



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

**San Diego County
Trauma System Report**

**July 1, 2004
through
June 30, 2005**

June 2007

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Acknowledgements

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Table of Contents

Preface xi

Chapter 1: System Overview

 Introduction.....1

 Trauma Registry Data4

 Current Overview of Traumatic Injury in San Diego County6

 Trauma System Resources15

 Trauma Patient Outcomes.....17

Chapter 2: Violent Injuries

 Violent Injuries19

 Homicides and Assaults20

 Suicides and Self Inflicted Injuries29

Chapter 3: Transportation Related Injuries

 Transportation Related Injuries.....41

 Motor Vehicle Occupant Crash Injuries48

 Motorcycle Crash Injuries55

 Pedalcycle Crash Injuries62

 Pedestrian Injuries69

Chapter 4: Other Unintentional Injuries

 Other Unintentional Injuries and Deaths77

 Fall Injuries77

 Sports and Recreation Injuries85

Chapter 5: Detail Tables

 Who is at Greatest Risk of Violent Injury and Death?93

 Who is at Greatest Risk of Transportation Related Injury and Death?.....106

 Who is at Greatest Risk of Other Unintentional Death and Injury?117

Technical Notes123

Appendix A: Leading Causes of Death and Severe Injury127

Appendix B: Motor Vehicle by Mechanism and San Diego County Subregional Area129

Appendix C: San Diego County Population Breakdown.....131

Appendix D: Maps.....133

Appendix E: Directory135

List of Tables

Table 1.1: Trauma Center Admissions by Fiscal Year1
Table 1.2: Trauma Center Admissions by Injury Type2
Table 1.3: Total MTOS Patients and Trauma Center Admissions4
Table 1.4: Trauma System Injury by Mechanism and Gender8
Table 1.5: Trauma System Deaths by Mechanism and Gender9
Table 1.6: Mean and Median Age by Mechanism of Injury and Outcome10
Table 1.7: Trauma System Injuries by Mechanism and Age Group in Years11
Table 1.8: Trauma System Deaths by Mechanism and Age Group in Years11
Table 1.9: Trauma System Injuries by Mechanism and Race/Ethnicity13
Table 1.10: Trauma System Deaths by Mechanism and Race/Ethnicity13
Table 1.11: Trauma Patient Mode of Arrival15
Table 1.12: Mean Scene Time, in Minutes, by Mode of Arrival16
Table 1.13: Trauma Patient Outcomes by Injury Severity Score17
Table 1.14: Patient Length of Stay (LOS) by Mechanism of Injury and Death18

Table 2.1: Number and Rate (per 100,000) of Injuries and Deaths from Violence
by Fiscal Year19
Table 2.2: Number and Rate (per 100,000) of Assaults and Homicides by Fiscal Year20
Table 2.3: Number and Rate (per 100,000) of Assault and Homicide
by Age Group and Gender21
Table 2.4: Homicides and Assaults by Mechanism and County Major Statistical Area28
Table 2.5: Number and Rate (per 100,000) of Self-Inflicted Injuries and Deaths
by Fiscal Year29
Table 2.6: Number and Rate (per 100,000) of Self-Inflicted Injury and Suicide
by Age Group and Gender30
Table 2.7: Self Inflicted Injuries and Suicides by Mechanism and Major Statistical Area39

Table 3.1: Number and Rate (per 100,000) of Transportation Related Injuries and Deaths
by Fiscal Year41
Table 3.2: Number and Rate (per 100,000) of Transportation Related Injury and Death
by Age Group and Gender42
Table 3.3: Number and Rate (per 100,000) of Motor Vehicle Occupant Injury and Death
by Fiscal Year48
Table 3.4: Number and Rate (per 100,000) of Motor Vehicle Occupant Crash Injury and Death
by Age Group and Gender49
Table 3.5: Number and Rate (per 100,000) of Motorcycle Crash Injuries and Deaths
by Fiscal Year55
Table 3.6: Number and Rate (per 100,000) of Motorcycle Crash Injury and Death
by Age Group and Gender56
Table 3.7: Number and Rate (per 100,000) of Pedalcycle Crash Injuries and Deaths
by Fiscal Year62
Table 3.8: Number and Rate (per 100,000) of Pedalcycle Crash Injury
by Age Group and Gender63

