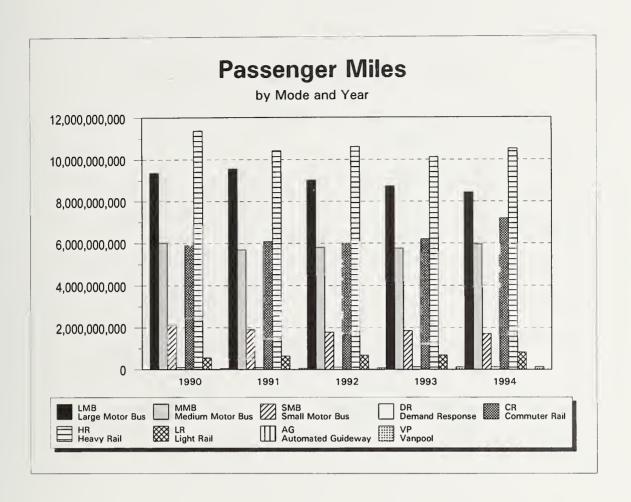
Vehicle Miles by Mode and Year

	1990	1991	1992	1993	1994
LMB	783,462,575	816,537,201	818,634,740	812,012,373	809,748,409
ммв	590,034,014	569,705,808	594,265,959	595,797,608	628,481,294
SMB	294,410,421	274,486,151	274,667,270	282,306,693	263,588,384
DR	74,105,006	70,951,677	71,968,135	76,793,858	93,913,122
CR	187,250,786	188,340,972	188,003,333	206,398,036	210,144,656
HR	528,627,222	521,837,984	520,198,883	517,685,338	522,271,573
LR	24,055,177	27,316,440	28,287,567	27,395,870	33,778,116
AG	617,427	491,035	981,072	957,742	1,183,408
VP	7,703,281	8,368,677	12,571,244	15,988,994	18,175,972
Total	2,490,265,909	2,478,035,945	2,509,578,203	2,535,336,512	2,581,284,934



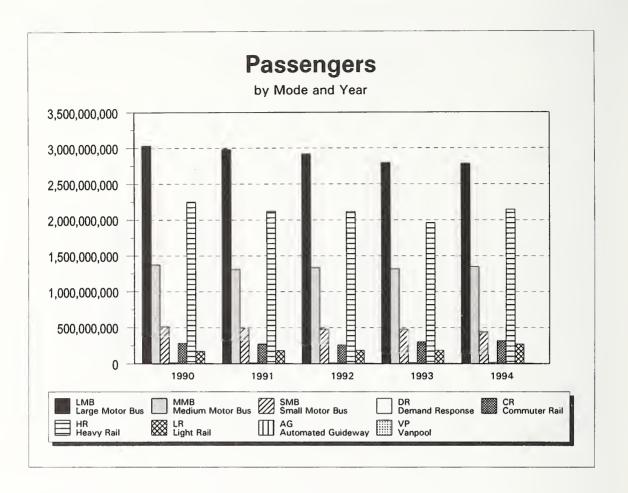
Vehicles by Mode and Year

	1990	1991	1992	1993	1994
LMB	19,808	20,230	20,383	20,184	20,204
MMB	14,091	13,634	14,178	13,971	14,330
SMB	7,358	6,723	6,712	6,904	6,417
DR	2,588	2,424	2,374	2,588	2,939
CR	3,444	3,266	3,182	3,755	3,828
HR	8,347	8,106	8,180	8,187	8,277
LR	661	808	769	769	769
AG	15	11	21	18	29
VP	520	697	846	1,029	1,154
Total	56,832	55,899	56,645	57,405	57,947



Passenger Miles by Mode and Year

	1990	1991	1992	1993	1994
LMB	9,356,105,402	9,559,613,863	9,020,728,495	8,735,111,887	8,436,801,038
ММВ	6,019,938,132	5,681,140,849	5,802,019,495	5,747,356,634	5,955,895,358
SMB	2,125,924,373	1,903,836,382	1,790,385,790	1,859,062,717	1,713,877,588
DR	110,088,578	100,765,621	114,051,985	126,183,364	130,130,003
CR	5,901,516,569	6,094,419,108	5,992,300,852	6,210,811,478	7,202,401,370
HR	11,373,197,592	10,420,500,859	10,613,108,031	10,129,682,552	10,520,676,890
LR	554,554,894	647,579,641	686,289,760	688,961,513	823,832,584
AG	5,461,306	2,985,061	6,350,377	6,276,663	7,181,392
VP	53,953,693	61,622,268	84,648,188	122,923,428	137,789,656
Total	35,500,740,539	34,472,463,652	34,109,882,973	33,626,370,236	34,928,585,879



Passengers by Mode and Year

	1990	1991	1992	1993	1994
LMB	3,029,861,563	2,978,584,127	2,915,883,332	2,792,806,711	2,780,831,677
ммв	1,371,209,547	1,309,022,201	1,334,447,953	1,318,147,322	1,347,246,825
SMB	510,598,687	492,859,837	477,450,141	473,672,717	439,024,741
DR	13,829,398	13,296,991	13,221,090	14,814,835	16,651,638
CR	285,861,662	273,938,924	261,870,040	302,598,857	317,786,280
HR	2,252,462,303	2,123,182,878	2,118,769,679	1,960,305,314	2,148,844,066
LR	174,000,077	183,563,959	187,321,032	187,336,419	273,685,925
AG	5,882,047	3,534,327	5,499,402	5,163,965	6,250,861
VP	2,025,787	2,324,875	3,255,200	4,220,764	4,543,397
Total	7,645,731,071	7,380,308,119	7,317,717,869	7,059,066,904	7,334,865,410

Number of Reporting Agencies*

by Year

	Transit Agencies
1990	410
1991	384
1992	383
1993	396
1994	389

^{*} Transit Agencies which operate solely Purchased Transportation are not included.

