



**County of San Diego
Health and Human Services Agency
Emergency Medical Services**

**San Diego County
Trauma System Report**

**July 1, 2000
through
June 30, 2001**

December 2003

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Board of Supervisors**

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Acknowledgements

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Preface

In 1982, the Hospital Council of San Diego and Imperial Counties undertook an assessment to determine whether San Diego County would benefit from a regionalized trauma system. The study represented the first comprehensive concurrent and retrospective audit of trauma care in the nation (“Trauma Care Needs Assessment Study” by Amherst and Associates). The findings and recommendations of this report, released in November 1982, led to the development of a joint Hospital Council and Medical Society plan for care of trauma patients in San Diego County.

In October 1983, the Department of Health Services created an ad hoc Trauma Advisory Task Force to assist in the review and evaluation of the Hospital Council - Medical Society Trauma Plan. The advisory group conducted public hearings and informal sessions with hospital and prehospital care providers. The task force synthesized the knowledge gained from these providers with the experiences of other trauma systems and their own knowledge and experience into a set of recommendations presented to the Department of Health Services and the County Board of Supervisors. The recommendations included adopting a trauma standard which closely followed the American College of Surgeons guidelines for optimal care of injured patients.

In August 1984, a regionalized system of trauma care developed by dedicated physicians, nurses, prehospital providers, citizens and system specialists emerged within San Diego County. The system design, undertaken by the Division of Emergency Medical Services (EMS), provided the basic framework for the current system.

Introduction

Currently, there are five adult trauma centers serving San Diego County: Palomar Medical Center, Scripps Memorial Hospital - La Jolla, Scripps Mercy Hospital and Medical Center, Sharp Memorial Hospital, and UCSD Medical Center. Children’s Hospital and Health Center serves as the pediatric trauma center. Since August 1984, more than 100,000 trauma patients have been admitted to San Diego County’s designated trauma centers.

Traumatic injury, considered a preventable disease, represents a serious public health challenge for San Diego County. During FY 00/01, 9,351 patients were admitted to designated trauma centers (an average of 779 patient admissions per month). The number of trauma patients increased from the previous fiscal year by four percent.

Trauma Center Admissions by Fiscal Year

Fiscal Year	Trauma Center Admissions			
	Number	Monthly Average	% Change from Previous Year	Rate per 100,000 Population
1985/86	4,374	365	---	203.55
1986/87	5,466	456	25%	245.81
1987/88	6,148	512	12%	267.22
1988/89	6,379	532	4%	267.05
1989/90	6,650	554	4%	268.14
1990/91	7,036	586	6%	277.05
1991/92	7,111	593	1%	275.25
1992/93	6,460	538	-9%	247.11
1993/94	6,399	533	-1%	242.52
1994/95	6,474	540	1%	243.51
1995/96	7,516	626	16%	279.38
1996/97	7,257	605	-3%	266.37
1997/98	7,653	638	5%	273.83
1998/99	8,435	703	10%	295.62
1999/00	8,984	749	7%	308.57
2000/01*	9,351	779	4%	314.44

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Center Monthly Reports.

*Population estimates calculated from SANDAG estimates and forecasts. (Does not reflect 2000 Census.)

Traumatic injuries are classified as either penetrating or blunt. The number of patients admitted to county trauma facilities with penetrating injuries (mostly due to firearms and cutting/piercing injuries) increased steadily from fiscal year 1985/86 to 1992/93. Since then, the number of penetrating injuries decreased 52% to a fifteen-year low in FY 1999/00. FY 00/01 showed a small (3%) increase. The number of blunt injuries, primarily resulting from motor vehicle related injuries and falls, has continued to increase by an average of about 6% per year.

Trauma Center Admissions by Injury Type

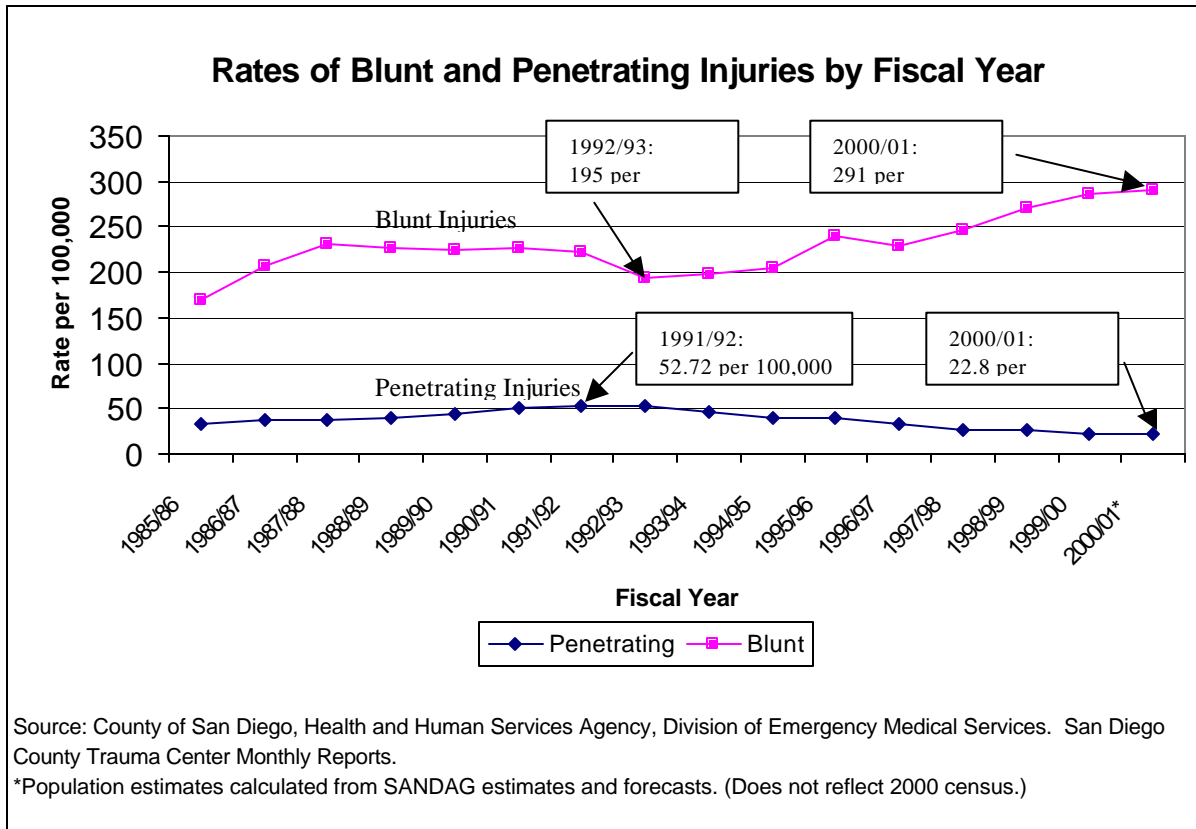
Fiscal Year	Penetrating				Blunt			
	#	%	% Change from Previous Year	Rate per 100,000 Population	#	%	% Change from Previous Year	Rate per 100,000 Population
1985/86	721	16%	---	33.55	3,653	84%	---	169.99
1986/87	841	15%	17%	37.82	4,625	85%	27%	207.99
1987/88	845	14%	<1%	36.73	5,303	86%	15%	230.49
1988/89	967	15%	14%	40.48	5,412	85%	2%	226.57
1989/90	1078	16%	11%	43.47	5,572	84%	3%	224.67
1990/91	1301	18%	21%	51.23	5,735	82%	3%	225.82
1991/92	1362	19%	5%	52.72	5,749	81%	<1%	222.53
1992/93	1375	21%	1%	52.60	5,085	79%	-12%	194.51
1993/94	1192	19%	-13%	45.18	5,207	81%	2%	197.35
1994/95	1043	16%	-13%	39.23	5,431	84%	4%	204.28
1995/96	1083	14%	4%	40.26	6,428	86%	18%	238.94
1996/97	883	12%	-18%	32.41	6,226	88%	-3%	228.52
1997/98	759	10%	-14%	27.16	6,890	90%	10%	246.53
1998/99	726	9%	-4%	25.53	7,709	91%	12%	270.18
1999/00	660	7%	-9%	22.70	8,317	93%	8%	285.66
2000/01*	679	7%	3%	22.83	8,668	93%	4%	291.47

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Center Monthly Reports.

*Population estimates calculated from SANDAG estimates and forecasts. (Does not reflect 2000 Census.)

A rate is calculated as incidence per 100,000 population. Rates were calculated using January 2001 population estimates calculated from estimates and forecasts from the San Diego Association of Governments (SANDAG) that do not use the data from the 2000 census. Rates were not calculated for categories with less than five occurrences.

$$\text{Rate} = \frac{\text{Incidence X 100,000}}{\text{Population}}$$



Trauma Registry Data

The American College of Surgeons Committee on Trauma initiated a study which pooled data from more than 100 trauma centers nationwide. To be included, trauma patients had to meet Major Trauma Outcome Study (MTOS) criteria which reflect either the severity of the patient's injuries or the resources required to care for the patient.

Members of the San Diego County trauma system modified these criteria for the San Diego County Trauma Registry. To be entered into the registry, a trauma patient must meet one of the following: admission to the hospital for at least three days, admission to an intensive or intermediate care unit, interfacility transfer to or from an acute care hospital, **or** death from traumatic injuries. In January 2000, these criteria were revised to include trauma patients who had been admitted for at least 24 hours.

Since 1986, each of the designated trauma centers has submitted data on each trauma patient admission who met the modified MTOS criteria to the Division of EMS. These summaries contained more than 100 variables, including demographic, cause of injury, diagnostic, treatment and patient outcome data.

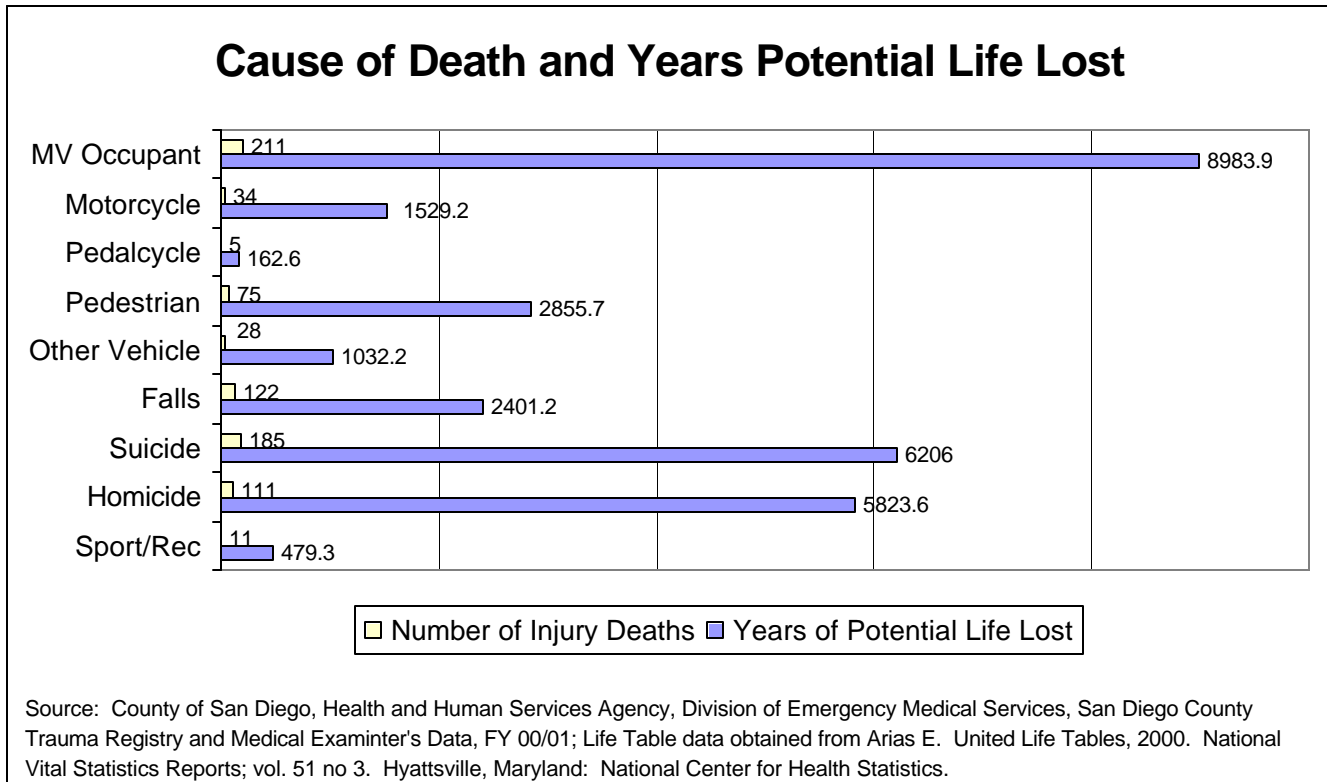
Of the 9,351 patients who were admitted to a trauma center during FY 00/01, 5,169 (55%) met expanded trauma registry criteria for inclusion into the San Diego County Trauma Registry. While total trauma admissions increased by 4% during the last fiscal year, the number of modified MTOS patients increased only one percent in spite of the expanded modified MTOS criteria.

Total MTOS Patient and Trauma Center Admissions

	Total Trauma Admissions	Percentage Change	Modified MTOS Patients	Percentage Change	MTOS Percent of Total
1991/92	7,111	---	4,645	---	65%
1992/93	6,460	-9%	4,492	-3%	70%
1993/94	6,399	-1%	4,235	-6%	66%
1994/95	6,474	1%	4,085	-4%	63%
1995/96	7,516	16%	4,250	4%	57%
1996/97	7,257	-3%	5,007	18%	69%
1997/98	7,653	5%	4,951	-1%	65%
1998/99	8,435	10%	4,995	1%	59%
1999/00	8,984	7%	5,093	2%	57%
2000/01	9,351	4%	5,169	1%	55%
Total	75,640	---	46,922	---	62%

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Trauma Center Monthly Reports.

Among traumatic deaths, motor vehicle occupant crashes were the leading cause of death and years potential life lost (YPLL). Suicide was the second highest cause of trauma related mortality, and accounted for the second highest number of YPLL.

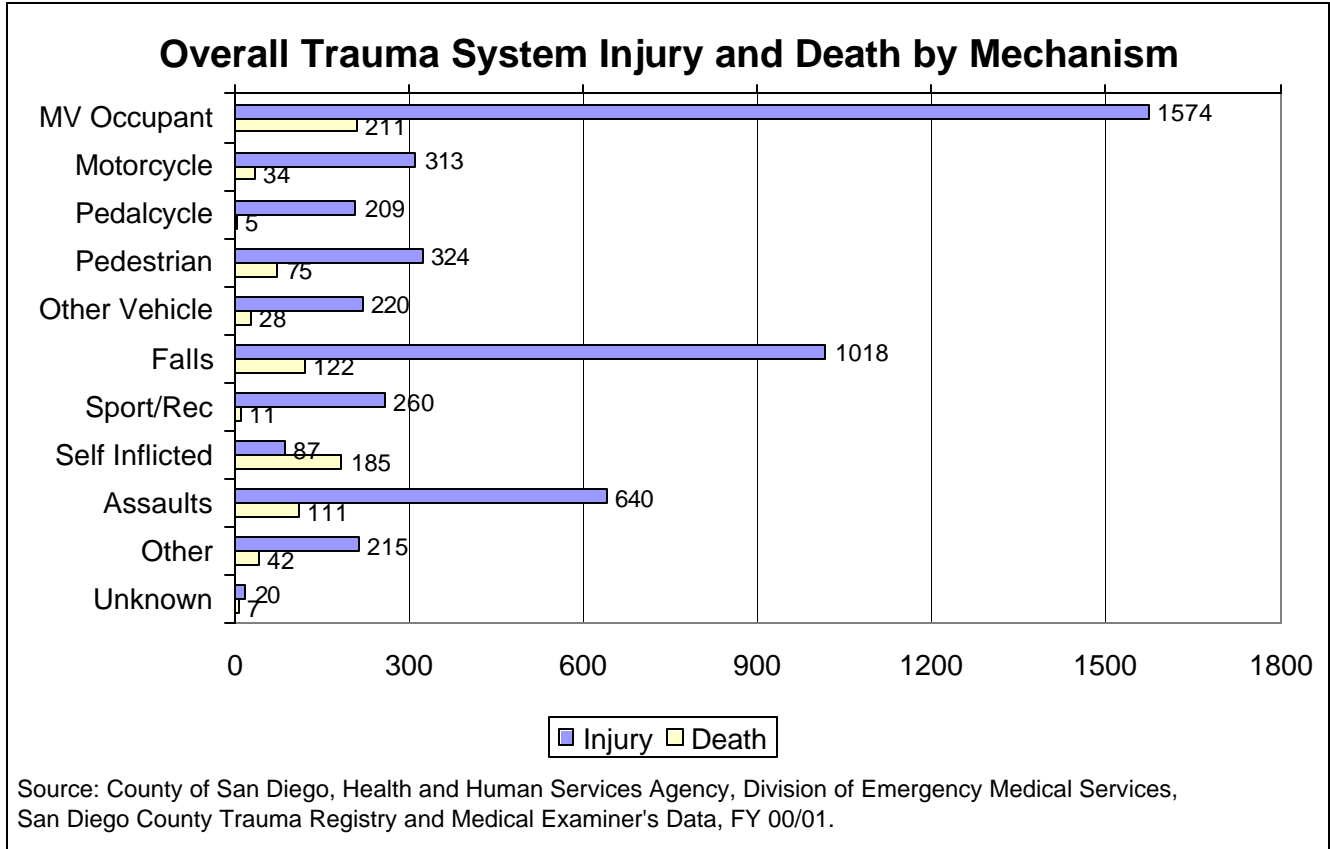


Years Potential Life Lost (YPLL) calculates the years of life lost due to a death using the average life expectancy as an estimate for the total length of life. Life expectancy was derived from the Vital Statistics Life Tables (Centers for Disease Control and Prevention). For age groups, YPLL was calculated using the life expectancy for the median age for the group.

$$YPLL = (\text{Expected years of life} - \text{median age}) \times \text{Number of deaths}$$

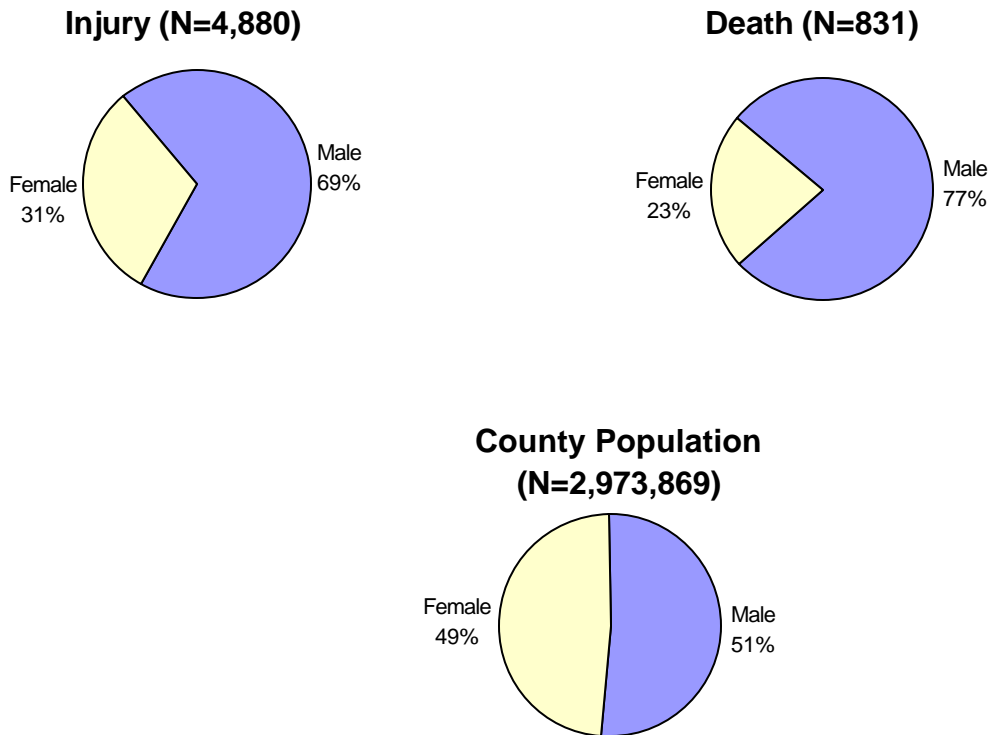
Current Overview of Traumatic Injury in San Diego County

During FY 00/01 831 lives were lost due to traumatic injury. On the average, for every person who died as the result of a traumatic injury, nearly six more were seriously injured. The figure below breaks out deaths and injuries by mechanism. The three leading causes of traumatic injury were motor vehicle occupant crashes, falls and assaults. The leading causes of traumatic death were motor vehicle occupant crashes, suicides, and falls.



Although males make up just a little more than half the county's population, they accounted for 69% of all serious injuries and 77% of all trauma patient deaths.

Comparison of County Population to Injuries and Deaths by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01. Population estimates calculated from SANDAG estimates and forecasts. (Does not reflect 2000 Census).

Patterns of injury were clearly evident by gender. Males accounted for 69% of nonfatal injuries, and were especially highly represented in assaults (89%), motorcycle crashes (88%), and pedalcycle crashes (81%). Motor vehicle occupant crashes and falls were the leading causes of injury for both males and females, while assaults made up 17% of injuries to males compared with less than 5% of injuries to females.

Trauma System Injury by Mechanism and Gender

	Male	Female	Total
Vehicle Related	1,675	964	2,640
<i>MV Occupant</i>	851	722	1,574
<i>Motorcycle</i>	274	39	313
<i>Pedalcycle</i>	169	40	209
<i>Pedestrian</i>	209	115	324
<i>Other Vehicle</i>	172	48	220
Falls	675	343	1,018
Sports/Recreation	186	74	260
Overall Violence	635	89	727
<i>Self Inflicted</i>	68	19	87
<i>Assault</i>	567	70	640
Other	167	48	215
Unknown	16	4	20
Total	3,354	1,522	4,880

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01.

Note: Gender was not documented in one MV Occupant and three assaults.

Traumatic deaths to both males and females were most often the result of motor vehicle occupant crashes. Males made up the majority of traumatic deaths regardless of cause of injury.

Trauma System Deaths by Mechanism and Gender

	Male	Female	Total
Vehicle Related	273	80	353
<i>MV Occupant</i>	163	48	211
<i>Motorcycle</i>	31	3	34
<i>Pedalcycle</i>	5	0	5
<i>Pedestrian</i>	52	23	75
<i>Other Vehicle</i>	22	6	28
Falls	79	43	122
Sports/Recreation	9	2	11
Overall Violence	235	61	296
<i>Suicide</i>	148	37	185
<i>Homicide</i>	87	24	111
Other	37	5	42
Unknown	7	0	7
Total	640	191	831

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01.

Below is a table which includes both the mean and median ages¹ by mechanism of injury for both injuries and deaths. As this table shows, different mechanisms are likely to have distinct age distributions. Sports and recreation injuries had the youngest age distribution (median=19, mean=24 years), while falls had the oldest patients overall. Half of all fall deaths were to victims over the age of 73. For most mechanisms, the mean and median ages were higher among those who expired than those who survived.

Mean and Median Age by Mechanism of Injury and Death

	Survived			Expired		
	Count	Median	Mean	Count	Median	Mean
Vehicle Related	2,640	33	36	350	37	42
<i>MV Occupant</i>	1,574	33	38	209	35	40
<i>Motorcycle</i>	313	33	35	33	36	38
<i>Pedalcycle</i>	209	30	31	5	45	50
<i>Pedestrian</i>	324	34	35	75	42	45
<i>Other Vehicle</i>	220	32	34	28	40	47
Falls	1,018	45	46	122	73	68
Sport/Rec	260	19	24	11	39	38
Overall Violence	726	27	31	294	38	42
<i>Self Inflicted/Suicide</i>	87	28	34	185	49	50
<i>Assault/Homicide</i>	639	27	31	109	27	29
Other	215	27	29	42	35	38
Unknown	20	30	29	7	23	21
Total	4,879	33	37	826	42	45

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01. Note: Age was unknown for 1 injury and 5 deaths.

¹ The mean is the average age. The median is the middle age when all of the ages are put into numerical order. In the event of an abnormally high or low age (an outlier), the median age is not as likely to be influenced as the mean age.

Traumatic injury disproportionately affects persons between the ages of 15 and 34 years. This age group accounted for 39% of all severe injuries. This twenty-year age group comprise 59% of assaults, 55% of self-inflicted injury, 52% of motorcycle injuries, and 44% of motor vehicle occupant injuries. The ten-year age group with the highest incidence of severe injuries was the 15-24 year olds, accounting for 22% of the severe injuries. While motor vehicle occupant injuries were definitely most prominent among the 15-34 year group, patients younger than this had more trouble with sports/recreation and pedalcycle injuries and the oldest patients were more likely to be injured from falls.

Appendix A lists the leading causes of severe injury and death by age group and Appendix C lists county population by age group.

Trauma System Injury by Mechanism and Age Group in Years

	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	Unkn	Total
Vehicle Related	78	103	113	260	346	485	432	339	177	147	115	45	0	2640
<i>MV Occupant</i>	35	49	39	169	219	307	242	173	113	108	87	33	0	1574
<i>Motorcycle</i>	2	0	1	27	67	68	65	54	23	4	2	0	0	313
<i>Pedalcycle</i>	4	17	40	17	14	25	35	34	12	8	1	2	0	209
<i>Pedestrian</i>	31	29	20	24	24	38	45	50	18	19	17	9	0	324
<i>Other Vehicle</i>	6	8	13	23	22	47	45	28	11	8	8	1	0	220
Falls	94	50	33	33	44	109	132	136	73	84	136	94	0	1018
Sports/Recreation	10	32	45	44	26	39	35	16	10	2	1	0	0	260
Overall Violence	35	2	8	121	139	165	113	86	25	20	8	4	1	727
<i>Self Inflicted</i>	2	0	2	15	14	19	16	7	5	4	2	1	0	87
<i>Assault</i>	33	2	6	106	125	146	97	79	20	16	6	3	1	640
Other	28	12	14	22	22	38	30	28	14	5	1	1	0	215
Unknown	4	0	0	1	4	4	3	1	3	0	0	0	0	20
Total	249	199	213	481	581	840	745	606	302	258	261	144	1	4880

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01.

The ten-year age group with the highest incidence of deaths was 15-24. Motor vehicle occupant (MVO) deaths accounted for 42% of deaths in this group and 32% of all MVO deaths. This 10-year age group (15-24) also accounted for 30% of all assault deaths.

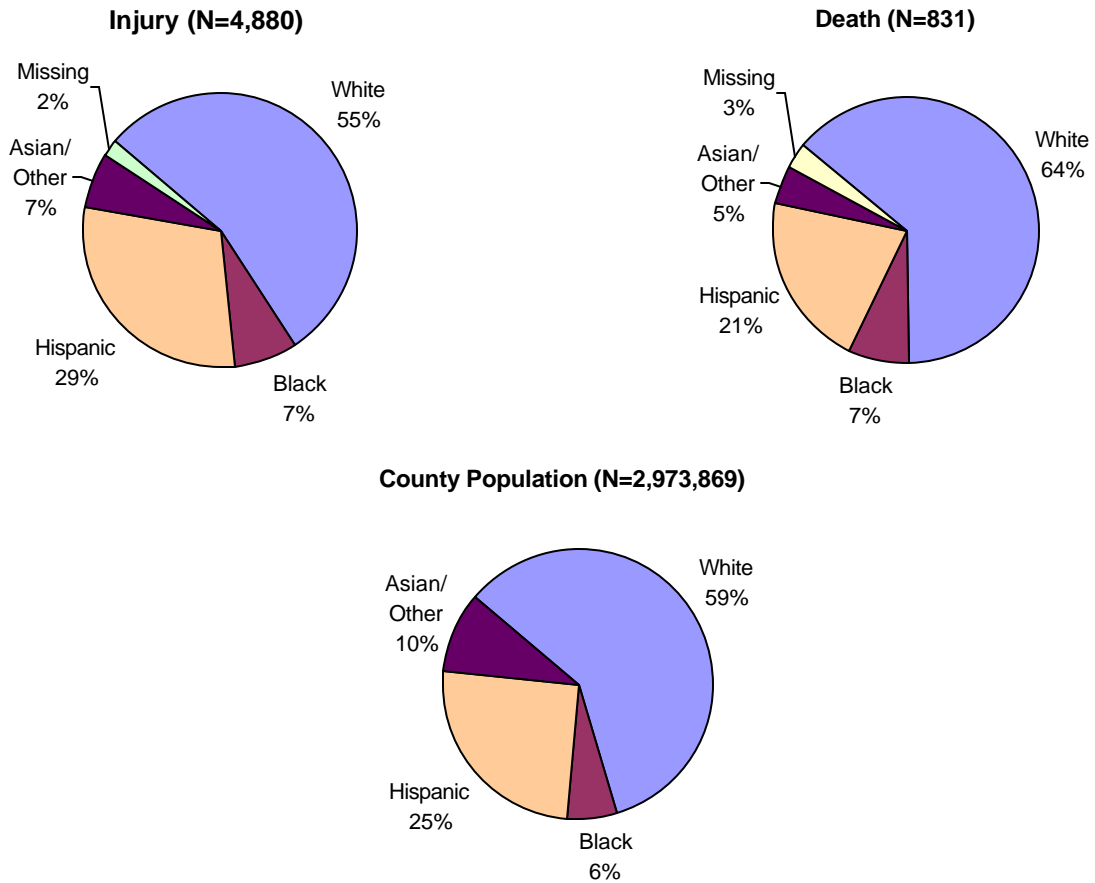
Trauma System Death by Mechanism and Age Group in Years

	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	Unkn	Total
Vehicle Related	3	7	4	34	57	60	51	38	26	29	30	11	3	353
<i>MV Occupant</i>	2	2	3	24	43	29	33	18	17	16	18	4	2	211
<i>Motorcycle</i>	0	0	0	3	5	8	7	6	2	1	1	0	1	34
<i>Pedalcycle</i>	0	0	0	0	0	0	2	2	0	0	1	0	0	5
<i>Pedestrian</i>	1	5	1	4	5	17	7	10	5	8	6	6	0	75
<i>Other Vehicle</i>	0	0	0	3	4	6	2	2	2	4	4	1	0	28
Falls	0	0	1	2	3	2	7	20	16	15	24	32	0	122
Sports/Recreation	0	1	0	1	0	1	4	3	0	1	0	0	0	11
Overall Violence	14	0	6	21	31	54	45	41	29	22	23	8	2	296
<i>Suicide</i>	1	0	2	8	11	26	30	36	26	16	22	7	0	185
<i>Homicide</i>	13	0	4	13	20	28	15	5	3	6	1	1	2	111
Other	2	0	1	2	7	9	9	3	4	3	0	2	0	42
Unknown	2	0	0	0	2	2	1	0	0	0	0	0	0	7
Total	21	8	12	60	100	128	117	105	75	70	77	53	5	831

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01.

The relative distribution of traumatic injuries and deaths by race/ethnicity was comparable to the overall county population makeup. Hispanics made up a slightly higher proportion of nonfatal injuries, while Whites comprised a higher proportion of deaths than would be estimated from the population distribution.

Comparison of County Population to Traumatic Injuries and Deaths By Race/Ethnicity



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner’s Data, FY 00/01.

During FY 00/01, 56% of all traumatic deaths and severe injuries took place among the White population. Another 28% were identified as Hispanic. Whites accounted for 54% of nonfatal vehicle related severe injuries and Hispanics accounted for 38% of the nonfatal assault injuries.

Trauma System Injury by Mechanism and Race/Ethnicity

	White	Black	Hispanic	Asian/Other	Missing	Total
Vehicle Related	1,428	179	778	195	60	2,640
<i>MV Occupant</i>	777	98	523	141	35	1,574
<i>Motorcycle</i>	231	16	38	16	12	313
<i>Pedalcycle</i>	121	15	57	12	4	209
<i>Pedestrian</i>	149	38	114	16	7	324
<i>Other Vehicle</i>	150	12	46	10	2	220
Falls	676	39	234	60	9	1,018
Sports/Recreation	181	5	61	10	3	260
Overall Violence	281	118	269	48	11	727
<i>Self Inflicted</i>	46	7	24	7	3	87
<i>Assault</i>	235	111	245	41	8	640
Other	98	11	88	12	6	215
Unknown	9	2	7	2	0	20
Total	2,673	354	1,437	327	89	4,880

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01.

Vehicle related trauma was the leading cause of death overall, and for each racial group except blacks. Forty-nine percent (49%) of traumatic deaths to Hispanics and Asians/Other were due to vehicle related crashes. Homicides accounted for more deaths in the black population than any other mechanism.

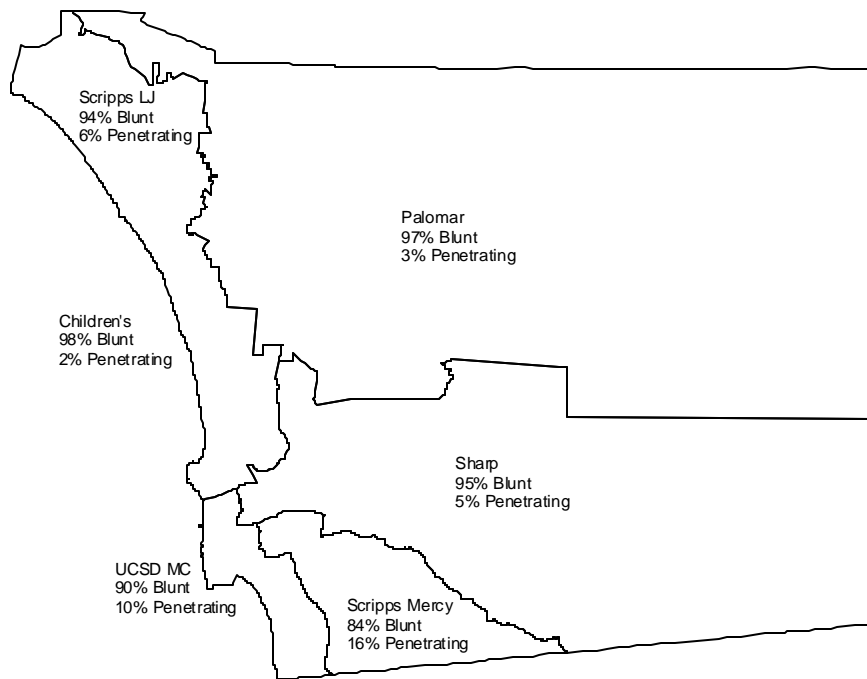
Trauma System Death by Mechanism and Race/Ethnicity

	White	Black	Hispanic	Asian/Other	Missing	Total
Vehicle Related	212	17	86	20	18	353
<i>MV Occupant</i>	122	13	53	11	12	211
<i>Motorcycle</i>	25	2	4	0	3	34
<i>Pedalcycle</i>	4	0	1	0	0	5
<i>Pedestrian</i>	40	2	25	6	2	75
<i>Other Vehicle</i>	21	0	3	3	1	28
Falls	85	7	25	5	0	122
Sports/Recreation	9	1	1	0	0	11
Overall Violence	201	25	46	16	8	296
<i>Suicide</i>	159	7	9	9	1	185
<i>Homicide</i>	42	18	37	7	7	111
Other	17	10	14	0	1	42
Unknown	3	1	3	0	0	7
Total	527	61	175	41	27	831

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01.

Among trauma patients, 93% of injuries were blunt in nature (motor vehicle related, falls, or assaults with a blunt object). Ninety-eight percent of Children’s Hospital and Health Center’s trauma patients sustained blunt injuries. Scripps Mercy Hospital and Medical Center and UCSD Medical Center received the highest percentages of penetrating injuries among each facility’s trauma patients (16% at Mercy and 10% at UCSD). Penetrating injuries include stabs and gunshot wounds.

Distribution of Trauma Center Patients by Hospital and Injury Type for Fiscal Year 2000/01



Source: San Diego County Trauma Center Monthly Reports, FY 00/01.

Trauma System Resources

For most of fiscal year 00/01, San Diego County had 21 civilian and two military emergency departments. The 21 civilian hospitals included eight base hospitals, five adult trauma centers, and one pediatric trauma center. The prehospital setting consisted of 21 ground transport agencies equipped to deliver advanced life support (ALS) services, two air transport agencies, and 33 basic life support (BLS) agencies. The majority of trauma patients were transported to trauma centers by ground ALS ambulance units.

Trauma Patient Mode of Arrival

Transport Mode	1995/96		1996/97		1997/98		1998/99		1999/00		2000/01	
	#	%	#	%	#	%	#	%	#	%	#	%
Ground ALS	2,694	63%	2,740	64%	3,268	66%	3,128	63%	3,143	62%	2,610	50%
Air ALS	535	13%	484	11%	611	12%	598	12%	525	10%	488	9%
Ground BLS	149	4%	126	3%	107	2%	87	2%	106	2%	134	3%
Air BLS	11	0%	9	0%	12	0%	15	0%	5	0%	-	0%
Interfacility	646	15%	660	16%	668	13%	843	17%	796	16%	672	13%
Walk In	193	5%	206	5%	241	5%	274	5%	261	5%	349	7%
Other/Unreported	22	1%	28	1%	44	1%	50	1%	257	5%	916	18%
Total	4,250	100%	4,253	100%	4,951	100%	4,995	100%	5,093	100%	5,169	100%

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data: FY 95/96 - 00/01.

The mean time spent on scene with a trauma patient prior to transport was 20 minutes during fiscal year 00/01. This ranged from 18 minutes for ALS ground transport agencies to 21 minutes for BLS units. Prolonged scene times can be attributed to the type of call, complicated extrication procedures, road conditions, and difficulty accessing patients.

Mean Scene Time by Mode of Arrival

Transport Mode	Scene Time in Minutes											
	1995/96		1996/97		1997/98		1998/99		1999/00		2000/01	
	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean
Ground ALS	0-107	15	1-72	16	1-336	18	0-88	18	0-86	18	0-113**	18
Air ALS	5-120	22	1-71	21	5-110	25	4-123	24	2-145	22	0-66	19
Ground BLS	1-83	20	6-59	19	4-33	17	5-52	20	5-45	18	3-33	21
Air BLS	20-36	29	*	*	8-24	14	10-24	15	11-22	16	--	--
Overall	0-120	16	1-72	17	1-336	19	0-123	19	0-145	19	0-113	20

**Two cases were excluded with scene times 411 minutes and 1402 minutes, assuming that they were incorrectly recorded.

Note: Scene times were not reported for all eligible incidents.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.

San Diego County Trauma Registry, FYs 95/96-00/01.

Trauma Patient Outcomes

Please note that the following section only includes patients who were admitted to designated trauma centers and does not include patients who died at a non-trauma center or on scene. Of the trauma patients who were admitted to designated trauma centers, 95% survived.

The severity of a trauma patient's injuries is calculated by using the Injury Severity Score (ISS). The ISS increases in relation to the severity of the injuries. Trauma Patients with an ISS of less than 15 have an approximate 99% survival rate in San Diego County. As shown in the table below, as a patient's ISS increases to 15 or more, the survival rate from injuries decreases to 81%.

Fiscal Year	Trauma Patient Injury Severity					
	Injury Severity Score					
	<9		9-14		15+	
	#	%	#	%	#	%
1992/93						
Survived	1,895	99.80%	1,296	99.30%	1,000	77.60%
Expired	4	0.20%	9	0.70%	288	22.30%
1993/94						
Survived	1,721	99.70%	1,239	98.80%	986	78.50%
Expired	5	0.30%	14	1.20%	270	21.40%
1994/95						
Survived	1,598	99.70%	1,236	99.50%	944	76.00%
Expired	4	0.30%	5	0.50%	298	24.00%
1995/96						
Survived	1,851	99.99%	1,321	99.40%	1,072	80.54%
Expired	1	0.01%	8	0.60%	259	19.46%
1996/97						
Survived	1,959	99.70%	1,362	99.80%	932	80.00%
Expired	5	0.30%	3	0.20%	233	20.00%
1997/98						
Survived	2,297	99.78%	1,381	99.42%	977	81.01%
Expired	5	0.21%	8	0.58%	229	18.99%
1998/99						
Survived	2,301	99.57%	1,392	99.00%	1,057	82.71%
Expired	10	0.21%	14	1.00%	221	17.29%
1999/00						
Survived	2329	99.53%	1503	99.40%	954	82.81%
Expired	11	0.47%	9	0.60%	198	17.19%
2000/01*						
Survived	2171	99.31%	1634	99.15%	1038	80.65%
Expired	15	0.69%	14	0.85%	249	19.35%

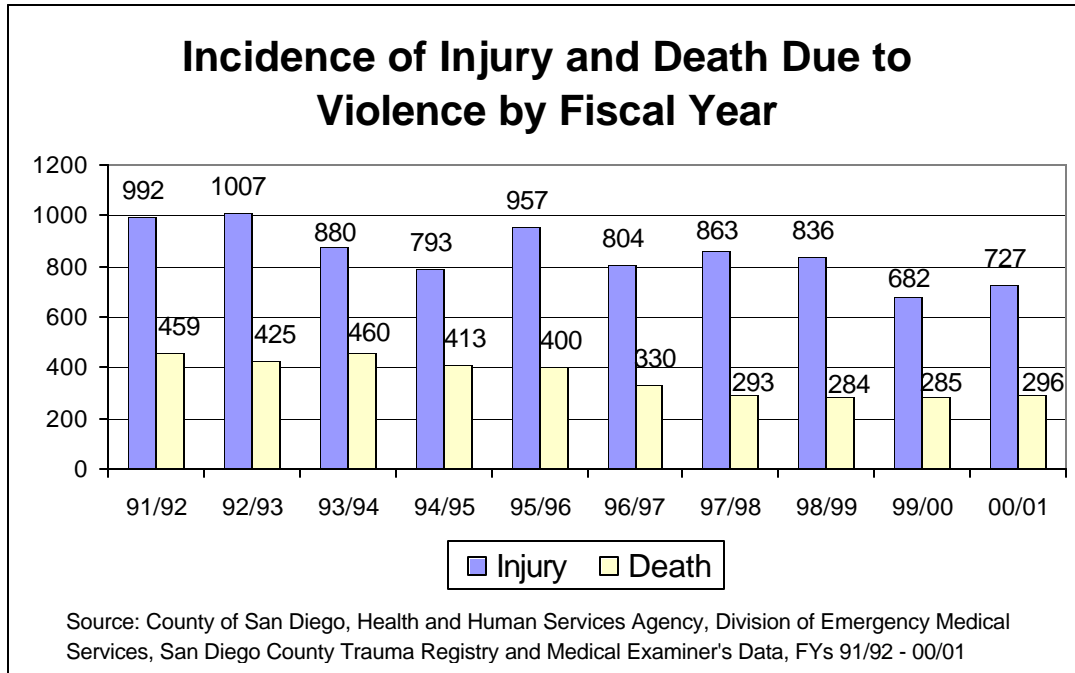
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry: FY 92/93 to 00/01.

*48 patients had missing injury severity scores.

¹The Injury Severity Score (ISS) is a modification of the Abbreviated Injury Scale (AIS) developed to deal with multiple injuries. The ISS incorporates the AIS scores for the most significant injuries in three different body regions. The ISS is calculated by summing the squares of the AIS scores for these injuries. AIS scores up to five are squared, so that the maximum ISS is 75. An AIS score of 6 in any body region is an automatic ISS of 75.

Overall Violent Injury

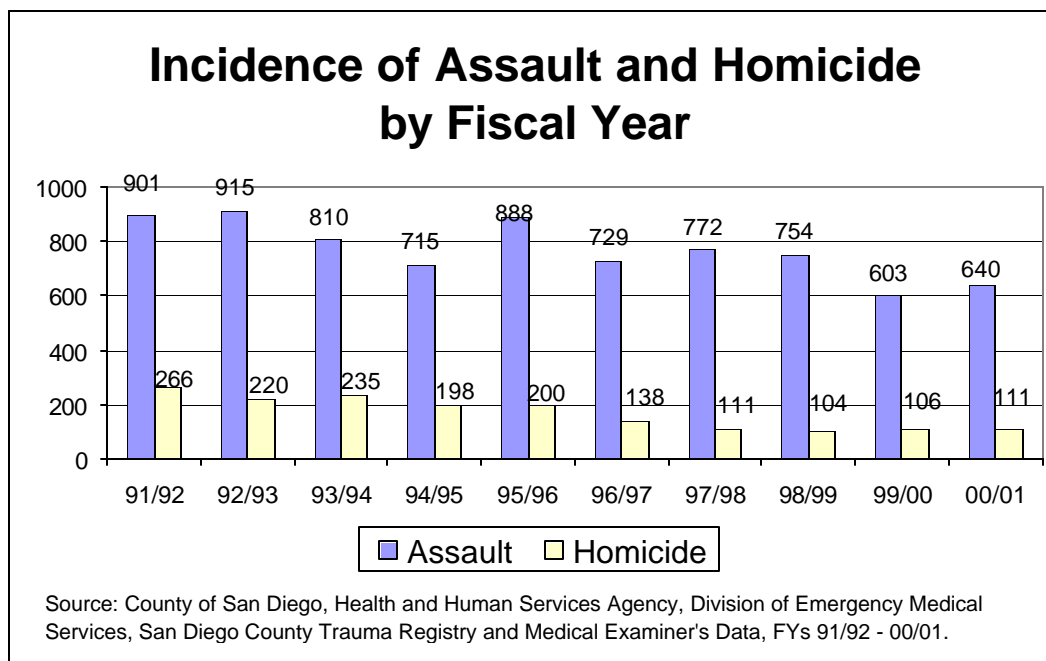
Violence that results in injury can be interpersonal (assault, homicide, legal intervention) or self-inflicted (self-inflicted injury or suicide). In the San Diego County trauma system, traumatic interpersonal injury and death occurred 2.8 times as often as self-inflicted violence. But 68% of self-inflicted injuries resulted in death, compared with only 15% of injuries inflicted by another person. Non-fatal injuries due to violence increased by 9% from FY 99/00 to FY 00/01, while the number of violent deaths increased 10%.



Homicide and Assault

Homicide was the fourth leading cause of traumatic death and accounted for the third greatest number of years of potential life lost. There were nearly six times as many assaults as there were homicides.

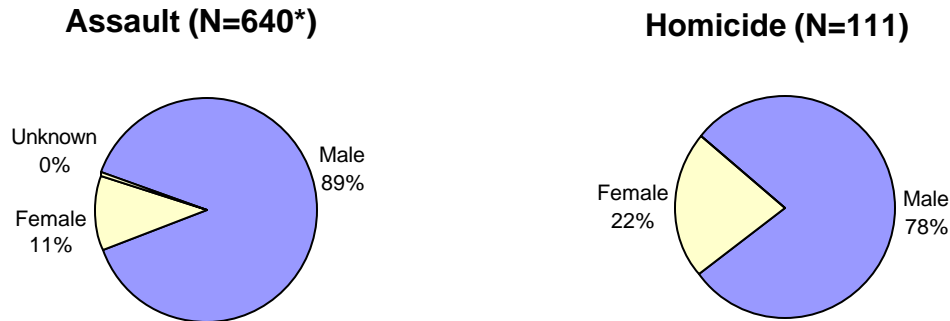
Over the ten years shown, the number of assaults decreased by 29% and the number of homicides decreased by 58%. These decreases accounted for essentially the entire change in the number of injuries and deaths due to violence during this time period.



Males were disproportionately affected by interpersonal violence, with 89% of nonfatal injuries from assaults and 78% of homicides.

In reviewing the number of incidents compared to the population base for specific age groups and gender, males 20-24 years of age were at highest risk for homicide (14.77 per 100,000) and males aged 15-19 were at greatest risk of assault (92.94 per 100,000). The highest-risk age group for females was 15-19, with an assault rate of 10.41 per 100,000.

Incidence of Assault and Homicide by Gender



*Total includes 3 assaults with unknown gender.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 00/01.