Table 3.9: Number and Rate (per 100,000) of Pedestrian Struck Injuries and Deaths by Fiscal Year	69
Table 3.10: Number and Rate (per 100,000) of Pedestrian Struck Injury and Death by Age Group and Gender	70
Table 4.1: Number and Rate (per 100,000) of Fall Related Injuries and Deaths by Fiscal Year	77
Table 4.2: Number and Rate (per 100,000) of Fall Related Injury and Death by Age Group and Gender.....	78
Table 4.3: Number and Rate (per 100,000) of Sports/Recreation Injuries and Deaths by Fiscal Year.....	85
Table 4.4: Number and Rate (per 100,000) of Sports/Recreation Injury by Age Group and Gender	86
Table 5.1: Assaults by Age Group, Race/Ethnicity, and Gender.....	94
Table 5.2: Homicides by Age Group, Race/Ethnicity, and Gender.....	96
Table 5.3: Assaults by Age Group, Race/Ethnicity and Mechanism.....	98
Table 5.4: Homicides by Age Group, Race/Ethnicity and Mechanism	100
Table 5.5: Self-Inflicted Injuries by Age Group, Race/Ethnicity, and Gender.....	102
Table 5.6: Suicides by Age Group, Race/Ethnicity, and Gender.....	104
Table 5.7: Motor Vehicle Occupant Injuries by Age Group, Race/Ethnicity, and Gender	107
Table 5.8: Motor Vehicle Occupant Deaths by Age Group, Race/Ethnicity, and Gender	109
Table 5.9: Motorcycle Injuries by Age Group, Race/Ethnicity, and Gender	111
Table 5.10: Pedalcycle Injuries by Age Group, Race/Ethnicity, and Gender.....	113
Table 5.11: Pedestrian Injuries by Age Group, Race/Ethnicity, and Gender	115
Table 5.12: Fall Injuries by Age Group, Race/Ethnicity, and Gender.....	118
Table 5.13: Sports/Recreation Injuries by Age Group, Race/Ethnicity, and Gender	120
Table A.1: Leading Causes of Death and Severe Injury by San Diego MSA	127
Table A.2: Leading Causes of Death and Severe Injury by Age Group.....	128
Table B.1: Transportation Related Injuries and Deaths by Mechanism and San Diego County Subregional Area	129
Table C.1: San Diego County Population Breakdown by Age Group, Gender and Race/Ethnicity, January 1, 2005	131

List of Figures

Figure 1.1: Rates of Blunt and Penetrating Injury by Fiscal Year3
Figure 1.2: Cause of Death and Years Potential Life Lost5
Figure 1.3: Overall Trauma System Injuries and Deaths by Mechanism6
Figure 1.4: Comparison of County Population to Injuries and Deaths by Gender7
Figure 1.5: Percent of Gender by Injury Mechanism: Injuries8
Figure 1.6: Percent of Gender by Injury Mechanism: Deaths9
Figure 1.7: Comparison of County Population to Injuries and Deaths by Race/Ethnicity12
Figure 1.8: Distribution of Trauma Center Patients by Hospital and Injury Type14
Figure 1.9: Mode of Arrival by Fiscal Year15

Figure 2.1: Injuries and Deaths Due to Violence by Fiscal Year19
Figure 2.2: Assaults and Homicides by Fiscal Year20
Figure 2.3: Assaults and Homicides by Gender21
Figure 2.4: Assaults and Homicides by Age Group22
Figure 2.5: Assaults and Homicides by Race/Ethnicity22
Figure 2.6: Assaults and Homicides by Race/Ethnicity23
Figure 2.7: Assault and Homicide Rates by Race/Ethnicity23
Figure 2.8: Homicides by Known Time of Injury24
Figure 2.9: Assaults and Homicides by Hour of Arrival at Trauma Facility.....24
Figure 2.10: Assaults and Homicides by Incident Day of Week25
Figure 2.11: Assaults and Homicides by Incident Month25
Figure 2.12: Assaults and Homicides by Mechanism.....26
Figure 2.13: Assault and Homicide Rates per 100,000 by San Diego Major Statistical Area27