Number of Reporting Agencies which operate each of the following transit modes*

by Mode and Year

	1990	1991	1992	1993	1994
LMB	19	20	20	20	20
MMB	68	65	67	66	67
SMB	265	247	249	255	250
DR	166	160	170	173	180
CR	9	8	7	9	9
HR	12	12	13	14	14
LR	13	14	15	16	19
AG	3	2	3	3	3
VP	16	13	18	18	18

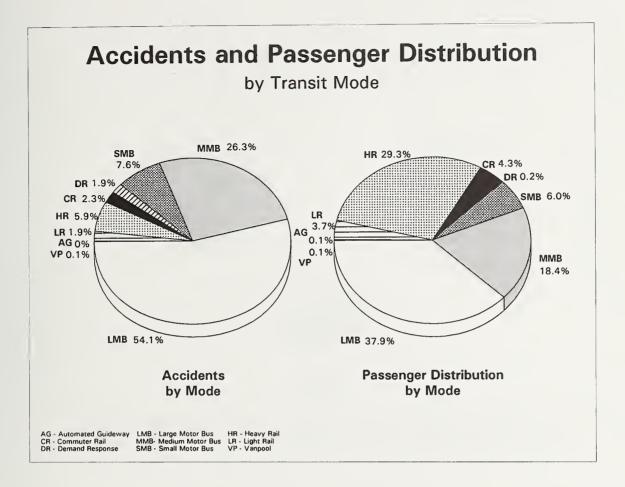
^{*} The way to interpret the data in the table is as follows: In 1994 there were 67 agencies which operated Medium Motor Buses (MMB), 14 agencies which operated Heavy Rail (HR), 19 which operated Light Rail (LR), and so on.



The 1994 SAMIS data presented as

GRAPHS

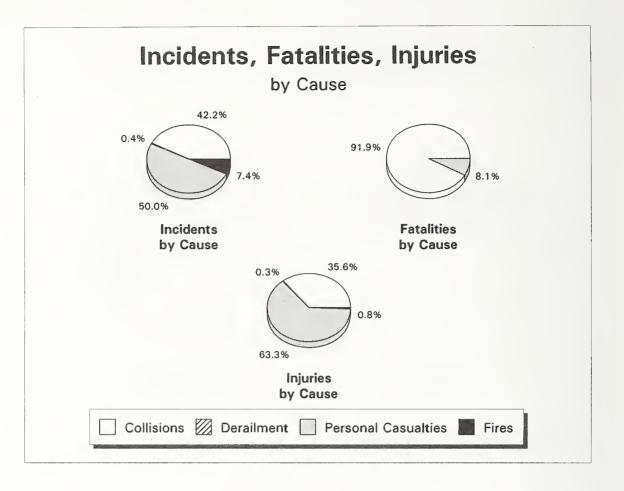
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The *pie chart on the left* shows the percentage of accidents (or incidents) reported for each mode. The Accidents include **Collisions** (not suicides), **Derailments**, and **Personal Casualties** (on the vehicle, and entering/exiting the vehicle)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

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

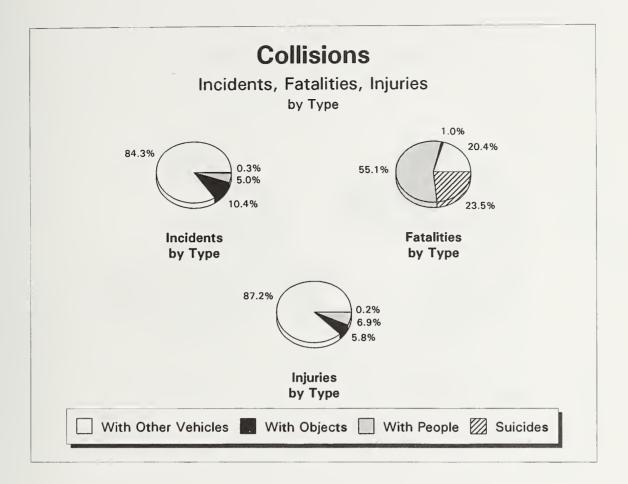
When compared, these pie charts give another view of accident rates, e.g., with about 30% of transit passengers Heavy Rail has only 6% of the total accidents. If all transit modes were equally safe, the numbers for a given transit mode would be the same in both pie charts.



The pie chart on the left shows the percentage of incidents 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 <u>each cause</u> (Collisions, Derailments, Personal Casualties, and Fires) to the total.