Incidence and Rate of Assault and Homicide by Age Group and Gender

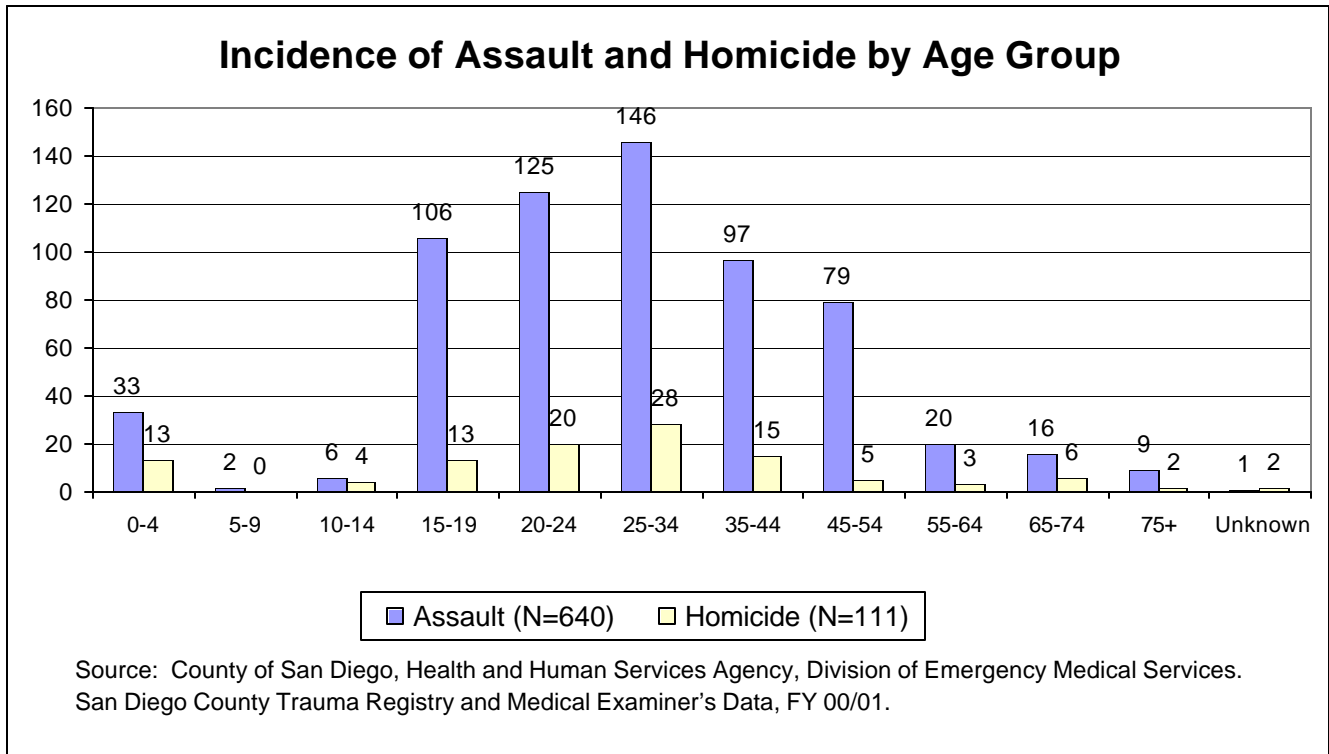
	Assault						Homicide						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate
0-4	23	19.40	10	8.65	33	14.10	8	6.75	5	4.33	13	5.55	46	19.65
5-9	2	*	0	*	2	*	0	*	0	*	0	*	2	*
10-14	6	5.53	0	*	6	2.83	2	*	2	*	4	*	10	4.72
15-19	95	92.94	10	10.41	106	53.45	11	10.76	2	*	13	6.56	119	60.01
20-24	115	89.39	9	9.13	125	55.01	19	14.77	1	*	20	8.80	145	63.81
25-34	134	57.16	12	5.79	146	33.06	22	9.38	6	2.90	28	6.34	174	39.39
35-44	83	33.30	14	5.96	97	20.03	11	4.41	4	*	15	3.10	112	23.13
45-54	69	36.17	10	5.38	79	20.98	3	*	2	*	5	1.33	84	22.31
55-64	18	15.55	2	*	20	8.41	2	*	1	*	3	*	23	9.68
65-74	15	18.77	1	*	16	9.18	6	7.51	0	*	6	3.44	22	12.62
75+	6	9.32	2	*	9	5.51	2	*	0	*	2	*	11	6.73
Unknown	1		0		1		1		1		2		3	
Total	567	37.59	70	4.78	640**	21.52	87	5.77	24	1.64	111	3.73	751	25.25

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 00/01; Population estimates calculated from SANDAG estimates and forecasts. (Does not reflect 2000 Census.)

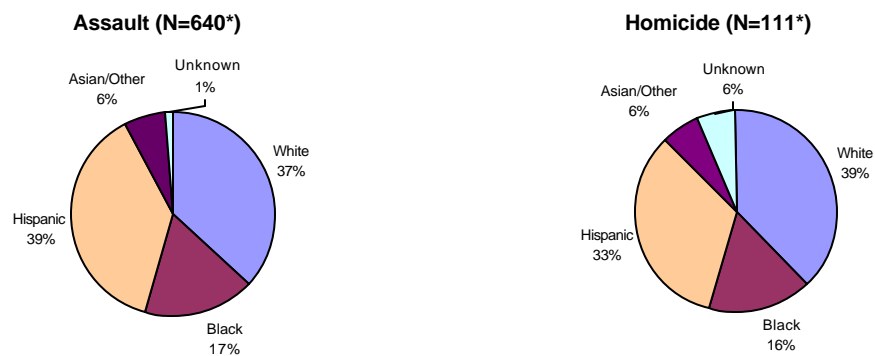
*Rates not calculated on less than five incidents.

**Includes 3 cases of unknown gender.

Violent interpersonal injuries were seen primarily in teenagers and young adults. Persons aged 15-34 years sustained 55% of all homicides and 59% of all assaults. The highest incidence for any ten-year age group of injuries due to assaults and homicides was in 15-24 year olds.

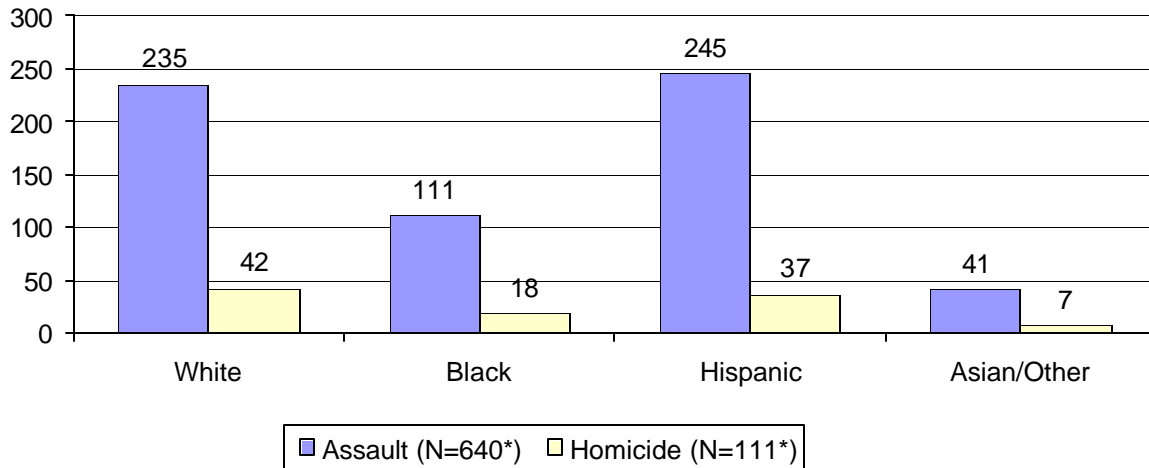


Incidence of Assault and Homicide by Race/Ethnicity



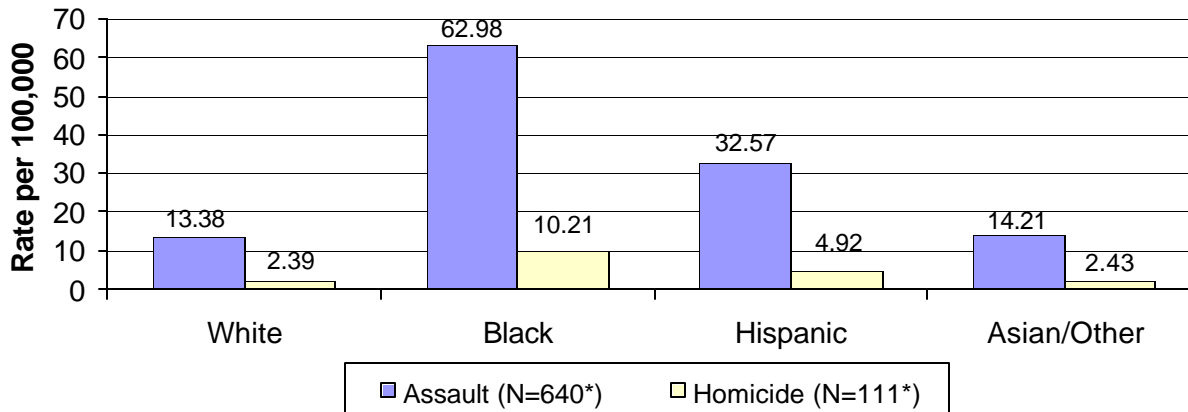
*Totals include eight assaults and seven homicides with unspecified race/ethnicity.
 Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01.

Incidence of Assault and Homicide by Race/Ethnicity



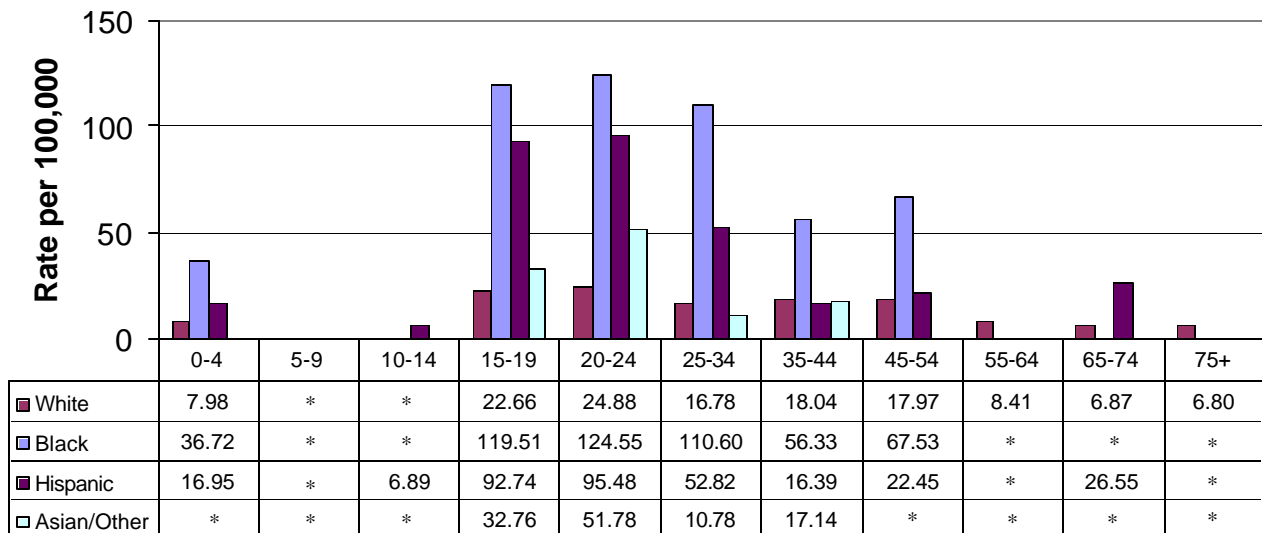
*Totals include eight assaults and seven homicides with unspecified race/ethnicity.
 Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01.

Rates of Assault and Homicide by Race/Ethnicity



*Totals include eight assaults and seven homicides with unspecified race/ethnicity.
 Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01. Population estimates calculated from SANDAG estimates and forecasts. (Does not reflect 2000 Census.)

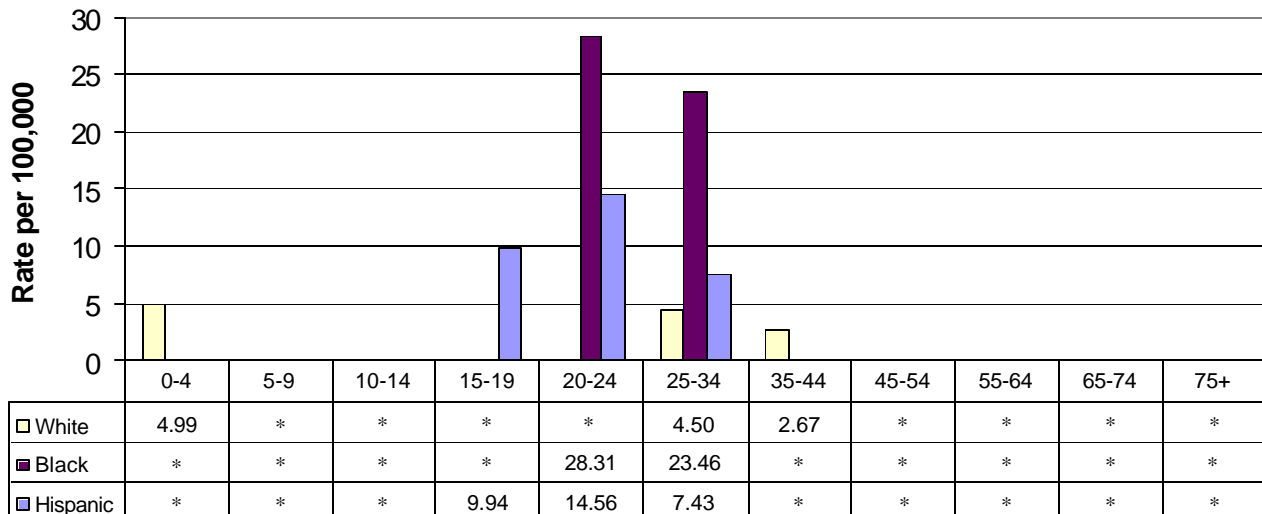
Assault Rates by Age and Race/Ethnicity



Note: Rates not calculated on fewer than five incidents

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01; Population estimates calculated from SANDAG estimates and forecasts. (Does not reflect 2000 Census.)

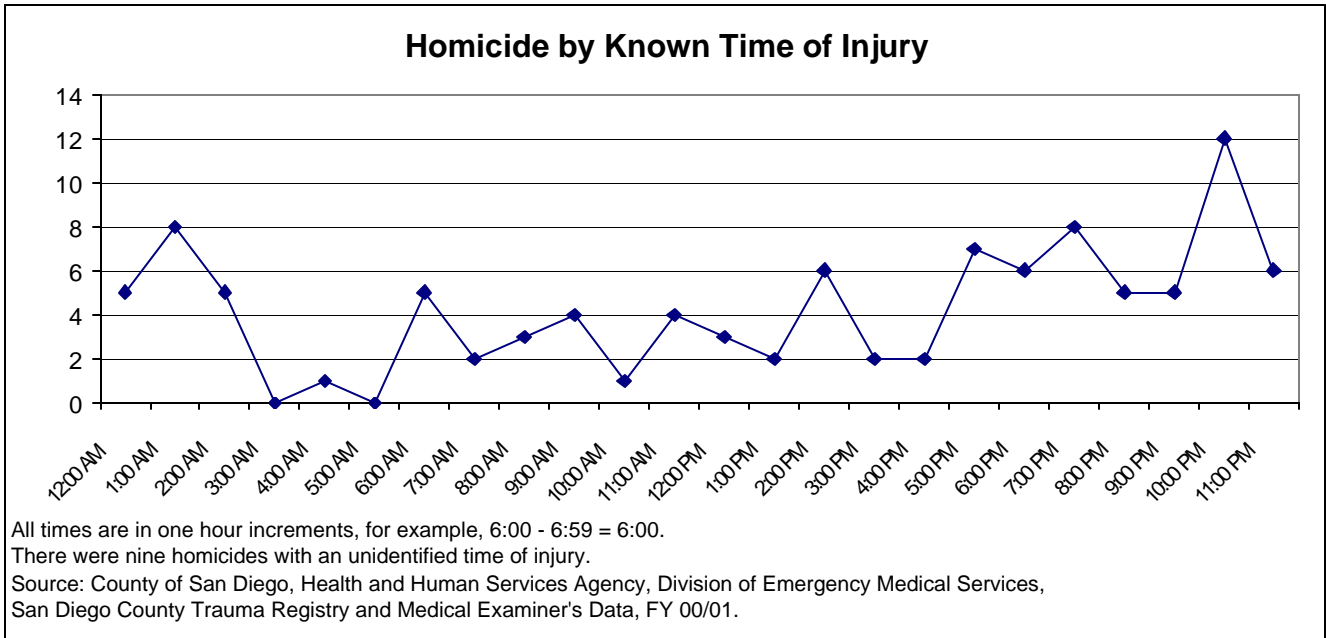
Homicide Rates by Age and Race/Ethnicity



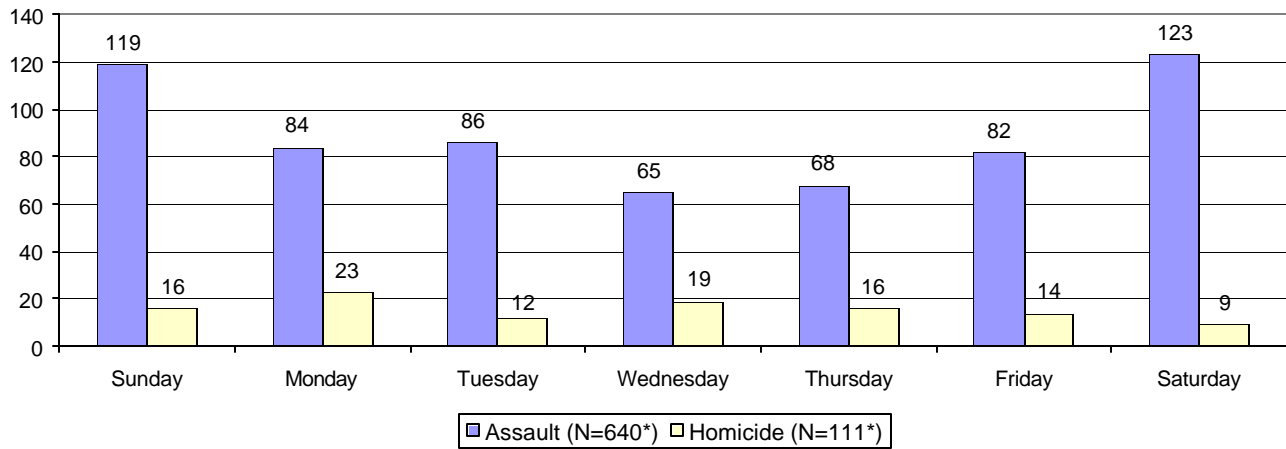
Note: Rates not calculated on fewer than five incidents. Rates could not be calculated for for any age group of Asian/Other.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01. Population estimates calculated from SANDAG estimates and forecasts. (Does not reflect 2000 Census.)

During FY 00/01, homicides were more common in the evening and early morning hours. Twenty-seven percent of homicides occurred between the hours of 8:00 p.m. and midnight. Assaults were most common on weekends, but homicides peaked on Mondays and Wednesdays. Thirty-nine percent of assaults occurred on weekends and 39% of homicides occurred on Mondays and Wednesdays. Assaults were more common in the summer months (30% for July, August and September), but homicides peaked during October through December (33%).



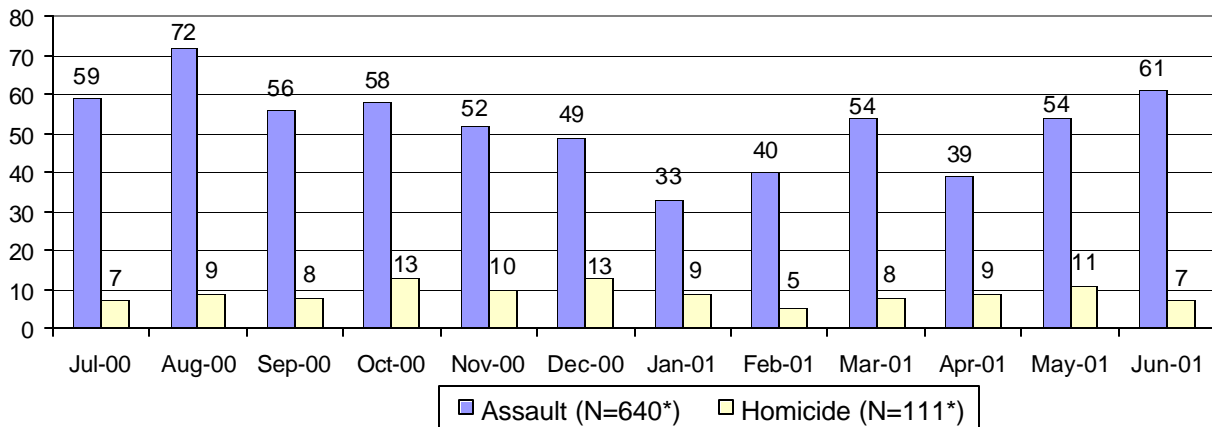
Incidence of Assault and Homicide by Day of Week



*Total includes thirteen assaults and two homicides with unknown incident dates.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01.

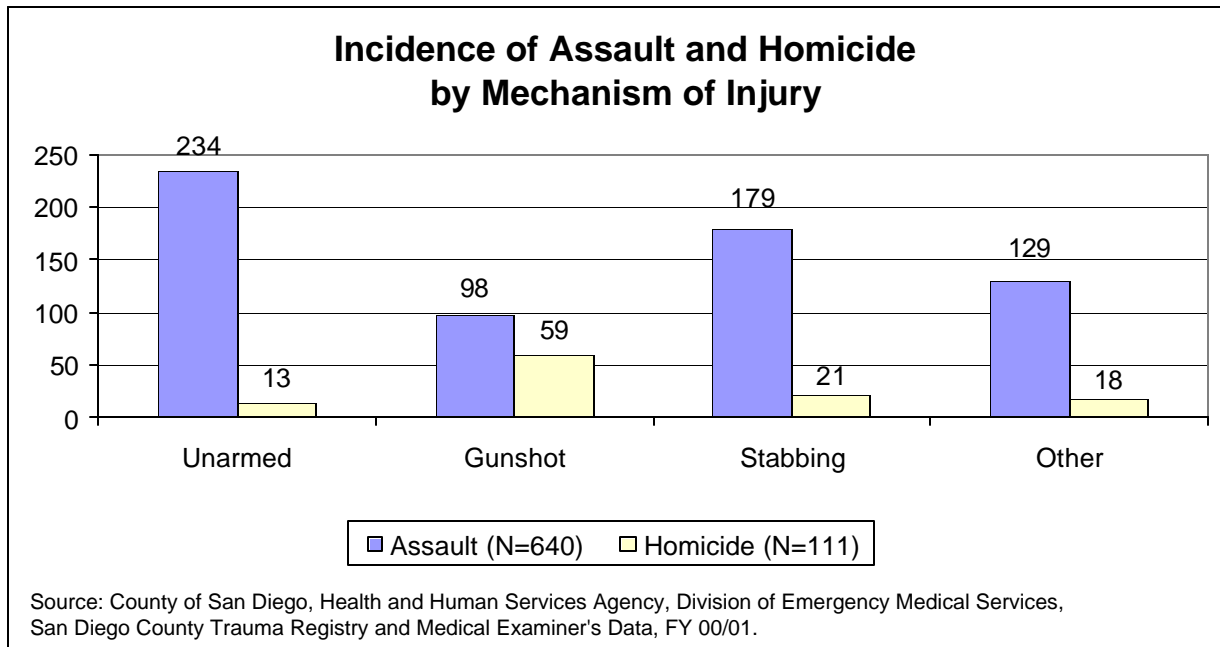
Incidence of Assault and Homicide by Month



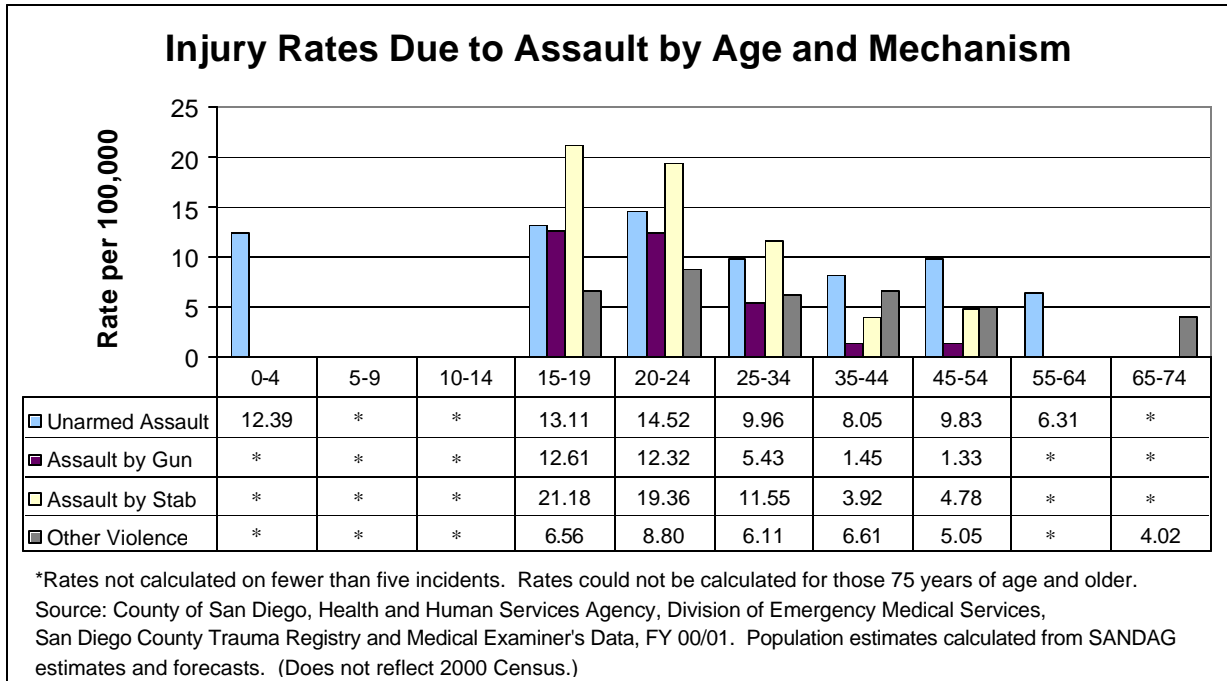
*Total includes thirteen assaults and two homicides with unknown incident dates.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01.

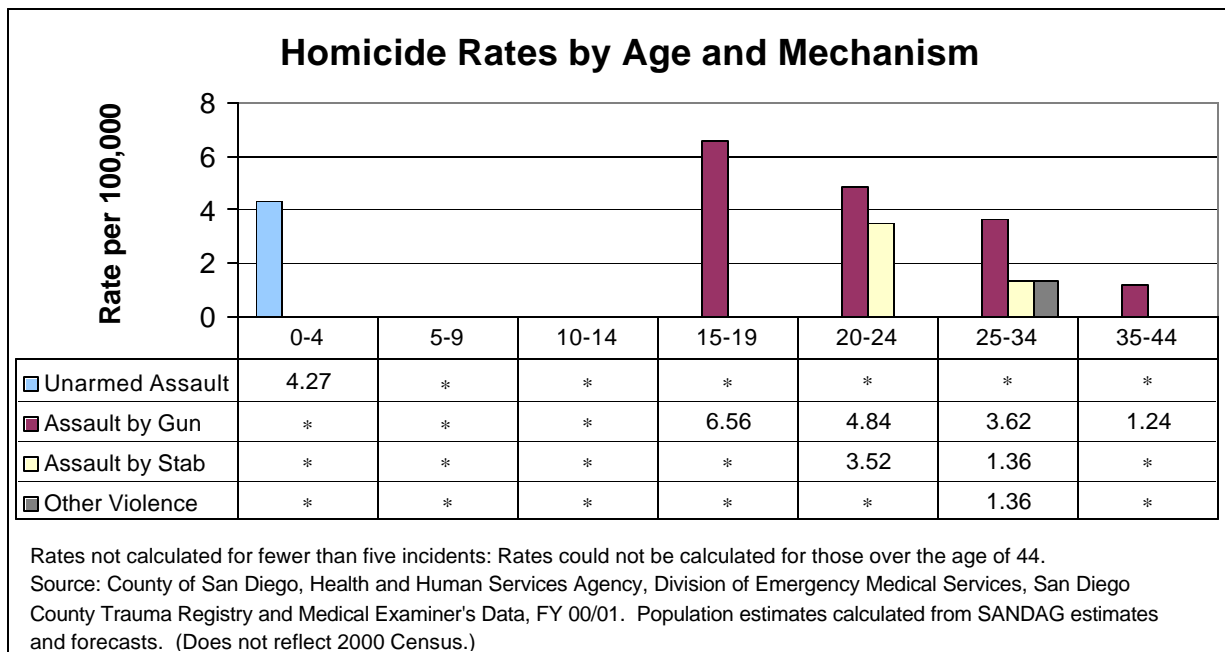
The following figure shows a breakdown of mechanism of injury for homicides and assaults. Unarmed assaults were the leading cause of interpersonal violent injury, followed by stabbing and other assaults. The leading cause of traumatic interpersonal death was gunshot wounds, followed by stabbing and other assaults. Unarmed assaults include any assault not involving a gunshot or stab wound, and can include being pushed from a vehicle, an unarmed brawl or fight, or child abuse.



Unarmed assault was the primary cause of assault injury for children younger than 5 years and for adults aged 35 to 64. Stabbings were more common among trauma patients between 15 and 34 years of age.

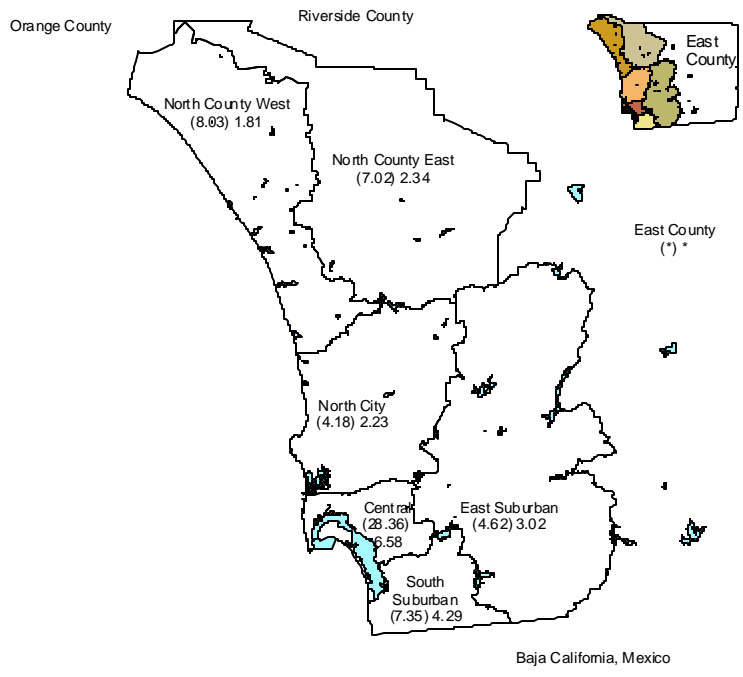


The use of firearms was highly associated with trauma patient fatalities. Firearms were the mechanism in 53% of all traumatic homicides. The highest rate of homicide due to a gunshot wound was among 15-19 year olds (6.56 per 100,000). Firearms were the primary mechanism of injury in homicides for every age group between 15 and 44.



Incidence and rates of injury by subregional areas (SRAs) and Major Statistical Areas (MSAs) were calculated from the zip code where the incident took place. The incident zip code was available for 50% of non-fatal assaults and for 93% of homicides. Homicide and assault rates were more than three times higher in the Central MSA than in other areas of the county. When incident zip code was known, the Central MSA accounted for 57% of assaults and 41% of homicides. Population estimates for each of the MSAs can be found in Appendix B.

Assault and Homicide Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect nonfatal assaults while those not in parentheses indicate homicide.

*Rates not calculated on fewer than five incidents.

Please note there were 323 assaults and 8 homicides with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 00/01; Population estimates, San Diego Association of Governments (SANDAG)

Incidence of Homicide and Assault by Mechanism and San Diego County MSA and SRA

MSA	SRA	Unarmed Assault		Gunshot		Stabbing		Other Assault		Overall Total
		Assault	Homicide	Assault	Homicide	Assault	Homicide	Assault	Homicide	
CENTRAL	Central San Diego	28	0	9	6	17	1	14	4	79
	Peninsula	1	0	0	0	2	0	0	0	3
	Coronado	0	0	0	0	0	0	1	0	1
	National City	1	0	0	2	6	0	2	0	11
	Southeast San Diego	9	0	15	13	11	2	5	2	57
	Mid-City	21	2	9	6	19	4	11	0	72
	Total		60	2	33	27	55	7	33	6
NORTH CITY	Kearny Mesa	5	0	2	2	0	2	1	1	13
	Coastal	5	1	2	2	3	1	0	0	14
	University	0	0	0	0	0	0	1	0	1
	Del Mar-Mira Mesa	1	0	2	0	0	0	0	0	3
	North San Diego	3	1	0	1	0	0	1	0	6
	Poway	1	0	0	1	0	0	0	1	3
	Miramar	1	0	0	0	0	0	0	0	1
	Elliott-Navajo	0	0	0	3	1	0	1	0	5
	Total		16	2	6	9	4	3	4	2
SOUTH SUBURBAN	Sweetwater	0	0	0	1	0	0	1	0	2
	Chula Vista	6	1	0	5	3	2	0	1	18
	South Bay	4	0	1	0	5	1	4	3	18
	Total		10	1	1	6	8	3	5	4
EAST SUBURBAN	Jamul	0	0	0	0	0	0	0	0	0
	Spring Valley	2	0	1	1	3	0	0	0	7
	Lemon Grove	0	0	1	1	0	0	2	0	4
	La Mesa	0	1	0	1	0	0	0	0	2
	El Cajon	1	1	0	0	1	2	0	1	6
	Santee	0	1	7	2	0	0	0	0	10
	Lakeside	1	0	0	0	1	0	0	0	2
	Harbison Crest	1	1	0	2	0	1	0	0	5
	Alpine	2	0	0	0	0	0	0	0	2
	Ramona	0	0	0	0	0	0	0	0	0
	Total		7	4	9	7	5	3	2	1
NORTH COUNTY WEST	San Dieguito	3	0	1	0	2	0	1	0	7
	Carlsbad	1	0	1	1	1	1	1	0	6
	Oceanside	8	0	3	2	5	2	3	1	24
	Pendleton	0	0	0	0	1	0	0	0	1
	Total		12	0	5	3	9	3	5	1
NORTH COUNTY EAST	Escondido	4	0	0	2	4	0	3	0	13
	San Marcos	2	0	0	0	1	0	0	0	3
	Vista	2	0	5	4	3	1	1	2	18
	Valley Center	0	0	0	0	1	0	0	0	1
	Pauma	0	0	0	0	0	0	1	0	1
	Fallbrook	0	0	0	0	0	0	0	0	0
	Total		8	0	5	6	9	1	5	2
EAST COUNTY	Palomar-Julian	0	0	0	0	0	0	0	0	0
	Laguna-Pine Valley	1	0	0	0	0	0	0	0	1
	Mountain Empire	0	0	0	0	0	0	0	0	0
	Anza Borrego Springs	0	0	0	0	0	0	0	0	0
	Total		1	0	0	0	0	0	0	0
OTHER/ UNKNOWN	Out of County	0	0	0	0	0	0	0	0	0
	Unknown	120	4	39	1	89	1	75	2	331
	Total	120	4	39	1	89	1	75	2	331
TOTAL		234	13	98	59	179	21	129	18	751

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 00/01.

Incidence of Homicide and Assault by Mechanism and County Major Statistical Area

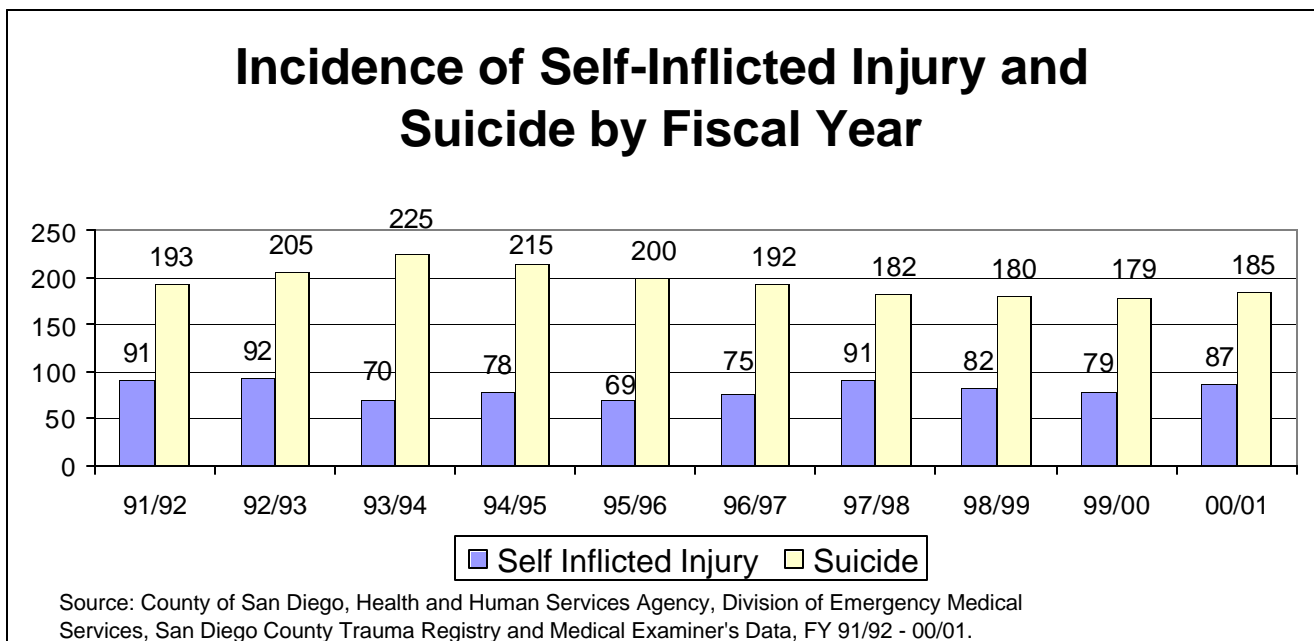
MSA	Unarmed Assault		Gunshot		Stabbing		Other Assault		Overall		Overall Total
	Assault	Homicide	Assault	Homicide	Assault	Homicide	Assault	Homicide	Assault	Homicide	
Center	60	2	33	27	55	7	33	6	181	42	223
North City	16	2	6	9	4	3	4	2	30	16	46
S Suburban	10	1	1	6	8	3	5	4	24	14	38
E Suburban	7	4	9	7	5	3	2	1	23	15	38
North Cnty West	12	0	5	3	9	3	5	1	31	7	38
North Cnty East	8	0	5	6	9	1	5	2	27	9	36
East Cnty	1	0	0	0	0	0	0	0	1	0	1
Oth/Unk	120	4	39	1	89	1	75	2	323	8	331
Overall Total	234	13	98	59	179	21	129	18	640	111	751

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 00/01.

Suicide and Self-Inflicted Injury

Suicide¹ was the leading cause of traumatic death and contributed the second highest number of years of potential life lost. During fiscal year 2000/01, for every trauma patient who sustained a non-fatal self-inflicted injury, two died as a result of their injuries.

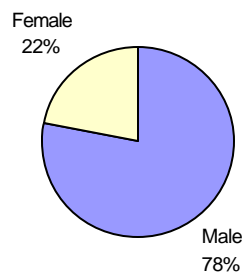
The figure below shows the number of suicides and self-inflicted injuries by fiscal year. The number of traumatic suicides peaked in FY 93/94 (225). The number of suicides and self-inflicted injuries in FY 00/01 did not change significantly from the previous fiscal year.



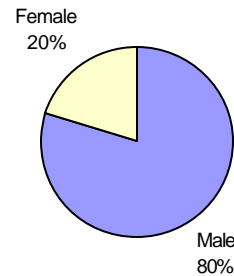
¹ For the purpose of this report, suicide and self inflicted injury exclude deaths and severe injuries due to poisoning, drowning, or suffocation as they are considered medical rather than traumatic in nature.

Incidence of Self-Inflicted Injury and Suicide by Gender

Self Inflicted Injury (N=87)



Suicide (N=185)



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY00/01; Population Estimates, SANDAG

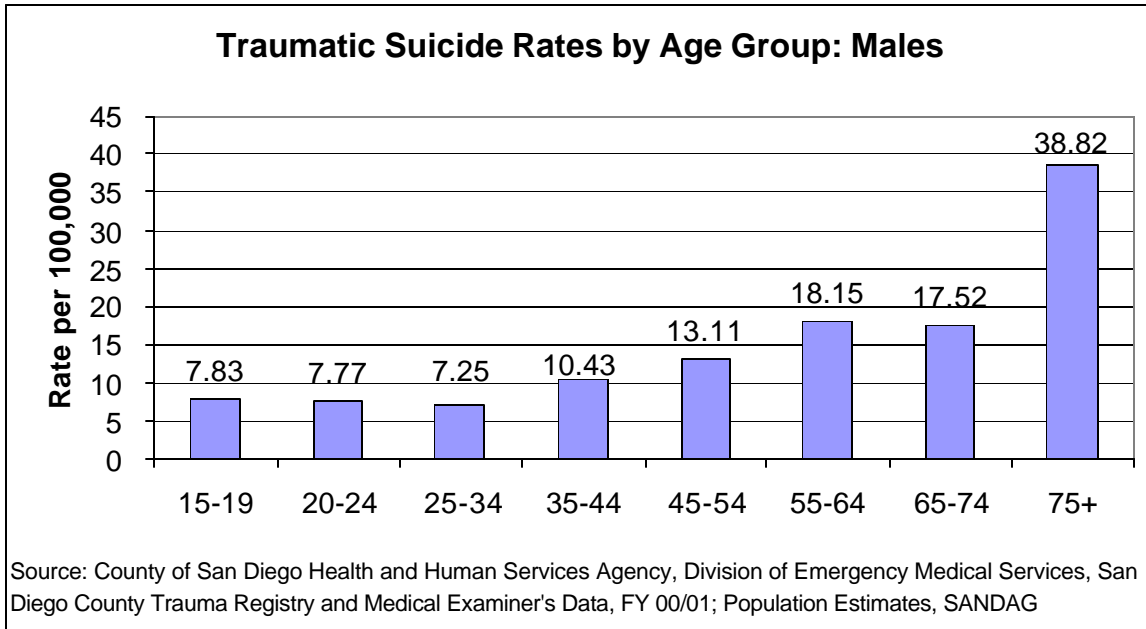
Males made up 78% of traumatic self-inflicted injuries and 80% of suicides. Males had a higher rate of suicide and self-inflicted injury than females in every age group. Males 75 years of age were more than four times more likely to commit suicide than the overall population.

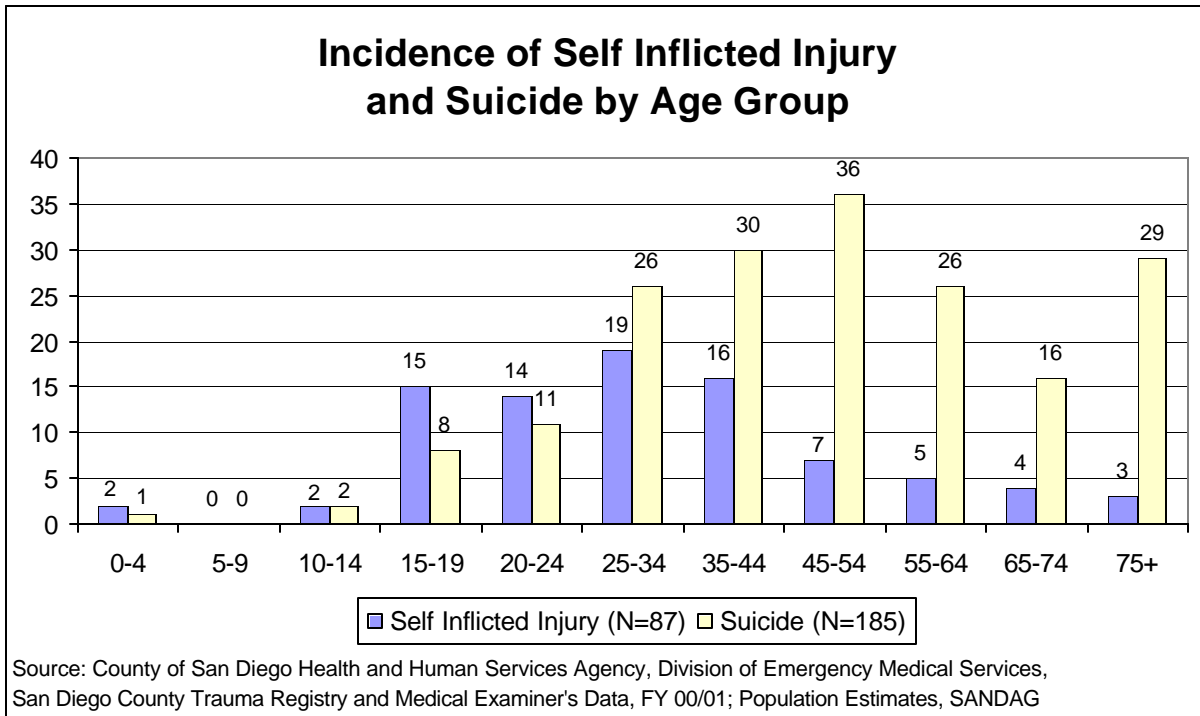
Incidence and Rate of Self-Inflicted Injury and Suicide by Age Group and Gender

	Self-Inflicted Injury						Suicide						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate
0-4	2	*	0	*	2	*	1	*	0	*	1	*	3	*
5-9	0	*	0	*	0	*	0	*	0	*	0	*	0	*
10-14	1	*	1	*	2	*	1	*	1	*	2	*	4	*
15-19	13	12.72	2	*	15	7.56	8	7.83	0	*	8	4.03	23	11.60
20-24	10	7.77	4	*	14	6.16	10	7.77	1	*	11	4.84	25	11.00
25-34	15	6.40	4	*	19	4.30	17	7.25	9	4.34	26	5.89	45	10.19
35-44	11	4.41	5	2.13	16	3.30	26	10.43	4	*	30	6.19	46	9.50
45-54	7	3.67	0	*	7	1.86	25	13.11	11	5.92	36	9.56	43	11.42
55-64	4	*	1	*	5	2.10	21	18.15	5	4.10	26	10.94	31	13.04
65-74	2	*	2	*	4	*	14	17.52	2	*	16	9.18	20	11.47
75+	3	*	0	*	3	*	25	38.82	4	*	29	17.74	32	19.58
Total	68	4.51	19	1.30	87	2.93	148	9.81	37	2.52	185	6.22	272	9.15

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 00/01; Population Estimates, SANDAG

*Rates not calculated on less than five incidents.

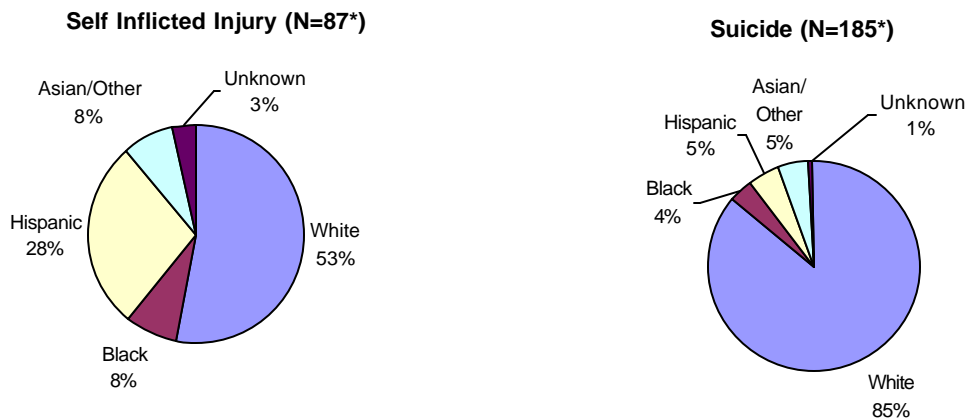




While the highest rates of suicide were found in elderly males, the highest numbers of nonfatal injury, and therefore the group with the greatest impact on the trauma system, were younger than 45 years. Seventy eight percent of nonfatal self-inflicted injuries and 42% of completed traumatic suicides were in this age range.