Figure 2.14: Self Inflicted Injuries and Suicides by Fiscal Year29
Figure 2.15: Self Inflicted Injuries and Suicides by Gender.....30
Figure 2.16: Traumatic Suicide Rates by Age Group: Males.....31
Figure 2.17: Self Inflicted Injuries and Suicides by Age Group.....31
Figure 2.18: Self Inflicted Injuries and Suicides by Race/Ethnicity.....32
Figure 2.19: Self Inflicted Injuries and Suicides by Race/Ethnicity.....33
Figure 2.20: Self Inflicted Injury and Suicide Rates by Race/Ethnicity.....33
Figure 2.21: Suicides by Known Time of Injury34
Figure 2.22: Self Inflicted Injuries and Suicides by Hour of Arrival at Trauma Facility.....35
Figure 2.23: Self Inflicted Injuries and Suicides by Incident Day of Week36
Figure 2.24: Self Inflicted Injuries and Suicides by Incident Month.....36
Figure 2.25: Self Inflicted Injuries and Suicides by Mechanism.....37
Figure 2.26: Self Inflicted Injury and Suicide Rates per 100,000 by San Diego
Major Statistical Area.....38

Figure 3.1: Transportation Related Injuries and Deaths by Fiscal Year.....41
Figure 3.2: Transportation Related Injuries and Deaths by Gender42
Figure 3.3: Transportation Related Injury Rates by Age and Race/Ethnicity43
Figure 3.4: Transportation Related Death Rates by Age and Race/Ethnicity43
Figure 3.5: Transportation Related Injury Rates by Age and Mechanism44

Figure 3.6: Transportation Related Death Rates by Age and Mechanism44

Figure 3.7: Transportation Related Crash Deaths by Known Time of Injury45

Figure 3.8: Transportation Related Injuries and Deaths by Hour of Arrival at Trauma Facility .45

Figure 3.9: Transportation Related Injuries and Deaths by Incident Day of Week.....46

Figure 3.10: Transportation Related Injuries and Deaths by Incident Month47

Figure 3.11: Motor Vehicle Occupant Crash Injuries and Deaths by Fiscal Year48

Figure 3.12: Motor Vehicle Occupant Crash Injuries and Deaths by Gender49

Figure 3.13: Motor Vehicle Occupant Crash Injuries and Deaths by Age Group50

Figure 3.14: Motor Vehicle Occupant Crash Injuries and Deaths by Race/Ethnicity50

Figure 3.15: Motor Vehicle Occupant Crash Injuries and Deaths by Race/Ethnicity51

Figure 3.16: Motor Vehicle Occupant Crash Injury and Death Rates by Race/Ethnicity51

Figure 3.17: Motor Vehicle Occupant Crash Deaths by Known Time of Injury52

Figure 3.18: Motor Vehicle Occupant Crash Injuries and Deaths by Hour of Arrival
at Trauma Facility52

Figure 3.19: Motor Vehicle Occupant Crash Injuries and Deaths by Incident Day of Week53

Figure 3.20: Motor Vehicle Occupant Crash Injuries and Deaths by Incident Month53

Figure 3.21: Motor Vehicle Occupant Crash Injury and Death Rates per 100,000 by
San Diego Major Statistical Area54

Figure 3.22: Motorcycle Crash Injuries and Deaths by Fiscal Year55

Figure 3.23: Motorcycle Crash Injuries and Deaths by Gender56

Figure 3.24: Motorcycle Crash Injuries and Deaths by Age Group57

Figure 3.25: Motorcycle Crash Injuries and Deaths by Race/Ethnicity57

Figure 3.26: Motorcycle Crash Injuries and Deaths by Race/Ethnicity58

Figure 3.27: Motorcycle Crash Injury and Death Rates by Race/Ethnicity58

Figure 3.28: Motorcycle Crash Deaths by Known Time of Injury59

Figure 3.29: Motorcycle Crash Injuries and Deaths by Hour of Arrival at Trauma Facility59

Figure 3.30: Motorcycle Crash Injuries and Deaths by Incident Day of Week.....60

Figure 3.31: Motorcycle Crash Injuries and Deaths by Incident Month60

Figure 3.32: Motorcycle Crash Injury and Death Rates per 100,000 by San Diego
Major Statistical Area61