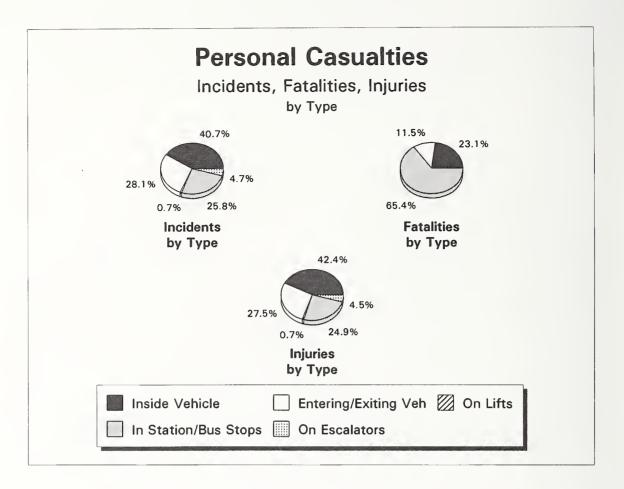
The Fatalities chart shows that Collisions are the single most contributing cause of fatalities.



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*.

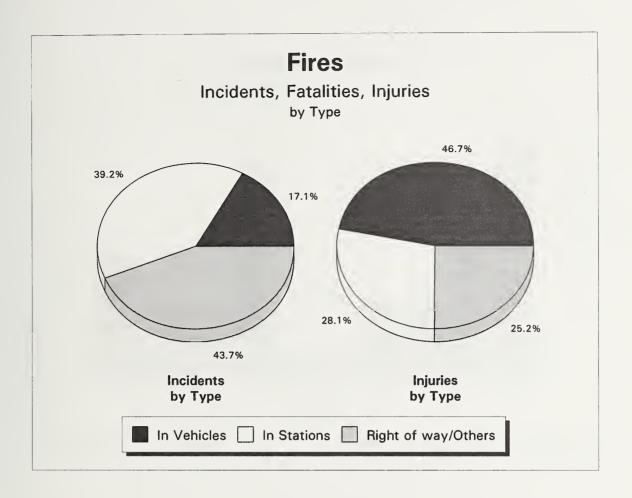
The *pie chart on the right* shows the percentage of *Fatalities*, and the *pie chart in the middle* shows the percentage of *Injuries* from each type of **Collision** (i.e., with other vehicles, objects, and people) to the total.

Comparing the three charts gives more insight into the causes of incidents, injuries, and deaths from **Collisions**, e.g., the minuscule amount of injuries (0.2%) which result from attempted suicides is an indication that nearly all the suicide attempts are "successful" (result in death).



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

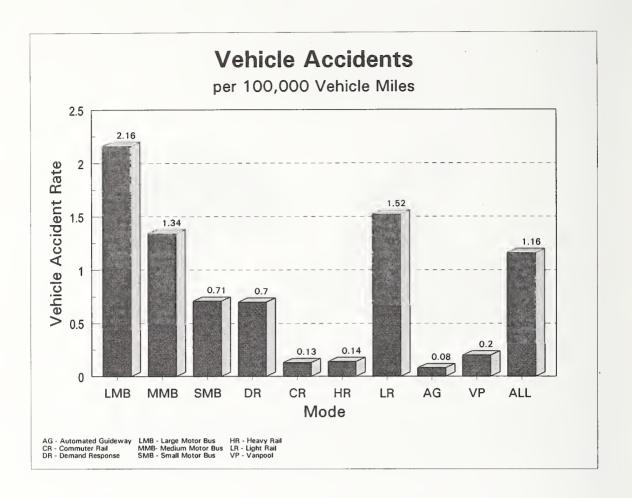


The *pie chart on the left* shows the percentage of each type of **Fire** *incident* (in vehicles, in stations, and on right of way and others) to the total incidents of Fires.

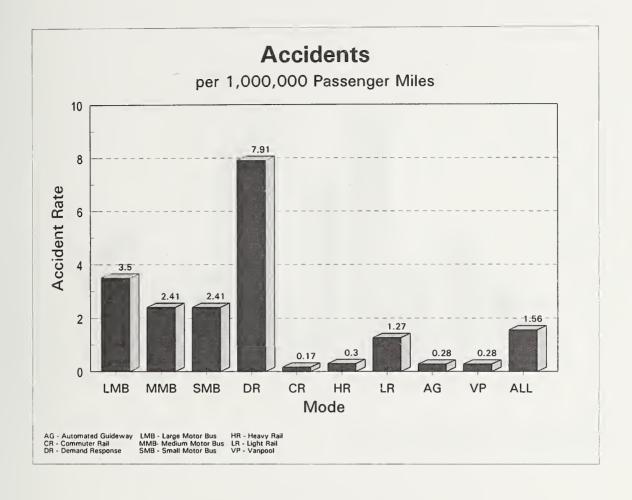
The *pie chart on the right* shows the percentage of *Injuries* from each type of Fire incident to the total injuries resulting from these incidents.

There were no Fatalities from Fires.

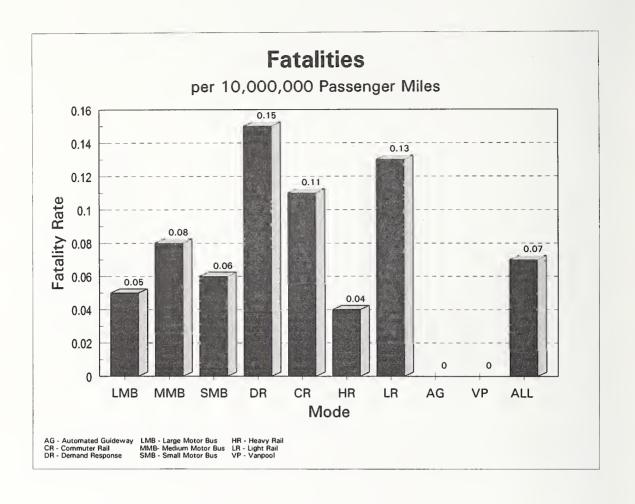
Comparing the two charts provides more insight into the types of Fires and the causes of injuries from them, e.g., a fire inside the vehicle (the smallest percentage of the fire incidents) results in more patron injuries than a fire on the road or in a station/bus stop.