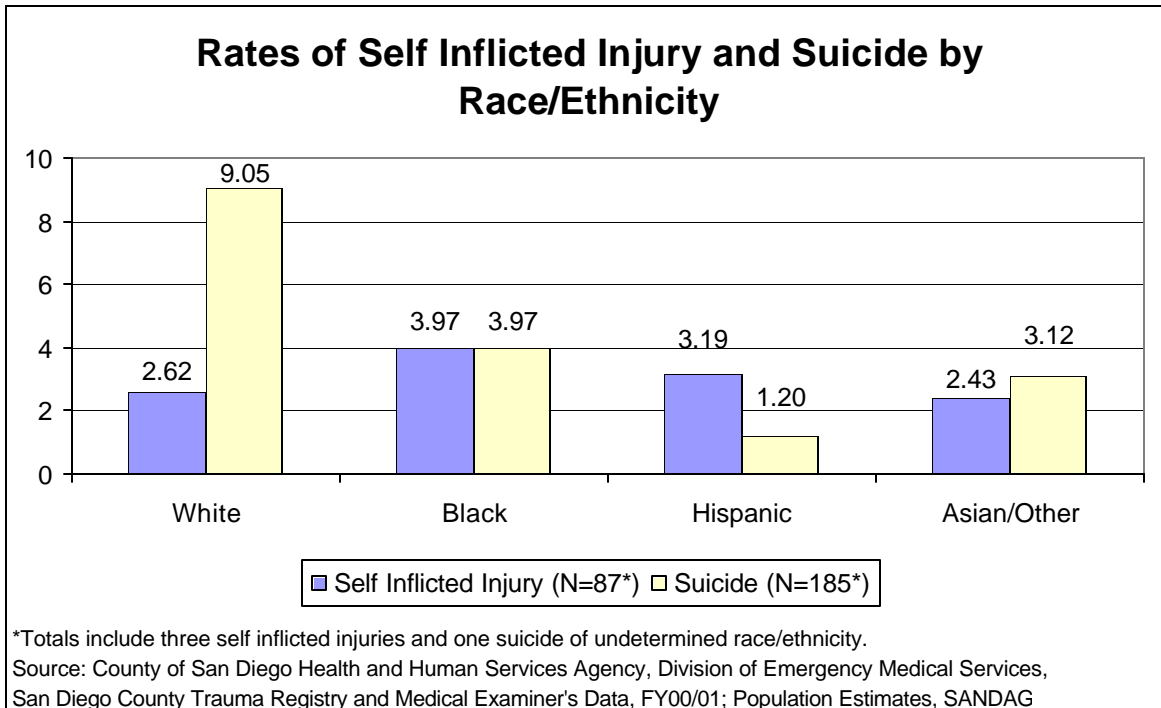
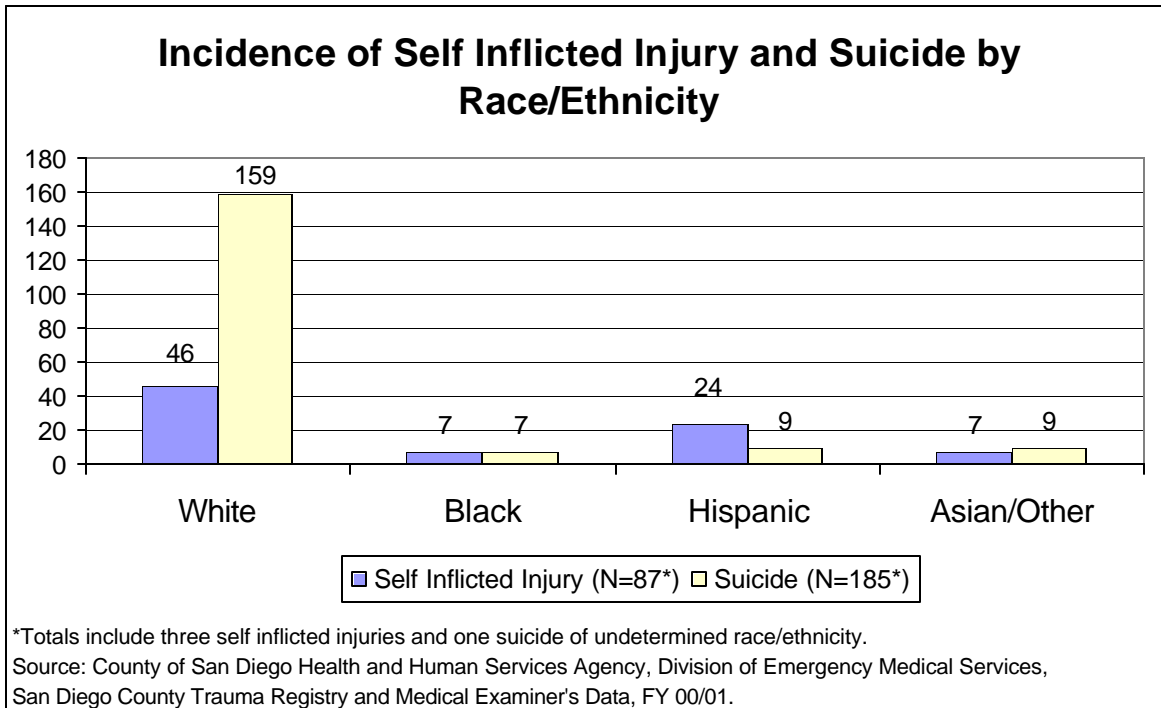
Self-inflicted injury and suicide were more prevalent in the White population, accounting for 53% of self-inflicted injuries and 85% of suicides. The highest rate of self-inflicted injury as a proportion of the population was seen in the Hispanic community.

Incidence of Self Inflicted Injury and Suicide by Race/Ethnicity



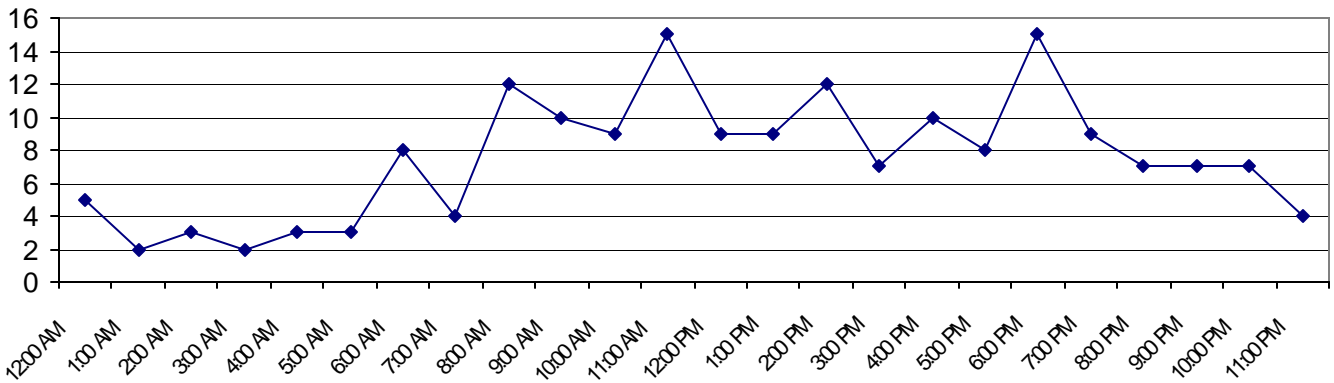
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 00/01

*Totals include three self inflicted injuries and one suicide of undetermined race/ethnicity.



Out of 180 suicides with a recorded time of injury, 64 (36%) occurred between 9 a.m. and 3 p.m. Self-inflicted injuries were lowest on Wednesdays and highest on Tuesdays, while suicides ranged from 19 on Tuesdays and Saturdays, to 37 on Fridays. August had the highest number of both self-inflicted injuries (12) and suicides (23).

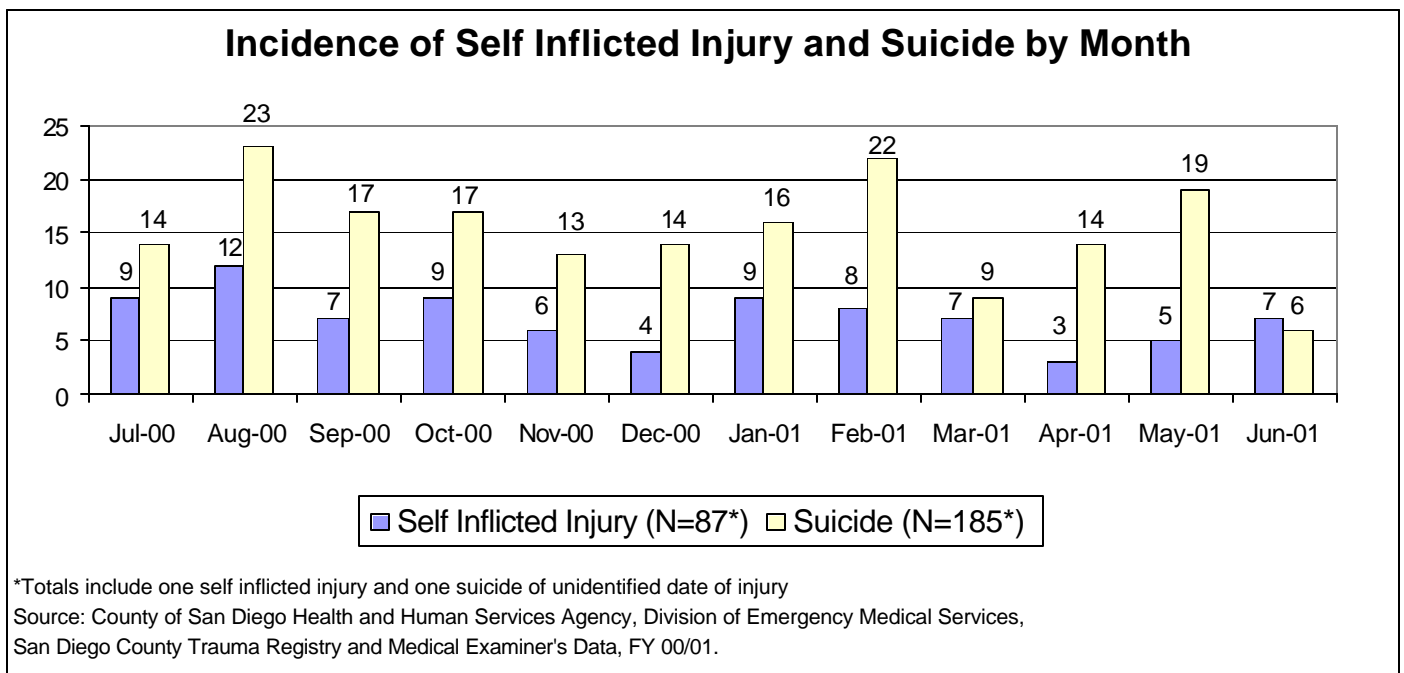
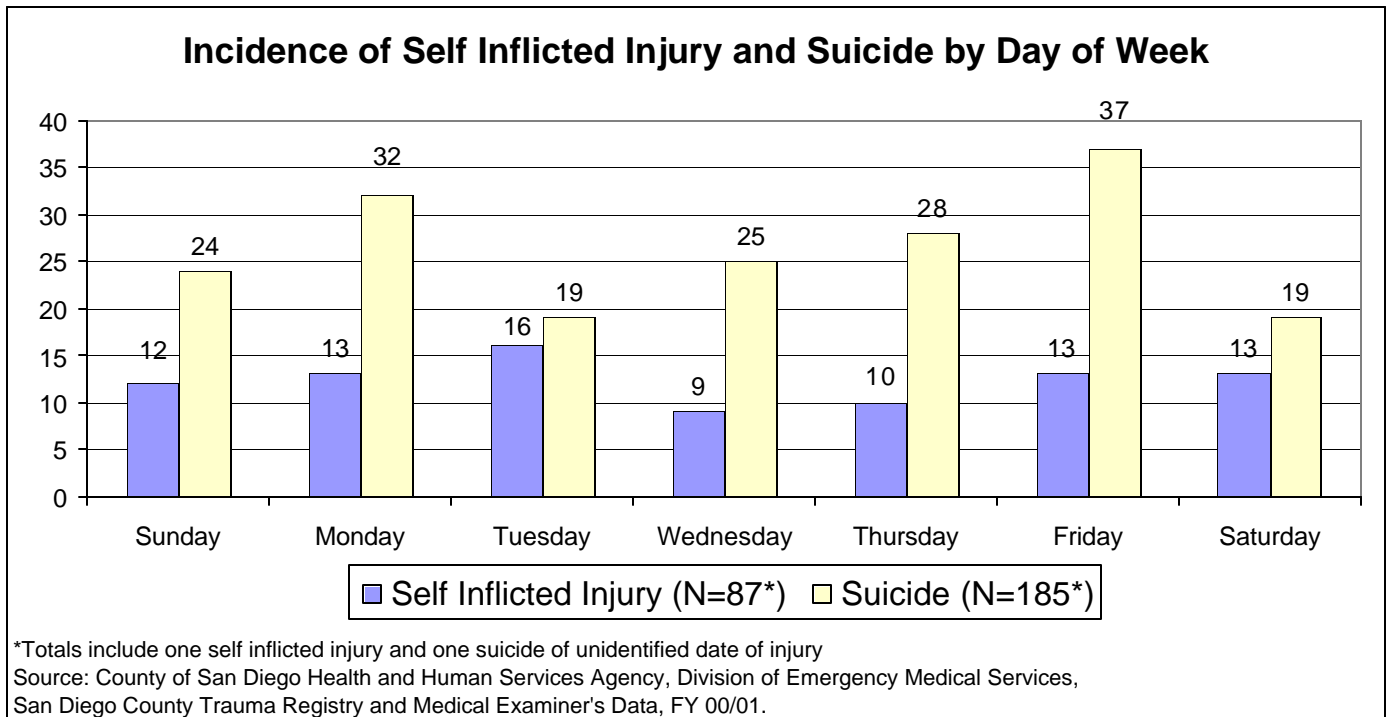
Suicide by Known Time of Injury

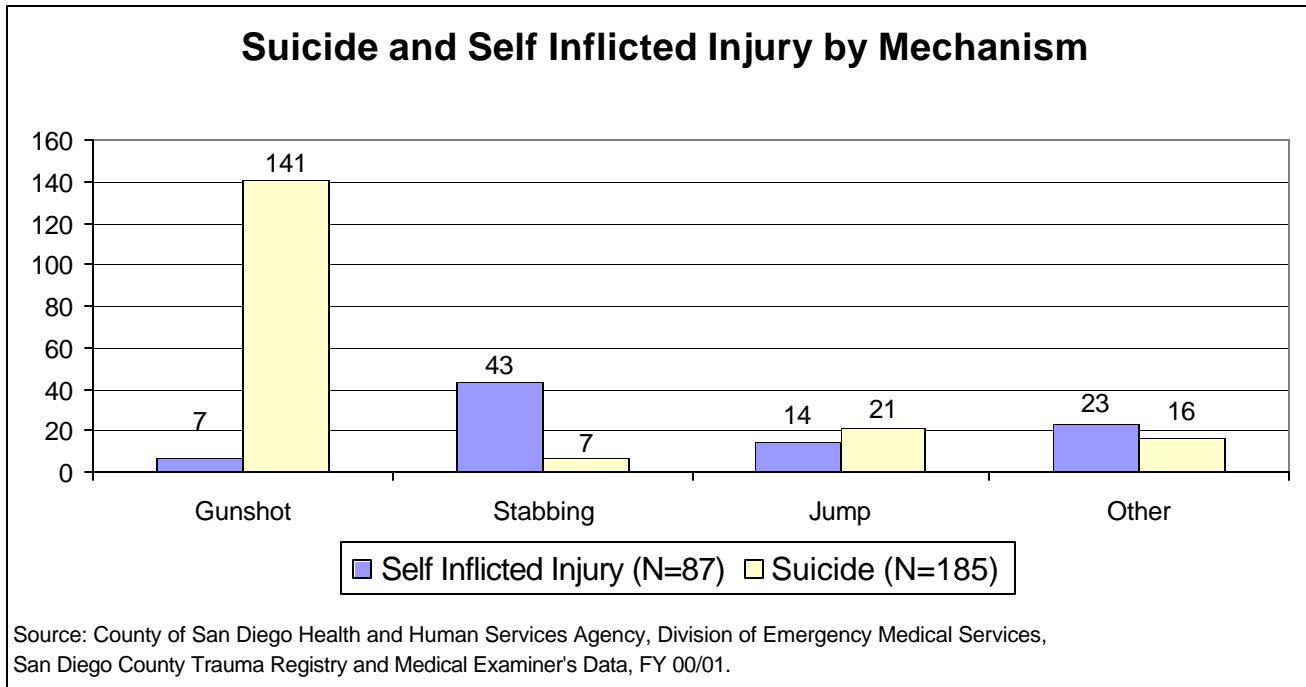


All times are in one hour increments, for example, 6:00 - 6:59 = 6:00.

There were 5 deaths with an unidentified time of injury.

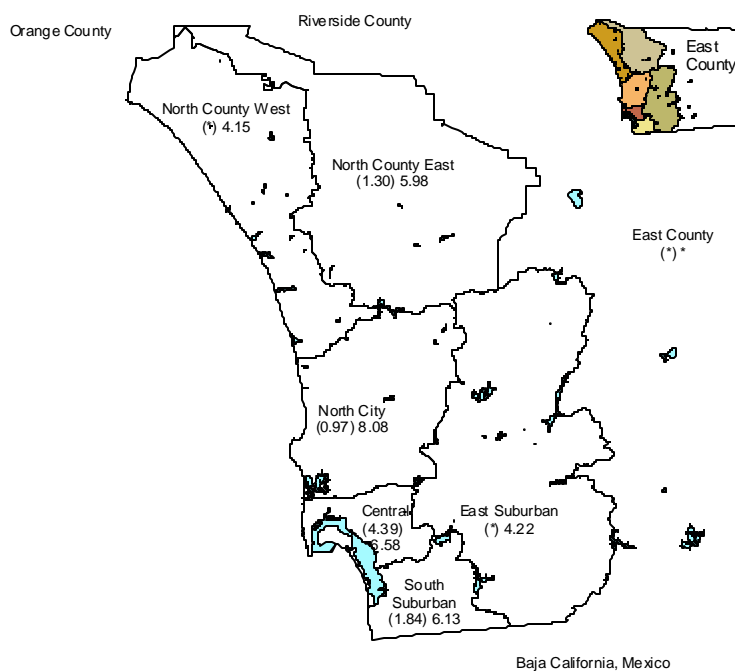
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01.





Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 60% of non-fatal self-inflicted injuries and for 99% of suicides. The highest rate of self-inflicted injury was in the Central MSA, while North City had the highest rate of completed suicides. Population estimates for each of the MSAs can be found in Appendix B.

Self-Inflicted Injury and Suicide Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect self-inflicted injury while those not in parentheses indicate suicide.

*Rates not calculated on fewer than five incidents.

Please note there were 35 self-inflicted injuries and 1 suicide with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 00/01; Population estimates, San Diego Association of Governments (SANDAG)

Incidence of Self-Inflicted Injury and Suicide by Mechanism and Major Statistical Area

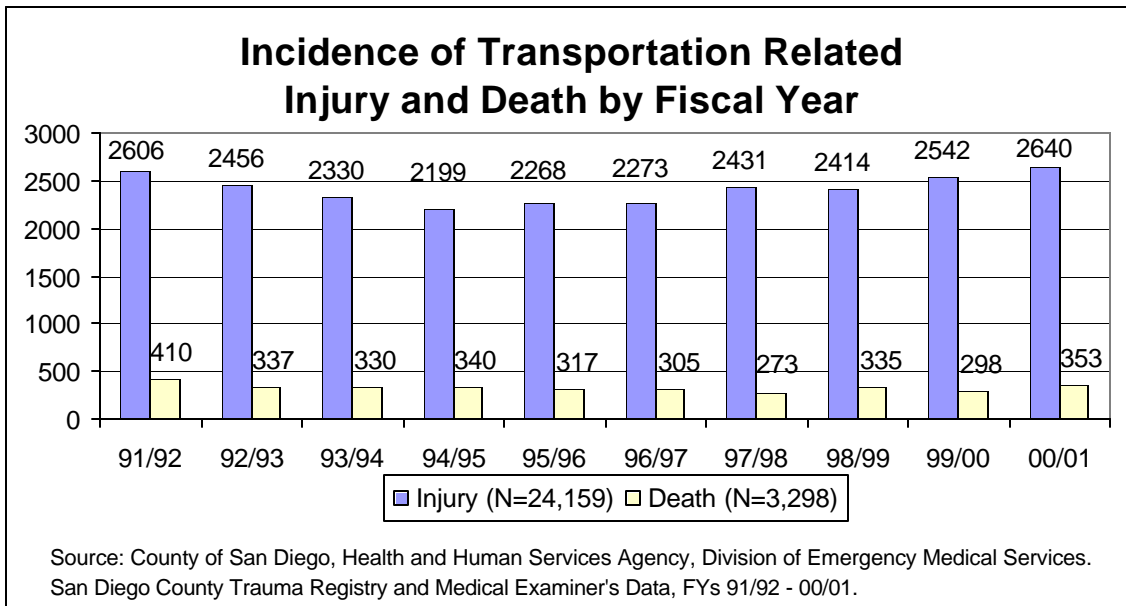
	Gunshot		Stabbing		Jump		Other		Overall Total
	Injury	Death	Injury	Death	Injury	Death	Injury	Death	
Center	0	26	18	0	7	11	3	5	70
North City	1	44	5	4	1	3	0	7	65
S Suburban	0	19	3	0	0	1	3	0	26
E Suburban	1	19	0	0	0	1	1	1	23
North Cnty West	0	10	2	2	0	2	2	2	20
North Cnty East	1	21	3	1	0	1	1	0	28
East Cnty	0	2	0	0	0	2	0	0	4
Oth/Unk	4	0	12	0	6	0	13	1	36
Overall Total	7	141	43	7	14	21	23	16	272

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 00/01.

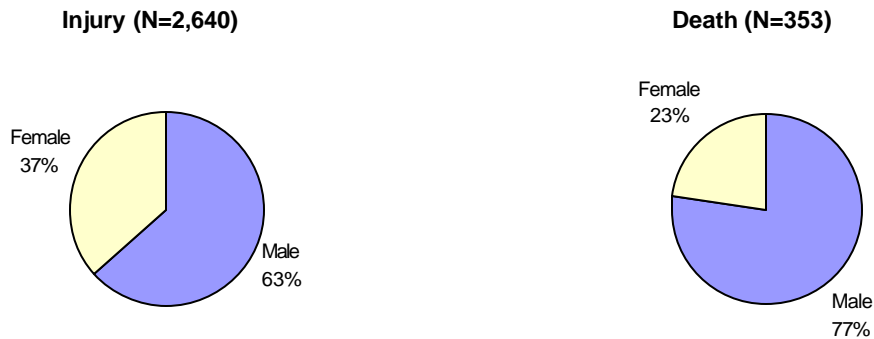
Transportation Related Injuries

Transportation related crashes are those that occur to motor vehicle occupants, motorcyclists, pedalcyclists, pedestrians struck by motor vehicles, and other vehicle occupants. There were 353 lives lost in transportation related crashes during FY 00/01. For every patient who died as a result of a transportation related crash, more than seven others were injured in such a crash.

The number of severe injuries due to transportation related crashes increased by four percent from the previous fiscal year, while the number of deaths increased 18%.



Incidence of Transportation Related Injury and Death by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 00/01.

Males made up 63% of injuries and 77% of deaths related to transportation. Rates of both injury and death were substantially higher in males across the age spectrum.

Incidence and Rate of Transportation Related Injury and Death by Age Group and Gender

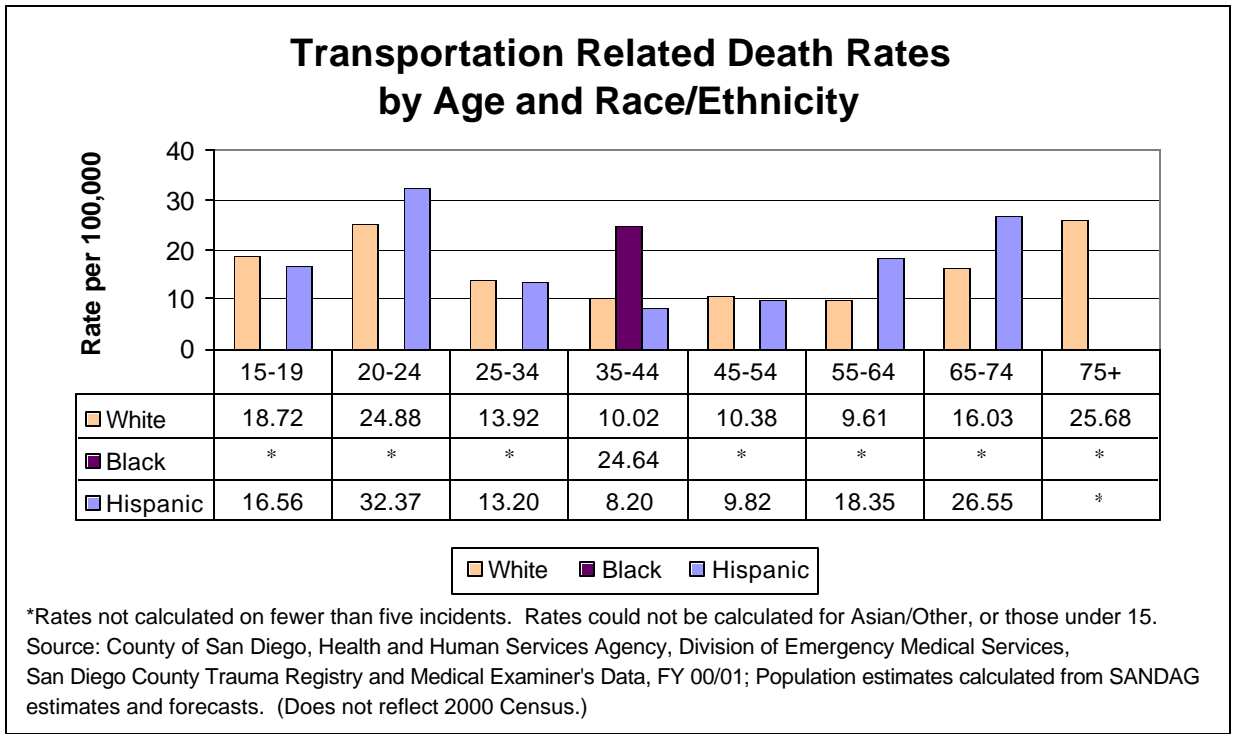
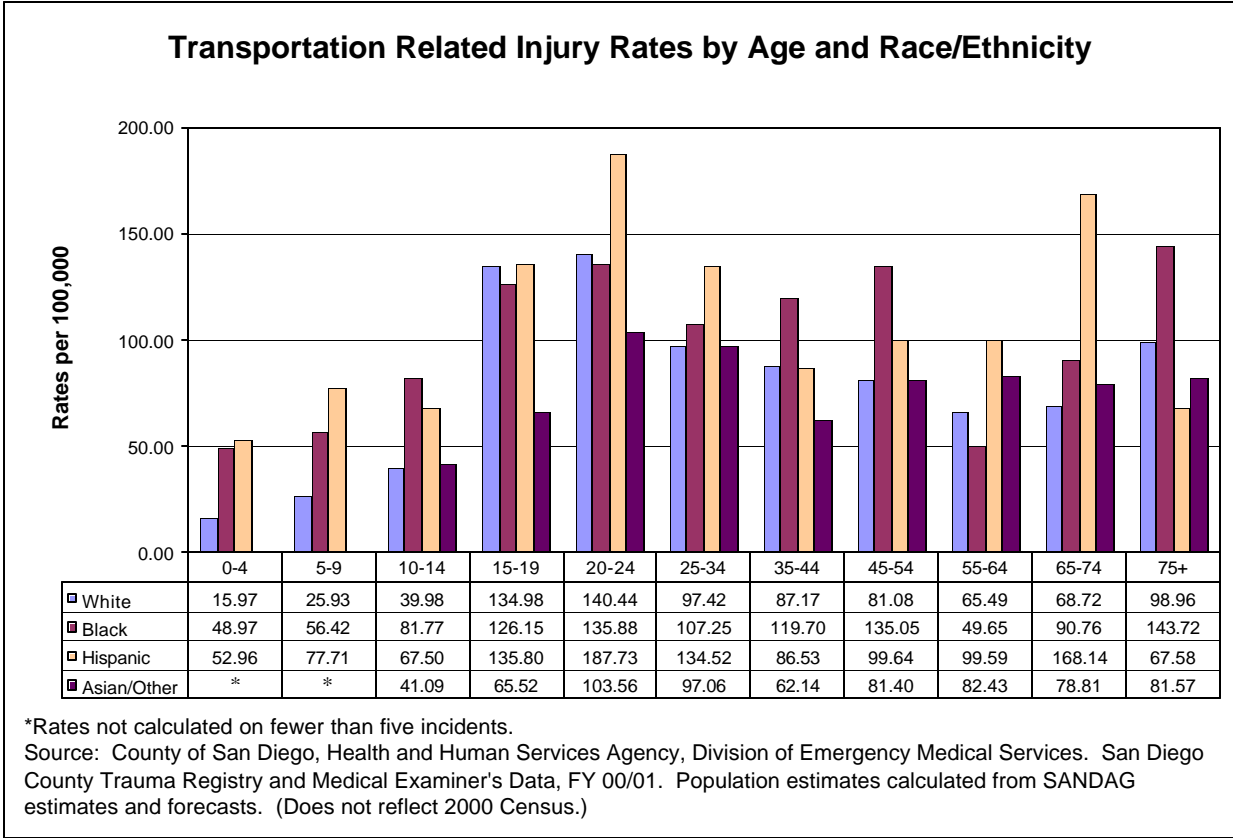
	Injury						Death						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate
0-4	55	46.40	23	19.90	78	33.32	1	*	2	*	3	*	81	34.60
5-9	66	56.99	36	33.09	103	45.86	4	*	3	*	7	3.12	110	48.98
10-14	73	67.24	40	38.78	113	53.37	3	*	1	*	4	*	117	55.26
15-19	168	164.36	92	95.74	260	131.11	24	23.48	10	10.41	34	17.14	294	148.25
20-24	242	188.12	104	105.48	346	152.26	47	36.54	10	10.14	57	25.08	403	177.35
25-34	328	139.90	157	75.76	485	109.81	52	22.18	8	3.86	60	13.58	545	123.39
35-44	272	109.12	160	68.08	432	89.21	40	16.05	11	4.68	51	10.53	483	99.74
45-54	215	112.71	124	66.75	339	90.04	27	14.15	11	5.92	38	10.09	377	100.13
55-64	101	87.28	76	62.30	177	74.46	25	21.60	1	*	26	10.94	203	85.40
65-74	74	92.61	73	77.33	147	84.34	21	26.28	8	8.47	29	16.64	176	100.97
75+	81	125.78	79	79.78	160	97.90	26	40.37	15	15.15	41	25.09	201	122.99
Unknown	0		0		0		3		0		3		3	
Total	1675	111.06	964	65.77	2,640	88.77	273	18.10	80	5.46	353	11.87	2,993	100.64

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 00/01; Population estimates calculated from SANDAG estimates and forecasts. (Does not reflect 2000 Census.)

*Rates not calculated on fewer than five incidents

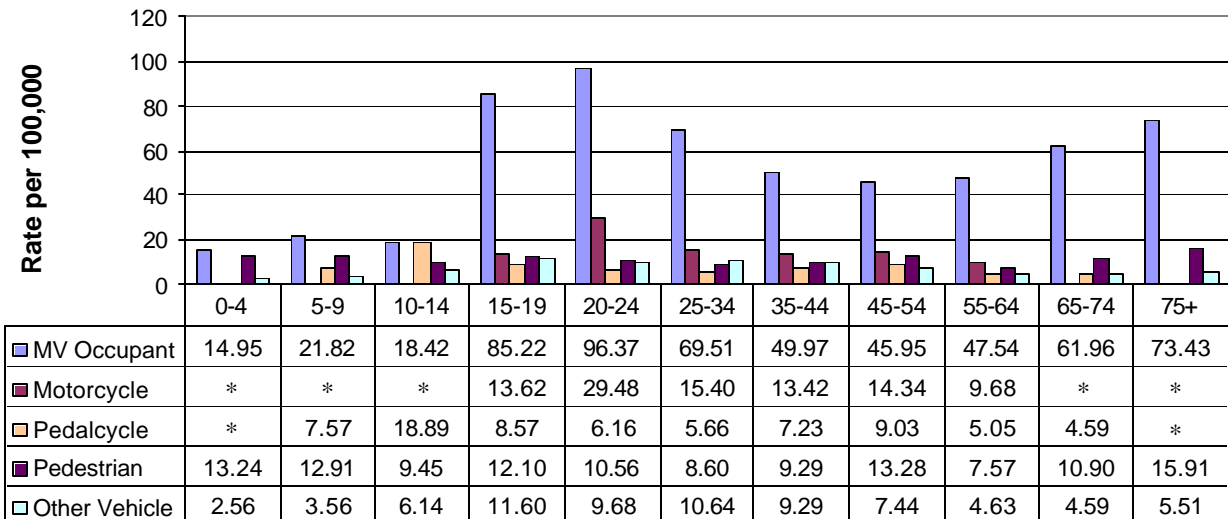
Note: Total includes one 5-9 year old of unspecified gender

The highest rates of severe injury and death were among Hispanics aged 20-24: 187.73 per 100,000 population for injuries, 24.64 per 100,000 for deaths.



Motor vehicle occupant crashes accounted for a significantly higher rate of death and severe injury than other transportation related mechanisms of injury for most age groups. The highest rates of transportation related severe injury and deaths was found in motor vehicle occupants aged 20-24 (96.37 severe injuries and 18.92 deaths per 100,000 population).

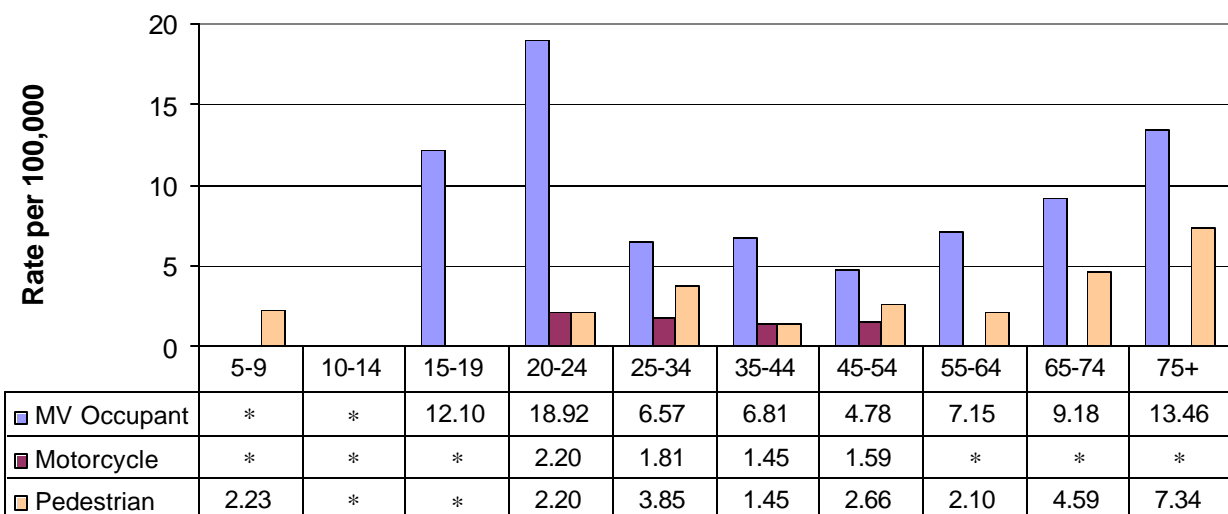
Transportation Related Injury Rates by Age and Mechanism



*Rates not calculated on fewer than five incidents.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01. Population estimates calculated from SANDAG estimates and Forecasts. (Does not reflect 2000 Census.)

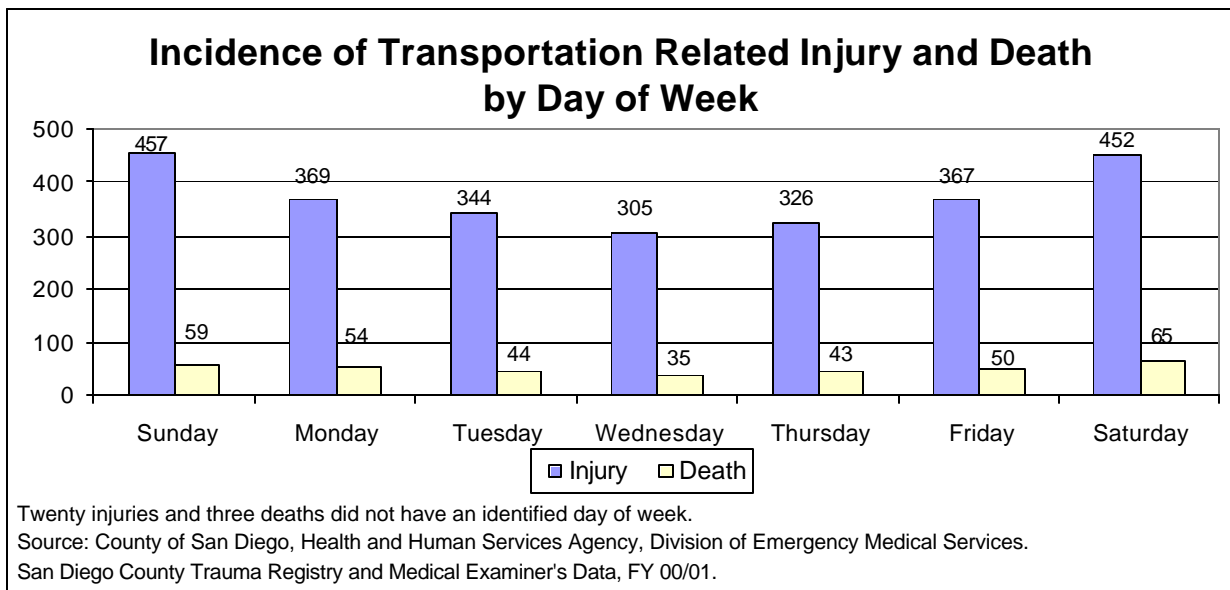
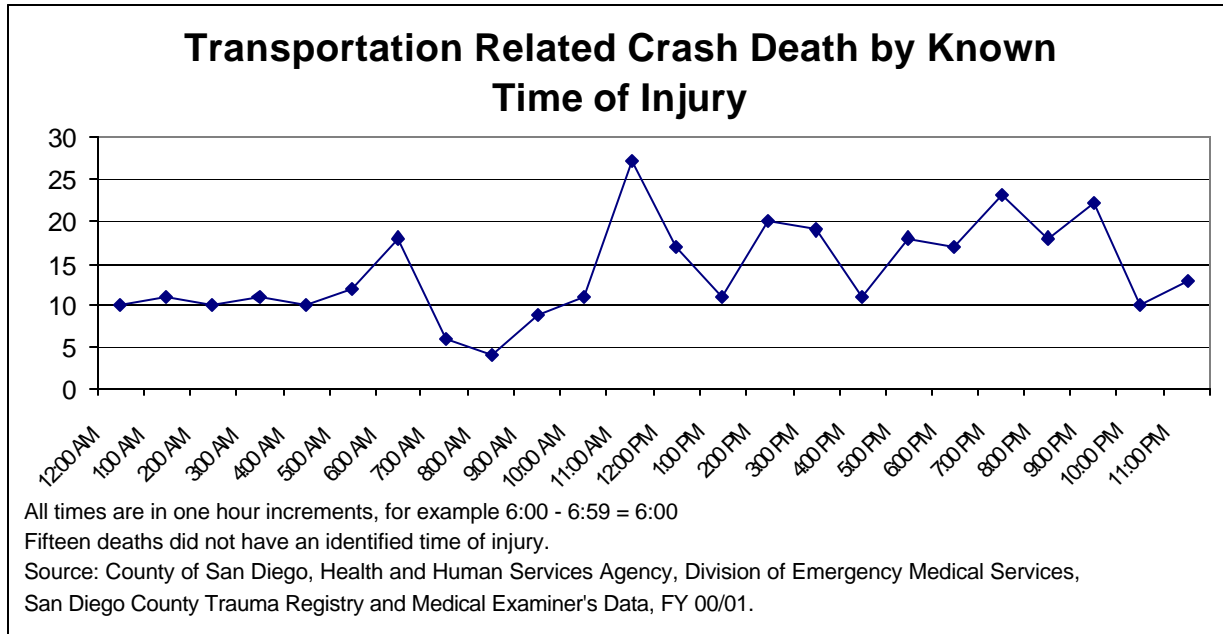
Transportation Related Death Rates by Age and Mechanism



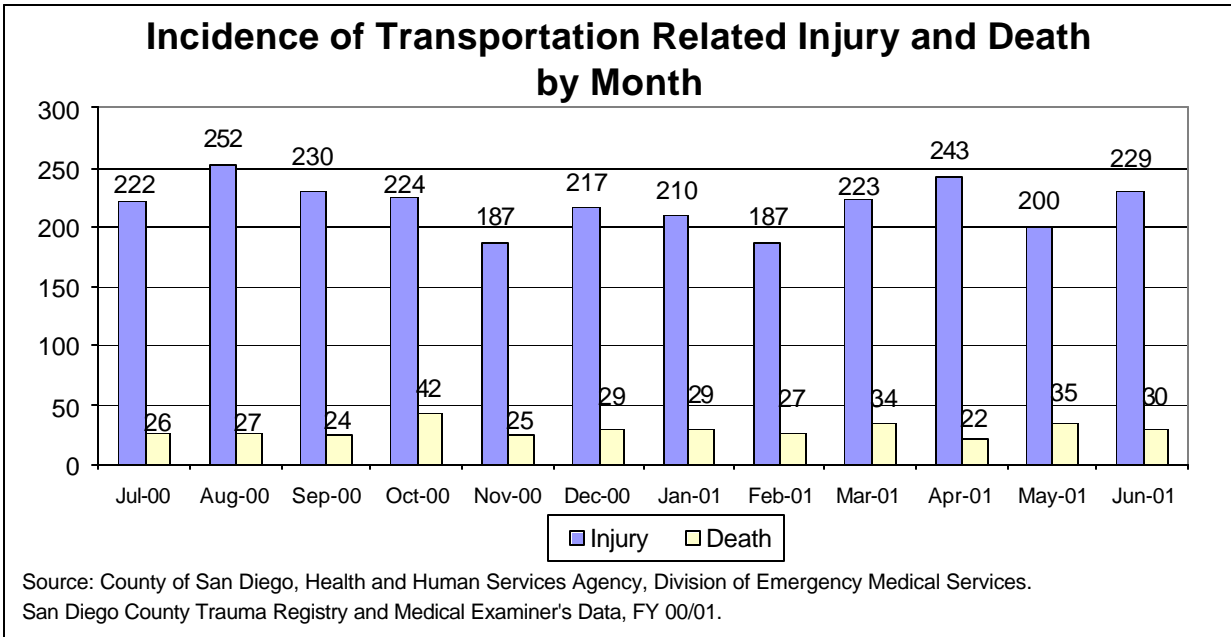
*Rates not calculated on fewer than five incidents. Incidence was less than five for all age groups for pedalcycle deaths

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01. Population estimates calculated from SANDAG estimates and forecasts. (Does not reflect 2000 Census.)

Although transportation-related deaths were most likely to occur during the evening hours, the peak hour during FY 00/01 was between 11:00 a.m. and noon. Thirty-five percent of crashes resulting in injury or death happened on Saturdays and Sundays.

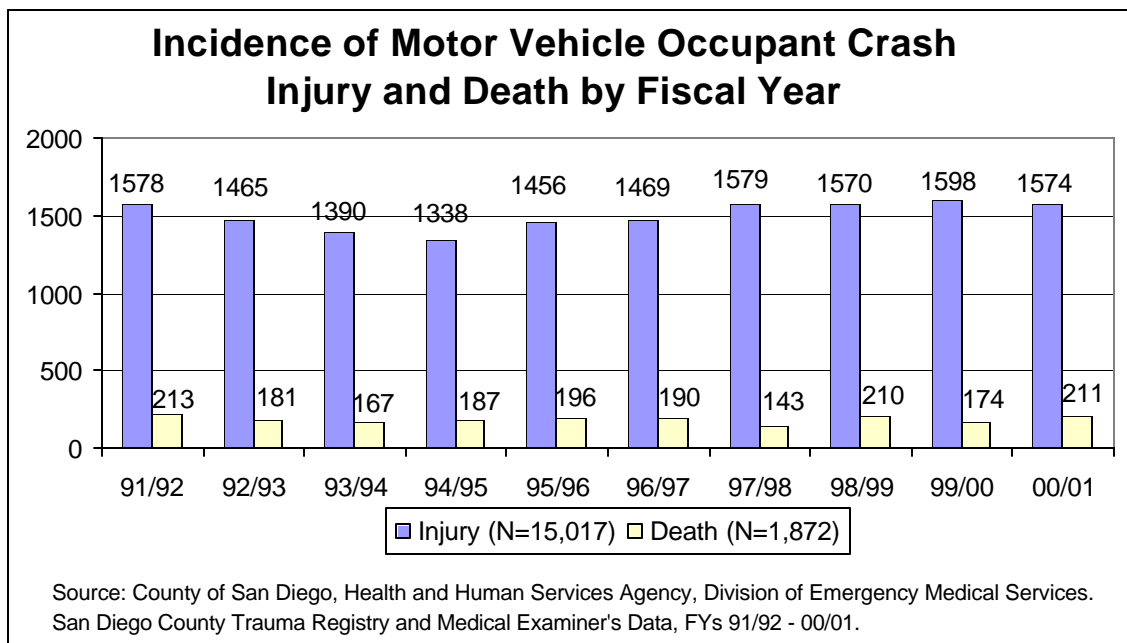


August was the peak month for transportation related injuries, while October had the highest number of deaths.



Motor Vehicle Occupant Crash Injuries

The number of motor vehicle occupant crash injuries decreased 1.5% from FY 99/00 to 00/01, while deaths increased by 21%. Neither of these changes was statistically significant.



Males accounted for 54% of injuries and 77% of deaths to motor vehicle occupants. Injury rates for both males and females were highest in the 20 to 24 year age group (102.61 and 88.24 per 100,000, respectively), and the death rate was also highest among 20-24 year olds (18.92).

Incidence of Motor Vehicle Occupant Crash Injury and Death by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01.

Incidence and Rate of Motor Vehicle Occupant Injury and Death by Age Group and Gender

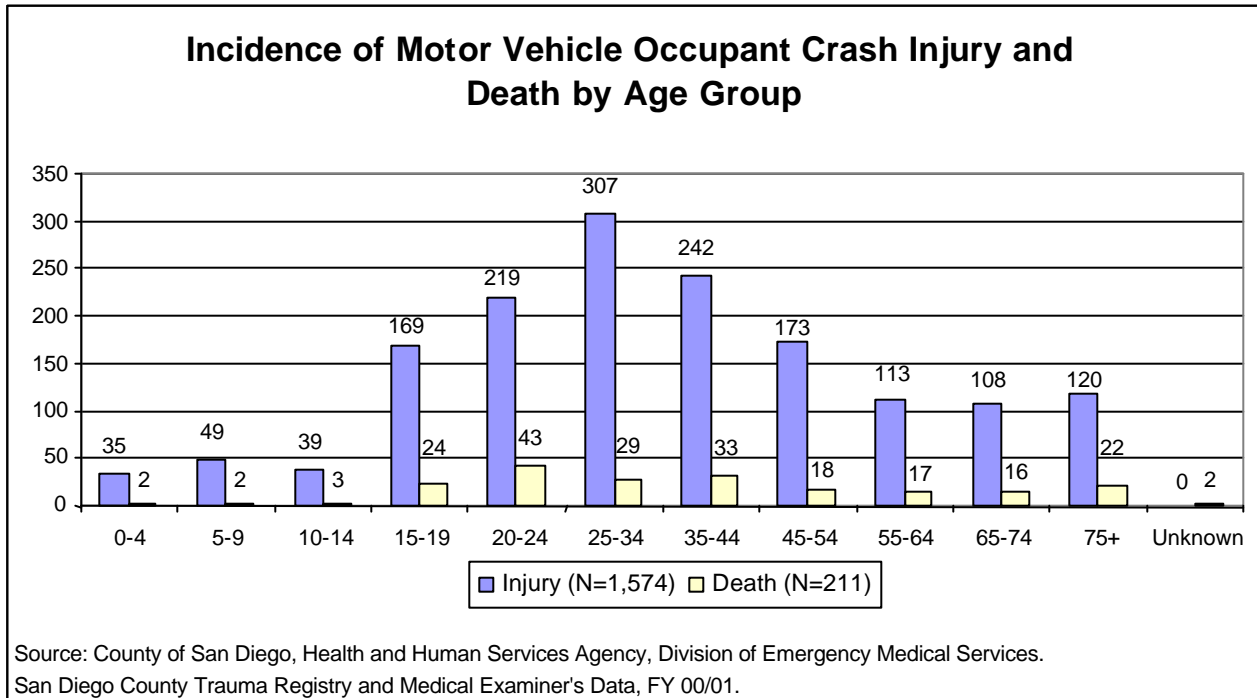
	Injury						Death						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate
0-4	24	20.25	11	9.52	35	14.95	1	*	1	*	2	*	37	15.81
5-9	30	25.90	18	16.55	49	21.82	0	*	2	*	2	*	51	22.71
10-14	13	11.97	26	25.21	39	18.42	2	*	1	*	3	*	42	19.84
15-19	93	90.98	76	79.09	169	85.22	19	18.59	5	5.20	24	12.10	193	97.32
20-24	132	102.61	87	88.24	219	96.37	33	25.65	10	10.14	43	18.92	262	115.30
25-34	184	78.48	123	59.35	307	69.51	24	10.24	5	2.41	29	6.57	336	76.07
35-44	126	50.55	116	49.36	242	49.97	27	10.83	6	2.55	33	6.81	275	56.79
45-54	87	45.61	86	46.30	173	45.95	14	7.34	4	*	18	4.78	191	50.73
55-64	52	44.94	61	50.01	113	47.54	16	13.83	1	*	17	7.15	130	54.69
65-74	48	60.07	60	63.56	108	61.96	12	15.02	4	*	16	9.18	124	71.14
75+	62	96.27	58	58.57	120	73.43	13	20.19	9	9.09	22	13.46	142	86.89
Unknown	0	*	0	*	0	*	2	*	0	*	2	*	2	*
Total	851	56.42	722	49.26	1,574	52.93	163	10.81	48	3.28	211	7.10	1,785	60.02

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 00/01; Population estimates calculated from SANDAG estimates and forecasts. (Does not reflect 2000 Census.)