Figure 3.33: Pedalcycle Crash Injuries and Deaths by Fiscal Year62

Figure 3.34: Pedalcycle Crash Injuries and Deaths by Gender63

Figure 3.35: Pedalcycle Crash Injuries and Deaths by Age Group64

Figure 3.36: Pedalcycle Crash Injuries and Deaths by Race/Ethnicity64

Figure 3.37: Pedalcycle Crash Injuries and Deaths by Race/Ethnicity65

Figure 3.38: Pedalcycle Crash Injury Rates by Race/Ethnicity65

Figure 3.39: Pedalcycle Crash Deaths by Known Time of Injury66

Figure 3.40: Pedalcycle Crash Injuries and Deaths by Hour of Arrival at Trauma Facility.....66

Figure 3.41: Pedalcycle Crash Injuries and Deaths by Incident Day of Week.....67

Figure 3.42: Pedalcycle Crash Injuries and Deaths by Incident Month67

Figure 3.43: Pedalcycle Crash Injury and Death Rates per 100,000 by San Diego
Major Statistical Area68

Contents

Figure 3.44: Pedestrian Struck Injuries and Deaths by Fiscal Year	69
Figure 3.45: Pedestrian Struck Injuries and Deaths by Gender	70
Figure 3.46: Pedestrian Struck Injuries and Deaths by Age Group	71
Figure 3.47: Pedestrian Struck Injuries and Deaths by Race/Ethnicity	71
Figure 3.48: Pedestrian Struck Injuries and Deaths by Race/Ethnicity	72
Figure 3.49: Pedestrian Struck Injury and Death Rates by Race/Ethnicity	72
Figure 3.50: Pedestrian Struck Deaths by Known Time of Injury	73
Figure 3.51: Pedestrian Struck Injuries and Deaths by Hour of Arrival at Trauma Facility	73
Figure 3.52: Pedestrian Struck Injuries and Deaths by Incident Day of Week	74
Figure 3.53: Pedestrian Struck Injuries and Deaths by Incident Month	74
Figure 3.54: Pedestrian Struck Injury and Death Rates per 100,000 by San Diego Major Statistical Area	75
Figure 4.1: Fall Related Injuries and Deaths by Fiscal Year	77
Figure 4.2: Fall Related Injuries and Deaths by Gender.....	78
Figure 4.3: Fall Related Injuries and Deaths by Age Group	79
Figure 4.4: Fall Related Injuries and Deaths by Race/Ethnicity	79
Figure 4.5: Fall Related Injuries and Deaths by Race/Ethnicity	80
Figure 4.6: Fall Related Injury and Death Rates by Race/Ethnicity	80
Figure 4.7: Fall Related Deaths by Known Time of Injury	81
Figure 4.8: Fall Related Injuries and Deaths by Hour of Arrival at Trauma Facility.....	81
Figure 4.9: Fall Related Injuries and Deaths by Incident Day of Week	82
Figure 4.10: Fall Related Injuries and Deaths by Incident Month.....	82
Figure 4.11: Fall Related Injuries and Deaths by Mechanism	83
Figure 4.12: Age Distribution by Fall Mechanism	83
Figure 4.13: Fall Related Injury and Death Rates per 100,000 by San Diego Major Statistical Area	84
Figure 4.14: Sports/Recreation Injuries and Deaths by Fiscal Year	85
Figure 4.15: Sports/Recreation Injuries by Gender	86
Figure 4.16: Sports/Recreation Injuries by Age Group	87
Figure 4.17: Sports/Recreation Injuries by Race/Ethnicity	87
Figure 4.18: Sports/Recreation Injuries by Race/Ethnicity	88
Figure 4.19: Sports/Recreation Injury Rates by Race/Ethnicity	88
Figure 4.20: Sports/Recreation Injuries and Deaths by Hour of Arrival at Trauma Facility.....	89
Figure 4.21: Sports/Recreation Injuries by Incident Day of Week	89
Figure 4.22: Sports/Recreation Injuries by Incident Month	90
Figure 4.23: Sports/Recreation Injuries and Deaths by Mechanism	91
Figure 4.24: Sports/Recreation Injury and Death Rates per 100,000 by San Diego Major Statistical Area.....	92
Figure D.1: San Diego County Major Statistical Areas	133
Figure D.2: San Diego County Subregional Areas	134

The San Diego County Trauma System emerged as a result of dedicated physicians, nurses, and system specialists within the county working to develop an environment for the careful evolution of a regional trauma system. The input from these groups generated the discussion and in-depth analysis of relevant public health policy options.