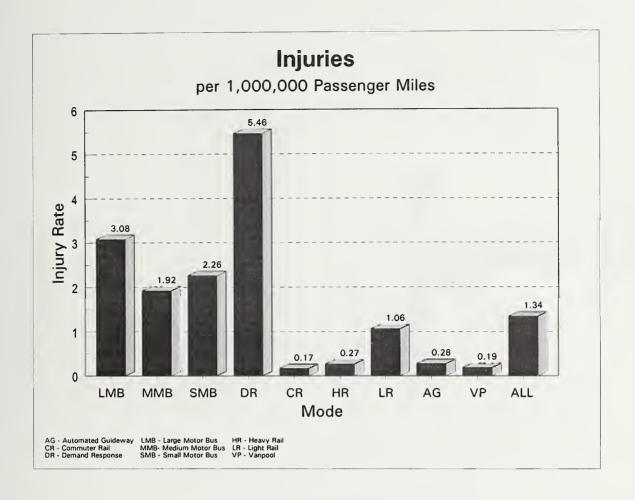
This graph shows the accident rate which is based only on the number of <u>vehicle</u> accidents (incidents). These include all vehicle accidents resulting from **Collisions** [with vehicles, objects, people (not suicides)] and **Derailments** (vehicle derailed/left roadway). The vehicle mile figure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



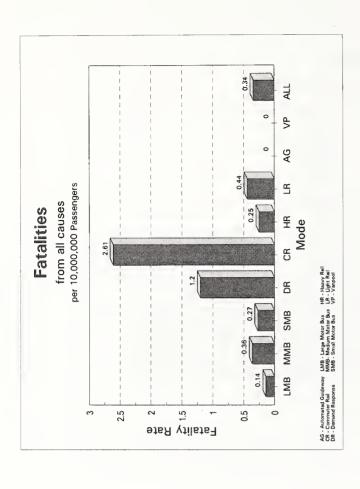
This graph shows the number of accidents (or incidents) resulting from Collisions [with vehicles, objects, and people (not suicides)], Derailments (vehicle derailed/left roadway), and Personal Casualties (inside the vehicle, and entering/exiting the vehicle). When analyzing the results on this page, 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 includes Personal Casualties (inside the vehicle, and entering/exiting the vehicle), and is indexed in Passenger Miles.



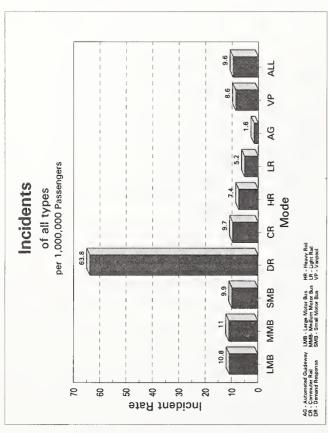
These statistics represent *fatalities* resulting from **Collisions** [with vehicles, objects, people (not suicides)], **Derailments** (vehicle derailed/left roadway), and **Personal Casualties** (inside the vehicle and entering/exiting the vehicle).

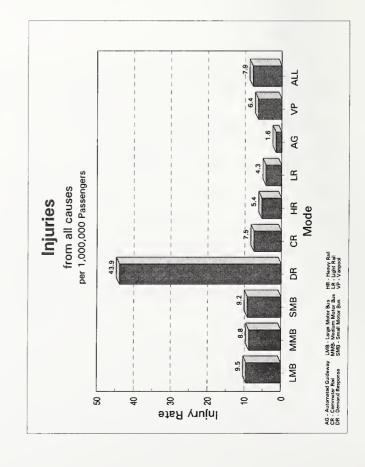


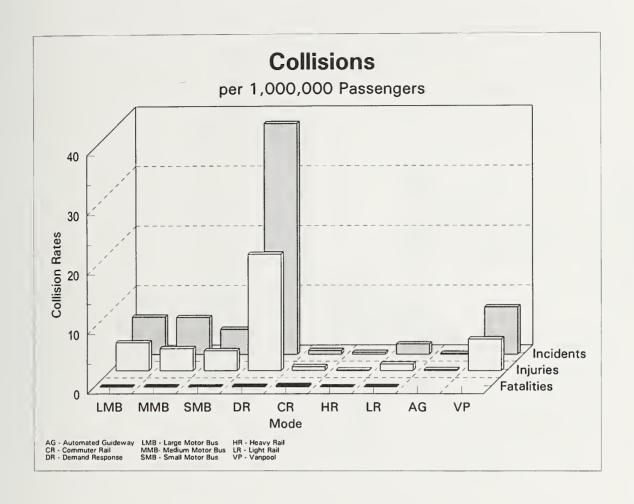
These statistics represent *injuries* resulting from **Collisions** [with vehicles, objects, people (not suicides)], **Derailments** (vehicle derailed/left roadway), and **Personal Casualties** (inside the vehicle and entering/exiting the vehicle). This chart may be compared with Accidents and Fatalities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