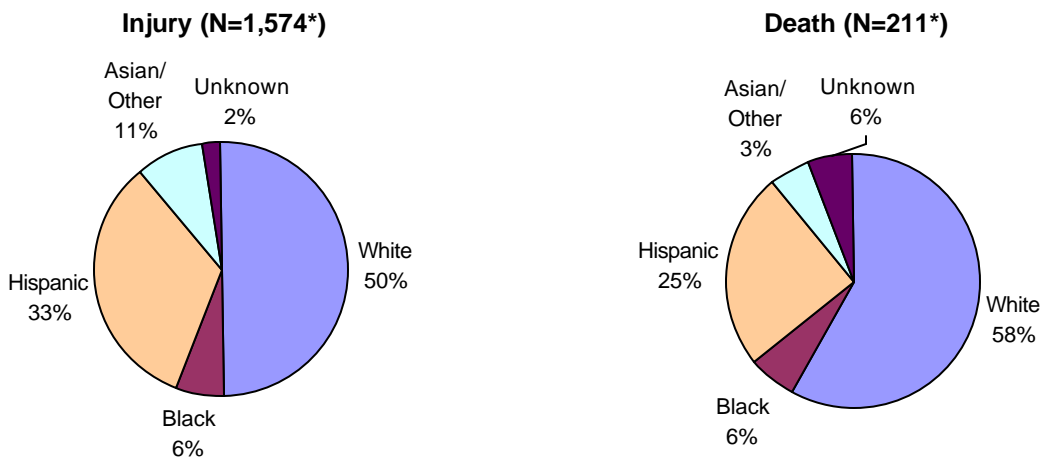
*Rates not calculated on fewer than five incidents

Note: Total includes one 5-9 year old of unspecified gender

As demonstrated by the chart below, more than half of injuries and deaths due to motor vehicle occupant (MVO) crashes are to younger adults (ages 15-44). In fact, MVO crashes were responsible for more years of potential life lost than any other cause of traumatic injury. During FY 00/01, 60% of injuries and deaths due to MVO crashes occurred to individuals aged 15 to 44.



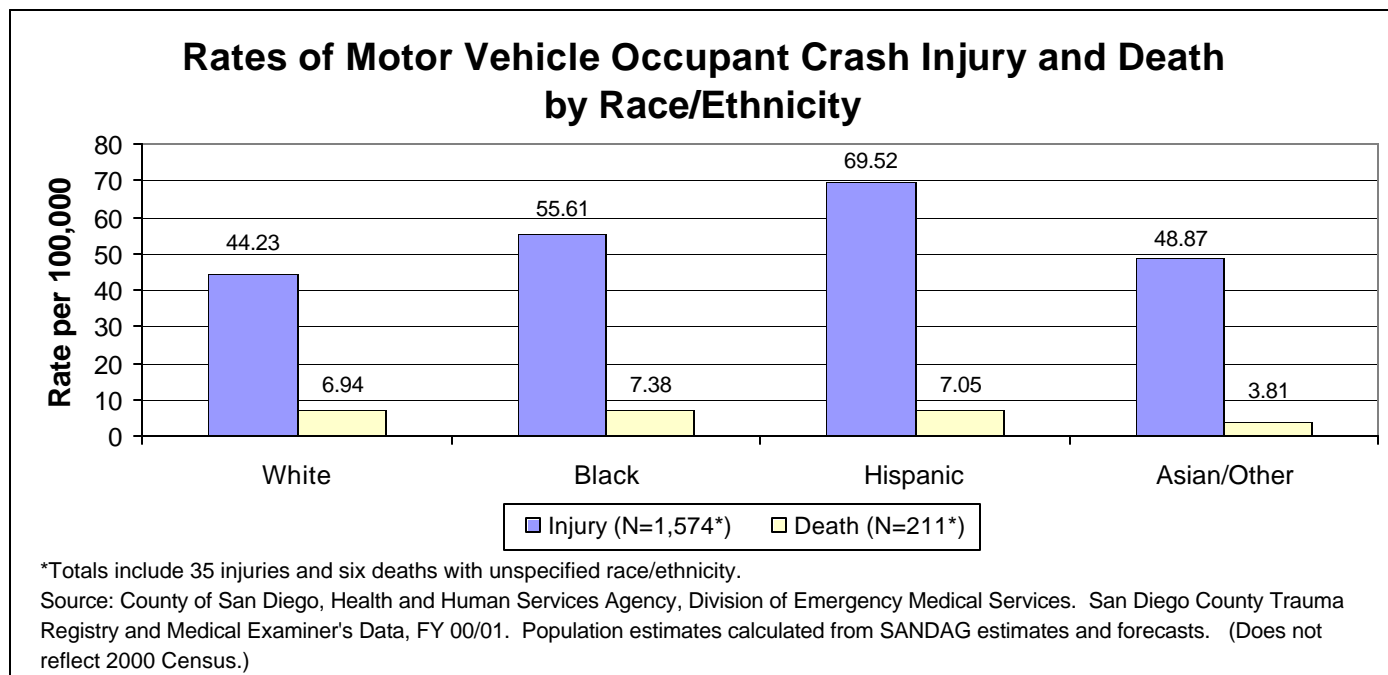
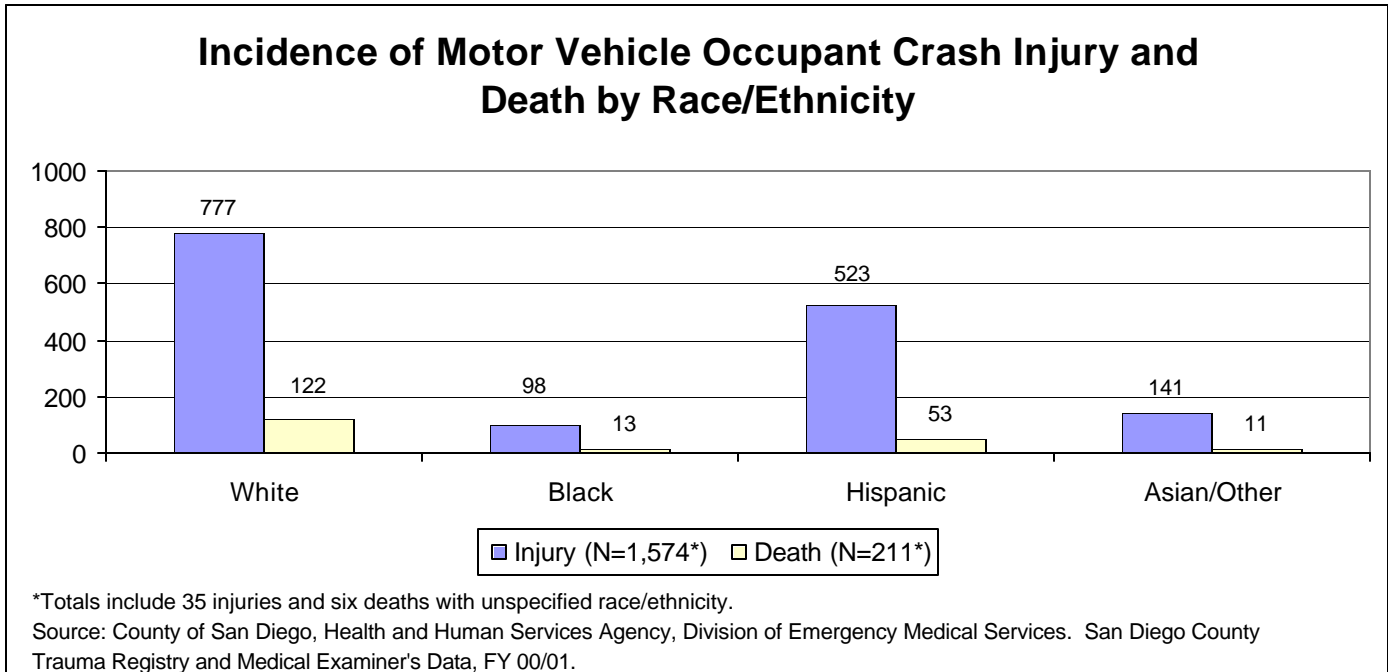
Incidence of Motor Vehicle Occupant Crash Injury and Death by Race/Ethnicity



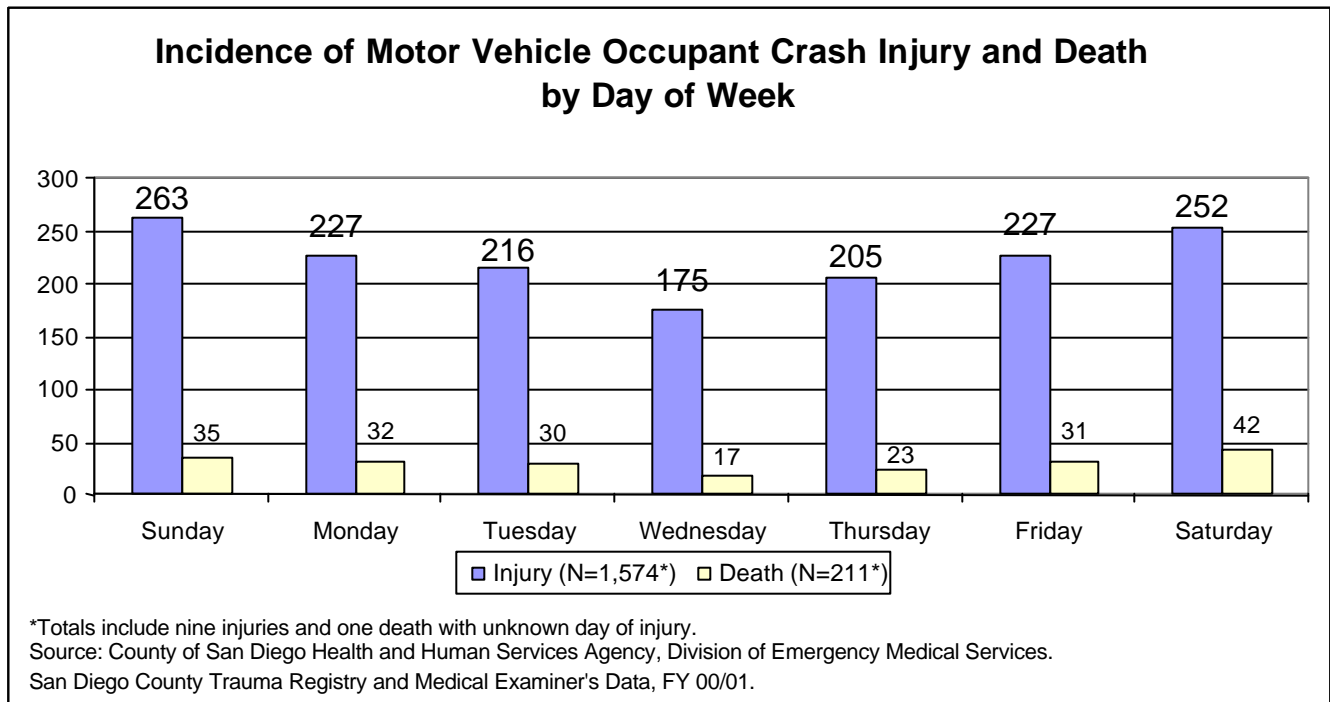
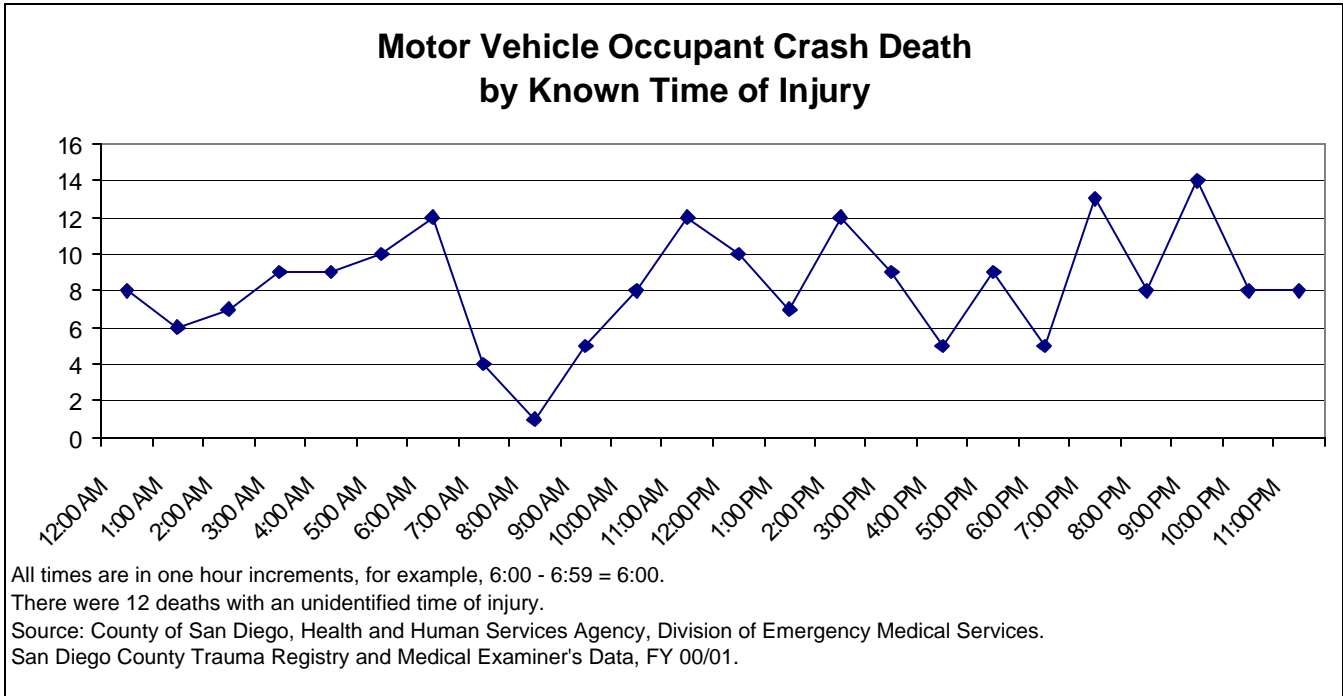
*Totals include 35 injuries and six deaths with unspecified race/ethnicity.

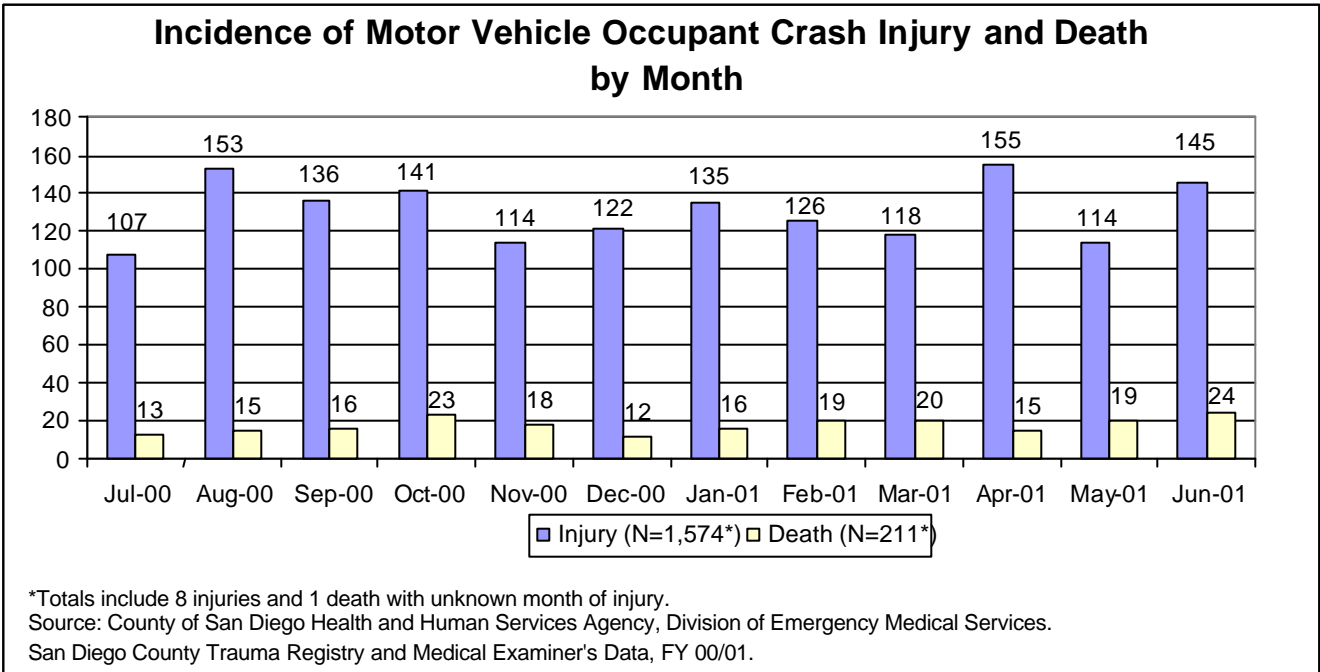
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01.

While Whites accounted for the more than half of injuries and deaths due to MVO crashes, the highest rates of injury and death were in the Hispanic population (69.52 per 100,000).



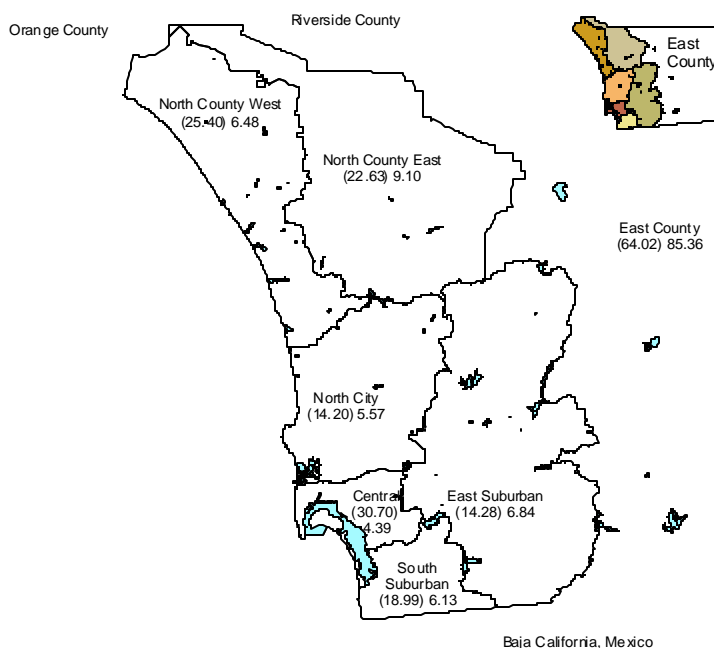
The peak time for MVO crashes resulting in death was between 9:00 and 9:59 p.m. Thirty-three percent of injuries and 37% of deaths occurred on weekends (Saturday and Sunday). April was the month with the most injuries while July had the fewest. Deaths peaked in June and were lowest in December.





Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 40% of non-fatal MVO injuries and for 96% of deaths from MVO crashes. The East County MSA, which comprised less than 1% of the county’s population, had 2.4% of injuries and 9.9% of deaths. Population estimates for each of the MSAs can be found in Appendix B.

Motor Vehicle Occupant Injury and Death Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.

*Rates not calculated on fewer than five incidents.

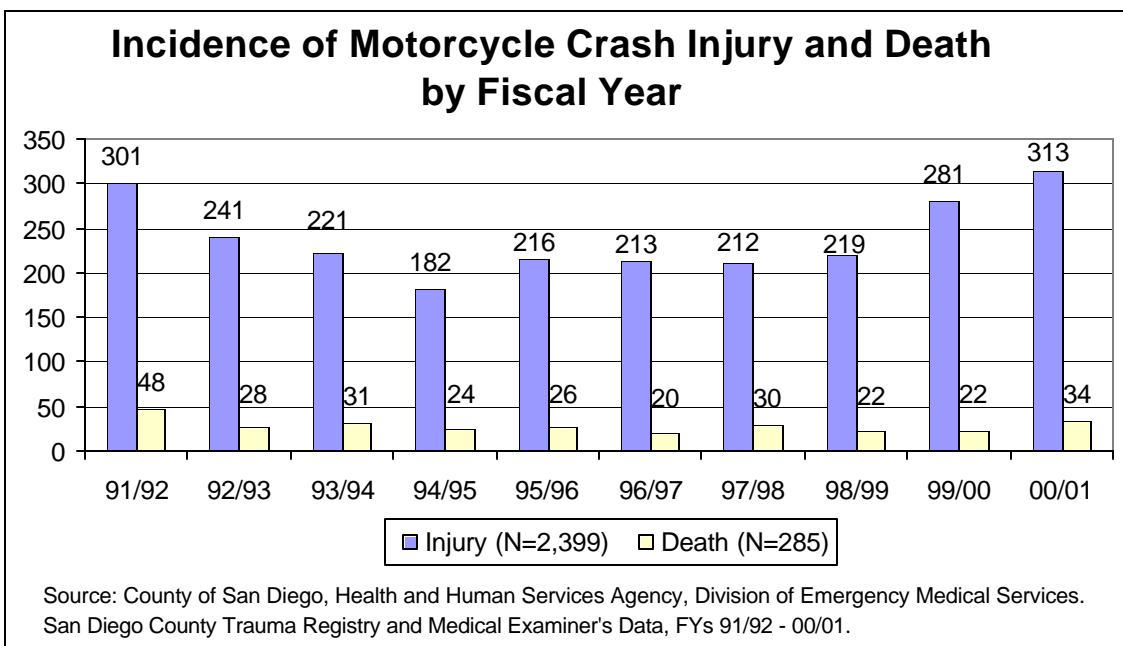
Please note there were 943 injuries and 9 deaths with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner’s Data: FY 00/01; Population estimates calculated from SANDAG estimates and forecasts. (Does not reflect 2000 Census.)

Motorcycle Crashes

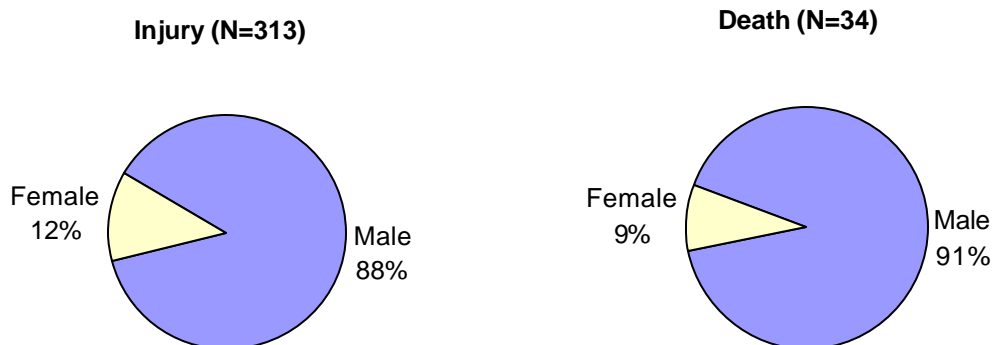
Motorcycle crash injuries did not account for a large percentage of overall traumatic injury deaths or years potential life lost. On average, for every trauma death due to a motorcycle crash during FY 00/01, there were over 9 more severe injuries from such a crash.

Motorcycle injuries increased 11% from FY 99/00 to FY 00/01 topping the previous high seen in 91/92. The number of deaths increased 54% from the previous year, reaching the highest level since 91/92, the first year of California’s mandatory helmet law.



As with all motor vehicle related crashes, the overwhelming majority of motorcycle crashes during FY 00/01 occurred among males: 88% of injuries and 91% of deaths. The highest rate of injury was in males 20-24 years of age (49.75).

Incidence of Motorcycle Crash Injury and Death by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01.

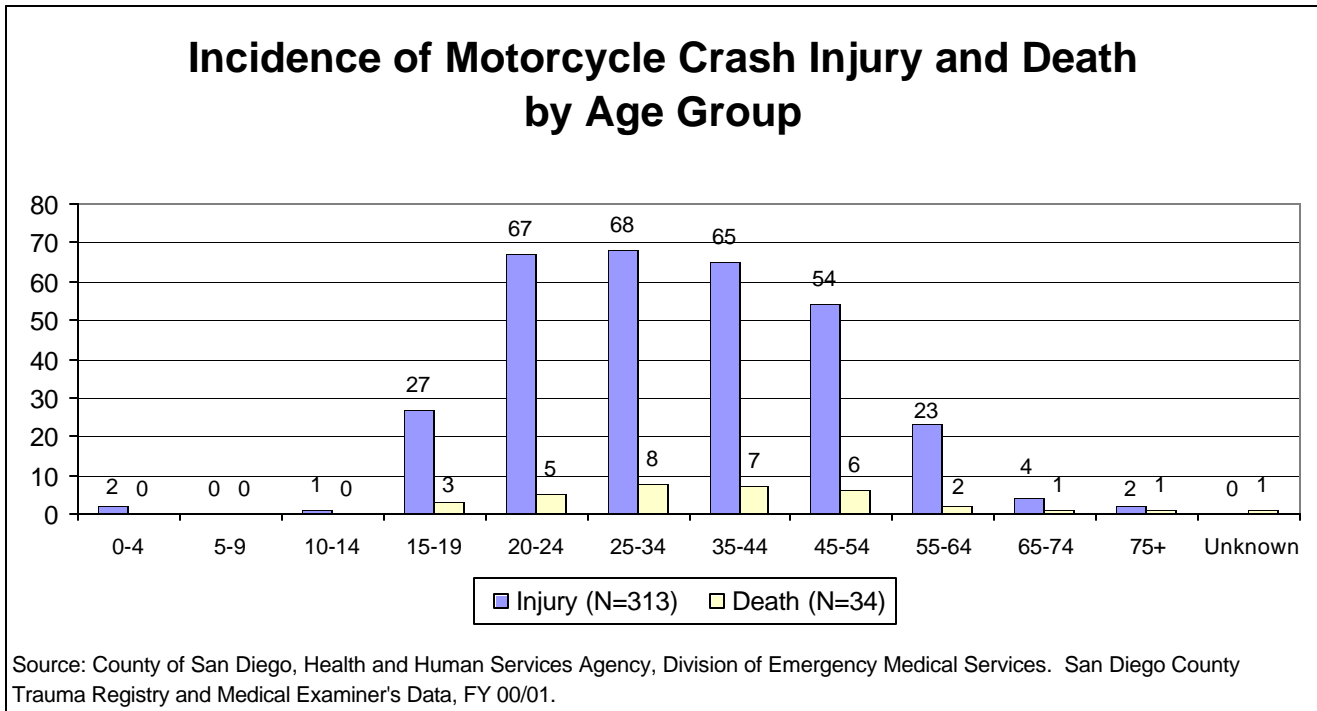
Incidence and Rate of Motorcycle Injury and Death by Age Group and Gender

	Injury						Death						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate
0-4	1	*	1	*	2	*	0	*	0	*	0	*	2	*
5-9	0	*	0	*	0	*	0	*	0	*	0	*	0	*
10-14	1	*	0	*	1	*	0	*	0	*	0	*	1	*
15-19	24	23.48	3	*	27	13.62	3	*	0	*	3	*	30	15.13
20-24	64	49.75	3	*	67	29.48	5	3.89	0	*	5	2.20	72	31.68
25-34	63	26.87	5	2.41	68	15.40	8	3.41	0	*	8	1.81	76	17.21
35-44	54	21.66	11	4.68	65	13.42	6	2.41	1	*	7	1.45	72	14.87
45-54	42	22.02	12	6.46	54	14.34	5	2.62	1	*	6	1.59	60	15.94
55-64	20	17.28	3	*	23	9.68	2	*	0	*	2	*	25	10.52
65-74	4	*	0	*	4	*	0	*	1	*	1	*	5	2.87
75+	1	*	1	*	2	*	1	*	0	*	1	*	3	*
Unknown	0		0		0		1		0		1		1	
Total	274	18.17	39	2.66	313	10.53	31	2.06	3	*	34	1.14	303	10.19

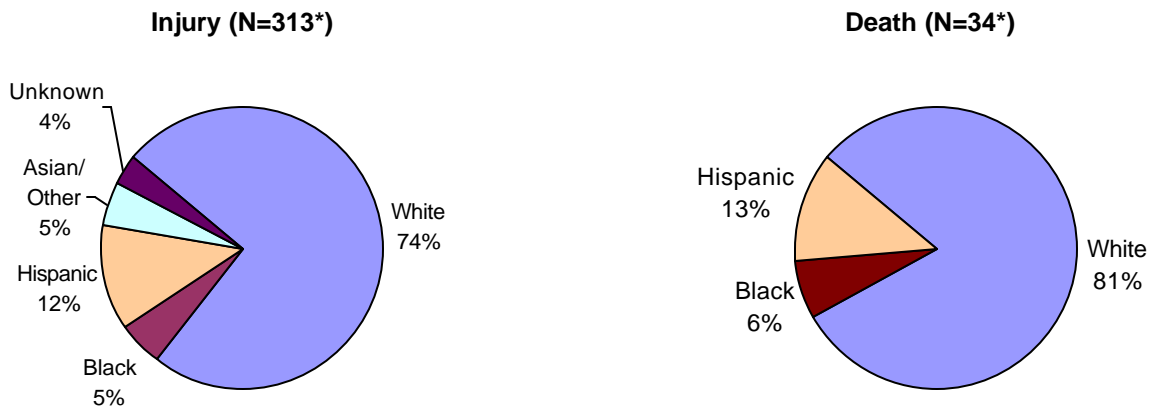
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 00/01; Population estimates calculated from SANDAG estimates and forecasts. (Does not reflect 2000 Census.)

*Rates not calculated on fewer than five incidents

Most motorcycle crash injuries occurred in young persons. Fifty-two percent of motorcycle injuries and deaths were to people younger than 35 years of age.

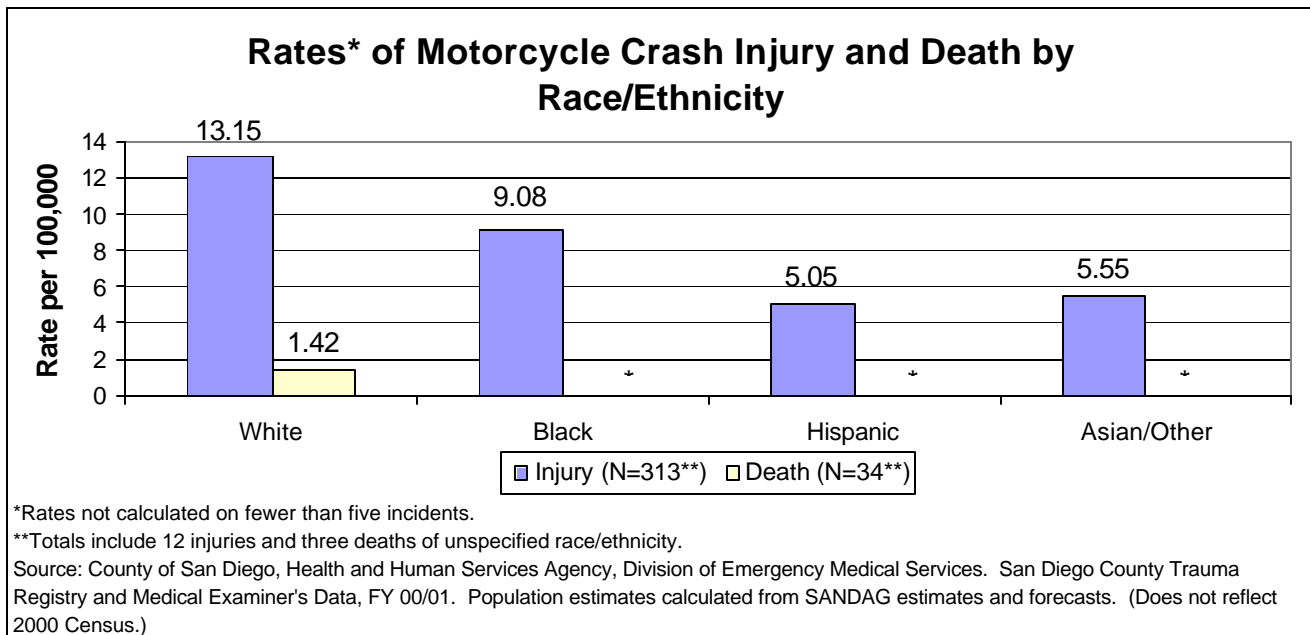
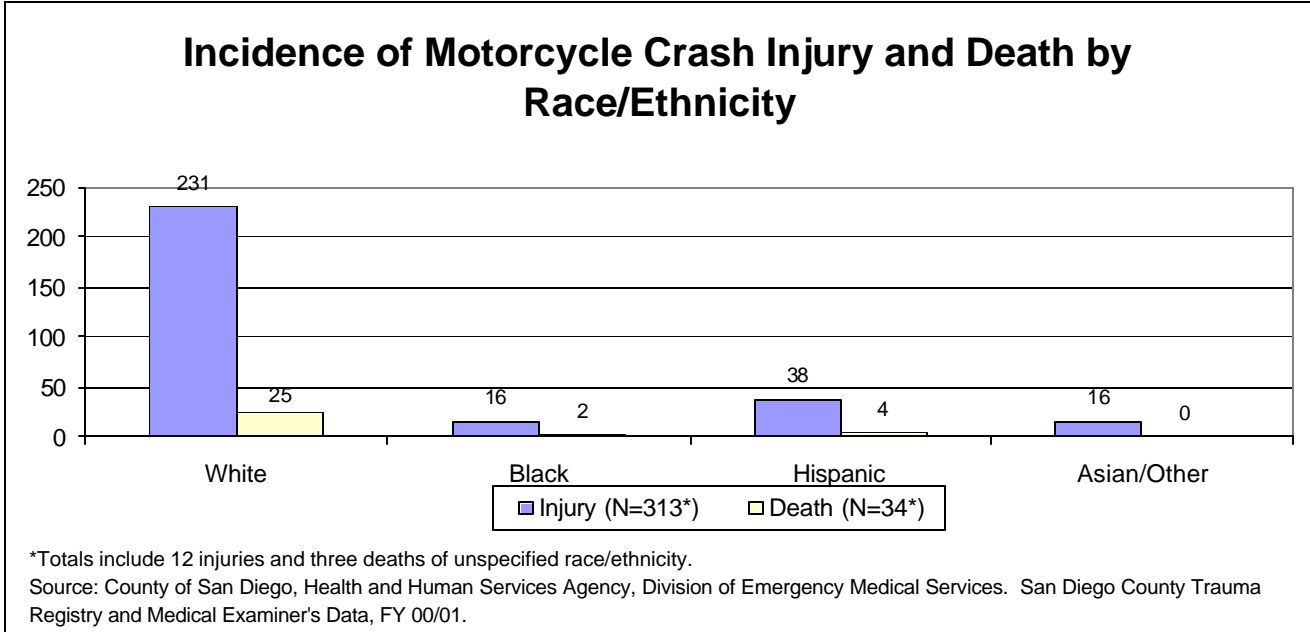


Incidence of Motorcycle Crash Injury and Death by Race/Ethnicity

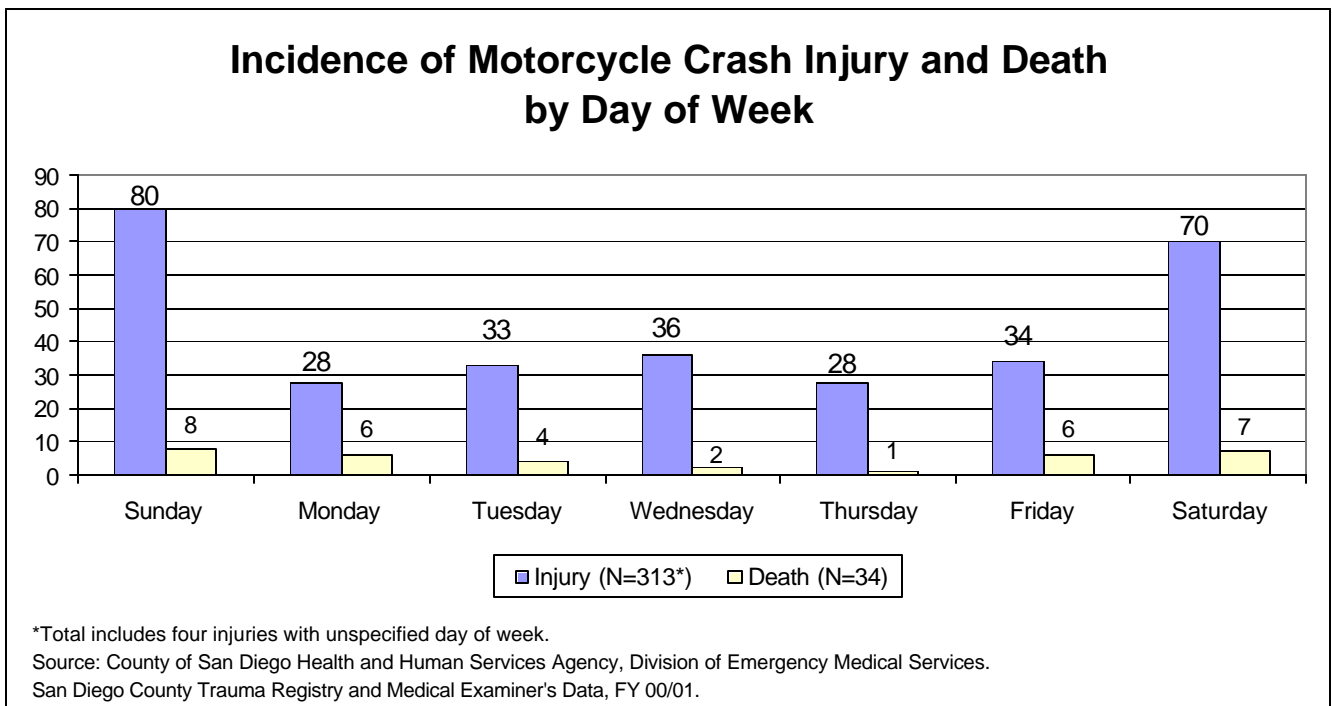
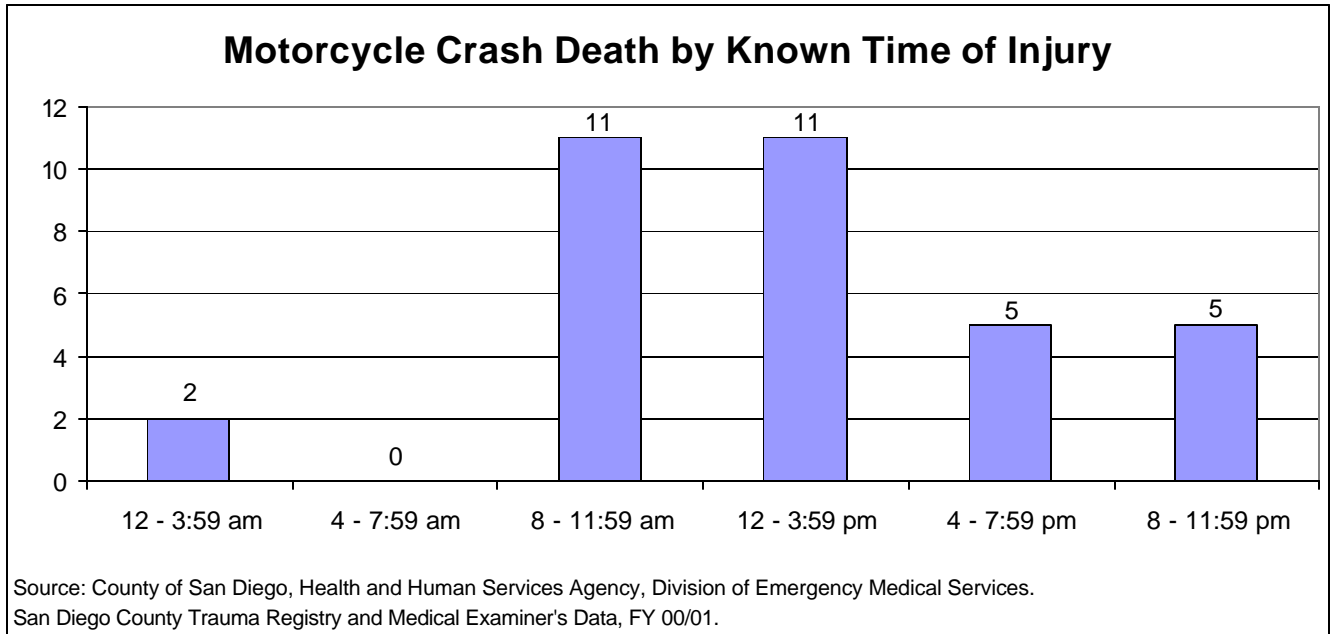


*Totals include 12 injuries and three deaths of unspecified race/ethnicity.
 Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01.

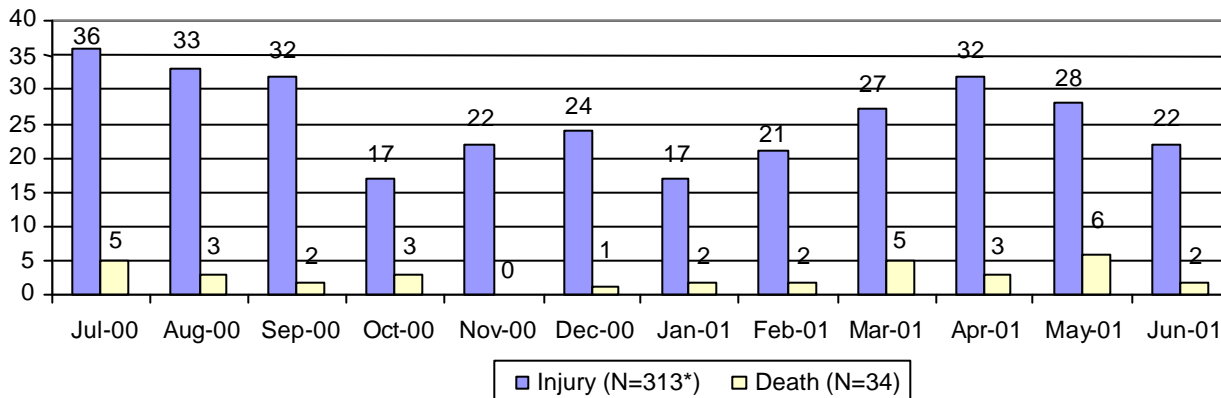
During FY 00/01, the White population had the highest incidence and rate of deaths and severe injuries due to motorcycle crashes. Seventy-four percent of severe injuries and 81% of deaths occurred in the White population, which makes up about 59% of the total county population.



Motorcycle crashes resulting in death occurred more frequently between 8:00 a.m. and 4:00 p.m.. Forty-eight percent of injuries and 44% of deaths occurred on Saturday and Sunday. July 2000 had the highest number of motorcycle crash injuries.



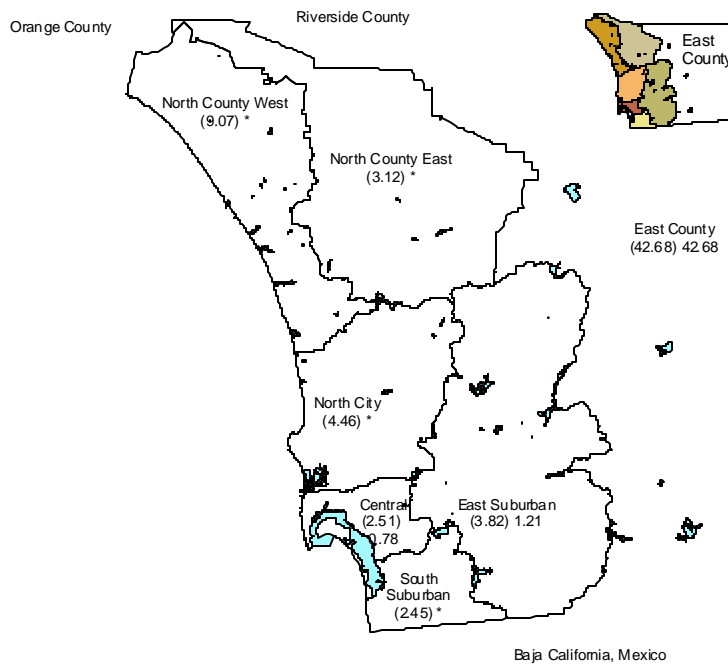
Incidence of Motorcycle Crash Injury and Death by Month



*Total includes two injuries with unspecified month.
 Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services.
 San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01.

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 42% of non-fatal motorcycle injuries and for 91% of deaths from motorcycle crashes. The rate of injury due to motorcycle crashes in the East County MSA was more than four times higher than the next highest MSA rate. Population estimates for each of the MSAs can be found in Appendix B.

Motorcycle Injury and Death Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.

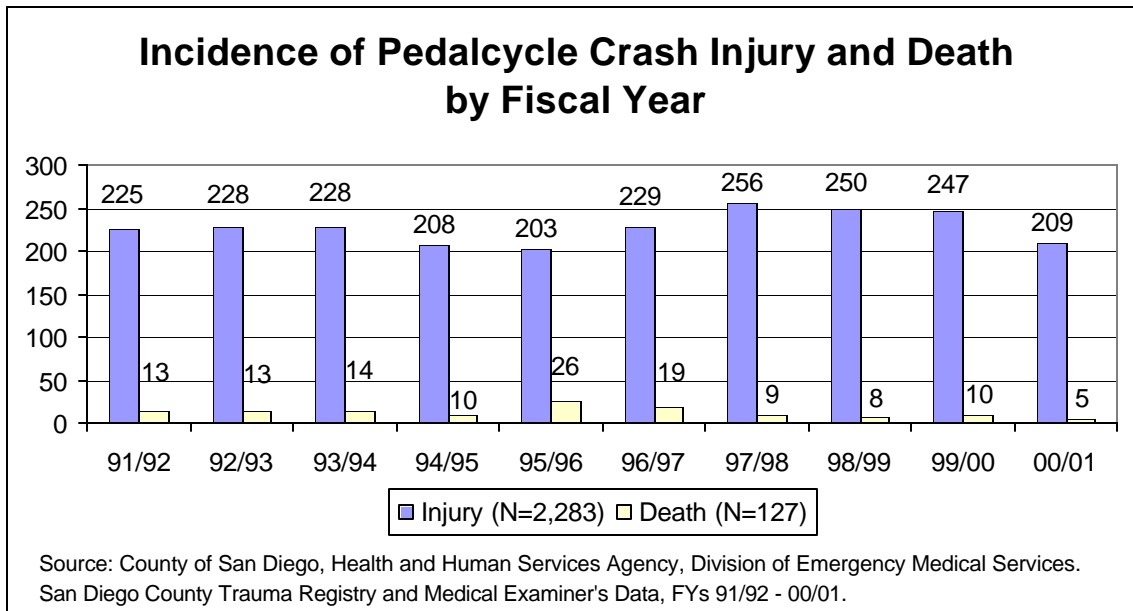
*Rates not calculated on fewer than five incidents.

Please note there were 181 injuries and three deaths with unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01. Population estimates calculated from SANDAG estimates and forecasts. (Does not reflect 2000 Census.)

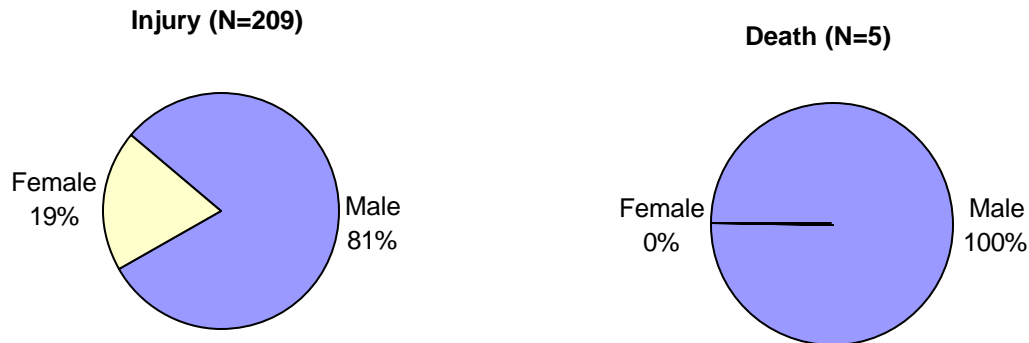
Pedalcycle Crashes

Pedalcyclists were much more likely to sustain a severe rather than a fatal injury during a pedalcycle crash. In FY 00/01, there were five deaths due to pedalcycle crashes. On average, for every death resulting from a pedalcycle crash, there were 41 more severe injuries. The number of pedalcycle crash injuries decreased 15% and the number of deaths decreased 50% from the previous fiscal year. Neither of these changes was statistically significant.



In past years, pedalcycle crashes were much more likely in young people, whereas in FY 00/01, the risk for middle-aged men is about the same as for young people. While boys aged 10-14 had the highest rate of injury (33.16 per 100,000), men aged 35-44 and 45-54 had injury rates similar to boys age 5-9 and 15-19. Further, four of the five deaths were to men between 35 and 54 years of age (the 5th being age 75 or older).

Incidence of Pedalcycle Crash Injury and Death by Gender



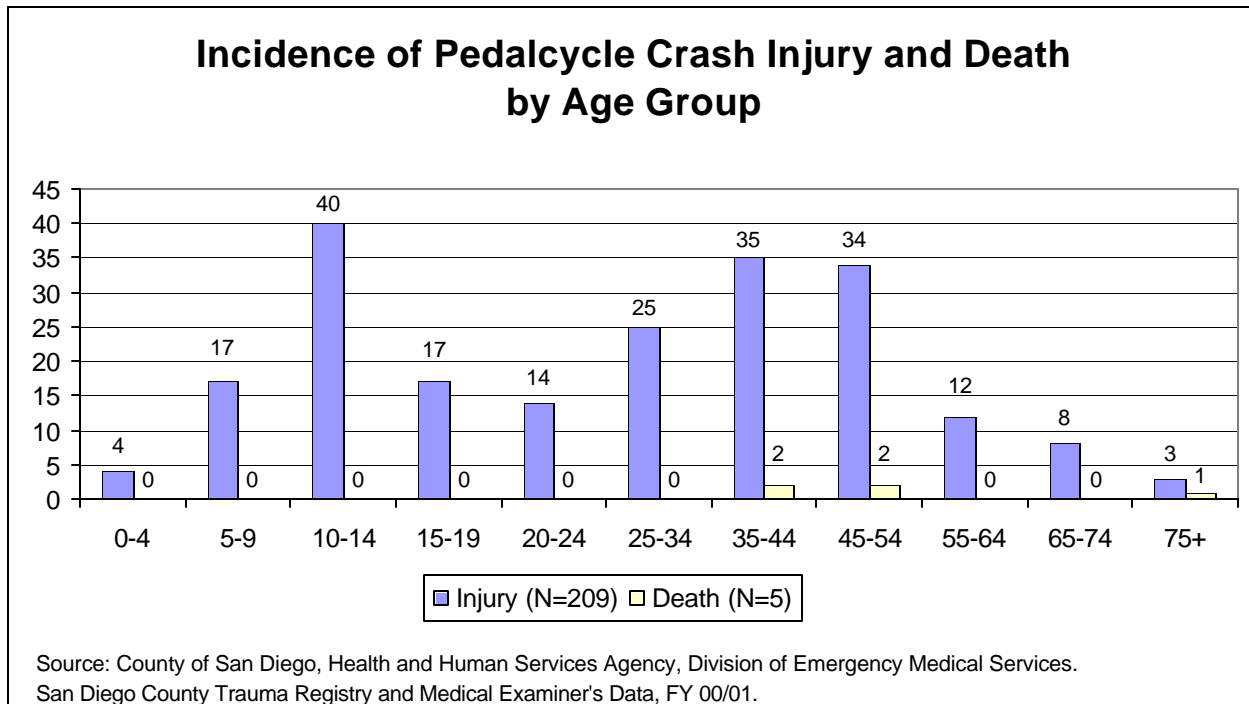
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01.

Incidence and Rate of Pedalcycle Injury and Death by Age Group and Gender

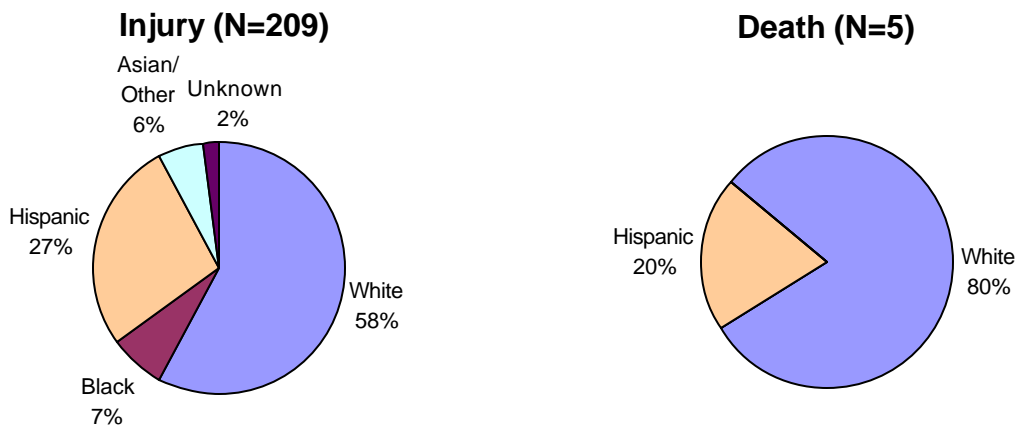
	Injury						Death						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate
0-4	4	*	0	*	4	*	0	*	0	*	0	*	4	*
5-9	12	10.36	5	4.60	17	7.57	0	*	0	*	0	*	17	7.57
10-14	36	33.16	4	*	40	18.89	0	*	0	*	0	*	40	18.89
15-19	14	13.70	3	*	17	8.57	0	*	0	*	0	*	17	8.57
20-24	10	7.77	4	*	14	6.16	0	*	0	*	0	*	14	6.16
25-34	20	8.53	5	2.41	25	5.66	0	*	0	*	0	*	25	5.66
35-44	27	10.83	8	3.40	35	7.23	2	*	0	*	2	*	37	7.64
45-54	28	14.68	6	3.23	34	9.03	2	*	0	*	2	*	36	9.56
55-64	10	8.64	2	*	12	5.05	0	*	0	*	0	*	12	5.05
65-74	6	7.51	2	*	8	4.59	0	*	0	*	0	*	8	4.59
75+	2	*	1	*	3	*	1	*	0	*	1	*	4	*
Unknown	169	11.21	40	2.73	209	7.03	5	0.33	0	*	5	0.17	214	7.20
Total	4	*	0	*	4	*	0	*	0	*	0	*	4	*

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 00/01; Population estimates calculated from SANDAG estimates and forecasts. (Does not reflect 2000 Census.)

*Rates not calculated on fewer than five incidents

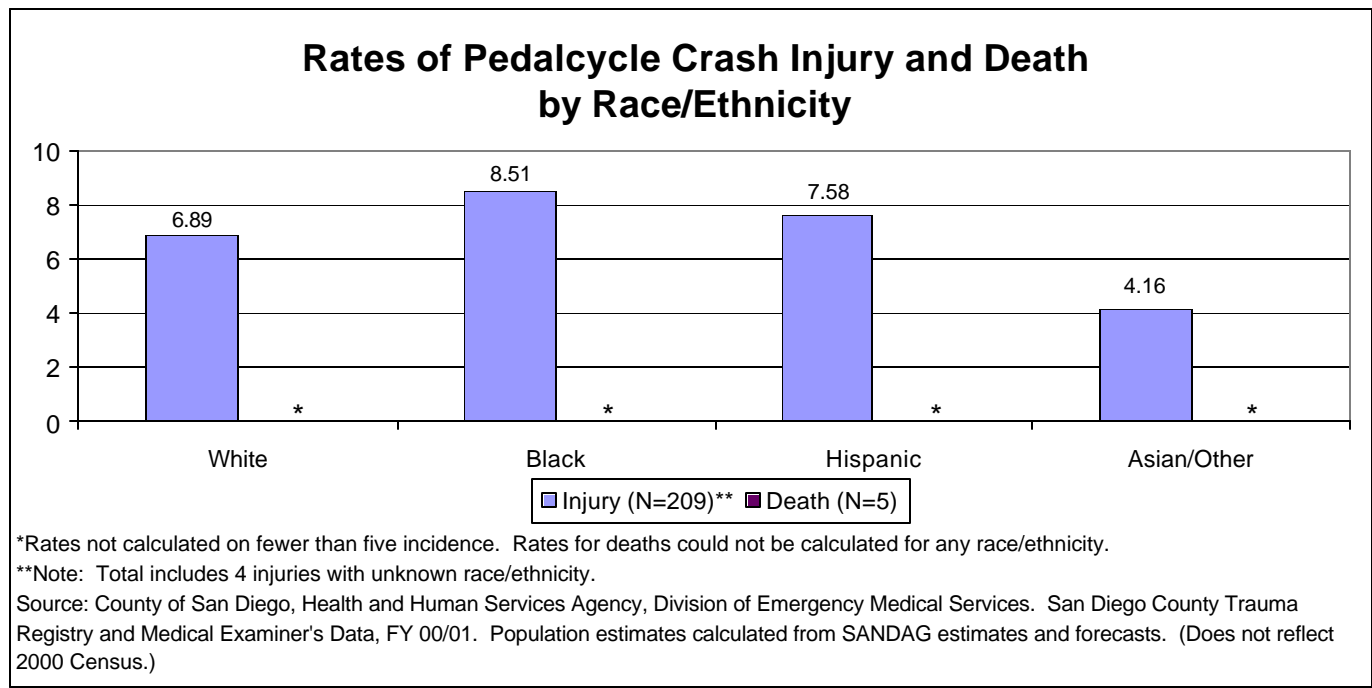
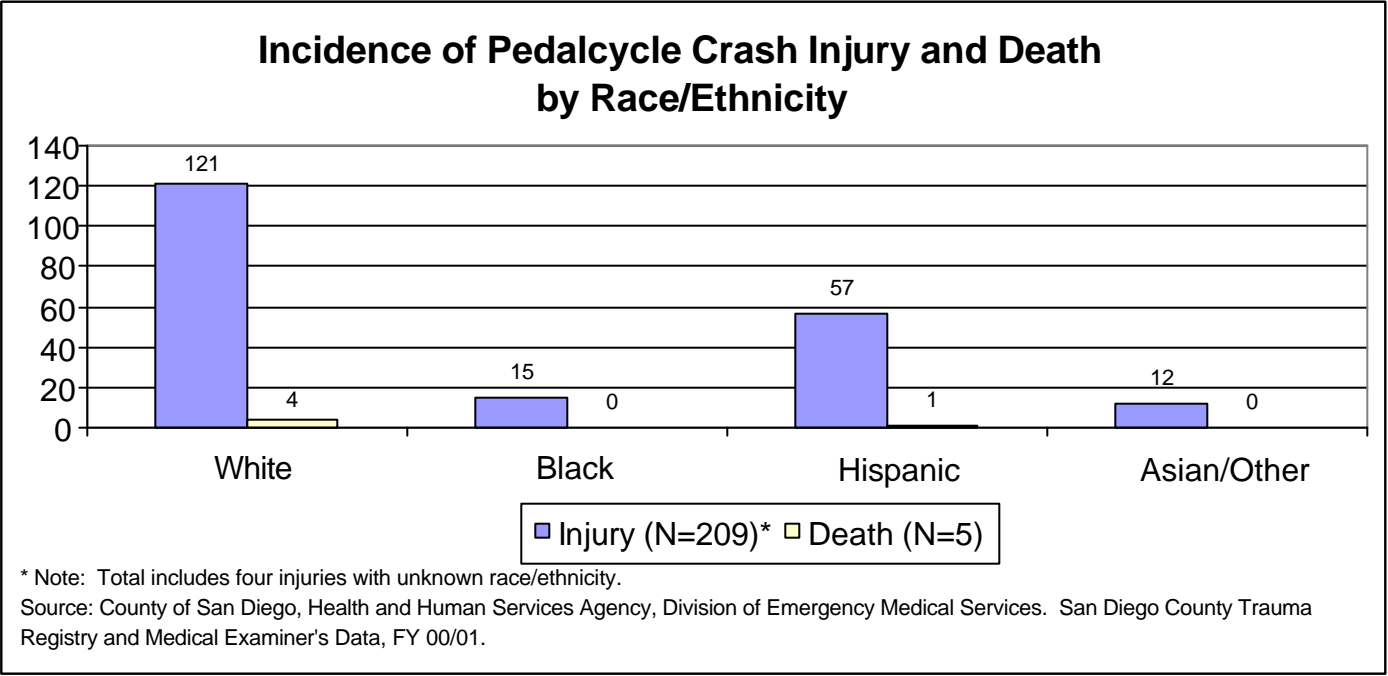


Incidence of Pedalcycle Crash Injury and Death by Race/Ethnicity

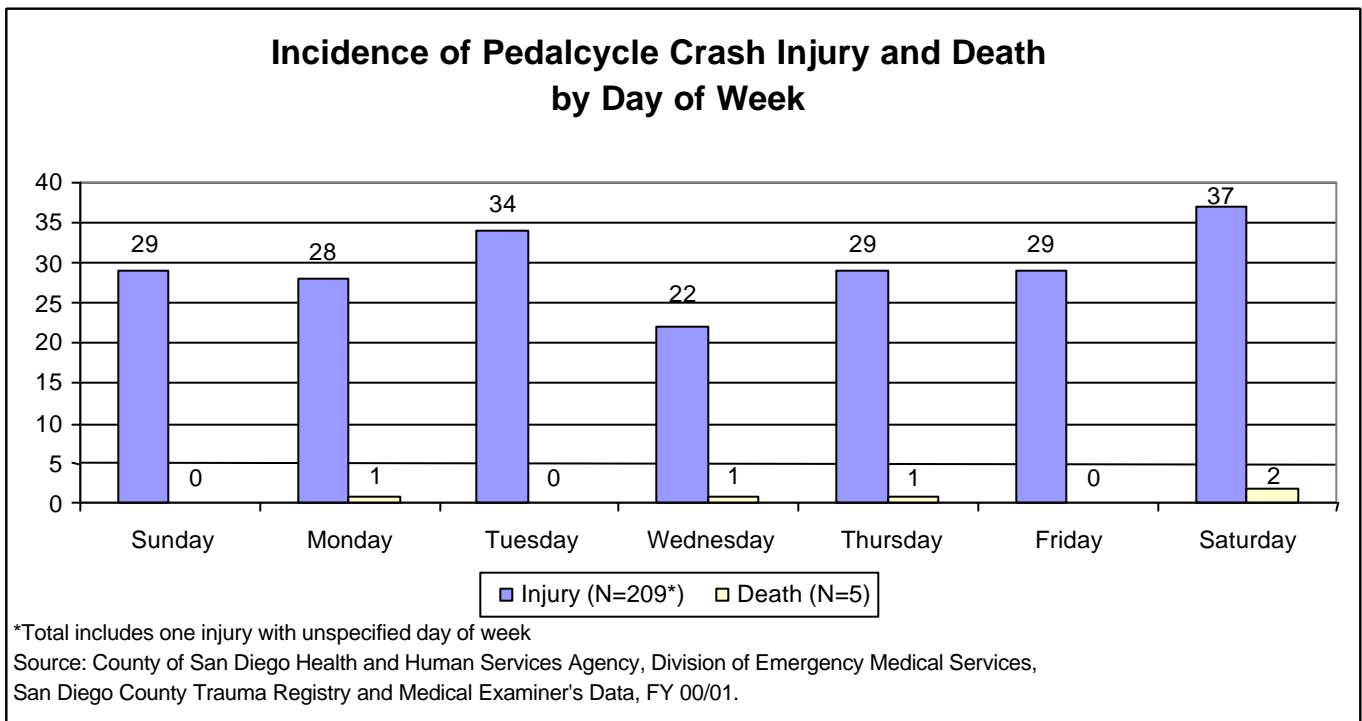
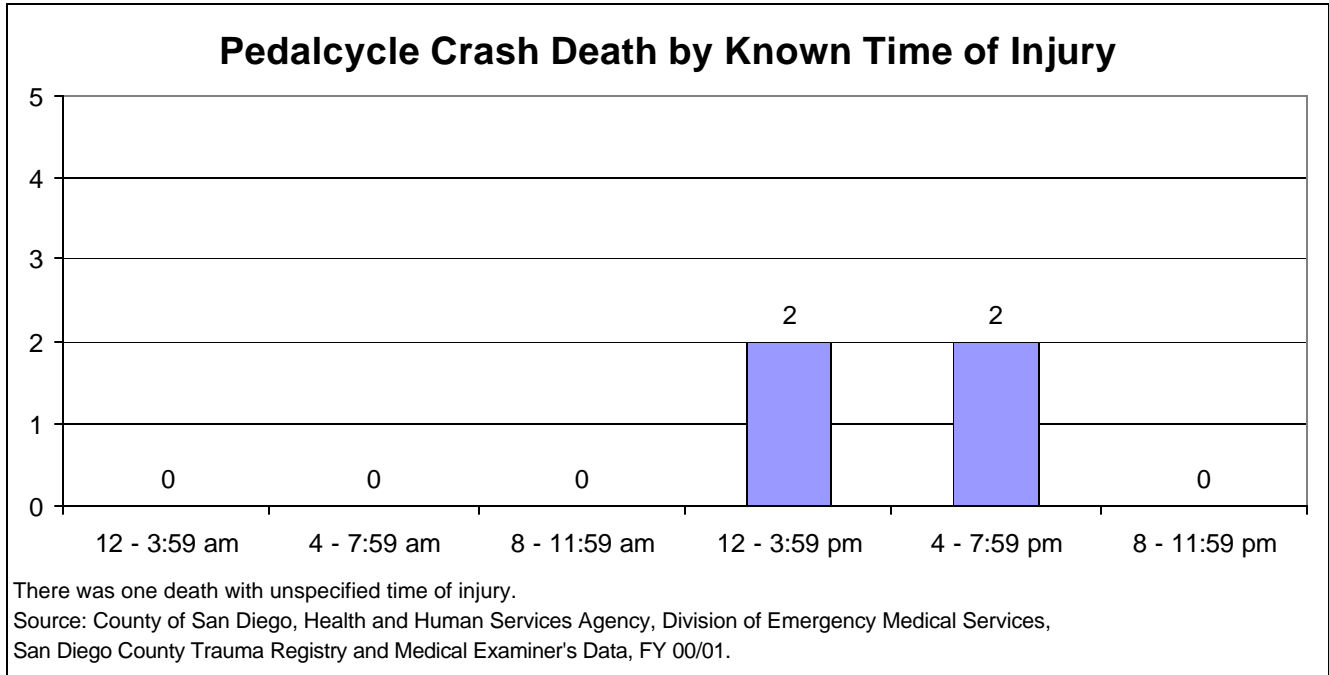


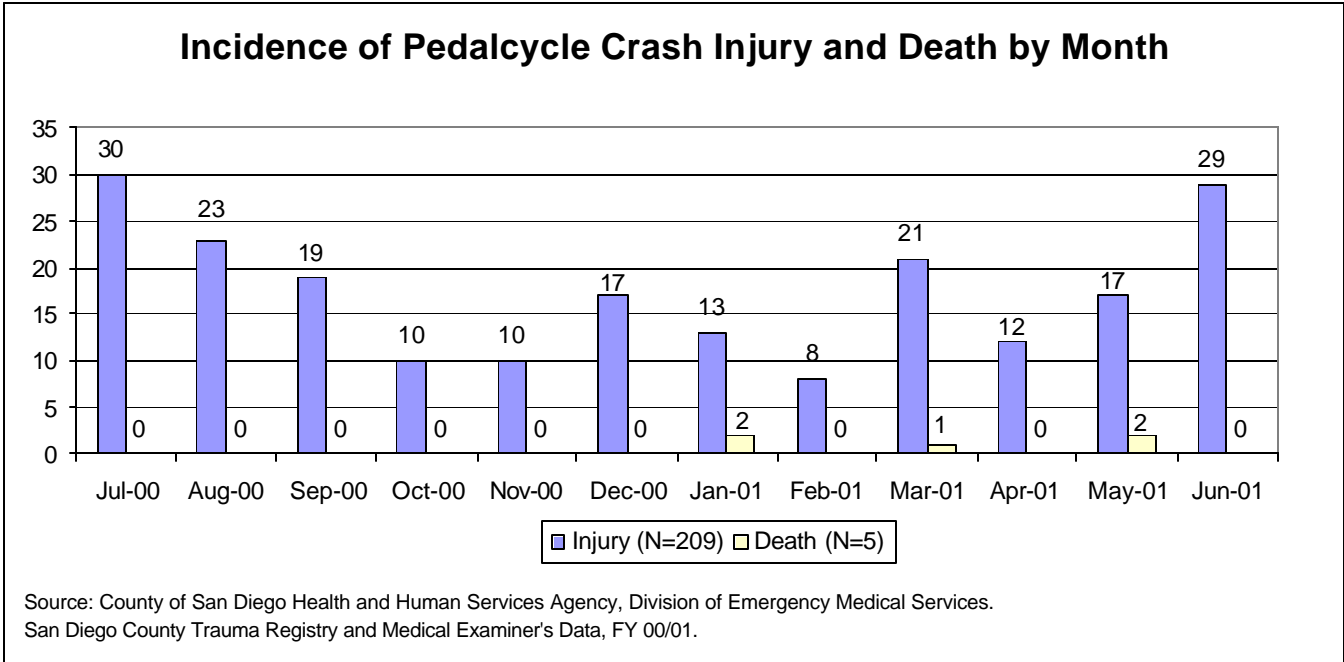
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01.

The racial distribution of severe injuries resulting from pedalcycle crashes was in nearly direct proportion to the racial/ethnic composition of the county as a whole, as demonstrated by the fact that the injury rate is similar in every racial group.



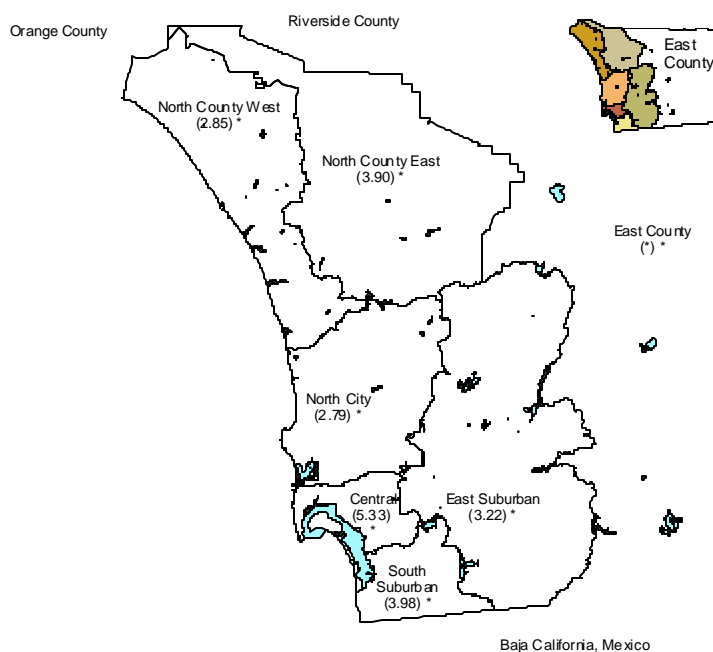
Four of the five deaths resulting from pedalcycle crashes occurred between noon and 8:00 p.m. (Time was not reported for the 5th death.) Thirty-two percent (32%) of severe injuries happened during weekends. The months with the greatest number of pedalcycle crash injuries were July and June.





Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 54% of non-fatal pedalcycle injuries and for 80% of deaths from pedalcycle crashes. The Central MSA had the highest rate of pedalcycle injury (5.33 per 100,000). Numbers of deaths were too low to calculate rates for any MSA. Population estimates for each of the MSAs can be found in Appendix B.

Pedalcycle Injury and Death Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.

*Rates not calculated on fewer than five incidents.

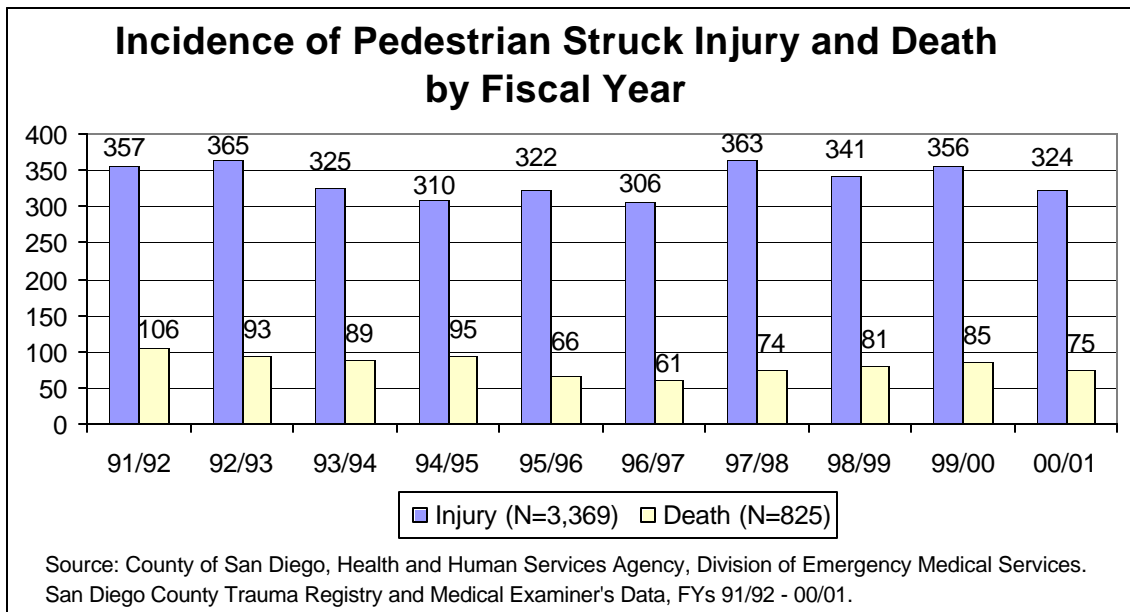
Please note there were 97 injuries and 1 death with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01. Population estimates calculated from SANDAG estimates and forecasts. (Does not reflect 2000 Census.)

Pedestrians

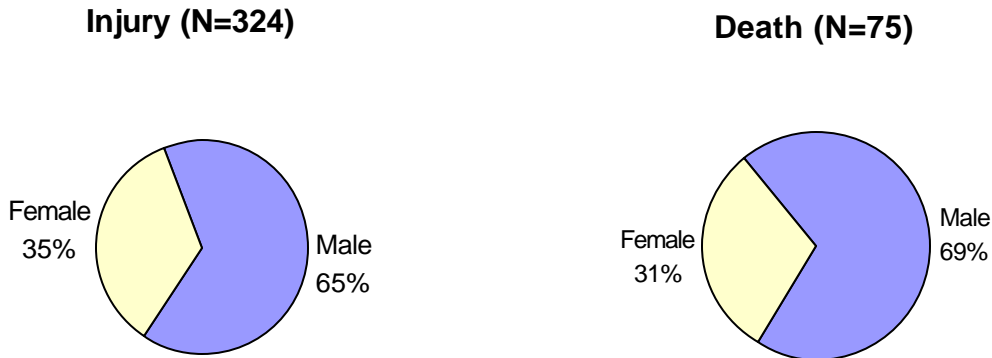
Pedestrian injuries accounted for 9% of trauma deaths and 9% of years of potential life lost due to trauma for FY00/01. For every death resulting from a pedestrian being struck by a motor vehicle, four others were severely injured.

The number of injuries decreased 9%, and deaths decreased 12% from FY99/00 to 00/01. Neither of these changes was statistically significant.



As with other transportation related injuries, males had a higher rate of death and severe injury as pedestrians compared to females for all age groups. Males accounted for 65% of severe injuries and 69% of deaths. Typically, the highest rates of injury were for males age 0-4 and 5-9, but during FY00/01, highest rate was for males age 45-54 (18.35 per 100,000).

Incidence of Pedestrian Struck Injury and Death by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01.

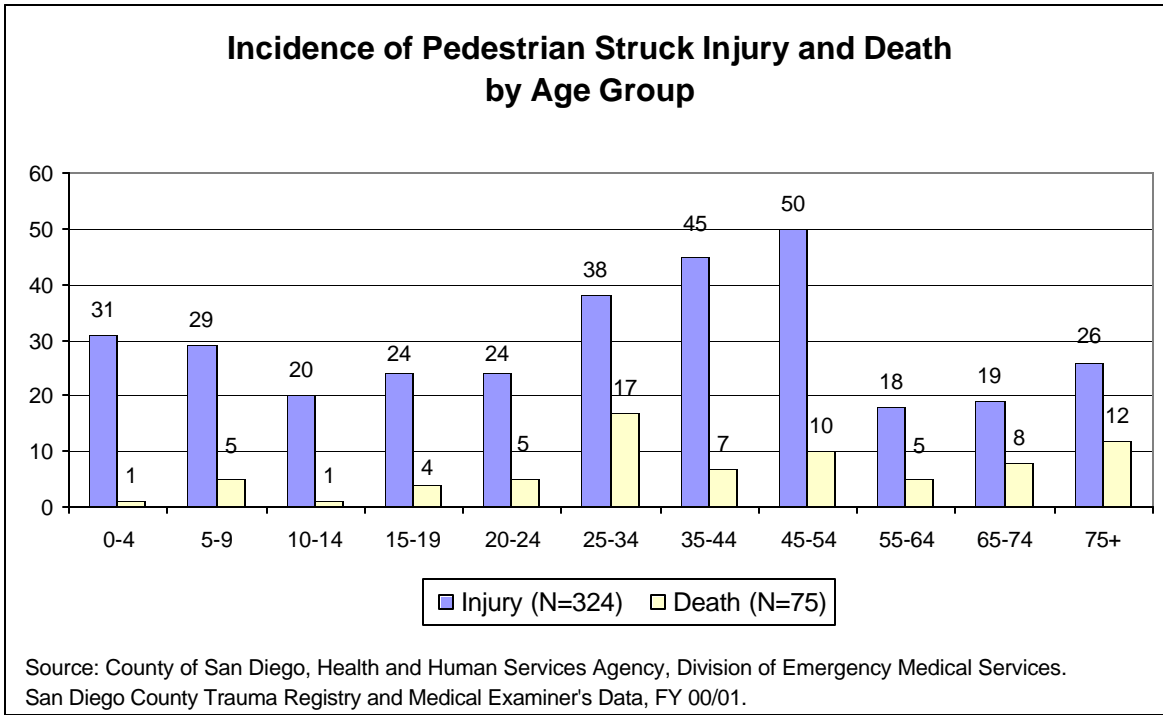
Incidence and Rate of Pedestrian Injury and Death by Age Group and Gender

	Injury						Death						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate
0-4	21	17.72	10	8.65	31	13.24	0	*	1	*	1	*	32	13.67
5-9	17	14.68	12	11.03	29	12.91	4	*	1	*	5	2.23	34	15.14
10-14	14	12.90	6	5.82	20	9.45	1	*	0	*	1	*	21	9.92
15-19	17	16.63	7	7.28	24	12.10	2	*	2	*	4	*	28	14.12
20-24	16	12.44	8	8.11	24	10.56	5	3.89	0	*	5	2.20	29	12.76
25-34	23	9.81	15	7.24	38	8.60	14	5.97	3	*	17	3.85	55	12.45
35-44	30	12.04	15	6.38	45	9.29	4	*	3	*	7	1.45	52	10.74
45-54	35	18.35	15	8.07	50	13.28	4	*	6	3.23	10	2.66	60	15.94
55-64	13	11.23	5	4.10	18	7.57	5	4.32	0	*	5	2.10	23	9.68
65-74	12	15.02	7	7.42	19	10.90	5	6.26	3	*	8	4.59	27	15.49
75+	11	17.08	15	15.15	26	15.91	8	12.42	4	*	12	7.34	38	23.25
Unknown	0		0		0		0		0		0		0	
Total	209	13.86	115	7.85	324	10.89	52	3.45	23	1.57	75	2.52	399	13.42

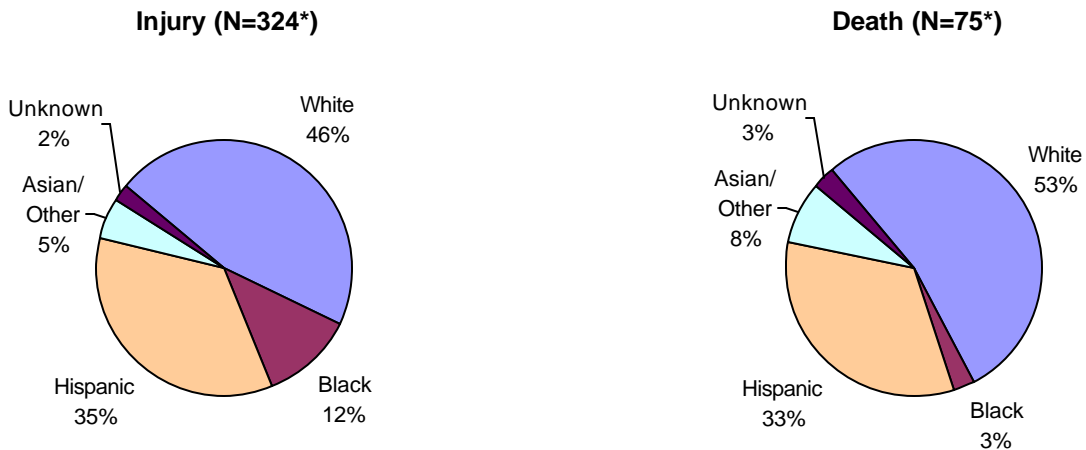
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 00/01; Population estimates calculated from SANDAG estimates and forecasts. (Does not reflect 2000 Census.)

*Rates not calculated on fewer than five incidents

The rates of pedestrian injury for children younger than ten years continue to be high, accounting for 19% of all pedestrian injuries. Fatal injuries were highest for the 25-34 age group.

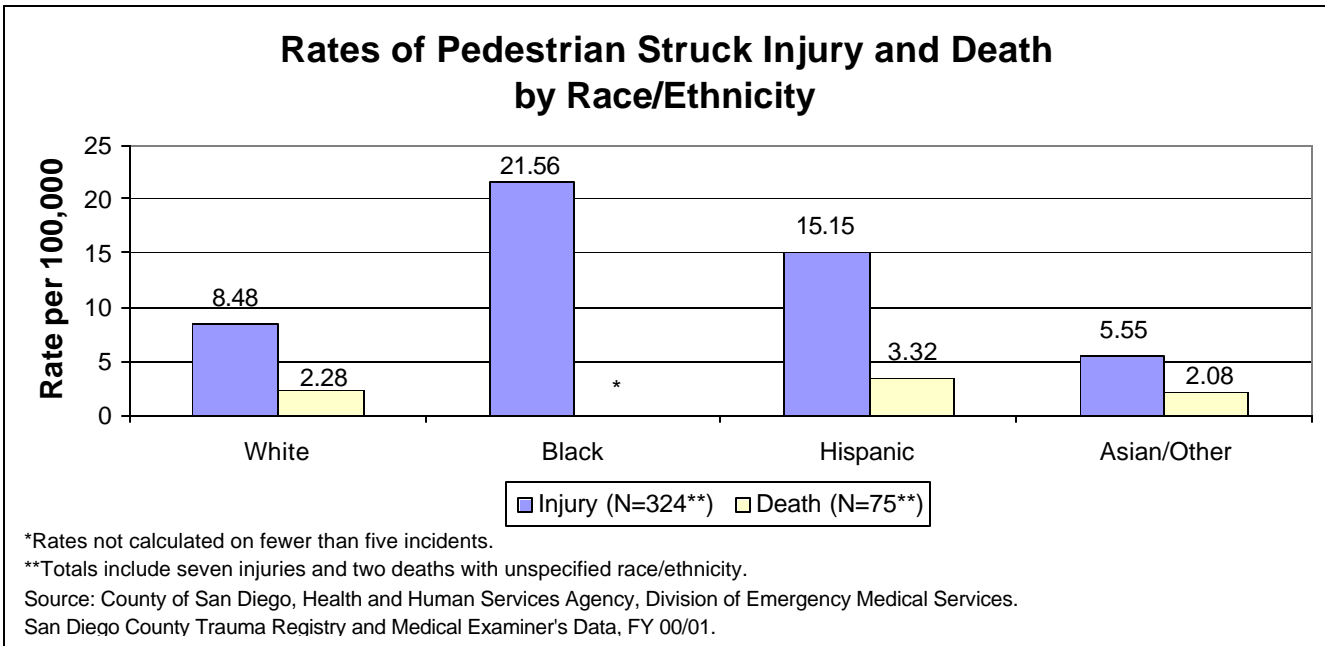
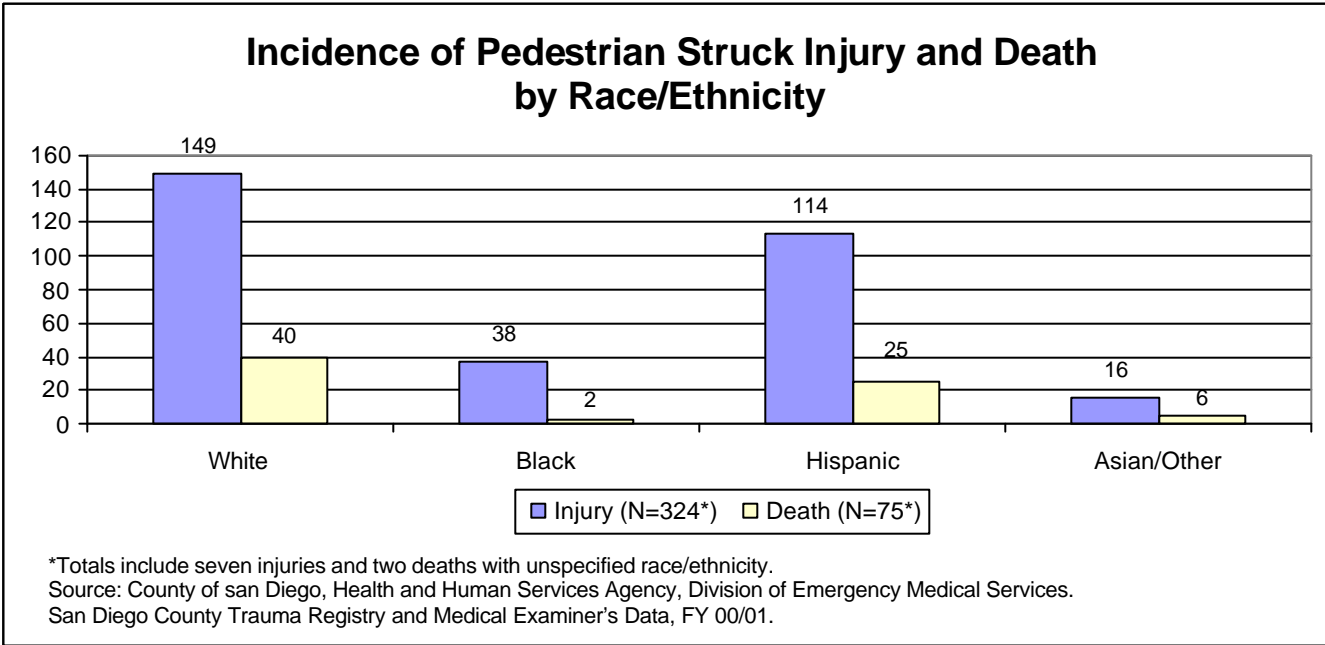


Incidence of Pedestrian Struck Injury and Death by Race/Ethnicity

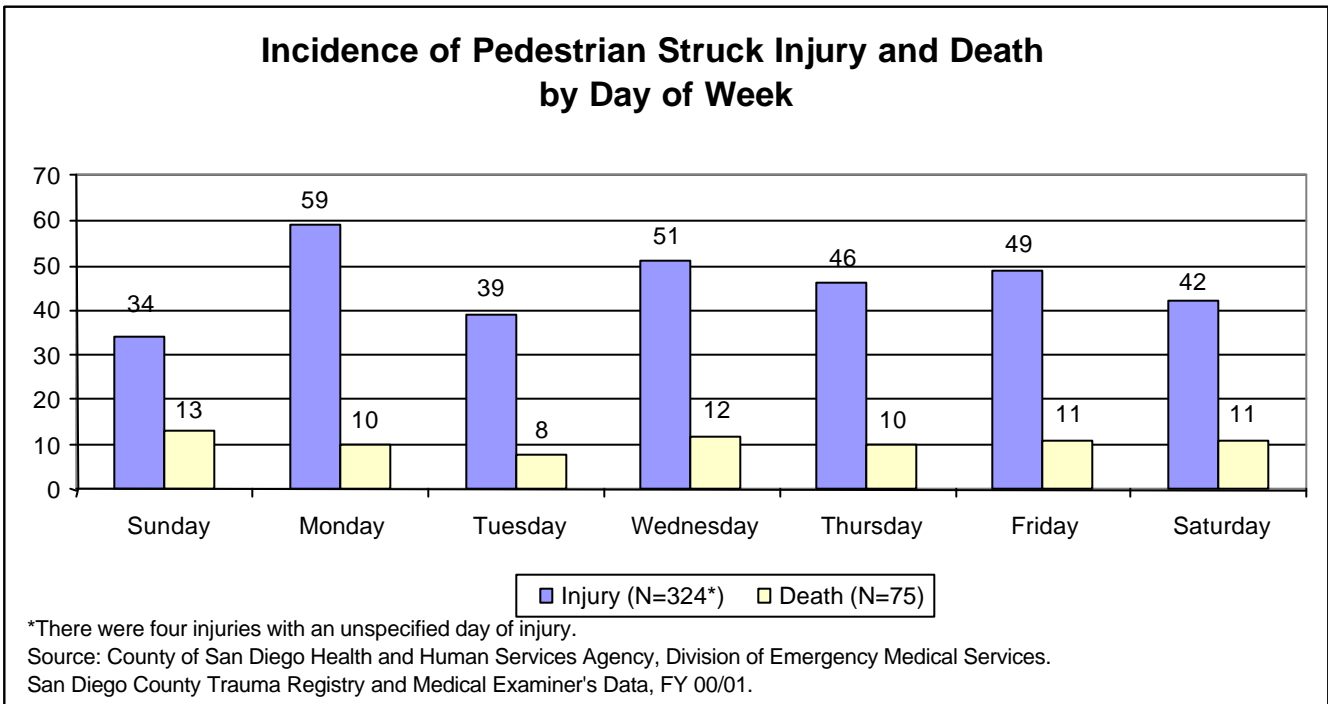
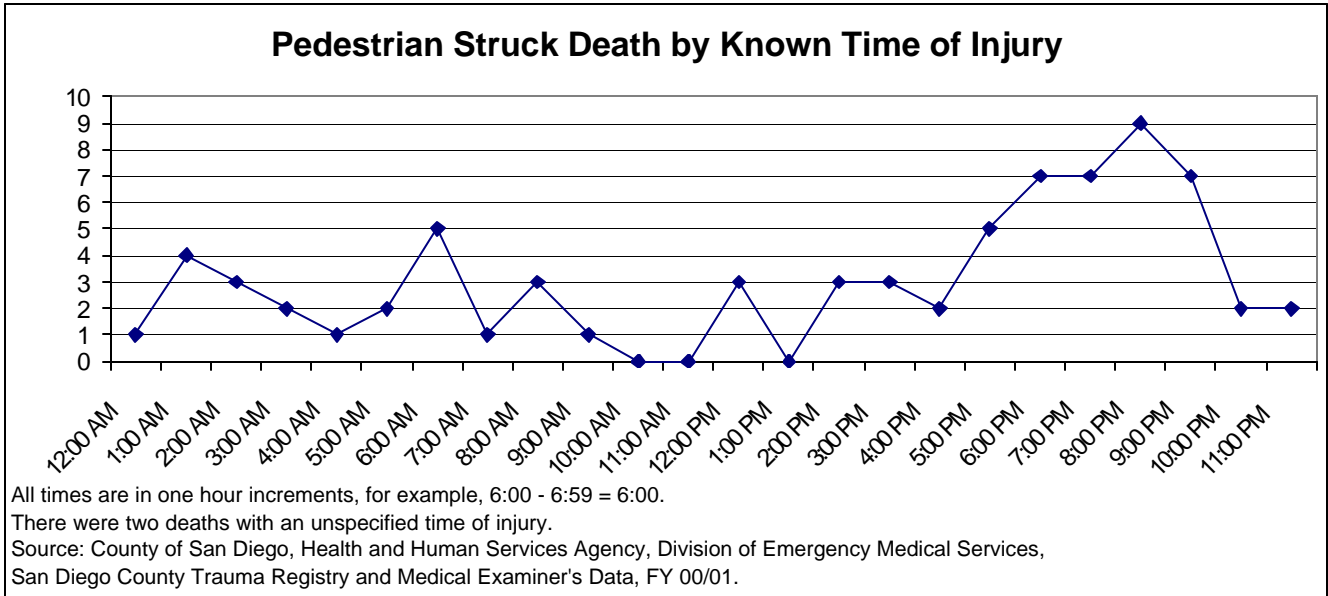


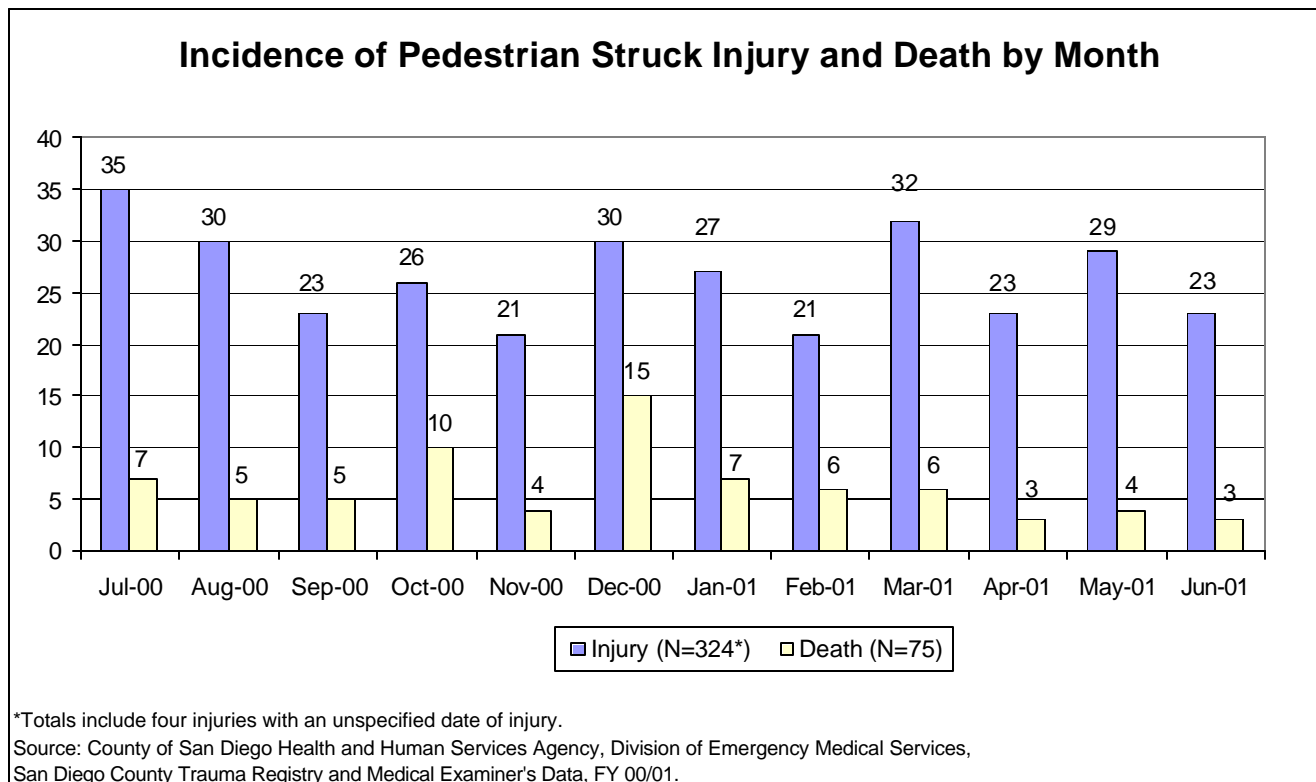
*Totals include seven injuries and two deaths with unspecified race/ethnicity.
 Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01.