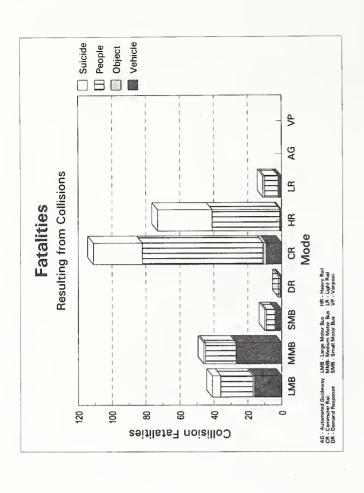


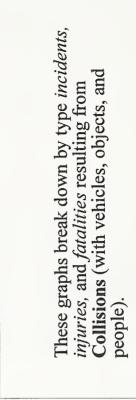




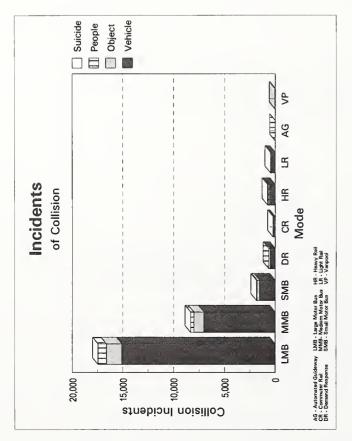
This graph shows the rates of *incidents*, *injuries*, and *fatalities* (except suicides) for the **Collisions** category of Form 405.

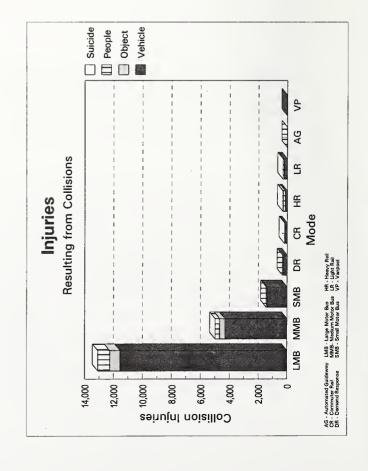
The rates show how often incidents, fatalities, and injuries occur, based on passenger exposure to risk. These rates should be kept in mind when looking at the Collision figures (stacked bar charts on next page) which give only raw numbers. The raw numbers alone do not give a full idea about relative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

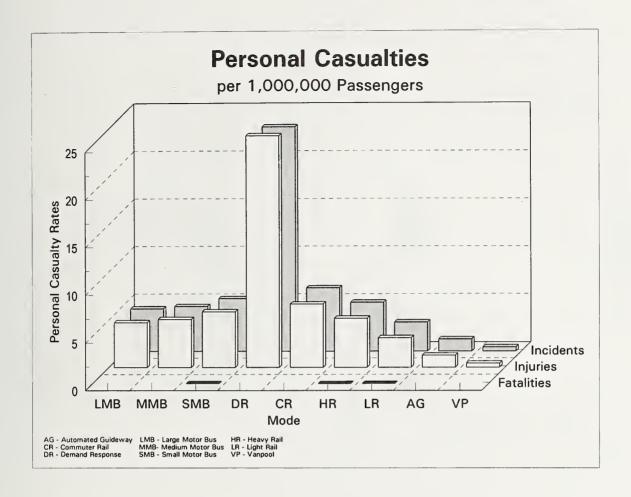




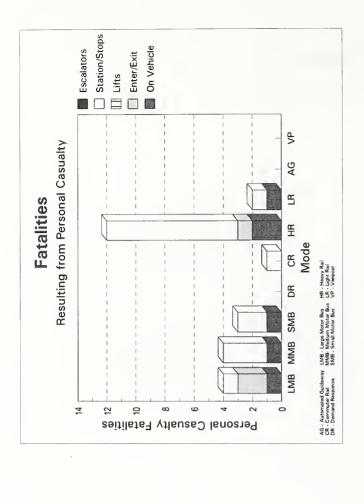
Not surprisingly most of the fatalities are the result of collisions with people.

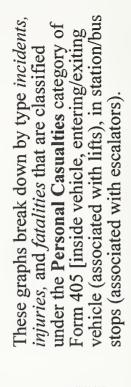




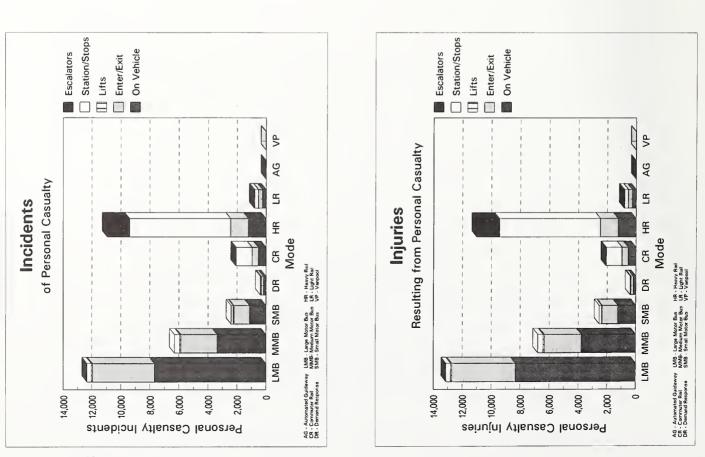


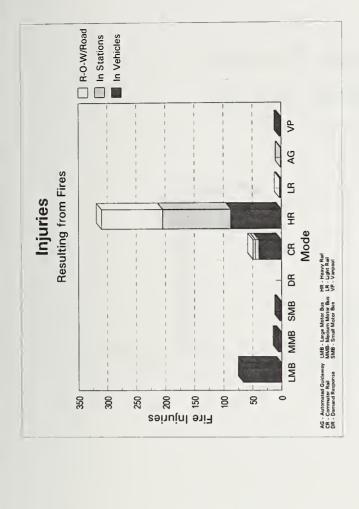
This graph provides the rates by transit mode for *incidents, fatalities*, and *injuries* classified under the **Personal Casualties** category of Form 405. Keep in mind that **Personal Casualties** is a transit mishap *category* (in Form 405) where people are hurt but <u>not</u> as a result of Collisions, 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 Personal Casualties figures (stacked bar charts on next page) 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.

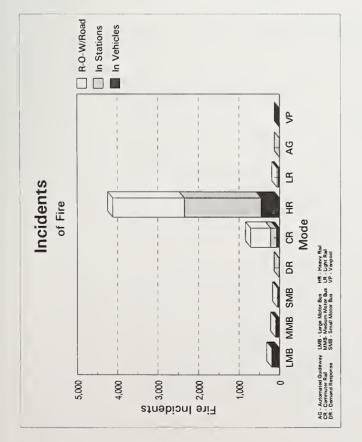




Keep in mind that **Personal Casualties** is a transit mishap *category* (in Form 405) where people are hurt but <u>not</u> as a result of Collisions, Derailments, or Fires.

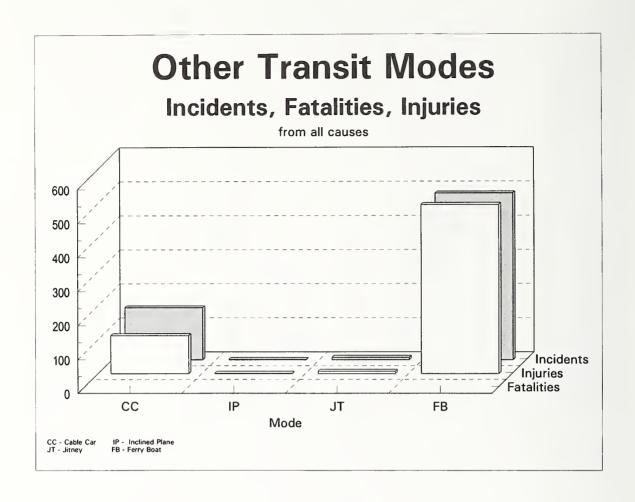






These graphs break down by type the *incidents*, and resulting *injuries*, from **Fires** (in vehicles, in stations, and on right of way/road and others). While there were relatively few incidents of Fires, this graph clearly shows that the vast majority of such incidents occurred in heavy rail stations and right of way.

There were no fatalities from Fires.



	1990	1991	1992	1993	1994
ncidents	186	411	400	411	650
atalities	2	1	0	1	0
njuries	378	327	399	383	616
Property Damage (\$)	335,100	410,450	288,308	220,674	321,705

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

1994 SAMIS data in

TABLES



Collisions

INCIDENTS								
<u>Mode</u>	Mode Vehicle Object People** Suicide*							
LMB	15,087	1,534	837	8				
MMB	7,014	995	318	3				
SMB	1,545	238	70	2				
DR	497	134	13	0				
CR	73	40	120	32				
HR	487	114	173	56				
LR	372	30	73	2				
AG	0	0	1	0				
VP	34	2	0	0				
Total	25,109	3,087	1,605	103				

FATALITIES							
<u>Mode</u>	<u>Vehicle</u>	<u>Object</u>	People**	<u>Suicide</u>			
LMB	16	1	24	5			
MMB	27	0	19	1			
SMB	4	0	6	1			
DR	1	0	1	0			
CR	9	2	100	29			
HR	1	0	72	32			
LR	2	0	9	1			
AG	0	0	0	0			
VP	0	0	0	0			
Total	60	3	231	69			

INJURIES							
<u>Mode</u>	<u>Vehicle</u>	<u>Object</u>	People**	Suicide			
LMB	11,548	717	820	3			
MMB	4,316	361	313	1			
SMB	1,3ָ70	37	57	0			
DR	293	24	8	0			
CR	147	26	22	3			
HR	116	31	165	24			
LR	232	3	68	1			
AG	0	0	1	0			
VP	24	0	0	0			
Total	18,046	1,199	1,454	32			

^{*} Incidents of Suicide include deaths, injuries and unharmed.
** People figures include Suicides.