The pedestrian injury rate was highest in the Black population (21.56 per 100,000), while deaths were highest among Hispanics (3.32 per 100,000).



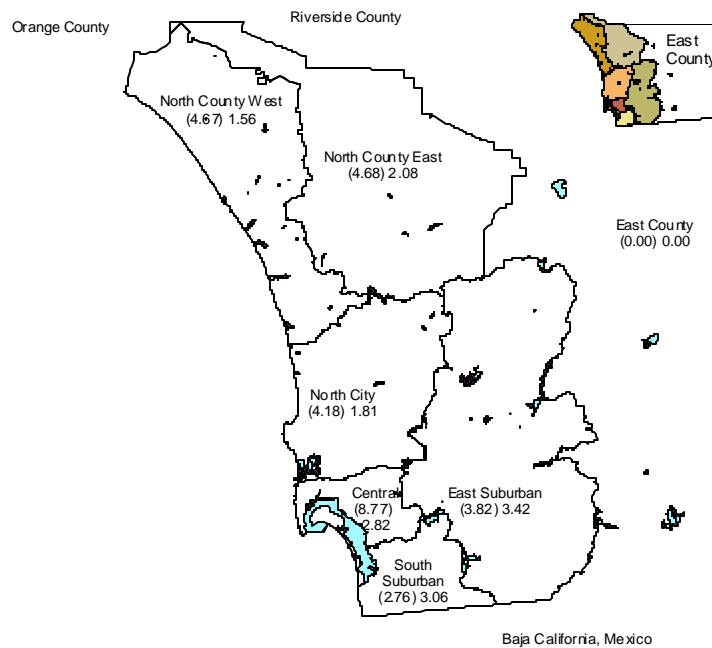
The number of pedestrian deaths increased during the late afternoon and evening hours, with the incidence peaking between 9:00 p.m. and 10:00 p.m. The most injuries occurred on Monday; deaths peaked on Sunday but varied little from day to day. Pedestrian injuries peaked in July, and deaths peaked in December.





Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 46% of non-fatal pedestrian injuries and for 96% of deaths from pedestrian crashes. The Central MSA had the highest rate of pedestrian injury, while the pedestrian death rate was highest in the East Suburban MSA. Population estimates for each of the MSAs can be found in Appendix B.

Pedestrian Injury and Death Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.

*Rates not calculated on fewer than five incidents.

Please note there were 174 injuries and three deaths with an unknown incident zip code.

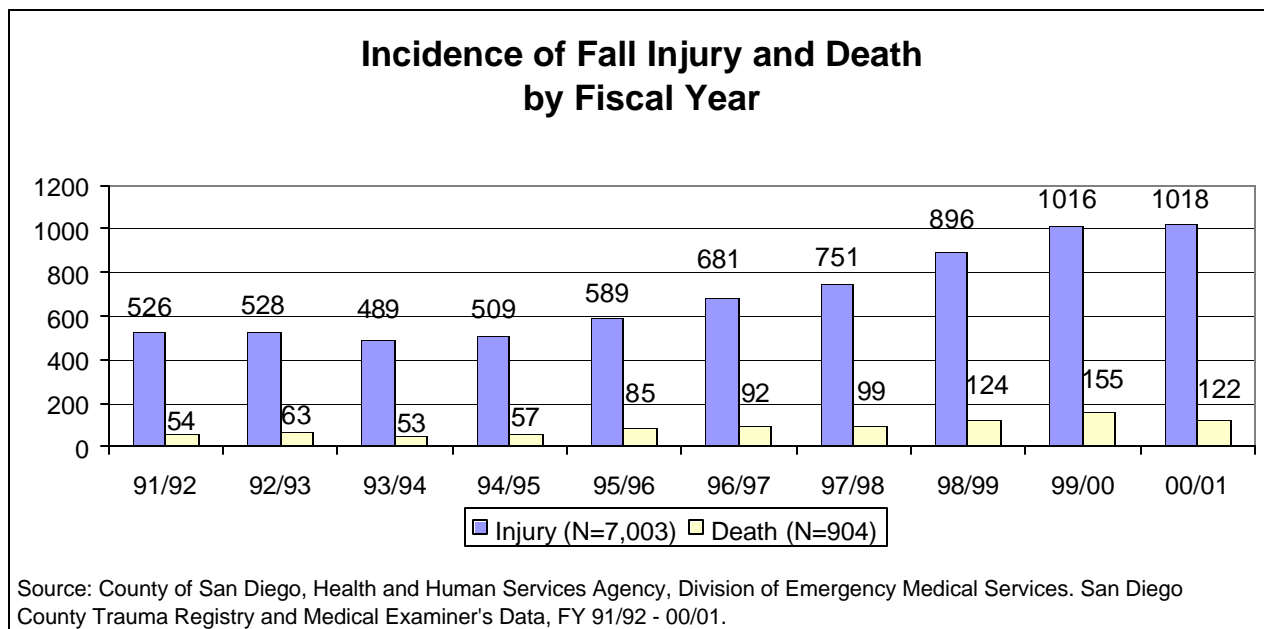
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01; Population estimates calculated from SANDAG estimates and forecasts. (Does not reflect 2000 Census.)

Other Unintentional Injuries and Deaths

In addition to violent and transportation related incidents, 1,411 trauma patients were injured or killed following a fall or during a sports/recreation activity. Another 257 were unintentionally injured or killed due to a variety of mechanisms that can best be classified as other. These include being struck by machinery/object, struck by falling object, and other unspecified accidents. See Technical Notes for a full listing of mechanisms included in the other category.

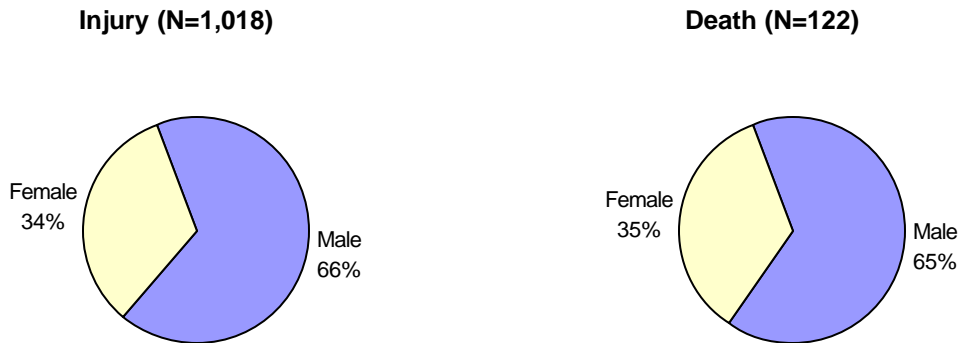
Falls

There were 1,018 injuries and 122 deaths resulting from falls in FY 00/01. For every trauma patient who died as the result of a fall, more than eight were severely injured. The number of fall injuries increased steadily from FY 94/95 to 99/00, and remained high in 00/01. The number of deaths decreased by 21% from FY 99/00 to 00/01.



Males accounted for 66% of injuries and 65% of deaths due to falls and had higher rates of both death and injury for all age groups.

Incidence of Fall Injury and Death by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 99/00.

People over the age of 74 were at greatest risk of severe injury resulting from a fall, followed by 65-74 year olds and children under five (140.73, 48.19, and 40.15, respectively).

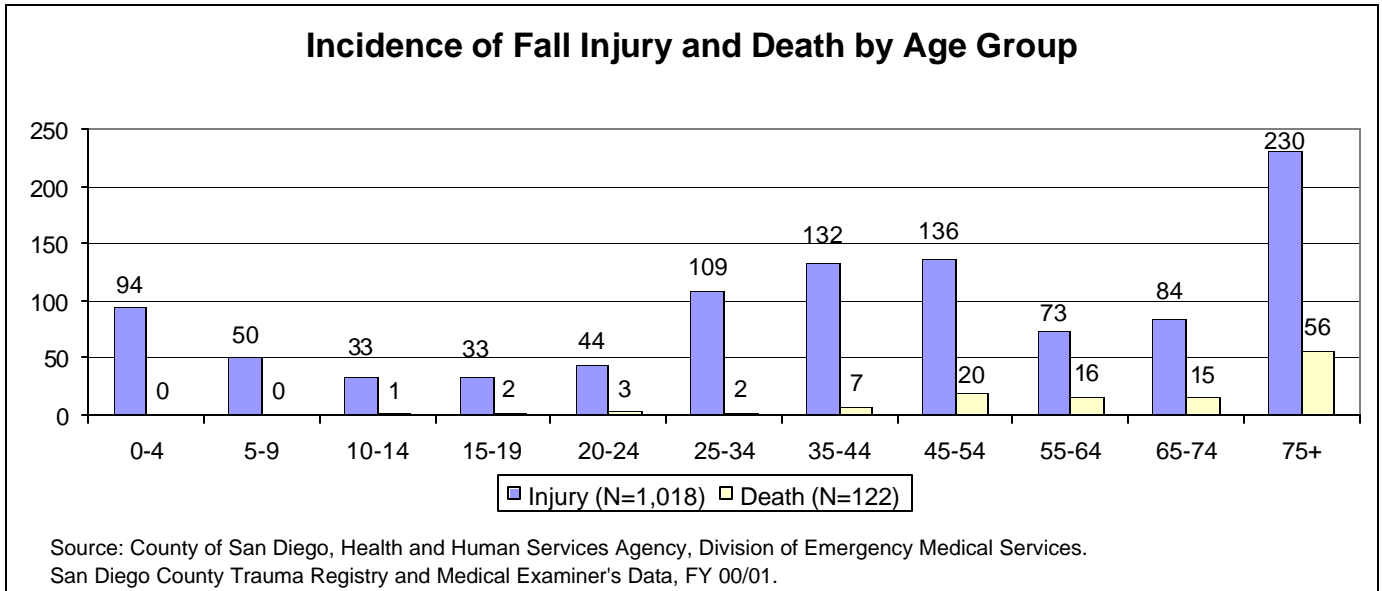
Incidence and Rate of Fall Injury and Death by Age Group and Gender

	Injury						Death						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate
0-4	58	48.93	36	31.15	94	40.15	0	*	0	*	0	*	94	40.15
5-9	32	27.63	18	16.55	50	22.26	0	*	0	*	0	*	50	22.26
10-14	21	19.34	12	11.63	33	15.59	1	*	0	*	1	*	34	16.06
15-19	24	23.48	9	9.37	33	16.64	2	*	0	*	2	*	35	17.65
20-24	32	24.88	12	12.17	44	19.36	3	*	0	*	3	*	47	20.68
25-34	88	37.53	21	10.13	109	24.68	2	*	0	*	2	*	111	25.13
35-44	108	43.33	24	10.21	132	27.26	7	2.81	0	*	7	1.45	139	28.70
45-54	109	57.14	27	14.53	136	36.12	16	8.39	4	*	20	5.31	156	41.43
55-64	52	44.94	21	17.22	73	30.71	12	10.37	4	*	16	6.73	89	37.44
65-74	48	60.07	36	38.14	84	48.19	9	11.26	6	6.36	15	8.61	99	56.80
75+	103	159.94	127	128.25	230	140.73	27	41.93	29	29.28	56	34.27	286	175.00
Total	675	44.75	343	23.40	1,018	34.23	79	5.24	43	2.93	122	4.10	1,140	38.33

*Rates not calculated on fewer than five incidents.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 00/01; Population Estimates, SANDAG

Nearly one out of every five adults 65 or older who was seriously injured from a fall died from that injury. Fifty-eight percent of all fall deaths were in this age group.



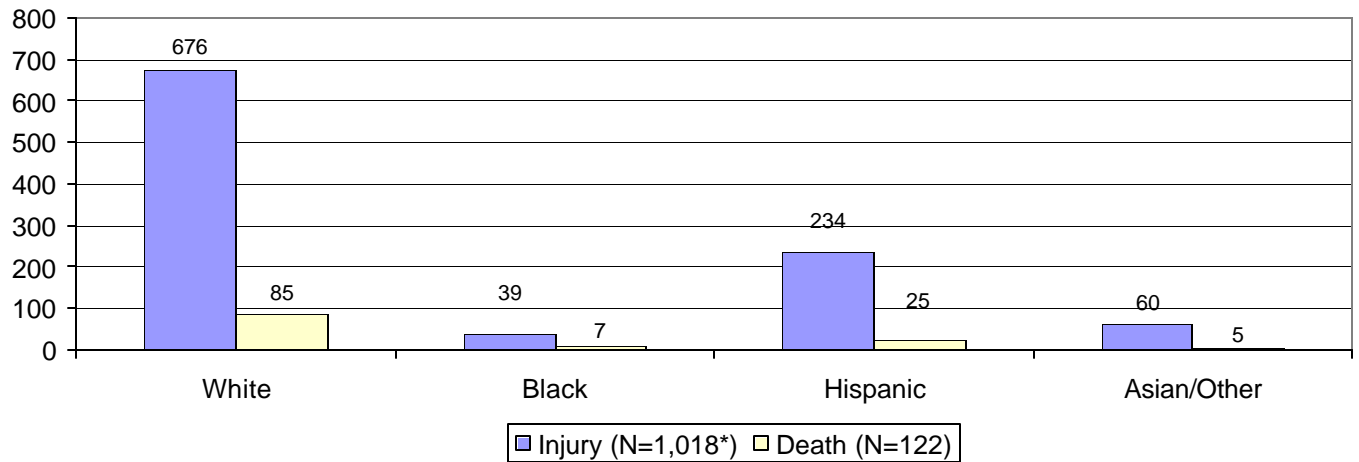
During FY 00/01, the White population had the highest incidence and rate of injuries and deaths resulting from a fall. Sixty six percent of injuries and 70% of deaths occurred in the White population.

Incidence of Fall Injury and Death by Race/Ethnicity



*Total includes nine injuries of unspecified race/ethnicity.
 Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 00/01.

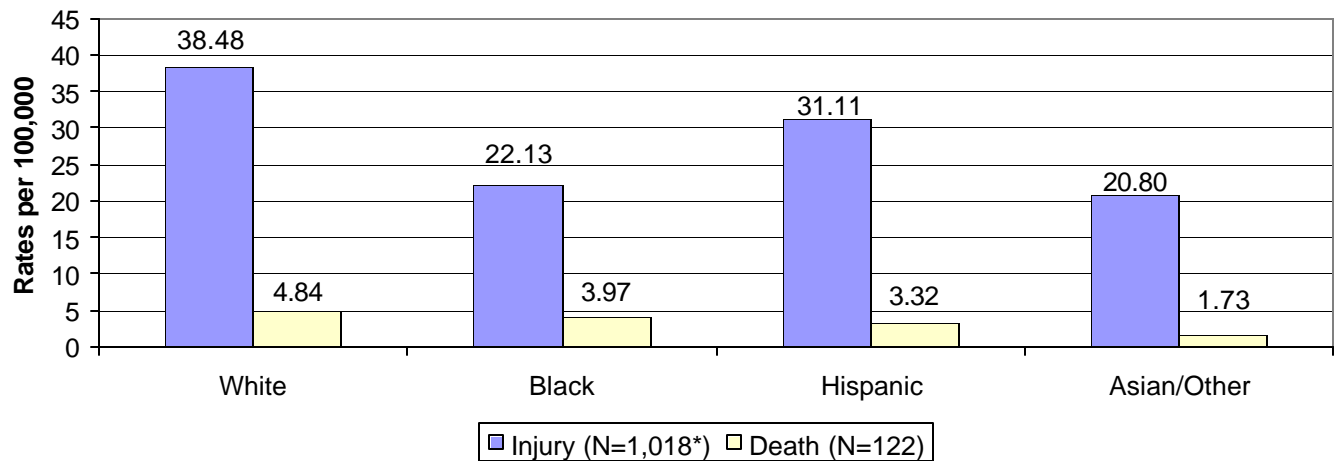
Incidence of Fall Injury and Death by Race/Ethnicity



*Total includes nine injuries of unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01.

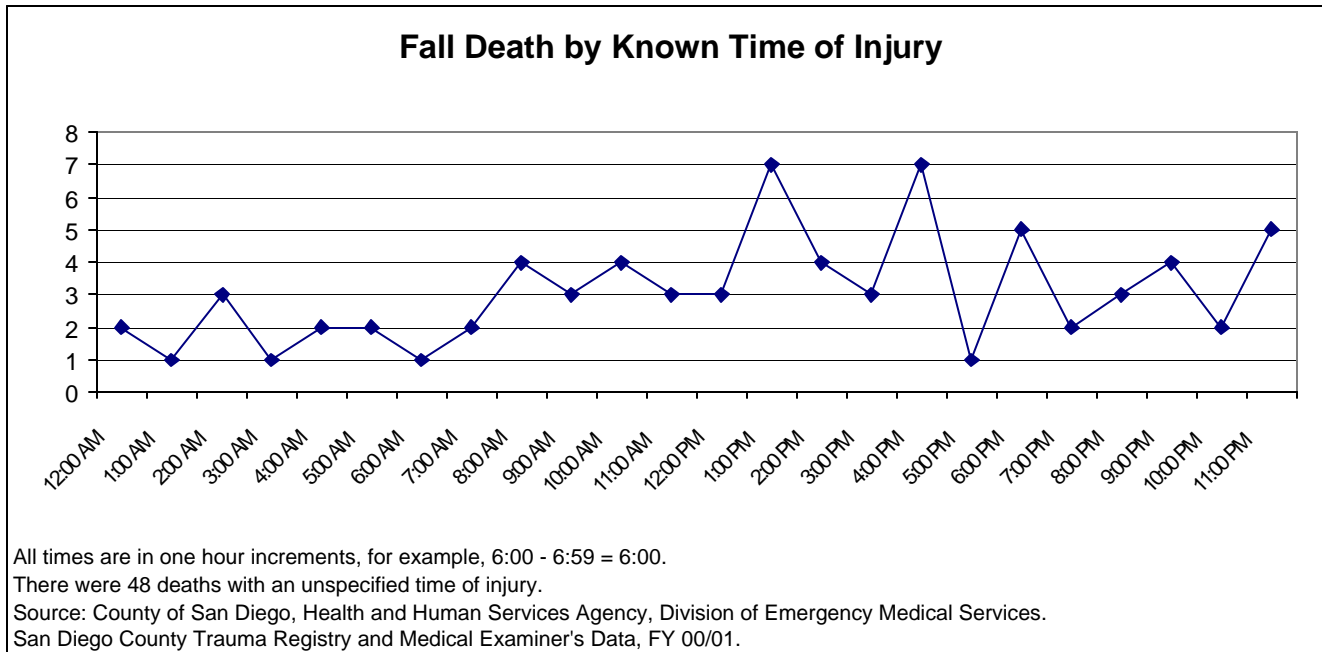
Rates of Fall Injury and Death by Race/Ethnicity

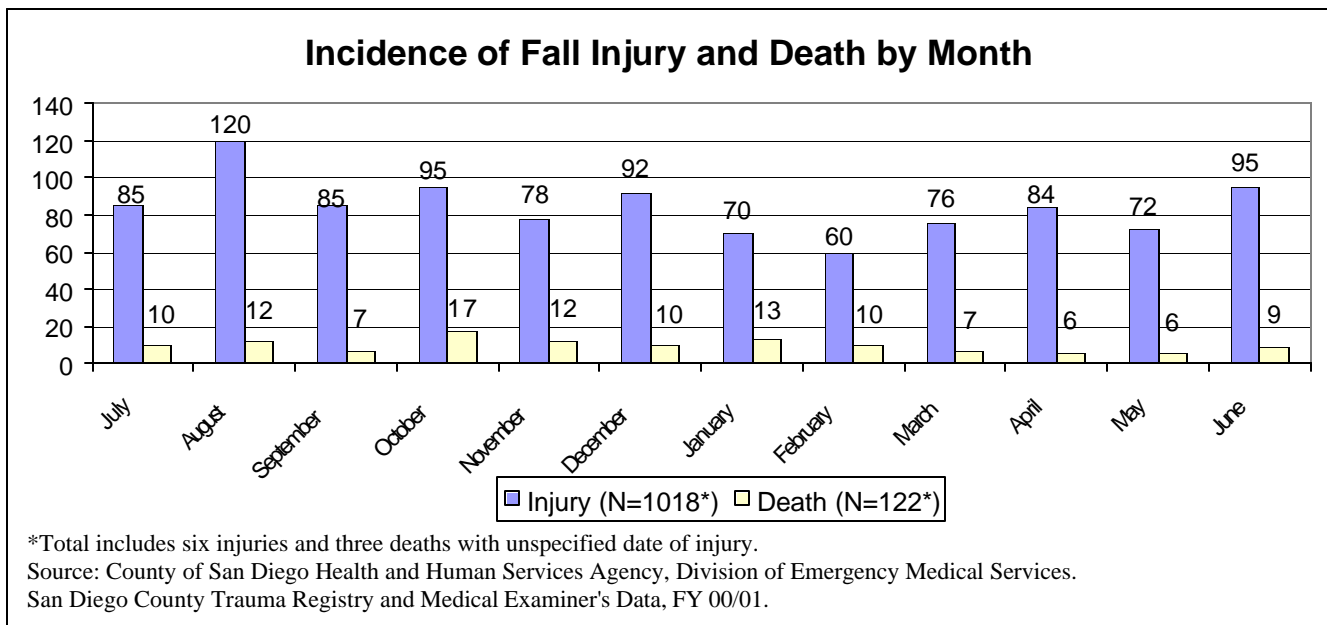
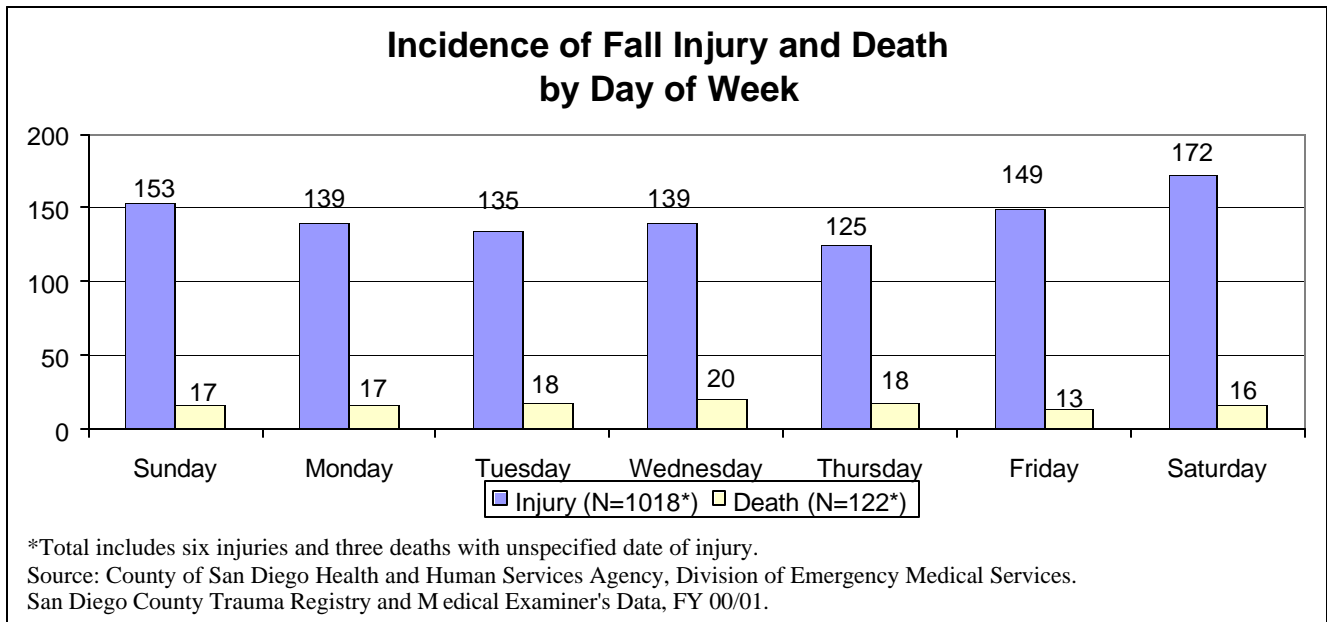


*Total includes nine injuries of unspecified race/ethnicity.

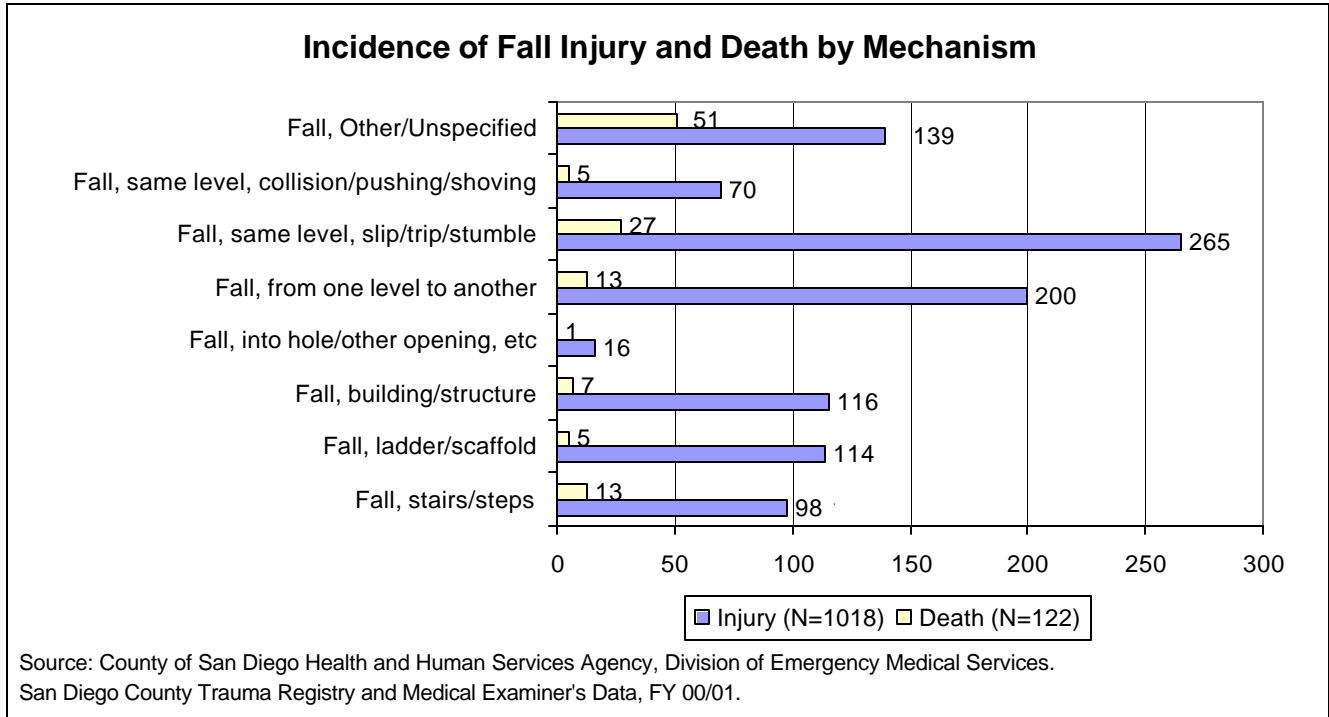
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 00/01.

The majority of fall related deaths occurred during the day and had their highest incidence during the 1:00 p.m. and 4:00 p.m. hours. Examining the data by day of week and month showed that injuries occurred with the greatest frequency on Saturdays and during the month of August.



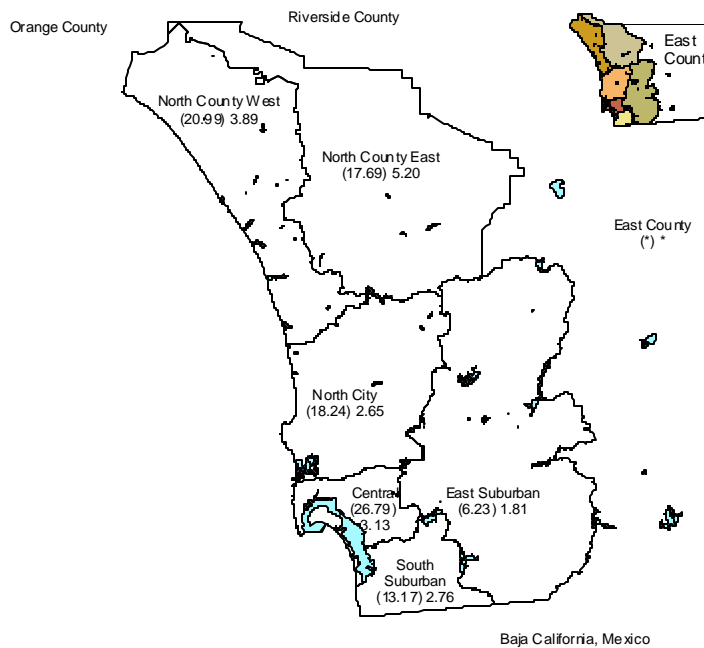


Nearly one-third of fall injuries (367) were specified as being on the same level, and 123 were from buildings or other structures. Forty two percent of deaths due to falls were categorized as other/unknown.



Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 52% of non-fatal fall injuries and for 77% of deaths from falls. The Central MSA had the highest rate of fall injury (26.79 per 100,000), while the death rate was highest in the North County East MSA (5.20 per 100,000). Population estimates for each of the MSAs can be found in Appendix B.

Fall Injury and Death Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.

*Rates not calculated on fewer than five incidents.

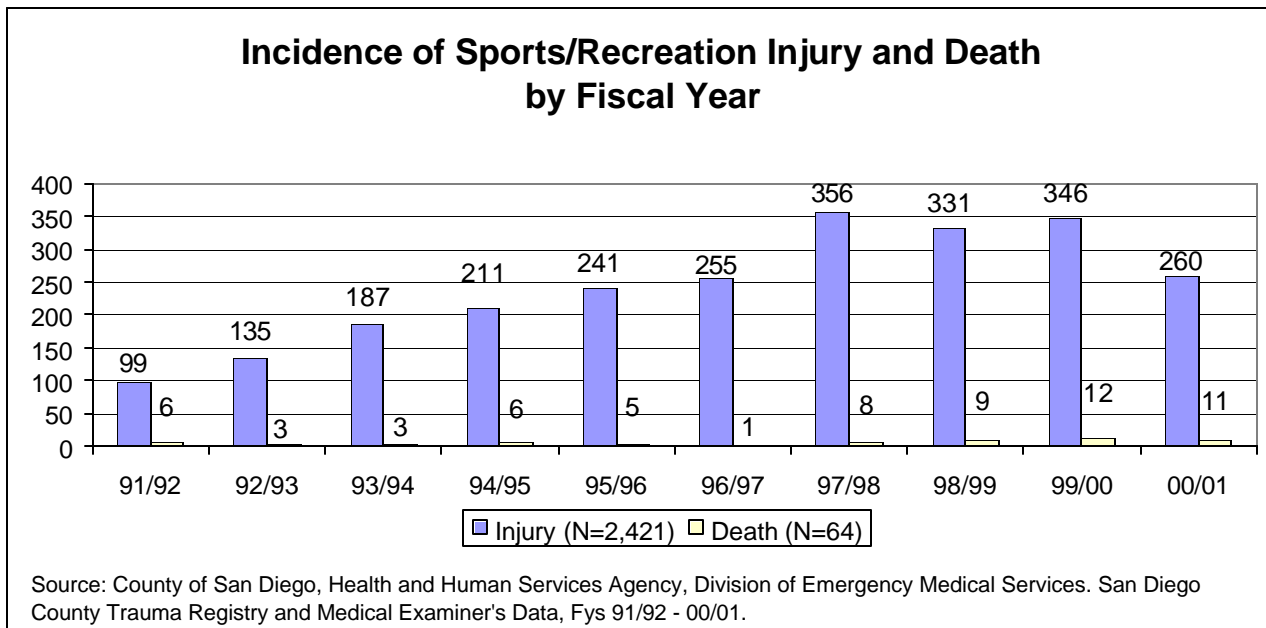
Please note there were 492 injuries and 28 deaths with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 00/01; Population estimates calculated from SANDAG estimates and forecasts. (Does not reflect 2000 census).

Sports and Recreation

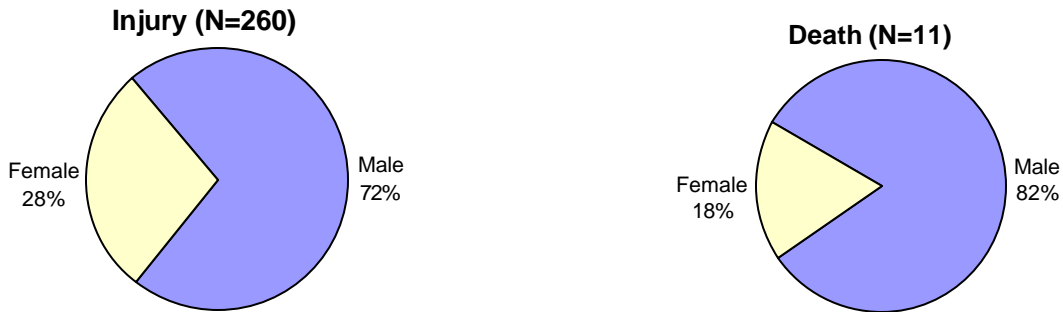
Sports and recreation injuries include: skates, roller blades, skiing, sleds, off road vehicles, riding animals, water sports, fall from playground equipment or injuries sustained while participating in sports (hit, kicked, struck). Sports and recreation did not account for a large percentage of injury deaths or years of potential life lost. On average, there was less than one death for every 23 severe injuries due to sports/recreation activity.

The number of injuries decreased 25% during FY 00/01 from the previous fiscal year, and the number of deaths decreased by one, from twelve to eleven. The change in the number of non-fatal injuries was statistically significant, but the change in the number of deaths was not.



Seventy two percent of injuries and 82% of deaths due to sports/recreation activity were to males. More than half of the severe injuries occurred among those under the age of 20.

Incidence of Sports/Recreation Injury and Death by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 00/01.

Incidence and Rate of Sports and Recreation Injury by Age Group and Gender

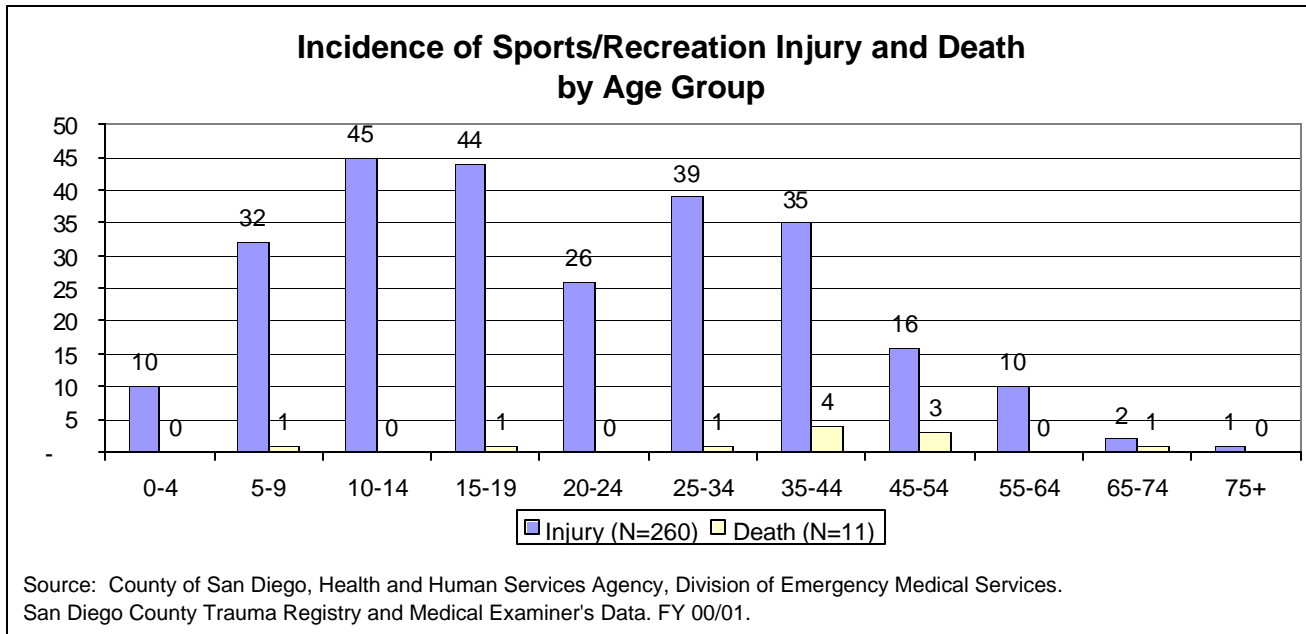
	Injury					
	Male		Female		Total	
	Incidence	Rate	Incidence	Rate	Incidence	Rate
0-4	9	7.59	1	*	10	4.27
5-9	21	18.13	11	10.11	32	14.25
10-14	34	31.32	11	10.66	45	21.25
15-19	33	32.28	11	11.45	44	22.19
20-24	17	13.21	9	9.13	26	11.44
25-34	32	13.65	7	3.38	39	8.83
35-44	25	10.03	10	4.26	35	7.23
45-54	6	3.15	10	5.38	16	4.25
55-64	6	5.18	4	*	10	4.21
65-74	2	*	0	*	2	*
75+	1	*	0	*	1	*
Total	186	12.33	74	5.05	260	8.74

*Rates not calculated on fewer than five incidents.

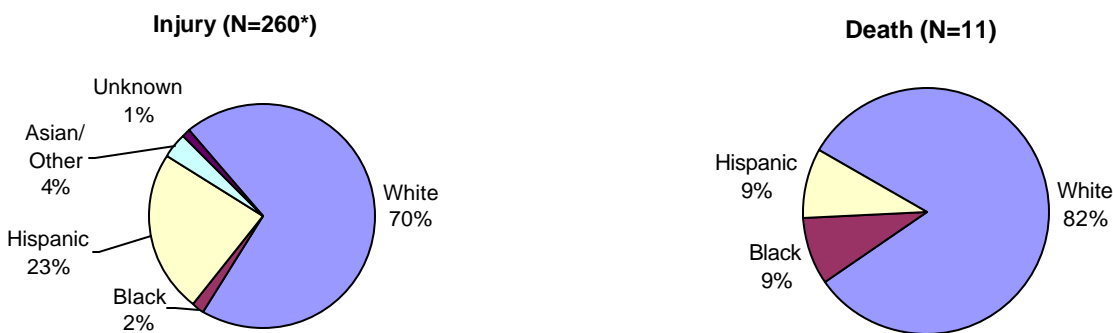
Due to low numbers deaths were not included in the table.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 00/01; Population Estimates, SANDAG

Sports/Recreation injuries occurred with the greatest frequency and rate in the 10 to 14 and 15 to 19 year age groups. Sports and recreation injuries accounted for 21% of non-fatal injuries in the 10-14 year age group. Whites had 70% of injuries as well as the highest rate of injury due to sports and recreation activities (10.30 per 100,000).

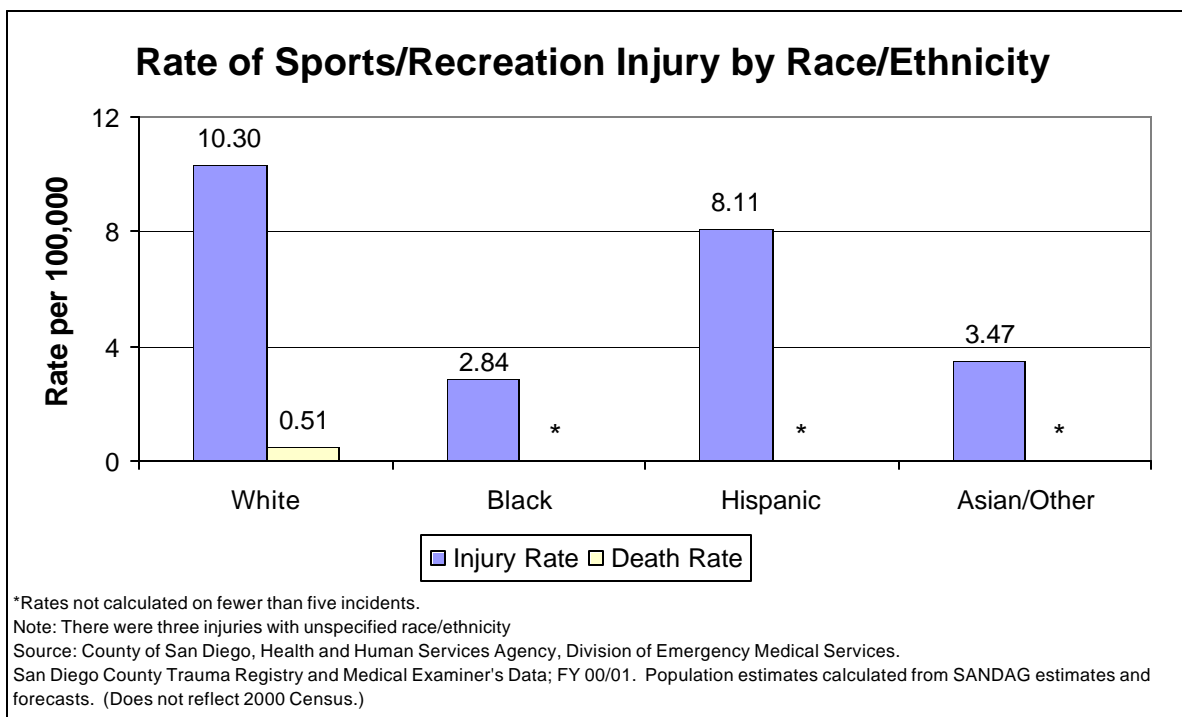
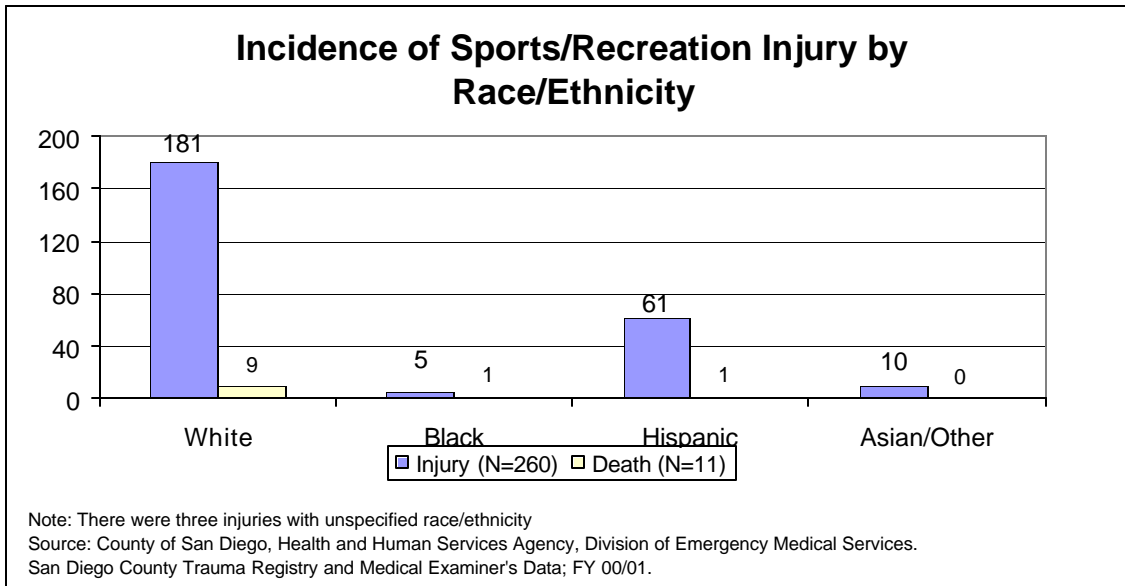


Incidence of Sports/Recreation Injury and Death by Race/Ethnicity

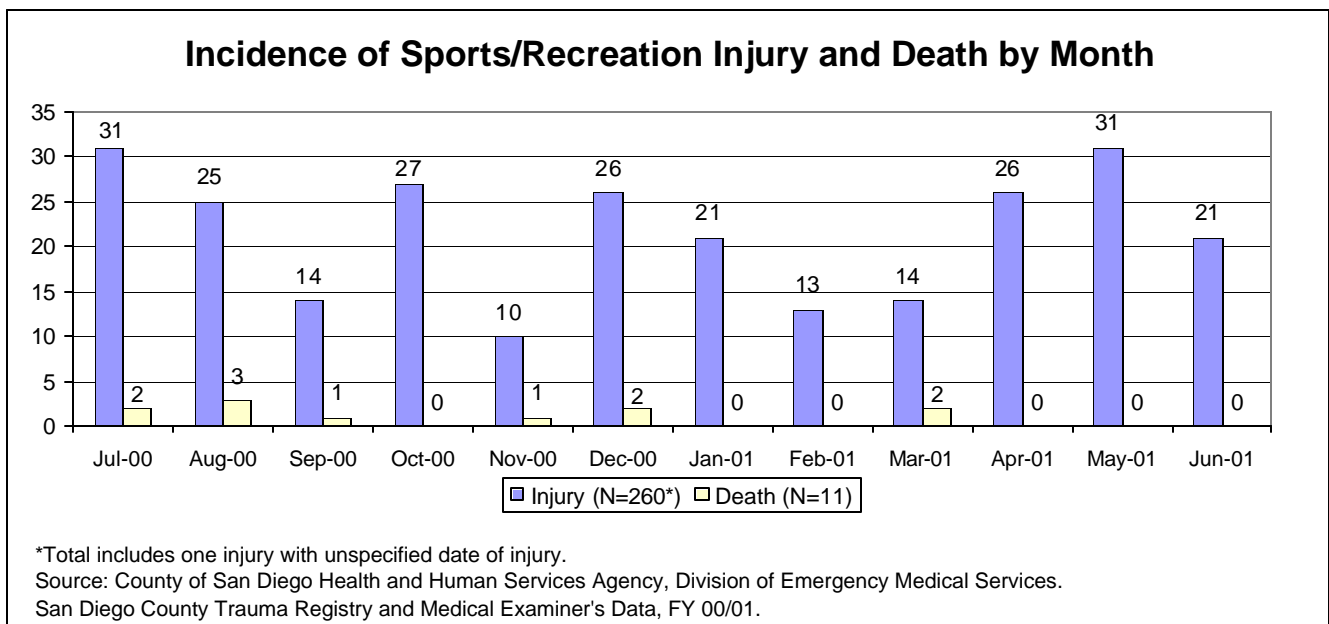
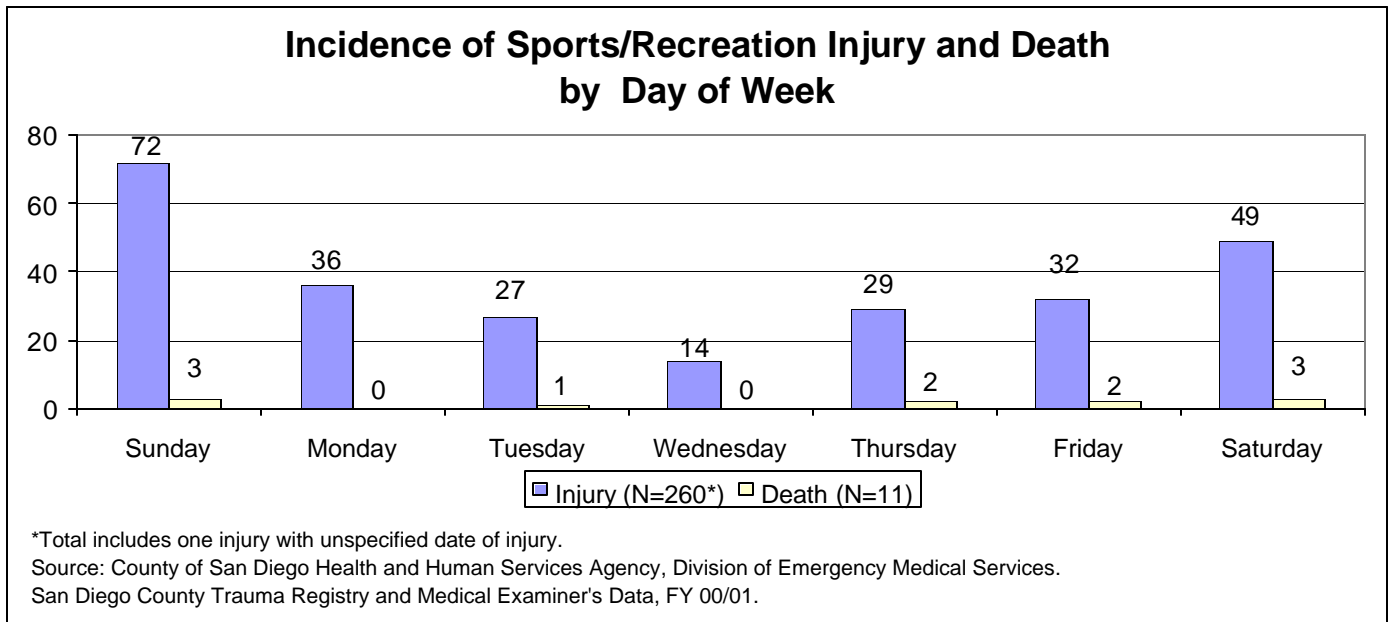


*Total includes three injuries with unspecified race/ethnicity.