Personal Casualties

INCIDENTS Mode On Enter/Exit* Lifts Station/Stops** Escalators					
<u>Mode</u>	<u>On</u> Vehicle	EIIIOI/EXII	<u>LIIIS</u>	Station/Stops**	<u>Escalators</u>
LMB	7,672	4,371	84	305	2
MMB	3,366	2,579	73	367	0
SMB	1,139	1,125	56	148	0
DR CR	180 538	190 436	46	21 1,128	0 38
HR	1,222	1,228	0 0	8,502	1,559
LR	260	271	3	301	45
AG	1	0	0	7	3
VP	14.270	10.001	0	0	0
Total	14,379	10,201	262	10,779	1,647
			ALITIES		
<u>Mode</u>	<u>On</u>	Enter/Exit*	<u>Lifts</u>	Station/Stops**	Escalators
LMB	<u>Vehicle</u>	2	0	1	0
MMB	 	0	0 0	1	0 0
SMB	i	Ö	Ö	2	Ō
DR	0	0	0	0	0
CR	0	0	0	1	0
HR LR	2 1	1 0	0 0	1	0
AG	0	Ö	Ö	Ö	Ö
VP	0	0	0	0	0
Total	6	3	0	17	0
		IN	JURIES		
<u>Mode</u>	<u>On</u>	Enter/Exit*	<u>Lifts</u>	Station/Stops**	Escalators
LMB	<u>Vehicle</u> 8,318	4,484	84	319	2
MMB	3,789	2,626	74	364	0
SMB	1,245	1,146	56	162	0
DR	193	190	46	21	0
CR HR	542 1,248	436 1,243	0 0	1,128 8,539	38 1,578
LR	269	274	3	307	46
AG	1	0	0	7	3
VP	15 404	10.400	0 263	0 10 847	0
Total	15,606	10,400	263	10,847	1,667
		clude Lift figures			
** Station,	/Stop figures	include Escala	tor figure	es.	

Fires by Mode

Mode	INCIDI <u>Vehicle</u>	ENTS Station	<u>R-O-</u>
LMB MMB SMB DR CR HR LR AG VP	192 90 45 11 79 458 21 0 1	0 4 5 1 143 1,891 17 1 0 2,062	W/Road 5 4 1 0 493 1,768 29 0 0 2,300
	FATAL	ITIES	
Mode	<u>Vehicle</u>	<u>Station</u>	R-O-
LMB MMB SMB DR CR HR LR AG VP	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	W/Road 0 0 0 0 0 0 0 0
	INJUF	RIES	
<u>Mode</u>	<u>Vehicle</u>	<u>Station</u>	<u>R-O-</u> <u>W/Road</u>
LMB MMB SMB DR CR HR LR AG VP	66 6 3 0 39 87 2 0 3 206	0 0 0 6 117 0 1	W/ROGG 0 0 0 4 106 1 0 0 111

Derailment/Buses going off road

<u>Mode</u>	<u>Incidents</u>	<u>Fatalities</u>	<u>Injuries</u>
LMB	35	0	93
MMB	72	0	23
SMB	22	0	12
DR	15	0	2
CR	65	0	24
HR	26	0	21
LR	39	0	25
AG	0	0	0
VP	0	0	0
Total	274	0	200

Operating Statistics

<u>Mode</u>	Vehicle Miles	<u>Passengers</u>	<u>Passenger Miles</u>	Property Damage
LMB	809,748,409	2,780,831,677	8,436,801,038	\$16,754,916
MMB	628,481,294	1,374,246,825	5,955,895,358	\$9,490,771
SMB	263,588,384	439,024,741	1,713,877,588	\$3,748,256
DR	93,913,122	16,651,638	130,130,003	\$778,653
CR	210,144,656	317,786,280	7,202,401,370	\$5,140,604
HR	522,271,573	2,148,844,066	10,520,676,890	\$1,597,031
LR	33,778,116	273,685,925	823,832,584	\$784,719
AG	1,183,408	6,250,861	7,181,392	\$3,051
VP	18,175,972	4,543,397	137,789,656	\$78,396
Total	2,581,284,934	7,334,865,410	34,928,585,879	\$38,376,397

Totals* of Incidents, Fatalities, Injuries, and Property Damage

Mode	<u>Incidents</u>	<u>Fatalities</u>	<u>Injuries</u>	Property Damage
LMB	30,038	45	26,365	\$16,754,916
ММВ	14,809	50	11,798	\$9,490,771
SMB	4,338	13	4,032	\$3,748,256
DR	1,062	2	731	\$778,653
CR	3,115	112	2,374	\$5,140,604
HR	15,869	85	11,673	\$1,597,031
LR	1,413	13	1,181	\$784,719
AG	10	0	10	\$3,051
VP	39	0	29	\$78,396
Total	70,693	320	58,193	\$38,376,397

^{*} These are the totals of Collisions, Derailments, Personal Casualties, and Fires.

FORM 405 Fiscal Year: 12/31/94 org. id ALL Transit Safety ALL Totals of All Organizations Mode b d a Line Items Incidents Fatalities Injuries COLLISIONS Collision with other vehicles 01 25,109 60 18,046 Collision with objects 3,087 02 3 1,199 Collision with people 03 1,605 231 1,454 03a (Attempted/successful suicides) 32) 103 69 NON-COLLISIONS Derailments Derailments/buses going off road 04 274 0 200 Personal casualties 05 Inside vehicle 14,379 15,606 6 06 Boarding and alighting vehicle 10,201 10,400 (Associated with lifts) 0 06a 262 (263) In Stations/bus stops 07 10,779 17 10,847 (Associated with escalators) 07a 1,647 0 1,667) Fires (no-thresholds) In vehicles 08 897 0 206 09 In stations 2,062 0 124 Right of way & others 2,300 111 10 0 58,193 11 TOTALS 70,693 320 Dollar Amount 12 Transit property damage \$38,376,397.20 Date Prepared: 03/28/96 Date Updated:



Reporting Agencies*

by State

Alabama

Birmingham-Max Dothan - Wiregrass

Huntsville Mobile-MTA

Montgomery-Autauga Montgomery-Community Montgomery-MAT NW Alabama COLG

Tuscaloosa-CP&TA

Alaska

Municipality of Anchorage

Arizona

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

Arkansas

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

California

Bakersfield-GET Contra Costa-Connection Davis-UNITRANS Fresno-FAX LA-Commerce **LA-Culver City** LA-Gardena Bus Line LA-La Mirada LA-Laguna Beach LA-Long Beach Transit LA-Montebello LA-Norwalk LA-OCTA LA-Santa Monica Los Angeles-LACMTA Modesto-MAX

Monterey-MST

OCTA- Dave Transportation

Oakland-AC Transit

Oxnard-SCAT

Palm Springs-SunBus Riverside Special Trans.

Riverside-RTA SF-Golden Gate SF-SamTrans Sacramento-RT

San Bernardino-OMNITRANS

San Diego Transit
San Diego- The Trolley
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
Simi Valley Transit

Colorado

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

Bridgeport-VTD

Connecticut

CT-Carey Transportation Danbury-HART Greater Bridgeport TD Hartford-CT Transit N. Britain Trans-Bristol New Britain Trans New Haven-CT Transit New Haven-NET Norwalk-Wheels Stamford Dial-A-Ride Stamford-CT Transit Westport Transit District

^{*} The data in this report are collected from these transit agencies

Delaware

Delaware-DAST Wilmington-DART

District of Columbia

Washington-WMATA

Florida

Bradenton-MCT **Brevard-SCAT** Clearwater-Pasco Shuttle Daytona Beach-STS 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

Idaho

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

Illinois

Bloomington-Normal Champaign-Urbana-MTD Chicago-CTA/Cook Dupage Chicago-Metra/BN RR Chicago-Metra/C&NW RR

Chicago-Pace-ATC\VanCom

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 Wavne-PTC Indianapolis-Metro Lafayette-GLPTC Muncie-MITS NW IN-East Chicago NW IN-Gary-GPTC NW IN-HYC **NW IN-Lake County** NW IN-NICTD **NW IN-Opportunity NW IN-Portage** NW IN-SCMH NW IN-Trade Winds Rehab NW IN-Tri City CMHC, Inc. NWIN-LCEOC, Inc. South Bend-Transpo Terre Haute-TU

lowa

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

Kansas

Topeka-TMTA Wichita-MTA

Kentucky

Cincinnati-TANK Lexington-Fayette-LexTran Louisville-TARC Owensboro-OTS

Louisiana

Alexandria-ATRANS
Baton Rouge-CTC
Lafayette-COLT
Lake Charles
Monroe-MTS
New Orleans-LA Transit
New Orleans-RTA
New Orleans-Westside
Shreveport-SparTran

Maine

Bangor-The Bus Lewiston-Hudson Bus Lewiston-Western Maine Portland-METRO Portland-RTP

Maryland

Annapolis Public Transit Baltimore-ColumBus Baltimore-Maryland-MTA Hagerstown-Commuter Maryland-Ride-On

Massachusetts

Boston-MBTA Lowell-LRTA Worcester-WRTA

Michigan

Ann Arbor-AATA
Battle Creek-BCT
Bay City-Metro Transit
Benton Harbor-Twin Cities
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

Mississippi

Jackson-Jatran

Missouri

Columbia-CATS

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

Montana

Billings-MET Great Falls-GFT Missoula-Mountain Line

Nebraska

Lincoln-StarTRAN Omaha-TA

Nevada

Las Vegas-ATC\VanCom Las Vegas-EOB Reno-Citifare

New Jersey

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

New Mexico

Albuquerque-Sun Tran Las Cruces-RoadRUNNER Santa Fe Trails Santa Fe-Sr. Citizens

New York

Albany-CDTA Albany-Upstate Transit Broome County Buffalo-NFTA 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-Metro Apple Express NY-Monsey New Square NY-Rockland-Ride Sharing NY-Spring Valley NY-Westchester-Liberty **NYCDOT-Bus Tours** NYCDOT-GTJC

New York (continued)

NYCDOT-Queens Port Authority-PATH Poughkeepsie Poughkeepsie-LOOP Rochester-RTS 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 Hickory-Piedmont Wagon High Point-Hitran Raleigh-CAT Wilmington-WTA Winston-Salem-WSTA

North Dakota

Grand Forks-City Bus

Ohio

Akron-Kent State
Akron-Metro
Canton-RTA 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

Oregon

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

Pennsylvania

Allentown-Lanta Altoona-AMTRAN Erie-EMTA 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 Myrtle Beach-CRPTA Sumter-Santee Wateree Sumter-Spartanburg

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-AT
Amarillo-ACT
Austin-Capital Metro
Beaumont-BMT
Brazos Transit System
Brownsville-BUS
Corpus Christi-The B
Dallas - Handitran
Dallas-DART
Dallas-DART/ATE
Dallas-Mesquite
EI Paso-Sun Metro
Fort Worth-The T
Galveston-Island Transit

Texas (continued)

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
Sheboygan-ST
Wausau-WATS

Wyoming

Cheyenne Transit