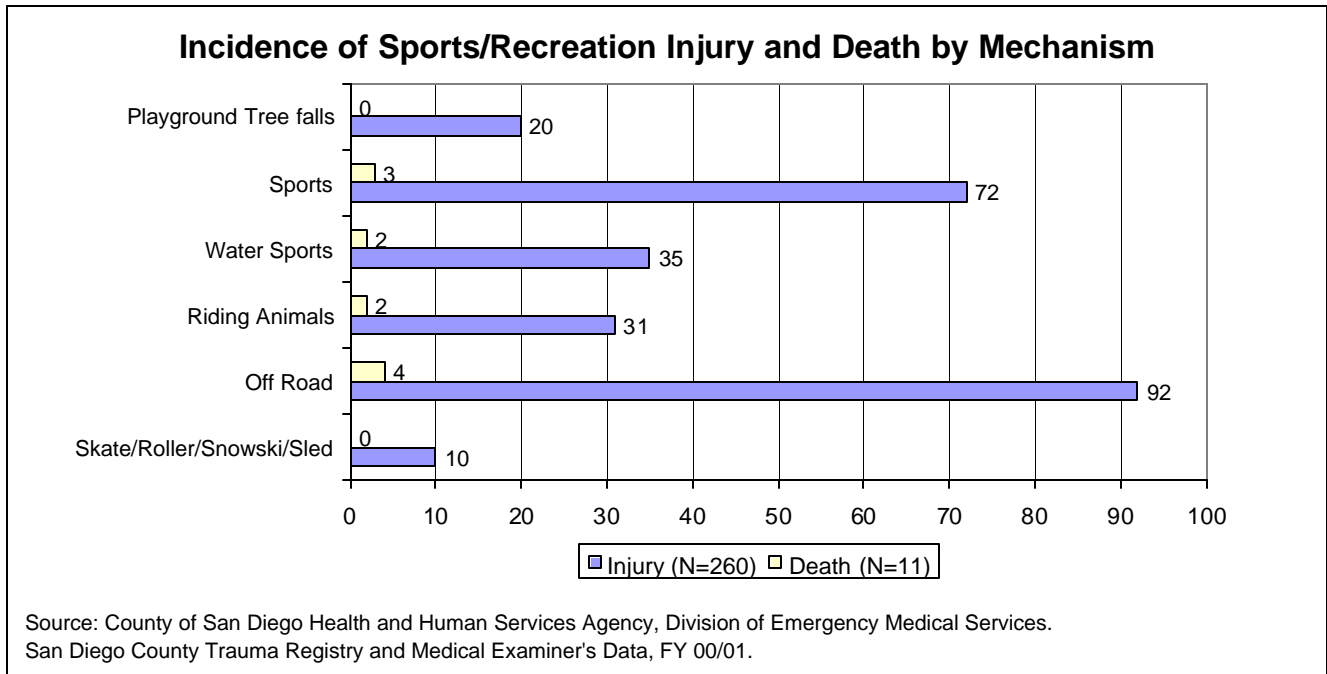
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 00/01.



Almost half (47%) of sports and recreation-related injuries occurred on weekends. By month, May and July had the highest number of injuries.

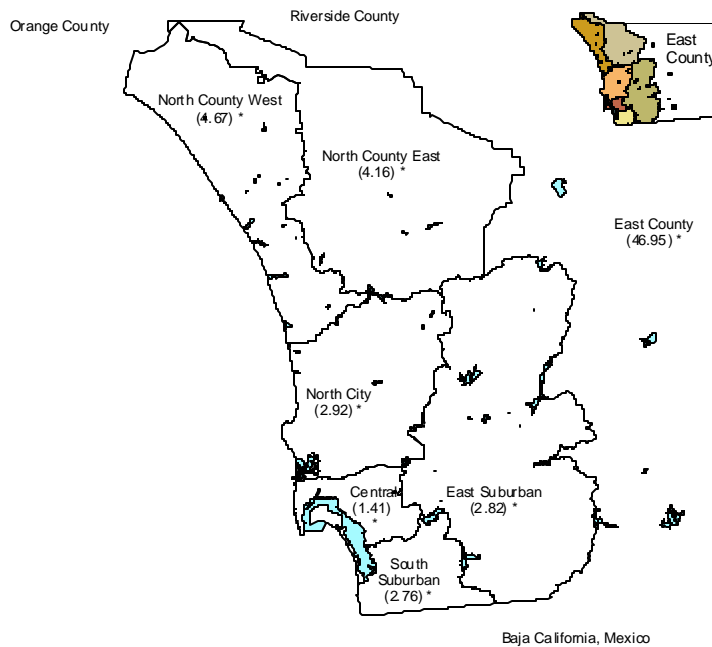


The highest number of injuries was due to off-road vehicle activity, followed by sports, water sports, and riding animals.



Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 38% of non-fatal sports and recreation injuries and for 73% of deaths. Injury rates were highest in the East county region of San Diego (46.95 per 100,000). Population estimates for each of the MSAs can be found in Appendix B.

Sports/Recreation Injury and Death Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.

*Rates not calculated on fewer than five incidents.

Please note there were 162 injuries and three deaths with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 99/00; Population estimates, San Diego Association of Governments (SANDAG)

Who is at Greatest Risk of Violent Injury and Death (Rates = Incidence per 100,000 Population)

- **Homicide:** The rate of homicide was highest among 20-24 year old males (14.77 per 100,000), with Blacks in this age group at greatest risk (45.55).
- **Assault:** Black males aged 15-19, 25-34, and 20-24 (217.76, 192.34, and 182.22, respectively) were at highest risk of sustaining a serious injury due to an assault, followed by Hispanic males 20-24 years of age (163.83).
- **Homicide by Firearm:** Blacks aged 25-34 (16.76) had the highest firearm homicide rate, although the highest rate for all race/ethnicities combined was seen in 15-19 year olds (6.56).
- **Unarmed Assault:** Blacks aged less than five years, 25-34 years, and 35-44 years were at greatest risk of serious injury due to an unarmed assault, with rates of 36.72, 26.81, and 21.12, respectively.
- **Assault by Firearm:** Blacks aged 20-24 and 15-19 (67.94 and 59.75) were most likely to be assaulted with a gun.
- **Assault by Stabbing:** Hispanics aged 15-19 and 20-24 (46.37 and 38.84) and Blacks 25-34 years of age (43.57) were at greatest risk of serious injury due to stabbing assault.
- **Suicide:** The traumatic suicide rate for White males 75 years and older (44.28) was 4.5 times higher than the rate for males of all ages (9.81).
- **Self Inflicted Injuries:** Hispanic males 15-19 and 25-34 years of age (15.77 and 10.77) were most likely to inflict nonfatal injuries on themselves.

Incidence and Rates of Homicide by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Pop	Incidence	Rate	Pop	Incidence	Rate	Pop	Incidence	Rate
Under 5									
White	51,377	3	*	48,835	2	*	100,213	5	9.73
Black	8,374	0	-	7,965	0	-	16,338	0	-
Hispanic	46,846	2	*	47,572	2	*	94,418	4	*
Asian/Other	11,935	1	*	11,196	0	-	23,131	1	*
Subtotal	118,532	8	6.75	115,568	5	4.22	234,100	13	10.97
5-9									
White	53,688	0	-	50,429	0	-	104,117	0	-
Black	8,142	0	-	7,810	0	-	15,952	0	-
Hispanic	42,628	0	-	39,725	0	-	82,353	0	-
Asian/Other	11,356	0	-	10,819	0	-	22,175	0	-
Subtotal	115,814	0	-	108,783	0	-	224,597	0	-
10-14									
White	52,488	0	-	50,053	0	-	102,540	0	-
Black	7,445	0	-	7,230	0	-	14,675	0	-
Hispanic	37,478	1	*	35,118	2	*	72,597	3	*
Asian/Other	11,158	0	-	10,747	0	-	21,905	0	-
Subtotal	108,569	2	*	103,148	2	*	211,717	4	*
15-19									
White	51,331	2	*	50,167	1	*	101,498	3	*
Black	8,266	3	*	6,796	0	-	15,062	3	*
Hispanic	31,706	5	15.77	28,676	1	*	60,381	6	18.92
Asian/Other	10,912	1	*	10,456	0	-	21,369	1	*
Subtotal	102,215	11	10.76	96,095	2	*	198,310	13	12.72
20-24									
White	71,845	3	*	52,763	0	-	124,607	3	*
Black	10,976	5	45.55	6,687	0	-	17,663	5	45.55
Hispanic	33,571	8	23.83	28,220	1	*	61,792	9	26.81
Asian/Other	12,251	2	*	10,925	0	-	23,176	2	*
Subtotal	128,643	19	14.77	98,595	1	*	227,238	20	15.55
25-34									
White	130,647	6	4.59	113,668	5	3.83	244,314	11	8.42
Black	16,117	6	37.23	13,718	1	*	29,836	7	43.43
Hispanic	64,992	9	13.85	56,184	0	-	121,176	9	13.85
Asian/Other	22,693	1	*	23,668	0	-	46,361	1	*
Subtotal	234,449	22	9.38	207,238	6	2.56	441,687	28	11.94
35-44									
White	154,943	6	3.87	144,463	2	*	299,407	8	5.16
Black	15,051	1	*	13,354	0	-	28,404	1	*
Hispanic	57,960	3	*	51,831	1	*	109,791	4	*
Asian/Other	21,303	1	*	25,364	1	*	46,667	2	*
Subtotal	249,257	11	4.41	235,012	4	*	484,269	15	6.02
45-54									
White	129,158	2	*	121,222	1	*	250,380	3	*
Black	9,916	1	*	9,335	1	*	19,252	2	*
Hispanic	35,764	0	-	35,491	0	-	71,255	0	-
Asian/Other	15,910	0	-	19,717	0	-	35,626	0	-
Subtotal	190,748	3	*	185,765	2	*	376,513	5	2.62
55-64									
White	82,709	2	*	83,723	1	*	166,432	3	*
Black	4,917	0	-	5,153	0	-	10,070	0	-
Hispanic	18,079	0	-	20,078	0	-	38,157	0	-
Asian/Other	10,017	0	-	13,032	0	-	23,049	0	-
Subtotal	115,722	2	*	121,986	1	*	237,708	3	*
65-74									
White	61,320	4	*	69,647	0	-	130,967	4	*
Black	2,572	0	-	2,937	0	-	5,509	0	-
Hispanic	9,929	2	*	12,671	0	-	22,600	2	*
Asian/Other	6,085	0	-	9,141	0	-	15,226	0	-
Subtotal	79,906	6	7.51	94,396	0	-	174,302	6	7.51
75+									
White	51,937	1	*	80,445	0	-	132,383	1	*
Black	1,342	0	-	2,137	0	-	3,479	0	-
Hispanic	7,221	0	-	10,538	0	-	17,758	0	-
Asian/Other	3,900	0	-	5,908	0	-	9,808	0	-
Subtotal	64,400	2	*	99,028	0	-	163,428	2	*
Total**	1,508,255	87	5.77	1,465,614	24	1.59	2,973,869	111	7.36

* Rate not calculated on less than five incidents. ** Totals include 1 male and 1 female of unspecified age. Subtotals by age include 5 males and one female with unspecified race/ethnicity

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 00/01. Pop. estimates from SANDAG estimates and forecasts. Does not reflect 2000 Census.

Incidence and Rates of Assault by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Pop	Incidence	Rate	Pop	Incidence	Rate	Pop	Incidence	Rate
Under 5									
White	51,377	5	9.73	48,835	3	*	100,213	8	7.98
Black	8,374	5	59.71	7,965	1	*	16,338	6	36.72
Hispanic	46,846	12	25.62	47,572	4	*	94,418	16	16.95
Asian/Other	11,935	1	*	11,196	2	*	23,131	3	*
Subtotal	118,532	23	19.40	115,568	10	8.65	234,100	33	14.10
5-9									
White	53,688	0	-	50,429	0	-	104,117	0	-
Black	8,142	0	-	7,810	0	-	15,952	2	*
Hispanic	42,628	2	*	39,725	0	-	82,353	0	-
Asian/Other	11,356	0	-	10,819	0	-	22,175	0	-
Subtotal	115,814	2	*	108,783	0	-	224,597	2	*
10-14									
White	52,488	1	*	50,053	0	-	102,540	1	*
Black	7,445	0	-	7,230	0	-	14,675	0	-
Hispanic	37,478	5	13.34	35,118	0	-	72,597	5	6.89
Asian/Other	11,158	0	-	10,747	0	-	21,905	0	-
Subtotal	108,569	6	5.53	103,148	0	-	211,717	6	2.83
15-19									
White	51,331	20	38.96	50,167	2	*	101,498	23	22.66
Black	8,266	18	217.76	6,796	0	-	15,062	18	119.51
Hispanic	31,706	51	160.85	28,676	5	17.44	60,381	56	92.74
Asian/Other	10,912	4	*	10,456	3	*	21,369	7	32.76
Subtotal	102,215	95	92.94	96,095	10	10.41	198,310	106	53.45
20-24									
White	71,845	27	37.58	52,763	4	*	124,607	31	24.88
Black	10,976	20	182.22	6,687	2	*	17,663	22	124.55
Hispanic	33,571	55	163.83	28,220	3	*	61,792	59	95.48
Asian/Other	12,251	12	97.95	10,925	0	-	23,176	12	51.78
Subtotal	128,643	115	89.39	98,595	9	9.13	227,238	125	55.01
25-34									
White	130,647	37	28.32	113,668	4	*	244,314	41	16.78
Black	16,117	31	192.34	13,718	2	*	29,836	33	110.60
Hispanic	64,992	60	92.32	56,184	4	*	121,176	64	52.82
Asian/Other	22,693	3	*	23,668	2	*	46,361	5	10.78
Subtotal	234,449	134	57.16	207,238	12	5.79	441,687	146	33.06
35-44									
White	154,943	46	29.69	144,463	8	5.54	299,407	54	18.04
Black	15,051	12	79.73	13,354	4	*	28,404	16	56.33
Hispanic	57,960	18	31.06	51,831	0	-	109,791	18	16.39
Asian/Other	21,303	6	28.17	25,364	2	*	46,667	8	17.14
Subtotal	249,257	83	33.30	235,012	14	5.96	484,269	97	20.03
45-54									
White	129,158	39	30.20	121,222	6	4.95	250,380	45	17.97
Black	9,916	12	121.02	9,335	1	*	19,252	13	67.53
Hispanic	35,764	14	39.15	35,491	2	*	71,255	16	22.45
Asian/Other	15,910	3	*	19,717	1	*	35,626	4	*
Subtotal	190,748	69	36.17	185,765	10	5.38	376,513	79	20.98
55-64									
White	82,709	13	15.72	83,723	1	*	166,432	14	8.41
Black	4,917	2	*	5,153	0	-	10,070	2	*
Hispanic	18,079	1	*	20,078	1	*	38,157	2	*
Asian/Other	10,017	2	*	13,032	0	-	23,049	2	*
Subtotal	115,722	18	15.55	121,986	2	*	237,708	20	8.41
65-74									
White	61,320	8	13.05	69,647	1	*	130,967	9	6.87
Black	2,572	1	*	2,937	0	-	5,509	1	*
Hispanic	9,929	6	60.43	12,671	0	-	22,600	6	26.55
Asian/Other	6,085	0	-	9,141	0	-	15,226	0	-
Subtotal	79,906	15	18.77	94,396	1	*	174,302	16	9.18
75+									
White	51,937	6	11.55	80,445	2	*	132,383	9	6.80
Black	1,342	0	-	2,137	0	-	3,479	0	-
Hispanic	7,221	0	-	10,538	0	-	17,758	0	-
Asian/Other	3,900	0	-	5,908	0	-	9,808	0	-
Subtotal	64,400	6	9.32	99,028	2	*	163,428	9	5.51
Total**	1,508,255	567	37.59	1,465,614	70	4.78	2,973,869	640	21.52

* Rate not calculated on less than five incidents. ** Totals include 1 male with an unspecified age and 3 victims with unspecified gender. Subtotals by age include 8 males of unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 00/01. Pop. estimates from SANDAG estimates and forecasts. Does not reflect 2000 Census.

Incidence and Rates of Homicide by Age Group, Race/Ethnicity and Mechanism

		Unarmed		Gunshot		Stabbing		Other Assault	
	Pop	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate
Under 5									
White	100,213	3	*	2	*	0	-	0	-
Black	16,338	0	-	0	-	0	-	0	-
Hispanic	94,418	3	*	1	*	0	-	0	-
Asian/Other	23,131	1	*	0	-	0	-	0	-
Subtotal	234,100	10	4.27	3	*	0	-	0	-
5-9									
White	104,117	0	-	0	-	0	-	0	-
Black	15,952	0	-	0	-	0	-	0	-
Hispanic	82,353	0	-	0	-	0	-	0	-
Asian/Other	22,175	0	-	0	-	0	-	0	-
Subtotal	224,597	0	-	0	-	0	-	0	-
10-14									
White	102,540	0	-	0	-	0	-	0	-
Black	14,675	0	-	0	-	0	-	0	-
Hispanic	72,597	0	-	0	-	2	*	1	*
Asian/Other	21,905	0	-	0	-	0	-	0	-
Subtotal	211,717	0	-	1	*	2	*	1	*
15-19									
White	101,498	0	-	3	*	0	-	0	-
Black	15,062	0	-	3	*	0	-	0	-
Hispanic	60,381	0	-	6	9.94	0	-	0	-
Asian/Other	21,369	0	-	1	*	0	-	0	-
Subtotal	198,310	0	-	13	6.56	0	-	0	-
20-24									
White	124,607	1	*	2	*	0	-	0	-
Black	17,663	0	-	4	*	1	*	0	-
Hispanic	61,792	0	-	5	8.09	4	*	0	-
Asian/Other	23,176	0	-	0	-	2	*	0	-
Subtotal	227,238	1	*	11	4.84	8	3.52	0	-
25-34									
White	244,314	0	-	5	2.05	3	*	3	*
Black	29,836	0	-	5	16.76	2	*	0	-
Hispanic	121,176	0	-	6	4.95	1	*	2	*
Asian/Other	46,361	0	-	0	-	0	-	1	*
Subtotal	441,687	0	-	16	3.62	6	1.36	6	1.36
35-44									
White	299,407	1	*	2	*	2	*	3	*
Black	28,404	0	-	1	*	0	-	0	-
Hispanic	109,791	0	-	2	*	2	*	0	-
Asian/Other	46,667	0	-	1	*	0	-	1	*
Subtotal	484,269	1	*	6	1.24	4	*	4	*
45-54									
White	250,380	0	-	2	*	0	-	1	*
Black	19,252	0	-	0	-	0	-	2	*
Hispanic	71,255	0	-	0	-	0	-	0	-
Asian/Other	35,626	0	-	0	-	0	-	0	-
Subtotal	376,513	0	-	2	*	0	-	3	*
55-64									
White	166,432	0	-	2	*	0	-	1	*
Black	10,070	0	-	0	-	0	-	0	-
Hispanic	38,157	0	-	0	-	0	-	0	-
Asian/Other	23,049	0	-	0	-	0	-	0	-
Subtotal	237,708	0	-	2	*	0	-	1	*
65-74									
White	130,967	0	-	3	*	0	-	1	*
Black	5,509	0	-	0	-	0	-	0	-
Hispanic	22,600	1	*	1	*	0	-	0	-
Asian/Other	15,226	0	-	0	-	0	-	0	-
Subtotal	174,302	1	*	4	*	0	-	1	*
75+									
White	132,383	0	-	0	-	0	-	1	*
Black	3,479	0	-	0	-	0	-	0	-
Hispanic	17,758	0	-	0	-	0	-	0	-
Asian/Other	9,808	0	-	0	-	0	-	0	-
Subtotal	163,428	0	-	0	-	0	-	2	*
Total**	2,973,869	13	0.44	59	1.98	21	0.71	18	0.61

* Rate not calculated on less than five incidents.

**Total includes one White stabbing victim with unspecified age and one gunshot victim with unspecified age and race/ethnicity. Subtotals include three unarmed assault, one gunshot, one stabbing and one other assault victims with unspecified race.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 00/01. Pop. estimates from SANDAG estimates and forecasts. Does not reflect 2000 Census.

Incidence and Rates of Assault by Age Group, Race/Ethnicity and Mechanism

	Pop	Unarmed		Gunshot		Stabbing		Other Assault	
		Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate
Under 5									
White	100,213	7	6.99	0	-	0	-	1	*
Black	16,338	6	36.72	0	-	0	-	0	-
Hispanic	94,418	13	13.77	1	*	1	*	1	*
Asian/Other	23,131	3	*	0	-	0	-	0	-
Subtotal	234,100	29	12.39	1	*	1	*	2	*
5-9									
White	104,117	0	-	0	-	0	-	0	-
Black	15,952	0	-	0	-	0	-	0	-
Hispanic	82,353	0	-	1	*	1	*	0	-
Asian/Other	22,175	0	-	0	-	0	-	0	-
Subtotal	224,597	0	-	1	*	1	*	0	-
10-14									
White	102,540	1	*	0	-	0	-	0	-
Black	14,675	0	-	0	-	0	-	0	-
Hispanic	72,597	2	*	1	*	0	-	2	*
Asian/Other	21,905	0	-	0	-	0	-	0	-
Subtotal	211,717	3	*	1	*	0	-	2	*
15-19									
White	101,498	9	8.87	3	*	8	7.88	3	*
Black	15,062	4	*	9	59.75	3	*	2	*
Hispanic	60,381	12	19.87	10	16.56	28	46.37	6	9.94
Asian/Other	21,369	1	*	2	*	3	*	1	*
Subtotal	198,310	26	13.11	25	12.61	42	21.18	13	6.56
20-24									
White	124,607	12	9.63	3	*	10	8.03	6	4.82
Black	17,663	4	*	12	67.94	3	*	3	*
Hispanic	61,792	15	24.27	10	16.18	24	38.84	10	16.18
Asian/Other	23,176	2	*	3	*	6	25.89	1	*
Subtotal	227,238	33	14.52	28	12.32	44	19.36	20	8.80
25-34									
White	244,314	19	7.78	4	*	9	3.68	9	3.68
Black	29,836	8	26.81	7	23.46	13	43.57	5	16.76
Hispanic	121,176	14	11.55	12	9.90	27	22.28	11	9.08
Asian/Other	46,361	2	*	1	*	0	-	2	*
Subtotal	441,687	44	9.96	24	5.43	51	11.55	27	6.11
35-44									
White	299,407	20	6.68	3	*	7	2.34	24	8.02
Black	28,404	6	21.12	3	*	5	17.60	2	*
Hispanic	109,791	8	7.29	1	*	5	4.55	4	*
Asian/Other	46,667	4	*	0	-	2	*	2	*
Subtotal	484,269	39	8.05	7	1.45	19	3.92	32	6.61
45-54									
White	250,380	22	8.79	2	*	8	3.20	13	5.19
Black	19,252	4	*	3	*	3	*	3	*
Hispanic	71,255	9	12.63	0	-	5	7.02	2	*
Asian/Other	35,626	1	*	0	-	2	*	1	*
Subtotal	376,513	37	9.83	5	1.33	18	4.78	19	5.05
55-64									
White	166,432	11	6.61	0	-	1	*	2	*
Black	10,070	1	*	0	-	0	-	1	*
Hispanic	38,157	2	*	0	-	0	-	0	-
Asian/Other	23,049	1	*	1	*	0	-	0	-
Subtotal	237,708	15	6.31	1	*	1	*	3	*
65-74									
White	130,967	3	*	2	*	1	*	3	*
Black	5,509	0	-	0	-	1	*	0	-
Hispanic	22,600	1	*	1	*	0	-	4	*
Asian/Other	15,226	0	-	0	-	0	-	0	-
Subtotal	174,302	4	*	3	*	2	*	7	4.02
75+									
White	132,383	4	*	2	*	0	-	3	*
Black	3,479	0	-	0	-	0	-	0	-
Hispanic	17,758	0	-	0	-	0	-	0	-
Asian/Other	9,808	0	-	0	-	0	-	0	-
Subtotal	163,428	4	*	2	*	0	-	3	*
Total**	2,973,869	234	7.87	98	3.30	179	6.02	129	4.34

* Rate not calculated on less than five incidents. ** Totals include one Hispanic other assault victim with unspecified age. Subtotals by age include 3 unarmed assault victims, 1 gunshot victim, 3 stabbing victims and 1 other assault victim with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 00/01. Pop. estimates from SANDAG estimates and forecasts. Does not reflect 2000 Census.

Incidence and Rates of Suicide by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Pop	Incidence	Rate	Pop	Incidence	Rate	Pop	Incidence	Rate
Under 5									
White	51,377	1	*	48,835	0	-	100,213	1	*
Black	8,374	0	-	7,965	0	-	16,338	0	-
Hispanic	46,846	0	-	47,572	0	-	94,418	0	-
Asian/Other	11,935	0	-	11,196	0	-	23,131	0	-
Subtotal	118,532	1	*	115,568	0	-	234,100	1	*
5-9									
White	53,688	0	-	50,429	0	-	104,117	0	-
Black	8,142	0	-	7,810	0	-	15,952	0	-
Hispanic	42,628	0	-	39,725	0	-	82,353	0	-
Asian/Other	11,356	0	-	10,819	0	-	22,175	0	-
Subtotal	115,814	0	-	108,783	0	-	224,597	0	-
10-14									
White	52,488	0	-	50,053	0	-	102,540	0	-
Black	7,445	0	-	7,230	1	*	14,675	1	*
Hispanic	37,478	0	-	35,118	0	-	72,597	0	-
Asian/Other	11,158	1	*	10,747	0	-	21,905	1	*
Subtotal	108,569	1	*	103,148	1	*	211,717	2	*
15-19									
White	51,331	5	9.74	50,167	0	-	101,498	5	4.93
Black	8,266	1	*	6,796	0	-	15,062	1	*
Hispanic	31,706	1	*	28,676	0	-	60,381	1	*
Asian/Other	10,912	1	*	10,456	0	-	21,369	1	*
Subtotal	102,215	8	7.83	96,095	0	-	198,310	8	4.03
20-24									
White	71,845	9	12.53	52,763	0	-	124,607	9	7.22
Black	10,976	0	-	6,687	0	-	17,663	0	-
Hispanic	33,571	1	*	28,220	1	*	61,792	2	*
Asian/Other	12,251	0	-	10,925	0	-	23,176	0	-
Subtotal	128,643	10	7.77	98,595	1	*	227,238	11	4.84
25-34									
White	130,647	15	11.48	113,668	7	6.16	244,314	22	9.00
Black	16,117	0	-	13,718	0	-	29,836	0	-
Hispanic	64,992	1	*	56,184	0	-	121,176	1	*
Asian/Other	22,693	1	*	23,668	2	*	46,361	3	*
Subtotal	234,449	17	7.25	207,238	9	4.34	441,687	26	5.89
35-44									
White	154,943	19	12.26	144,463	4	*	299,407	23	7.68
Black	15,051	5	33.22	13,354	0	-	28,404	5	17.60
Hispanic	57,960	1	*	51,831	0	-	109,791	1	*
Asian/Other	21,303	1	*	25,364	0	-	46,667	1	*
Subtotal	249,257	26	10.43	235,012	4	*	484,269	30	6.19
45-54									
White	129,158	22	17.03	121,222	11	9.07	250,380	33	13.18
Black	9,916	0	-	9,335	0	-	19,252	0	-
Hispanic	35,764	0	-	35,491	0	-	71,255	0	-
Asian/Other	15,910	3	*	19,717	0	-	35,626	3	*
Subtotal	190,748	25	13.11	185,765	11	5.92	376,513	36	9.56
55-64									
White	82,709	19	22.97	83,723	4	*	166,432	23	13.82
Black	4,917	0	-	5,153	0	-	10,070	0	-
Hispanic	18,079	2	*	20,078	0	-	38,157	2	*
Asian/Other	10,017	0	-	13,032	0	-	23,049	0	-
Subtotal	115,722	21	18.15	121,986	5	4.10	237,708	26	10.94
65-74									
White	61,320	14	22.83	69,647	2	*	130,967	16	12.22
Black	2,572	0	-	2,937	0	-	5,509	0	-
Hispanic	9,929	0	-	12,671	0	-	22,600	0	-
Asian/Other	6,085	0	-	9,141	0	-	15,226	0	-
Subtotal	79,906	14	17.52	94,396	2	*	174,302	16	9.18
75+									
White	51,937	23	44.28	80,445	4	*	132,383	27	20.40
Black	1,342	0	-	2,137	0	-	3,479	0	-
Hispanic	7,221	2	*	10,538	0	-	17,758	2	*
Asian/Other	3,900	0	-	5,908	0	-	9,808	0	-
Subtotal	64,400	25	38.82	99,028	4	*	163,428	29	17.74
Total**	1,508,255	148	9.81	1,465,614	37	2.52	2,973,869	185	6.22

* Rate not calculated on less than five incidents. ** Totals and subtotals include 1 female with an unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 00/01. Pop. estimates from SANDAG estimates and forecasts. Does not reflect 2000 Census.

Incidence and Rates of Self Inflicted Injury by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Pop	Incidence	Rate	Pop	Incidence	Rate	Pop	Incidence	Rate
Under 5									
White	51,377	1	*	48,835	0	-	100,213	1	*
Black	8,374	0	-	7,965	0	-	16,338	0	-
Hispanic	46,846	1	*	47,572	0	-	94,418	1	*
Asian/Other	11,935	0	-	11,196	0	-	23,131	0	-
Subtotal	118,532	2	*	115,568	0	-	234,100	2	*
5-9									
White	53,688	0	-	50,429	0	-	104,117	0	-
Black	8,142	0	-	7,810	0	-	15,952	0	-
Hispanic	42,628	0	-	39,725	0	-	82,353	0	-
Asian/Other	11,356	0	-	10,819	0	-	22,175	0	-
Subtotal	115,814	0	-	108,783	0	-	224,597	0	-
10-14									
White	52,488	0	-	50,053	1	*	102,540	1	*
Black	7,445	0	-	7,230	0	-	14,675	0	-
Hispanic	37,478	1	*	35,118	0	-	72,597	1	*
Asian/Other	11,158	0	-	10,747	0	-	21,905	0	-
Subtotal	108,569	1	*	103,148	1	*	211,717	2	*
15-19									
White	51,331	4	*	50,167	2	*	101,498	6	5.91
Black	8,266	2	*	6,796	0	-	15,062	2	*
Hispanic	31,706	5	15.77	28,676	0	-	60,381	5	8.28
Asian/Other	10,912	2	*	10,456	0	-	21,369	2	*
Subtotal	102,215	13	12.72	96,095	2	*	198,310	15	7.56
20-24									
White	71,845	5	6.96	52,763	1	*	124,607	6	4.82
Black	10,976	0	-	6,687	0	-	17,663	0	-
Hispanic	33,571	4	*	28,220	2	*	61,792	6	9.71
Asian/Other	12,251	1	*	10,925	1	*	23,176	2	*
Subtotal	128,643	10	7.77	98,595	4	*	227,238	14	6.16
25-34									
White	130,647	6	4.59	113,668	2	*	244,314	8	3.27
Black	16,117	2	*	13,718	0	-	29,836	2	*
Hispanic	64,992	7	10.77	56,184	1	*	121,176	8	6.60
Asian/Other	22,693	0	-	23,668	1	*	46,361	1	*
Subtotal	234,449	15	6.40	207,238	4	*	441,687	19	4.30
35-44									
White	154,943	6	3.87	144,463	5	3.46	299,407	11	3.67
Black	15,051	2	*	13,354	0	-	28,404	2	*
Hispanic	57,960	2	*	51,831	0	-	109,791	2	*
Asian/Other	21,303	0	-	25,364	0	-	46,667	0	-
Subtotal	249,257	11	4.41	235,012	5	2.13	484,269	16	3.30
45-54									
White	129,158	6	4.65	121,222	0	-	250,380	6	2.40
Black	9,916	0	-	9,335	0	-	19,252	0	-
Hispanic	35,764	0	-	35,491	0	-	71,255	0	-
Asian/Other	15,910	1	*	19,717	0	-	35,626	1	*
Subtotal	190,748	7	3.67	185,765	0	-	376,513	7	1.86
55-64									
White	82,709	0	-	83,723	1	*	166,432	1	*
Black	4,917	1	*	5,153	0	-	10,070	1	*
Hispanic	18,079	0	-	20,078	0	-	38,157	0	-
Asian/Other	10,017	1	*	13,032	0	-	23,049	1	*
Subtotal	115,722	4	*	121,986	1	*	237,708	5	2.10
65-74									
White	61,320	1	*	69,647	2	*	130,967	3	*
Black	2,572	0	-	2,937	0	-	5,509	0	-
Hispanic	9,929	1	*	12,671	0	-	22,600	1	*
Asian/Other	6,085	0	-	9,141	0	-	15,226	0	-
Subtotal	79,906	2	*	94,396	2	*	174,302	4	*
75+									
White	51,937	3	*	80,445	0	-	132,383	3	*
Black	1,342	0	-	2,137	0	-	3,479	0	-
Hispanic	7,221	0	-	10,538	0	-	17,758	0	-
Asian/Other	3,900	0	-	5,908	0	-	9,808	0	-
Subtotal	64,400	3	*	99,028	0	-	163,428	3	*
Total**	1,508,255	68	4.51	1,465,614	19	1.30	2,973,869	87	2.93

* Rate not calculated on less than five incidents.

** Subtotals by age include 3 males with unspecified race/ethnicities.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 00/01. Pop. estimates from SANDAG estimates and forecasts. Does not reflect 2000 Census.

Who is at Greatest Risk of Transportation Related Injury and Death (Rates = Incidence per 100,000 Population)

- **Motor Vehicle Occupant Death:** Hispanic males aged 20-24 (38.72) and Black males aged 35-44 (33.22) were at highest risk of dying in a motor vehicle occupant crash.
- **Motor Vehicle Occupant Injury:** Among males, Hispanics aged 20-24 and 25-34 (178.73 and 121.55) had the highest rates of severe injury from MVO crashes, followed by 15-19 year old Blacks (120.98). Among females, Hispanics 65-74 years of age and 20-24 year old Blacks had the highest rates (149.95 and 149.54, respectively).
- **Motorcycle Crash Death:** Incidence was too low to calculate all age, gender, and race/ethnicity breakdowns. **No Table Appears.**
- **Motorcycle Crash Injury:** White males aged 20-24 (62.63) and 25-34 (33.68), and 25-34 year old Black males (37.23) were at greatest risk of a severe injury due to a motorcycle crash.
- **Pedalcycle Crash Death:** Incidence was too low to calculate all age, gender, and race/ethnicity breakdowns. **No Table Appears.**
- **Pedalcycle Crash Injury:** White and Hispanic males aged 10-14 (38.10 and 26.68) were at highest risk of severe injury following a pedalcycle crash.
- **Pedestrian Death:** Due to low incidence of pedestrian deaths, rates could only be calculated for White and Hispanic males aged 25-34 (6.12 and 7.69) and White males aged 75 and older (9.63). **No Table Appears.**
- **Pedestrian Injury:** The highest rates of pedestrian injury were among Black males 35-44 years of age (39.86), followed by Hispanic males younger than five years (34.15).

Incidence and Rates of MVO Death by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Pop	Incidence	Rate	Pop	Incidence	Rate	Pop	Incidence	Rate
Under 5									
White	51,377	0	-	48,835	0	-	100,213	0	-
Black	8,374	0	-	7,965	0	-	16,338	0	-
Hispanic	46,846	1	*	47,572	0	-	94,418	1	*
Asian/Other	11,935	0	-	11,196	1	*	23,131	1	*
Subtotal	118,532	1	*	115,568	1	*	234,100	2	*
5-9									
White	53,688	0	-	50,429	1	*	104,117	1	*
Black	8,142	0	-	7,810	1	*	15,952	1	*
Hispanic	42,628	0	-	39,725	0	-	82,353	0	-
Asian/Other	11,356	0	-	10,819	0	-	22,175	0	-
Subtotal	115,814	0	-	108,783	2	*	224,597	2	*
10-14									
White	52,488	0	-	50,053	0	-	102,540	0	-
Black	7,445	1	*	7,230	0	-	14,675	1	*
Hispanic	37,478	1	*	35,118	0	-	72,597	1	*
Asian/Other	11,158	0	-	10,747	1	*	21,905	1	*
Subtotal	108,569	2	*	103,148	1	*	211,717	3	*
15-19									
White	51,331	9	17.53	50,167	5	9.97	101,498	14	13.79
Black	8,266	0	-	6,796	0	-	15,062	0	-
Hispanic	31,706	7	22.08	28,676	0	-	60,381	7	11.59
Asian/Other	10,912	1	*	10,456	0	-	21,369	1	*
Subtotal	102,215	19	18.59	96,095	5	5.20	198,310	24	12.10
20-24									
White	71,845	16	22.27	52,763	6	11.37	124,607	22	17.66
Black	10,976	1	*	6,687	0	-	17,663	1	*
Hispanic	33,571	13	38.72	28,220	3	*	61,792	16	25.89
Asian/Other	12,251	2	*	10,925	0	-	23,176	2	*
Subtotal	128,643	33	25.65	98,595	10	10.14	227,238	43	18.92
25-34									
White	130,647	13	9.95	113,668	4	*	244,314	17	6.96
Black	16,117	2	*	13,718	0	-	29,836	2	*
Hispanic	64,992	6	9.23	56,184	1	*	121,176	7	5.78
Asian/Other	22,693	1	*	23,668	0	-	46,361	1	*
Subtotal	234,449	24	10.24	207,238	5	2.41	441,687	29	6.57
35-44									
White	154,943	13	8.39	144,463	4	*	299,407	17	5.68
Black	15,051	5	33.22	13,354	1	*	28,404	6	21.12
Hispanic	57,960	5	8.63	51,831	1	*	109,791	6	5.46
Asian/Other	21,303	2	*	25,364	0	-	46,667	2	*
Subtotal	249,257	27	10.83	235,012	6	2.55	484,269	33	6.81
45-54									
White	129,158	8	6.19	121,222	3	*	250,380	11	4.39
Black	9,916	1	*	9,335	0	-	19,252	1	*
Hispanic	35,764	4	*	35,491	1	*	71,255	5	7.02
Asian/Other	15,910	0	-	19,717	0	-	35,626	0	-
Subtotal	190,748	14	7.34	185,765	4	*	376,513	18	4.78
55-64									
White	82,709	9	10.88	83,723	0	-	166,432	9	5.41
Black	4,917	0	-	5,153	0	-	10,070	0	-
Hispanic	18,079	5	27.66	20,078	0	-	38,157	5	13.10
Asian/Other	10,017	1	*	13,032	1	*	23,049	2	*
Subtotal	115,722	16	13.83	121,986	1	*	237,708	17	7.15
65-74									
White	61,320	8	13.05	69,647	3	*	130,967	11	8.40
Black	2,572	0	-	2,937	0	-	5,509	0	-
Hispanic	9,929	3	*	12,671	0	-	22,600	3	*
Asian/Other	6,085	0	-	9,141	1	*	15,226	1	*
Subtotal	79,906	12	15.02	94,396	4	*	174,302	16	9.18
75+									
White	51,937	11	21.18	80,445	9	11.19	132,383	20	15.11
Black	1,342	1	*	2,137	0	-	3,479	1	*
Hispanic	7,221	0	-	10,538	0	-	17,758	0	-
Asian/Other	3,900	0	-	5,908	0	-	9,808	0	-
Subtotal	64,400	13	20.19	99,028	9	9.09	163,428	22	13.46
Total**	1,508,255	163	10.81	1,465,614	48	3.28	2,973,869	211	7.10

* Rate not calculated on less than five incidents.

** Totals include 2 males with unspecified age. Subtotals by age include 11 males and 1 female with an unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 00/01. Pop. estimates from SANDAG estimates and forecasts. Does not reflect 2000 Census.

Incidence and Rates of MVO Injury by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Pop	Incidence	Rate	Pop	Incidence	Rate	Pop	Incidence	Rate
Under 5									
White	51,377	5	9.73	48,835	4	*	100,213	9	8.98
Black	8,374	4	*	7,965	0	-	16,338	4	*
Hispanic	46,846	15	32.02	47,572	6	12.61	94,418	21	22.24
Asian/Other	11,935	0	-	11,196	1	*	23,131	1	*
Subtotal	118,532	24	20.25	115,568	11	9.52	234,100	35	14.95
5-9									
White	53,688	11	20.49	50,429	3	*	104,117	14	13.45
Black	8,142	1	*	7,810	3	*	15,952	4	*
Hispanic	42,628	17	39.88	39,725	11	27.69	82,353	29	35.21
Asian/Other	11,356	0	-	10,819	1	*	22,175	1	*
Subtotal	115,814	30	25.90	108,783	18	16.55	224,597	49	21.82
10-14									
White	52,488	4	*	50,053	6	11.99	102,540	10	9.75
Black	7,445	0	-	7,230	2	*	14,675	2	*
Hispanic	37,478	6	16.01	35,118	14	39.87	72,597	20	27.55
Asian/Other	11,158	2	*	10,747	3	*	21,905	5	22.83
Subtotal	108,569	13	11.97	103,148	26	25.21	211,717	39	18.42
15-19									
White	51,331	48	93.51	50,167	34	67.77	101,498	82	80.79
Black	8,266	10	120.98	6,796	4	*	15,062	14	92.95
Hispanic	31,706	28	88.31	28,676	29	101.13	60,381	57	94.40
Asian/Other	10,912	5	45.82	10,456	8	76.51	21,369	13	60.84
Subtotal	102,215	93	90.98	96,095	76	79.09	198,310	169	85.22
20-24									
White	71,845	57	79.34	52,763	42	79.60	124,607	99	79.45
Black	10,976	6	54.66	6,687	10	149.54	17,663	16	90.58
Hispanic	33,571	60	178.73	28,220	24	85.05	61,792	84	135.94
Asian/Other	12,251	8	65.30	10,925	9	82.38	23,176	17	73.35
Subtotal	128,643	132	102.61	98,595	87	88.24	227,238	219	96.37
25-34									
White	130,647	71	54.34	113,668	54	47.51	244,314	125	51.16
Black	16,117	14	86.86	13,718	6	43.74	29,836	20	67.03
Hispanic	64,992	79	121.55	56,184	49	87.21	121,176	128	105.63
Asian/Other	22,693	16	70.51	23,668	13	54.93	46,361	29	62.55
Subtotal	234,449	184	78.48	207,238	123	59.35	441,687	307	69.51
35-44									
White	154,943	63	40.66	144,463	58	40.15	299,407	121	40.41
Black	15,051	8	53.15	13,354	10	74.88	28,404	18	63.37
Hispanic	57,960	45	77.64	51,831	32	61.74	109,791	77	70.13
Asian/Other	21,303	6	28.17	25,364	13	51.25	46,667	19	40.71
Subtotal	249,257	126	50.55	235,012	116	49.36	484,269	242	49.97
45-54									
White	129,158	47	36.39	121,222	41	33.82	250,380	88	35.15
Black	9,916	5	50.42	9,335	6	64.27	19,252	11	57.14
Hispanic	35,764	23	64.31	35,491	26	73.26	71,255	49	68.77
Asian/Other	15,910	11	69.14	19,717	12	60.86	35,626	23	64.56
Subtotal	190,748	87	45.61	185,765	86	46.30	376,513	173	45.95
55-64									
White	82,709	31	37.48	83,723	33	39.42	166,432	64	38.45
Black	4,917	1	*	5,153	2	*	10,070	3	*
Hispanic	18,079	13	71.91	20,078	11	54.79	38,157	24	62.90
Asian/Other	10,017	4	*	13,032	12	92.08	23,049	16	69.42
Subtotal	115,722	52	44.94	121,986	61	50.01	237,708	113	47.54
65-74									
White	61,320	33	53.82	69,647	34	48.82	130,967	67	51.16
Black	2,572	2	*	2,937	0	-	5,509	2	*
Hispanic	9,929	8	80.57	12,671	19	149.95	22,600	27	119.47
Asian/Other	6,085	3	*	9,141	7	76.58	15,226	10	65.68
Subtotal	79,906	48	60.07	94,396	60	63.56	174,302	108	61.96
75+									
White	51,937	49	94.35	80,445	49	60.91	132,383	98	74.03
Black	1,342	2	*	2,137	2	*	3,479	4	*
Hispanic	7,221	6	83.09	10,538	1	*	17,758	7	39.42
Asian/Other	3,900	3	*	5,908	4	*	9,808	7	71.37
Subtotal	64,400	62	96.27	99,028	58	58.57	163,428	120	73.43
Total**	1,508,255	851	56.42	1,465,614	722	49.26	2,973,869	1574	52.93

* Rate not calculated on less than five incidents.

** Total includes 1 victim with unspecified gender. Subtotals by age include 21 males and 14 females with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 00/01. Pop. estimates from SANDAG estimates and forecasts. Does not reflect 2000 Census.

Incidence and Rates of Motorcycle Injury by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Pop	Incidence	Rate	Pop	Incidence	Rate	Pop	Incidence	Rate
Under 5									
White	51,377	0	-	48,835	0	-	100,213	0	-
Black	8,374	0	-	7,965	0	-	16,338	0	-
Hispanic	46,846	1	*	47,572	1	*	94,418	2	*
Asian/Other	11,935	0	-	11,196	0	-	23,131	0	-
Subtotal	118,532	1	*	115,568	1	*	234,100	2	*
5-9									
White	53,688	0	-	50,429	0	-	104,117	0	-
Black	8,142	0	-	7,810	0	-	15,952	0	-
Hispanic	42,628	0	-	39,725	0	-	82,353	0	-
Asian/Other	11,356	0	-	10,819	0	-	22,175	0	-
Subtotal	115,814	0	-	108,783	0	-	224,597	0	-
10-14									
White	52,488	0	-	50,053	0	-	102,540	0	-
Black	7,445	0	-	7,230	0	-	14,675	0	-
Hispanic	37,478	1	*	35,118	0	-	72,597	1	*
Asian/Other	11,158	0	-	10,747	0	-	21,905	0	-
Subtotal	108,569	1	*	103,148	0	-	211,717	1	*
15-19									
White	51,331	14	27.27	50,167	2	*	101,498	16	15.76
Black	8,266	0	-	6,796	0	-	15,062	0	-
Hispanic	31,706	7	22.08	28,676	1	*	60,381	8	13.25
Asian/Other	10,912	0	-	10,456	0	-	21,369	0	-
Subtotal	102,215	24	23.48	96,095	3	*	198,310	27	13.62
20-24									
White	71,845	45	62.63	52,763	0	-	124,607	45	36.11
Black	10,976	3	*	6,687	0	-	17,663	3	*
Hispanic	33,571	9	26.81	28,220	2	*	61,792	11	17.80
Asian/Other	12,251	4	*	10,925	1	*	23,176	5	21.57
Subtotal	128,643	64	49.75	98,595	3	*	227,238	67	29.48
25-34									
White	130,647	44	33.68	113,668	4	*	244,314	48	19.65
Black	16,117	6	37.23	13,718	1	*	29,836	7	43.43
Hispanic	64,992	5	7.69	56,184	0	-	121,176	5	7.69
Asian/Other	22,693	6	26.44	23,668	0	-	46,361	6	26.44
Subtotal	234,449	63	26.87	207,238	5	2.13	441,687	68	29.00
35-44									
White	154,943	43	27.75	144,463	9	6.23	299,407	52	17.37
Black	15,051	3	*	13,354	1	*	28,404	4	*
Hispanic	57,960	5	8.63	51,831	0	-	109,791	5	8.63
Asian/Other	21,303	1	*	25,364	1	*	46,667	2	*
Subtotal	249,257	54	21.66	235,012	11	4.68	484,269	65	13.42
45-54									
White	129,158	35	27.10	121,222	11	9.07	250,380	46	18.37
Black	9,916	2	*	9,335	0	-	19,252	2	*
Hispanic	35,764	2	*	35,491	0	-	71,255	2	*
Asian/Other	15,910	2	*	19,717	0	-	35,626	2	*
Subtotal	190,748	42	22.02	185,765	12	6.46	376,513	54	14.34
55-64									
White	82,709	18	21.76	83,723	1	*	166,432	19	11.42
Black	4,917	0	-	5,153	0	-	10,070	0	-
Hispanic	18,079	1	*	20,078	2	*	38,157	3	*
Asian/Other	10,017	1	*	13,032	0	-	23,049	1	*
Subtotal	115,722	20	17.28	121,986	3	*	237,708	23	9.68
65-74									
White	61,320	3	*	69,647	0	-	130,967	3	*
Black	2,572	0	-	2,937	0	-	5,509	0	-
Hispanic	9,929	1	*	12,671	0	-	22,600	1	*
Asian/Other	6,085	0	-	9,141	0	-	15,226	0	-
Subtotal	79,906	4	*	94,396	0	-	174,302	4	*
75+									
White	51,937	1	*	80,445	1	*	132,383	2	*
Black	1,342	0	-	2,137	0	-	3,479	0	-
Hispanic	7,221	0	-	10,538	0	-	17,758	0	-
Asian/Other	3,900	0	-	5,908	0	-	9,808	0	-
Subtotal	64,400	1	*	99,028	1	*	163,428	2	*
Total**	1,508,255	274	18.17	1,465,614	39	2.66	2,973,869	313	10.53

* Rate not calculated on less than five incidents.

** Totals and subtotals include 11 males and one female with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 00/01. Pop. estimates from SANDAG estimates and forecasts. Does not reflect 2000 Census.

Incidence and Rates of Pedalcycle Injury by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Pop	Incidence	Rate	Pop	Incidence	Rate	Pop	Incidence	Rate
Under 5									
White	51,377	2	*	48,835	0	-	100,213	2	*
Black	8,374	1	*	7,965	0	-	16,338	1	*
Hispanic	46,846	1	*	47,572	0	-	94,418	1	*
Asian/Other	11,935	0	-	11,196	0	-	23,131	0	-
Subtotal	118,532	4	*	115,568	0	-	234,100	4	*
5-9									
White	53,688	5	9.31	50,429	0	-	104,117	5	4.80
Black	8,142	0	-	7,810	0	-	15,952	0	-
Hispanic	42,628	7	16.42	39,725	5	12.59	82,353	12	14.57
Asian/Other	11,356	0	-	10,819	0	-	22,175	0	-
Subtotal	115,814	12	10.36	108,783	5	4.60	224,597	17	7.57
10-14									
White	52,488	20	38.10	50,053	0	-	102,540	20	19.50
Black	7,445	4	*	7,230	1	*	14,675	5	34.07
Hispanic	37,478	10	26.68	35,118	3	*	72,597	13	17.91
Asian/Other	11,158	2	*	10,747	0	-	21,905	2	*
Subtotal	108,569	36	33.16	103,148	4	*	211,717	40	18.89
15-19									
White	51,331	8	15.59	50,167	3	*	101,498	11	10.84
Black	8,266	0	-	6,796	0	-	15,062	0	-
Hispanic	31,706	5	15.77	28,676	0	-	60,381	5	8.28
Asian/Other	10,912	1	*	10,456	0	-	21,369	1	*
Subtotal	102,215	14	13.70	96,095	3	*	198,310	17	8.57
20-24									
White	71,845	4	*	52,763	4	*	124,607	8	6.42
Black	10,976	1	*	6,687	0	-	17,663	1	*
Hispanic	33,571	5	14.89	28,220	0	-	61,792	5	8.09
Asian/Other	12,251	0	-	10,925	0	-	23,176	0	-
Subtotal	128,643	10	7.77	98,595	4	*	227,238	14	6.16
25-34									
White	130,647	9	6.89	113,668	5	4.40	244,314	14	5.73
Black	16,117	2	*	13,718	0	-	29,836	2	*
Hispanic	64,992	7	10.77	56,184	0	-	121,176	7	5.78
Asian/Other	22,693	2	*	23,668	0	-	46,361	2	*
Subtotal	234,449	20	8.53	207,238	5	2.41	441,687	25	5.66
35-44									
White	154,943	19	12.26	144,463	5	3.46	299,407	24	8.02
Black	15,051	3	*	13,354	0	-	28,404	3	*
Hispanic	57,960	1	*	51,831	1	*	109,791	2	*
Asian/Other	21,303	3	*	25,364	1	*	46,667	4	*
Subtotal	249,257	27	10.83	235,012	6	3.40	484,269	35	7.23
45-54									
White	129,158	13	10.07	121,222	6	4.95	250,380	19	7.59
Black	9,916	3	*	9,335	0	-	19,252	3	*
Hispanic	35,764	9	25.16	35,491	0	-	71,255	9	12.63
Asian/Other	15,910	1	*	19,717	0	-	35,626	1	*
Subtotal	190,748	28	14.68	185,765	6	3.23	376,513	34	9.03
55-64									
White	82,709	7	8.46	83,723	2	*	166,432	9	5.41
Black	4,917	0	-	5,153	0	-	10,070	0	-
Hispanic	18,079	2	*	20,078	0	-	38,157	2	*
Asian/Other	10,017	1	*	13,032	0	-	23,049	1	*
Subtotal	115,722	10	8.64	121,986	2	*	237,708	12	5.05
65-74									
White	61,320	5	8.15	69,647	1	*	130,967	6	4.58
Black	2,572	0	-	2,937	0	-	5,509	0	-
Hispanic	9,929	0	-	12,671	1	*	22,600	1	*
Asian/Other	6,085	1	*	9,141	0	-	15,226	1	*
Subtotal	79,906	6	7.51	94,396	2	*	174,302	8	4.59
75+									
White	51,937	2	*	80,445	1	*	132,383	3	*
Black	1,342	0	-	2,137	0	-	3,479	0	-
Hispanic	7,221	0	-	10,538	0	-	17,758	0	-
Asian/Other	3,900	0	-	5,908	0	-	9,808	0	-
Subtotal	64,400	2	*	99,028	1	*	163,428	3	*
Total**	1,508,255	169	11.21	1,465,614	40	2.73	2,973,869	209	7.03

* Rate not calculated on less than five incidents.

** Totals and subtotals include 3 males and one female with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 00/01. Pop. estimates from SANDAG estimates and forecasts. Does not reflect 2000 Census.

Incidence and Rates of Pedestrian Injury by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Pop	Incidence	Rate	Pop	Incidence	Rate	Pop	Incidence	Rate
Under 5									
White	51,377	1	*	48,835	2	*	100,213	3	*
Black	8,374	2	*	7,965	1	*	16,338	3	*
Hispanic	46,846	16	34.15	47,572	6	12.61	94,418	22	23.30
Asian/Other	11,935	2	*	11,196	1	*	23,131	3	*
Subtotal	118,532	21	17.72	115,568	10	8.65	234,100	31	13.24
5-9									
White	53,688	4	*	50,429	3	*	104,117	7	6.72
Black	8,142	2	*	7,810	1	*	15,952	3	*
Hispanic	42,628	10	23.46	39,725	8	20.14	82,353	18	21.86
Asian/Other	11,356	1	*	10,819	0	-	22,175	1	*
Subtotal	115,814	17	14.68	108,783	12	11.03	224,597	29	12.91
10-14									
White	52,488	4	*	50,053	3	*	102,540	7	6.83
Black	7,445	2	*	7,230	0	-	14,675	2	*
Hispanic	37,478	7	18.68	35,118	2	*	72,597	9	12.40
Asian/Other	11,158	1	*	10,747	1	*	21,905	2	*
Subtotal	108,569	14	12.90	103,148	6	5.82	211,717	20	9.45
15-19									
White	51,331	5	9.74	50,167	5	9.97	101,498	10	9.85
Black	8,266	4	*	6,796	0	-	15,062	4	*
Hispanic	31,706	7	22.08	28,676	1	*	60,381	8	13.25
Asian/Other	10,912	0	-	10,456	0	-	21,369	0	-
Subtotal	102,215	17	16.63	96,095	7	7.28	198,310	24	12.10
20-24									
White	71,845	5	6.96	52,763	3	*	124,607	8	6.42
Black	10,976	1	*	6,687	2	*	17,663	3	*
Hispanic	33,571	8	23.83	28,220	3	*	61,792	11	17.80
Asian/Other	12,251	1	*	10,925	0	-	23,176	1	*
Subtotal	128,643	16	12.44	98,595	8	8.11	227,238	24	10.56
25-34									
White	130,647	12	9.19	113,668	5	4.40	244,314	17	6.96
Black	16,117	1	*	13,718	1	*	29,836	2	*
Hispanic	64,992	8	12.31	56,184	6	10.68	121,176	14	11.55
Asian/Other	22,693	2	*	23,668	3	*	46,361	5	10.78
Subtotal	234,449	23	9.81	207,238	15	7.24	441,687	38	8.60
35-44									
White	154,943	20	12.91	144,463	11	7.61	299,407	31	10.35
Black	15,051	6	39.86	13,354	1	*	28,404	7	24.64
Hispanic	57,960	3	*	51,831	2	*	109,791	5	4.55
Asian/Other	21,303	0	-	25,364	1	*	46,667	1	*
Subtotal	249,257	30	12.04	235,012	15	6.38	484,269	45	9.29
45-54									
White	129,158	20	15.48	121,222	10	8.25	250,380	30	11.98
Black	9,916	4	*	9,335	4	*	19,252	8	41.55
Hispanic	35,764	7	19.57	35,491	1	*	71,255	8	11.23
Asian/Other	15,910	1	*	19,717	0	-	35,626	1	*
Subtotal	190,748	35	18.35	185,765	15	8.07	376,513	50	13.28
55-64									
White	82,709	8	9.67	83,723	0	-	166,432	8	4.81
Black	4,917	1	*	5,153	1	*	10,070	2	*
Hispanic	18,079	4	*	20,078	4	*	38,157	8	20.97
Asian/Other	10,017	0	-	13,032	0	-	23,049	0	-
Subtotal	115,722	13	11.23	121,986	5	4.10	237,708	18	7.57
65-74									
White	61,320	4	*	69,647	5	7.18	130,967	9	6.87
Black	2,572	3	*	2,937	0	-	5,509	3	*
Hispanic	9,929	4	*	12,671	2	*	22,600	6	26.55
Asian/Other	6,085	1	*	9,141	0	-	15,226	1	*
Subtotal	79,906	12	15.02	94,396	7	7.42	174,302	19	10.90
75+									
White	51,937	8	15.40	80,445	11	13.67	132,383	19	14.35
Black	1,342	0	-	2,137	1	*	3,479	1	*
Hispanic	7,221	2	*	10,538	3	*	17,758	5	28.16
Asian/Other	3,900	1	*	5,908	0	-	9,808	1	*
Subtotal	64,400	11	17.08	99,028	15	15.15	163,428	26	15.91
Total**	1,508,255	209	13.86	1,465,614	115	7.85	2,973,869	324	10.89

* Rate not calculated on less than five incidents.

**Totals and subtotals include six males and one female of unspecified race.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 00/01. Pop. estimates from SANDAG estimates and forecasts. Does not reflect 2000 Census.

Who is at Greatest Risk of Other Unintentional Death and Injury (Rates = Incidence per 100,000 Population)

- **Deaths due to falls:** Due to the low incidence of deaths due to falls, rates could only be calculated for White males aged 35-44 (3.87), 45-54 (5.42), 55-64 (12.09), 65-74 (8.15), 75+ (40.43), Hispanic males aged 45-54 (13.98) and 75+ (69.24), and for White females aged 75 and older (29.83). **No table appears.**
- **Severe Injuries due to Falls:** In the over 74 year age group, White males (171.36), White females (140.47), and Hispanic males (110.79) had the highest rates.
- **Death due to Sports and Recreation:** Incidence was too low to calculate all age, gender, and race/ethnicity breakdowns. **No Table Appears.**
- **Severe Injury due to Sports and Recreation:** The highest rates of Sports/Recreation injury were in White and Hispanic males 15-19 years (38.96 and 31.54) and 10-14 years (34.29 and 34.69, respectively).

Incidence and Rates of Fall Injury by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Pop	Incidence	Rate	Pop	Incidence	Rate	Pop	Incidence	Rate
Under 5									
White	51,377	20	38.93	48,835	11	22.52	100,213	31	30.93
Black	8,374	4	*	7,965	2	*	16,338	6	36.72
Hispanic	46,846	28	59.77	47,572	19	39.94	94,418	47	49.78
Asian/Other	11,935	6	50.27	11,196	4	*	23,131	10	43.23
Subtotal	118,532	58	48.93	115,568	36	31.15	234,100	94	40.15
5-9									
White	53,688	16	29.80	50,429	7	13.88	104,117	23	22.09
Black	8,142	0	-	7,810	1	*	15,952	1	*
Hispanic	42,628	15	35.19	39,725	7	17.62	82,353	22	26.71
Asian/Other	11,356	1	*	10,819	3	*	22,175	4	*
Subtotal	115,814	32	27.63	108,783	18	16.55	224,597	50	22.26
10-14									
White	52,488	12	22.86	50,053	4	*	102,540	16	15.60
Black	7,445	0	-	7,230	0	-	14,675	0	-
Hispanic	37,478	9	24.01	35,118	7	19.93	72,597	16	22.04
Asian/Other	11,158	0	-	10,747	1	*	21,905	1	*
Subtotal	108,569	21	19.34	103,148	12	11.63	211,717	33	15.59
15-19									
White	51,331	17	33.12	50,167	2	*	101,498	19	18.72
Black	8,266	0	-	6,796	0	-	15,062	0	-
Hispanic	31,706	5	15.77	28,676	3	*	60,381	8	13.25
Asian/Other	10,912	2	*	10,456	4	*	21,369	6	28.08
Subtotal	102,215	24	23.48	96,095	9	9.37	198,310	33	16.64
20-24									
White	71,845	23	32.01	52,763	7	13.27	124,607	30	24.08
Black	10,976	1	*	6,687	0	-	17,663	1	*
Hispanic	33,571	5	14.89	28,220	3	*	61,792	8	12.95
Asian/Other	12,251	3	*	10,925	1	*	23,176	4	*
Subtotal	128,643	32	24.88	98,595	12	12.17	227,238	44	19.36
25-34									
White	130,647	50	38.27	113,668	14	12.32	244,314	64	26.20
Black	16,117	1	*	13,718	2	*	29,836	3	*
Hispanic	64,992	30	46.16	56,184	4	*	121,176	34	28.06
Asian/Other	22,693	7	30.85	23,668	1	*	46,361	8	17.26
Subtotal	234,449	88	37.53	207,238	21	10.13	441,687	109	24.68
35-44									
White	154,943	63	40.66	144,463	16	11.08	299,407	79	26.39
Black	15,051	2	*	13,354	1	*	28,404	3	*
Hispanic	57,960	39	67.29	51,831	6	11.58	109,791	45	40.99
Asian/Other	21,303	3	*	25,364	1	*	46,667	4	*
Subtotal	249,257	108	43.33	235,012	24	10.21	484,269	132	27.26
45-54									
White	129,158	79	61.17	121,222	23	18.97	250,380	102	40.74
Black	9,916	9	90.76	9,335	3	*	19,252	12	62.33
Hispanic	35,764	17	47.53	35,491	1	*	71,255	18	25.26
Asian/Other	15,910	3	*	19,717	0	-	35,626	3	*
Subtotal	190,748	109	57.14	185,765	27	14.53	376,513	136	36.12
55-64									
White	82,709	34	41.11	83,723	13	15.53	166,432	47	28.24
Black	4,917	4	*	5,153	0	-	10,070	4	*
Hispanic	18,079	9	49.78	20,078	3	*	38,157	12	31.45
Asian/Other	10,017	3	*	13,032	4	*	23,049	7	30.37
Subtotal	115,722	52	44.94	121,986	21	17.22	237,708	73	30.71
65-74									
White	61,320	36	58.71	69,647	27	38.77	130,967	63	48.10
Black	2,572	4	*	2,937	2	*	5,509	6	108.91
Hispanic	9,929	6	60.43	12,671	3	*	22,600	9	39.82
Asian/Other	6,085	2	*	9,141	3	*	15,226	5	32.84
Subtotal	79,906	48	60.07	94,396	36	38.14	174,302	84	48.19
75+									
White	51,937	89	171.36	80,445	113	140.47	132,383	202	152.59
Black	1,342	3	*	2,137	0	-	3,479	3	*
Hispanic	7,221	8	110.79	10,538	7	66.43	17,758	15	84.47
Asian/Other	3,900	2	*	5,908	6	101.56	9,808	8	81.57
Subtotal	64,400	103	159.94	99,028	127	128.25	163,428	230	140.73
Total**	1,508,255	675	44.75	1,465,614	343	23.40	2,973,869	1018	34.23

* Rate not calculated on less than five incidents.

**Totals and subtotals include five males and four females of unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 00/01. Pop. estimates from SANDAG estimates and forecasts. Does not reflect 2000 Census.

Incidence and Rates of Injury Due to Sports and Recreation by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Pop	Incidence	Rate	Pop	Incidence	Rate	Pop	Incidence	Rate
Under 5									
White	51,377	4	*	48,835	1		100,213	5	4.99
Black	8,374	0	-	7,965	0	-	16,338	0	-
Hispanic	46,846	4	*	47,572	0	-	94,418	4	*
Asian/Other	11,935	1	*	11,196	0	-	23,131	1	*
Subtotal	118,532	9	7.59	115,568	1		234,100	10	4.27
5-9									
White	53,688	13	24.21	50,429	6	11.90	104,117	19	18.25
Black	8,142	0	-	7,810	0	-	15,952	0	-
Hispanic	42,628	8	18.77	39,725	5	12.59	82,353	13	15.79
Asian/Other	11,356	0	-	10,819	0	-	22,175	0	-
Subtotal	115,814	21	18.13	108,783	11	10.11	224,597	32	14.25
10-14									
White	52,488	18	34.29	50,053	7	13.99	102,540	25	24.38
Black	7,445	0	-	7,230	0	-	14,675	0	-
Hispanic	37,478	13	34.69	35,118	3		72,597	16	22.04
Asian/Other	11,158	3	*	10,747	1		21,905	4	*
Subtotal	108,569	34	31.32	103,148	11	10.66	211,717	45	21.25
15-19									
White	51,331	20	38.96	50,167	10	19.93	101,498	30	29.56
Black	8,266	0	-	6,796	0	-	15,062	0	-
Hispanic	31,706	10	31.54	28,676	0	-	60,381	10	16.56
Asian/Other	10,912	2	*	10,456	0	-	21,369	2	*
Subtotal	102,215	33	32.28	96,095	11	11.45	198,310	44	22.19
20-24									
White	71,845	11	15.31	52,763	8	15.16	124,607	19	15.25
Black	10,976	2	*	6,687	1	*	17,663	3	*
Hispanic	33,571	4	*	28,220	0	-	61,792	4	*
Asian/Other	12,251	0	-	10,925	0	-	23,176	0	-
Subtotal	128,643	17	13.21	98,595	9	9.13	227,238	26	11.44
25-34									
White	130,647	22	16.84	113,668	5	4.40	244,314	27	11.05
Black	16,117	0	-	13,718	0	-	29,836	0	-
Hispanic	64,992	8	12.31	56,184	1		121,176	9	7.43
Asian/Other	22,693	2	*	23,668	0	-	46,361	2	*
Subtotal	234,449	32	13.65	207,238	7	3.38	441,687	39	8.83
35-44									
White	154,943	22	14.20	144,463	9	6.23	299,407	31	10.35
Black	15,051	1	*	13,354	0	-	28,404	1	*
Hispanic	57,960	2	*	51,831	1	*	109,791	3	*
Asian/Other	21,303	0	-	25,364	0	-	46,667	0	-
Subtotal	249,257	25	10.03	235,012	10	4.26	484,269	35	7.23
45-54									
White	129,158	6	4.65	121,222	8	6.60	250,380	14	5.59
Black	9,916	0	-	9,335	0	-	19,252	0	-
Hispanic	35,764	0	-	35,491	2		71,255	2	*
Asian/Other	15,910	0	-	19,717	0	-	35,626	0	-
Subtotal	190,748	6	3.15	185,765	10	5.38	376,513	16	4.25
55-64									
White	82,709	5	6.05	83,723	3		166,432	8	4.81
Black	4,917	1	*	5,153	0	-	10,070	1	*
Hispanic	18,079	0	-	20,078	0	-	38,157	0	-
Asian/Other	10,017	0	-	13,032	1	*	23,049	1	*
Subtotal	115,722	6	5.18	121,986	4		237,708	10	4.21
65-74									
White	61,320	2	*	69,647	0	-	130,967	2	*
Black	2,572	0	-	2,937	0	-	5,509	0	-
Hispanic	9,929	0	-	12,671	0	-	22,600	0	-
Asian/Other	6,085	0	-	9,141	0	-	15,226	0	-
Subtotal	79,906	2	*	94,396	0	-	174,302	2	*
75+									
White	51,937	1	*	80,445	0	-	132,383	1	*
Black	1,342	0	-	2,137	0	-	3,479	0	-
Hispanic	7,221	0	-	10,538	0	-	17,758	0	-
Asian/Other	3,900	0	-	5,908	0	-	9,808	0	-
Subtotal	64,400	1	*	99,028	0	-	163,428	1	*
Total**	1,508,255	186	12.33	1,465,614	74	5.05	2,973,869	260	8.74

* Rate not calculated on less than five incidents.

**Totals and subtotals include one male and two females with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 00/01. Pop. estimates from SANDAG estimates and forecasts. Does not reflect 2000 Census.

Abbreviated Injury Scale (AIS): A scale created to describe individual traumatic injuries. AIS scores obtain a value from each of 7 body areas: 1) external; 2) head (including face); 3) neck; 4) thorax; 5) abdomen/pelvic contents; 6) spine; and 7) extremities. For each body region a severity code is assigned which describes the injuries: 1) minor; 2) moderate; 3) serious; 4) severe; 5) critical; 6) maximum injury with little chance of survival, and 9) unknown.

Confidence Level (95%): Statistical measure used when comparing the differences between a set of numbers to determine if they are statistically significant or not. A 95% confidence level was used in this report ($p < .05$), therefore you could say that there was less than a five percent chance that the differences were due to chance if they were reported as statistically significant.

Geographic Areas: The geographic areas used in the analysis of the data are the Major Statistical Areas (MSA) and the subregional areas (SRA) of San Diego County as defined by the San Diego Association of Governments (SANDAG). See Appendix D.

Mechanism of Injury: This report is based on classifications of injury etiology as follows:

Motor Vehicle Occupant	driver or passenger, not motorcycle
Motorcycle	driver or passenger of motorcycle/moped
Pedalcycle	pedalcyclist, traffic or non-traffic
Pedestrian	pedestrian
Other vehicle	railway accident motor vehicle other or unknown scooter/skateboard/roller skates (traffic) other road vehicle aircraft other vehicle
Falls	fall, steps fall, ladder/scaffold fall, structure fall, into hole/swimming pool, etc. fall, cliff fall from standing (must be witnessed) other fall/unknown
Self Inflicted/Suicides	suicide attempt (hanging, suffocation) self inflicted firearms/ explosive self inflicted cutting/piercing self inflicted jump from high place self inflicted/homicide, undetermined. self inflicted suicide attempt, other self inflicted suicide/accident, undetermined

Technical Notes

Assaults/Homicides	fall, pushed from vehicle assault, unarmed fight, brawl, etc. rape assault by firearm/explosive assault by cutting/piercing child battering other assault/suspected non-accidental assault by multiple causes (firearms/stabbing/etc.)
Sports & Recreation Activities	scooter/skateboard/carriage/snow skier off road vehicle riding animals water sports sports (hit, kicked or struck) fall from tree/playground equipment
Other	dog bite injured by animal, not dog bite struck by falling object struck by machinery/object (caught, crushed, cut, etc.) cutting instruments (lawn mowers, power tools, appliances, knives, swords, saws, glass) explosion of pressure vessel BB/pellet gun (assault and accidental) bow/cross bow (assault and accidental) firearms (accident, not assault) explosive material (fireworks, gas, bomb, accident) hot substance, caustic, steam electric current cave in (dirt, structures) other unspecified accident legal intervention
Unknown	mechanism left blank or "unknown".

Incidence: The number of occurrences for the specific injury type. Incidence should not be used to compare different racial/ethnic groups, age groups or geographic areas. For these comparisons, use rates which take into account differences in population sizes.

Injury: For the purposes of this report injury refers to unintentional or intentional damage to the body resulting from acute exposure to mechanical energy.

Injury Severity Score (ISS): A modification of the AIS, the ISS is an anatomic score developed to identify multiple traumatic injuries. The ISS is obtained by calculating the sum of the squared values of the highest AIS code in each of the three most severely injured regions of the body. AIS scores up to 5

are squared, so that the highest ISS attainable is 75. An AIS score of 6 in any body region is assigned as ISS of 75.

Race/Ethnicity: Race/ethnicity is calculated for this report as Hispanic, non-Hispanic White, non-Hispanic Black, non-Hispanic Asian/Other based on SANDAG estimates of population for January 2000.

Rate: Calculated as incidence per 100,000 population. Rates were calculated using January 2000 population estimates provided by the San Diego Association of Governments (SANDAG). Rates were not calculated for categories with less than five occurrences, due to instability.

$$\text{Rate} = (\text{Incidence/Population}) \times 100,000$$

SANDAG: San Diego Association of Governments.

Scene Time: The total time the patient was not actually being transported to either the receiving hospital or the rendezvous point (reflects the total time a patient spends on scene).

Source of Data: All incidence data is from the San Diego County Trauma Registry. This data includes both deaths and severe traumatic injuries. To be included in the trauma registry a patient must suffer from a traumatic injury and: have a length of stay in the hospital greater than or equal to 24 hours; be admitted to an intensive or intermediate care unit; be an interfacility transfer from or to an acute care facility; or die from the injury. A patient who dies of a traumatic injury on scene, at a non-trauma facility, or at a trauma center is included in the Medical Examiner's database.

Statistical Significance: A number is said to be statistically significant if it is "significantly" larger or smaller than would be expected by chance. For this report statistical significance is measured using a 95% confidence level, meaning that with 95% certainty you can say that the numbers did not occur by chance, giving us a statistical significance of $p < .05$.

Trauma Center Monthly Reports: Summary reports submitted to EMS by each designated trauma center hospital. These forms are intended to serve as a record of the hospital's trauma service activity for that month. This activity includes admissions, discharges, deaths, mode of arrival and final dispositions.

Years Potential Life Lost (YPLL): YPLL calculates the years of life lost due to a death using the average life expectancy as an estimate for the total length of life. Life expectancy was derived from the Vital Statistics Life Tables (Centers for Disease Control and Prevention). For age groups, YPLL was calculated using the life expectancy for the median age for the group. $YPLL = (\text{Expected years of life} - \text{median age}) \times \text{Number of deaths}$

Leading Causes of Death and Severe Injury by San Diego MSA

MSA	Rank	Death	Rank	Severe Injury
Central	1	Suicide*	1	MV Occupant
		Homicide*	2	Assault
	3	MV Occupant	3	Fall
North City	1	Suicide	1	Fall
	2	MV Occupant	2	MV Occupant
	3	Fall	3	Pedestrian
South Suburban	1	MV Occupant*	1	MV Occupant
		Suicide*	2	Fall
	3	Homicide	3	Assault
East Suburban	1	MV Occupant	1	MV Occupant
	2	Suicide	2	Fall
	3	Pedestrian	3	Assault
North County West	1	MV Occupant	1	MV Occupant
	2	Suicide	2	Fall
	3	Fall	3	Motorcycle
North County East	1	MV Occupant	1	MV Occupant
	2	Suicide	2	Fall
	3	Fall	3	Assault
East County	1	MV Occupant	1	MV Occupant
	2	Motorcycle	2	Sports/Recreation
	3	Other Vehicle	3	Motorcycle

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 00/01.

* Indicates a tie.

Leading Causes of Death and Severe Injury by Age Group

Age Group in Years	Rank	Death	Rank	Severe Injury
0-4	1	Homicide	1	Falls
	2	MV Occupant	2	MV Occupant
	3	Pedestrian	3	Assaults
5-9	1	Pedestrian	1	Falls
	2	MV Occupant	2	MV Occupant
	3	Sport/Rec	3	Sport/Rec
10-14	1	Homicide	1	Sport/Rec
	2	MV Occupant	2	Pedalcycle
	3	Suicide	3	MV Occupant
15-19	1	MV Occupant	1	MV Occupant
	2	Homicide	2	Assaults
	3	Suicide	3	Sport/Rec
20-24	1	MV Occupant	1	MV Occupant
	2	Homicide	2	Assault
	3	Suicide	3	Motorcycle
25-34	1	MV Occupant	1	MV Occupant
	2	Homicide	2	Assault
	3	Suicide	3	Fall
35-44	1	MV Occupant	1	MV Occupant
	2	Suicide	2	Falls
	3	Homicide	3	Assaults
45-54	1	Suicide	1	MV Occupant
	2	Falls	2	Fall
	3	MV Occupant	3	Assault
55-64	1	Suicide	1	MV Occupant
	2	MV Occupant	2	Fall
	3	Falls	3	Motorcycle
65-74	1	MV Occupant*	1	MV Occupant
		Suicide*	2	Fall
	3	Falls	3	Pedestrian
75+	1	Fall	1	Fall
	2	Suicide	2	MV Occupant
	3	MV Occupant	3	Pedestrian

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 00/01.

* Indicates a tie.

Motor Vehicle by Mechanism and San Diego County Subregional Area

MSA	SRA	Population	MV Occupant		Motorcycle		Pedalcycle	
			Injury	Death	Injury	Death	Injury	Death
CENTRAL	Central San Diego	170,240	81	6	7	2	17	0
	Peninsula	64,768	2	1	0	1	0	0
	Coronado	25,572	7	2	0	0	0	0
	National City	55,686	23	10	2	1	1	0
	Southeast San Diego	160,919	30	5	2	1	6	0
	Mid-City	161,149	53	4	5	0	10	0
	TOTAL	638,334	196	28	16	5	34	0
NORTH CITY	Kearny Mesa	154,207	33	18	5	0	2	0
	Coastal	82,222	18	8	9	2	5	1
	University	53,432	9	0	7	1	1	0
	Del Mar-Mira Mesa	148,357	25	8	3	0	4	0
	North San Diego	92,534	4	1	3	0	4	0
	Poway	85,945	7	1	2	1	3	0
	Miramar	5,603	0	1	2	0	1	1
	Elliott-Navajo	95,771	6	3	1	0	0	0
	TOTAL	718,071	102	40	32	4	20	2
SOUTH SUBURBAN	Sweetwater	83,730	11	5	1	0	3	0
	Chula Vista	108,209	23	6	3	0	4	0
	South Bay	134,487	28	9	4	0	6	0
	TOTAL	326,426	62	20	8	0	13	0
EAST SUBURBAN	Jamul	13,854	5	2	2	0	0	0
	Spring Valley	84,959	12	4	2	0	5	0
	Lemon Grove	31,097	9	0	6	0	3	0
	La Mesa	61,944	5	3	0	1	1	0
	El Cajon	123,602	6	5	0	1	4	0
	Santee	58,463	3	2	1	0	0	0
	Lakeside	58,069	6	10	1	0	2	0
	Harbison Crest	16,154	4	6	0	0	1	0
	Alpine	13,933	8	0	3	3	0	0
	Ramona	35,242	13	2	4	1	0	0
	TOTAL	497,317	71	34	19	6	16	0
NORTH COUNTY WEST	San Dieguito	90,989	21	2	8	0	3	0
	Carlsbad	101,028	16	6	3	1	3	0
	Oceanside	155,324	52	12	18	1	5	0
	Pendleton	38,492	9	5	6	0	0	1
	TOTAL	385,833	98	25	35	2	11	1
NORTH COUNTY EAST	Escondido	146,959	42	11	7	0	5	1
	San Marcos	69,850	8	1	1	1	3	0
	Vista	94,878	16	9	1	0	2	0
	Valley Center	21,021	5	4	0	0	2	0
	Pauma	5,969	3	2	0	1	0	0
	Fallbrook	45,780	13	8	3	2	3	0
	TOTAL	384,457	87	35	12	4	15	1
EAST COUNTY	Palomar-Julian	6,617	4	2	4	3	0	0
	Laguna-Pine Valley	5,779	1	1	0	1	0	0
	Mountain Empire	6,640	8	9	3	3	1	0
	Anza-Borrego Springs	4,395	2	8	3	3	2	0
	TOTAL	23,431	15	20	10	10	3	0
OTHER/UNKNOWN			943	9	181	3	97	1
TOTAL	2,973,869	1,574	211	313	34	209	5	

Source: County of San Diego. Health and Human Services, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 00/01; Population estimates calculated from SANDAG estimates and forecasts (does not reflect 2000 Census).

Appendix B

Motor Vehicle by Mechanism and San Diego County Subregional Area (Continued)

MSA	SRA	Population	Pedestrian		Other Vehicle		Overall Total
			Injury	Death	Injury	Death	
CENTRAL	Central San Diego	170,240	16	7	4	1	141
	Peninsula	64,768	2	1	0	0	7
	Coronado	25,572	0	1	0	0	10
	National City	55,686	7	1	1	0	46
	Southeast San Diego	160,919	8	5	3	1	61
	Mid-City	161,149	23	3	3	0	101
	TOTAL	638,334	56	18	11	2	366
NORTH CITY	Kearny Mesa	154,207	11	5	1	2	77
	Coastal	82,222	13	1	4	1	62
	University	53,432	0	0	0	0	18
	Del Mar-Mira Mesa	148,357	2	2	7	0	51
	North San Diego	92,534	2	0	1	1	16
	Poway	85,945	1	2	1	1	19
	Miramar	5,603	0	0	1	0	6
	Elliott-Navajo	95,771	1	3	1	0	15
TOTAL	718,071	30	13	16	5	264	
SOUTH SUBURBAN	Sweetwater	83,730	2	1	2	1	26
	Chula Vista	108,209	3	3	5	0	47
	South Bay	134,487	4	6	5	1	63
	TOTAL	326,426	9	10	12	2	136
EAST SUBURBAN	Jamul	13,854	0	0	3	0	12
	Spring Valley	84,959	3	4	2	0	32
	Lemon Grove	31,097	2	0	0	0	20
	La Mesa	61,944	2	2	0	1	15
	El Cajon	123,602	5	6	1	0	28
	Santee	58,463	1	1	0	0	8
	Lakeside	58,069	2	0	0	2	23
	Harbison Crest	16,154	1	1	1	0	14
	Alpine	13,933	1	2	5	2	24
	Ramona	35,242	2	1	0	0	23
	TOTAL	497,317	19	17	12	5	199
NORTH COUNTY WEST	San Dieguito	90,989	5	1	4	0	44
	Carlsbad	101,028	4	2	3	0	38
	Oceanside	155,324	9	3	9	2	111
	Pendleton	38,492	0	0	1	0	22
	TOTAL	385,833	18	6	17	2	215
NORTH COUNTY EAST	Escondido	146,959	6	3	2	0	77
	San Marcos	69,850	2	0	1	0	17
	Vista	94,878	9	3	5	1	46
	Valley Center	21,021	1	0	0	3	15
	Pauma	5,969	0	0	1	0	7
	Fallbrook	45,780	0	2	0	0	31
	TOTAL	384,457	18	8	9	4	193
EAST COUNTY	Palomar-Julian	6,617	0	0	0	1	14
	Laguna-Pine Valley	5,779	0	0	1	0	4
	Mountain Empire	6,640	0	0	0	0	24
	Anza-Borrego Springs	4,395	0	0	1	5	24
	TOTAL	23,431	0	0	2	6	66
OTHER/UNKNOWN			174	3	141	2	1554
TOTAL		2,973,869	324	75	220	28	2,993

Source: County of San Diego. Health and Human Services, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 00/01; Population estimates calculated from SANDAG estimates and forecasts (does not reflect 2000 Census).

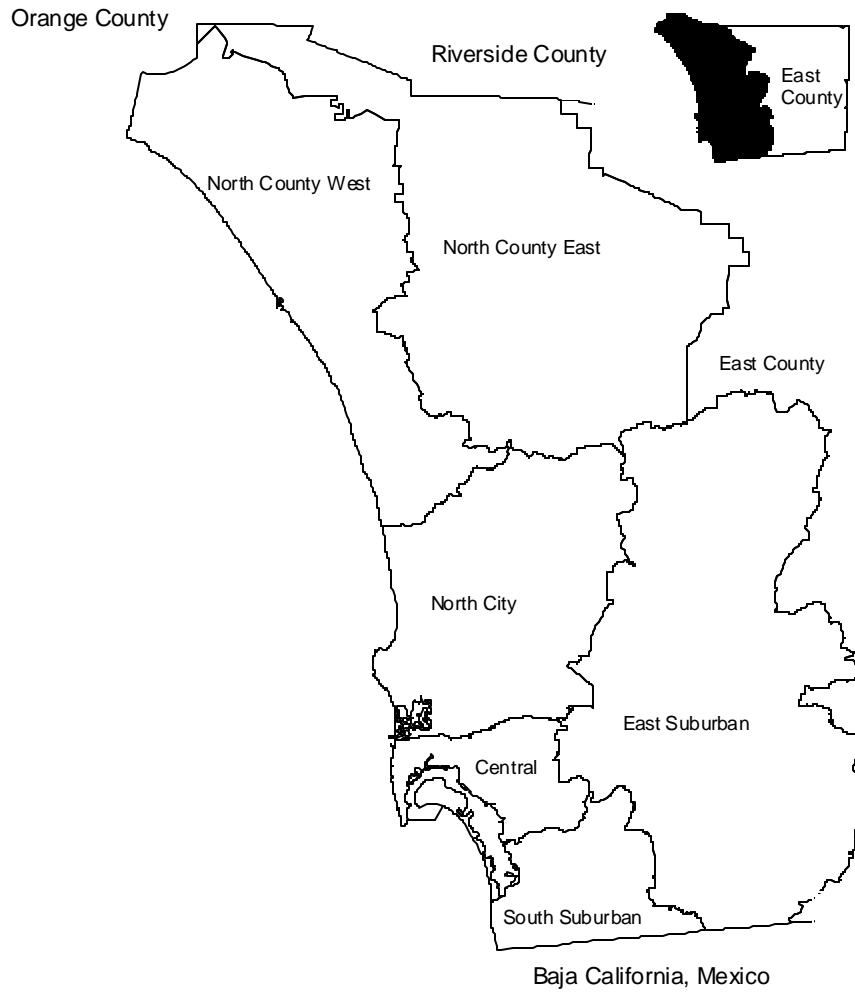
San Diego County Population Breakdown by Age Group, Gender and Race/Ethnicity

January 1, 2001

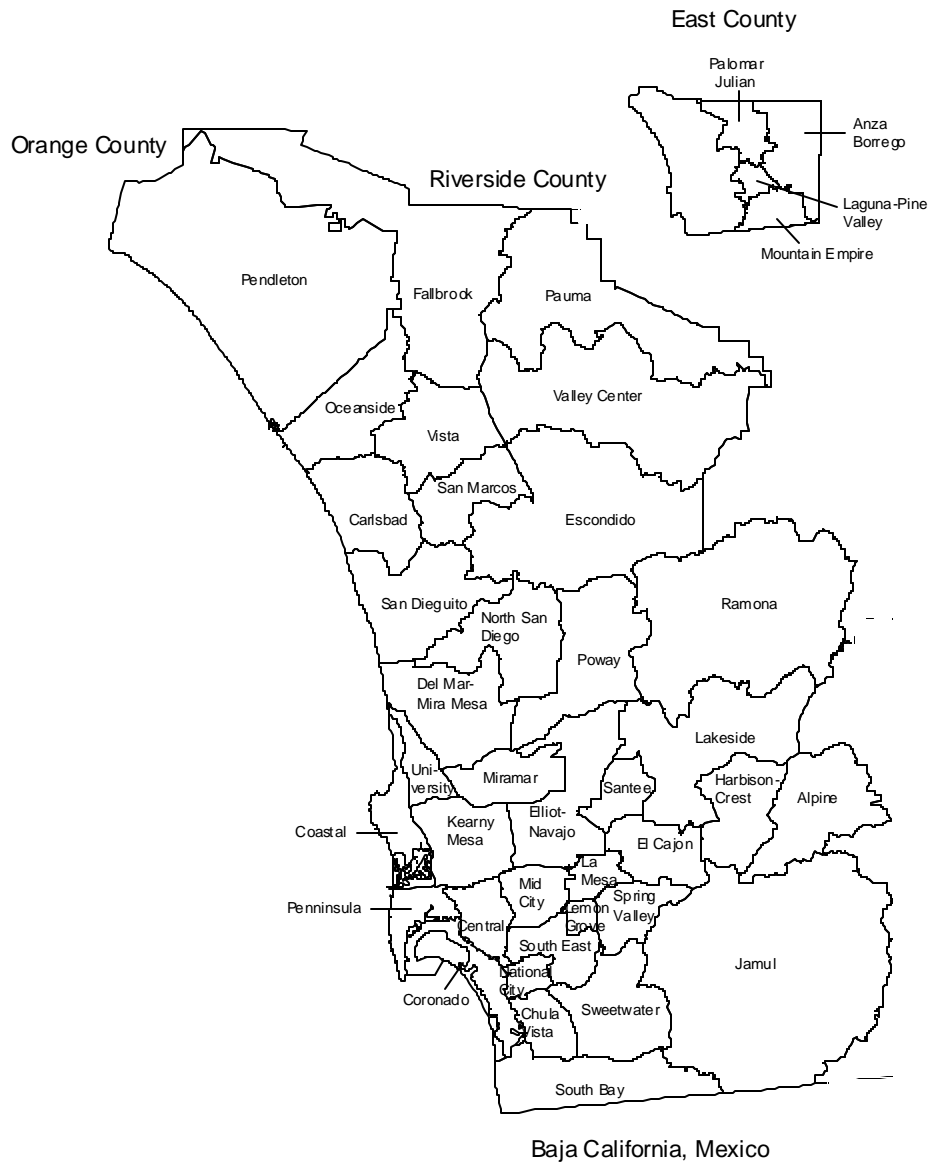
		Males	Females	Total
Under 5	White	51,377	48,835	100,213
	Black	8,374	7,965	16,338
	Hispanic	46,846	47,572	94,418
	Asian/Other	11,935	11,196	23,131
5 to 9	White	53,688	50,429	104,117
	Black	8,142	7,810	15,952
	Hispanic	42,628	39,725	82,353
	Asian/Other	11,356	10,819	22,175
10 to 14	White	52,488	50,053	102,540
	Black	7,445	7,230	14,675
	Hispanic	37,478	35,118	72,597
	Asian/Other	11,158	10,747	21,905
15 to 19	White	51,331	50,167	101,498
	Black	8,266	6,796	15,062
	Hispanic	31,706	28,676	60,381
	Asian/Other	10,912	10,456	21,369
20 to 24	White	71,845	52,763	124,607
	Black	10,976	6,687	17,663
	Hispanic	33,571	28,220	61,792
	Asian/Other	12,251	10,925	23,176
25-34	White	130,647	113,668	244,314
	Black	16,117	13,718	29,836
	Hispanic	64,992	56,184	121,176
	Asian/Other	22,693	23,668	46,361
35-44	White	154,943	144,463	299,407
	Black	15,051	13,354	28,404
	Hispanic	57,960	51,831	109,791
	Asian/Other	21,303	25,364	46,667
45-54	White	129,158	121,222	250,380
	Black	9,916	9,335	19,252
	Hispanic	35,764	35,491	71,255
	Asian/Other	15,910	19,717	35,626
55-64	White	82,709	83,723	166,432
	Black	4,917	5,153	10,070
	Hispanic	18,079	20,078	38,157
	Asian/Other	10,017	13,032	23,049
65-74	White	61,320	69,647	130,967
	Black	2,572	2,937	5,509
	Hispanic	9,929	12,671	22,600
	Asian/Other	6,085	9,141	15,226
75+	White	51,937	80,445	132,383
	Black	1,342	2,137	3,479
	Hispanic	7,221	10,538	17,758
	Asian/Other	3,900	5,908	9,808
Total		1,508,255	1,465,614	2,973,869

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services; Population Estimates calculated from SANDAG estimates and forecasts. (Does not reflect 2000 Census).

San Diego County Major Statistical Areas



San Diego County Subregional Areas



DIRECTORY

EMS AGENCY

6255 Mission Gorge Road, San Diego, CA. 92120 - (619) 285-6429

Chief: Gwen Jones

Medical Director: Gary Vilke, MD, FACEP

EMS Coordinator: Patricia Murrin, RN, MPH

CHILDREN'S HOSPITAL AND HEALTH CENTER

3020 Childrens Way, San Diego, CA 92123 - (858) 576-1700

Hospital Administrator: Blair Sadler, CEO

Trauma Administrator: Irvin Kaufman, MD

Trauma Medical Director: Barry LoSasso, MD, FACS

Trauma Nurse Coordinator: Sue Cox, RN, MS

SCRIPPS MERCY HOSPITAL AND HEALTH CENTER

4077 Fifth Avenue, San Diego, CA 92103 - (619) 294-8111

Hospital Administrator: Tom Gammieri

Associate Administrator: Leanne Hunstock, RN

Trauma Medical Director: Michael J. Sise, MD, FACS

Trauma Nurse Coordinator: Dorothy M. Kelley, RN, BS, CEN

Base Hospital Medical Director: Steven Zahler, MD, FACEP

Base Hospital Nurse Coordinator: Patty Skoglund, RN.

PALOMAR MEDICAL CENTER

555 East Valley Parkway, Escondido, CA 92025- (760) 739-3000

Hospital Administrator: Gerald Bracht

Trauma Administrator: Kim Colonnelli, RN, MSN,

Trauma Medical Director: Tom Velky, MD, FACS

Trauma Nurse Coordinator: Beverly Neal, CCRN, BSN

Base Hospital Medical Director: Michelle Grad, MD

Base Hospital Nurse Coordinator: Shelley Berthiaume, RN

SCRIPPS MEMORIAL HOSPITAL, LA JOLLA

9888 Genesee Avenue, La Jolla, CA 92037 - (858) 457-4123

Hospital Administrator: Gary Fybel

Trauma Administrator: Cynthia Steckel, RN

Trauma Medical Director: Fred Simon, MD, FACS

Trauma Nurse Coordinator: Cheryl Wooten, RN, MSN, CNS

Base Hospital Medical Director: Shawn Evans, MD

Base Hospital Nurse Coordinator: Mary Johnson, RN, MHA, CEN, MICN

SHARP MEMORIAL HOSPITAL

7901 Frost Street, San Diego, CA 92123 - (858) 541-3400

Hospital Administrator: Daniel Gross, RN, CEO

Trauma Administrator: Janie Taylor, RN, BSN

Trauma Medical Director: Frank Kennedy, MD, FACS

Trauma Nurse Coordinator: Kathi Ayers, RN, MSN

Base Hospital Medical Director: Mark Kramer, MD

Base Hospital Nurse Coordinator: Cindy Pluta, RN

UNIVERSITY OF CALIFORNIA, SAN DIEGO MEDICAL CENTER

200 West Arbor Drive, San Diego, CA 92103 - (619) 543-6222

Hospital Administrator: Richard J. Liekweg, CAO

Trauma Administrator: Richard J. Liekweg, CAO

Trauma Medical Director: David Hoyt, MD, FACS

Trauma Nurse Coordinator:

Base Hospital Medical Director: Dan Davis, MD

Base Hospital Nurse Coordinator: Lana McCallum-Brown, RN, MICN

SHARP / GROSSMONT HOSPITAL

5555 Grossmont Center Drive, La Mesa, CA 91942 - (619) 465-0711

Hospital Administrator: Michele Tarbet, CEO

Base Hospital Medical Director: William Linnick, MD

Base Hospital Nurse Coordinator: Mary Meadows-Pitt, RN, BSN

SCRIPPS MEMORIAL HOSPITAL - CHULA VISTA

435 H Street, Chula Vista, CA 91910 - (619) 691-7000

Hospital Administrator: John Grah

Base Hospital Medical Director: Mary Margaret Loehr, MD

Base Hospital Nurse Coordinator: Linda Broyles, RN, MSN, MICN

TRI-CITY MEDICAL CENTER

4002 Vista Way, Oceanside, CA 92056 - (760) 724-8411

Hospital Administrator: Arthur Gonzalez

Base Hospital Medical Director: Todd Zaayer, MD

Base Hospital Nurse Coordinator: Dori Vroman, RN.