In 1982, the Hospital Council (now the Healthcare Association) of San Diego and Imperial Counties conducted a needs assessment to determine if 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 Needs Assessment Study” by Amherst and Associates). The findings and recommendations of the Trauma Needs Assessment Study, released in November of 1982, led to the development of a joint Hospital Council and Medical Society plan for care of major trauma victims in San Diego County.

In October 1983, with support and direction from the San Diego County Board of Supervisors, 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 of outside trauma experts conducted public hearings and informal sessions with in-hospital and prehospital trauma care providers, and synthesized the experiences of other trauma systems into a single set of recommendations for the Department and the Board of Supervisors to consider. The recommendations urged the county to adopt trauma standards that closely approximated the American College of Surgeons guidelines. The community consensus that emerged from their effort resulted in the formal adoption of their recommendations by the County Board of Supervisors in November 1983.

Once the trauma standards were adopted, the Department implemented a competitive selection process, seeking to designate five adult trauma centers and one pediatric trauma center. Designation criteria were incorporated in a Request for Proposal and the Ad Hoc Trauma Advisory Task Force became the Proposal Review Committee to evaluate and recommend hospitals for designation. Six facilities were awarded provisional designation status based on the quality of trauma services provided.

On August 1, 1984, after sixteen months of direct preparation, major trauma victims in San Diego County began bypassing community hospitals in favor of designated trauma centers.

Since its inception, the San Diego County Trauma System has responded to nearly 150,000 patients in need of trauma care, and saved untold numbers of lives.

The six trauma centers currently designated are:

- Children’s Hospital and Health Center
- Scripps Mercy Hospital
- Palomar Medical Center
- Scripps Memorial Hospital – La Jolla
- Sharp Memorial Hospital
- U.C.S.D. Medical Center

Introduction

Currently, there are five adult trauma centers serving San Diego County: Palomar Medical Center, Scripps Memorial Hospital - La Jolla, Scripps Mercy Hospital, Sharp Memorial Hospital, and UCSD Medical Center. Children’s Hospital and Health Center serves as the pediatric trauma center. Since August 1984, more than 150,000 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 2004/05, 9,984 patients were admitted to designated trauma centers (an average of 832 patient admissions per month). The number of trauma patients decreased from the previous fiscal year by two percent.

Table 1.1: 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	---	201.57
1986/87	5,466	456	25%	243.10
1987/88	6,148	512	12%	264.05
1988/89	6,379	532	4%	263.85
1989/90	6,650	554	4%	266.21
1990/91	7,036	586	6%	278.12
1991/92	7,111	593	1%	276.42
1992/93	6,460	538	-9%	249.03
1993/94	6,399	533	-1%	245.70
1994/95	6,474	540	1%	247.75
1995/96	7,516	626	16%	286.75
1996/97	7,257	605	-3%	273.50
1997/98	7,653	638	5%	283.15
1998/99	8,435	703	10%	306.62
1999/00	8,984	749	7%	319.28
2000/01	9,351	779	4%	326.54
2001/02	9,545	795	2%	326.88
2002/03	9,990	833	5%	336.16
2003/04	10,152	846	2%	336.94
2004/05	9,984	832	-2%	328.50

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Center Monthly Reports; Population Estimates, SANDAG.

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 57% to a 17-year low of 597 in FY 2001/02 before increasing by 23% for each of the two following years. The number of blunt injuries, primarily resulting from motor vehicle related injuries and falls, has continued to increase by an average of about 8% per year. Blunt injuries experienced a corresponding increase in the proportion of all traumatic injuries, from 84% during FY 1985/86 to 91% in FY 2004/05.

Table 1.2: Trauma Center Admissions by Injury Type

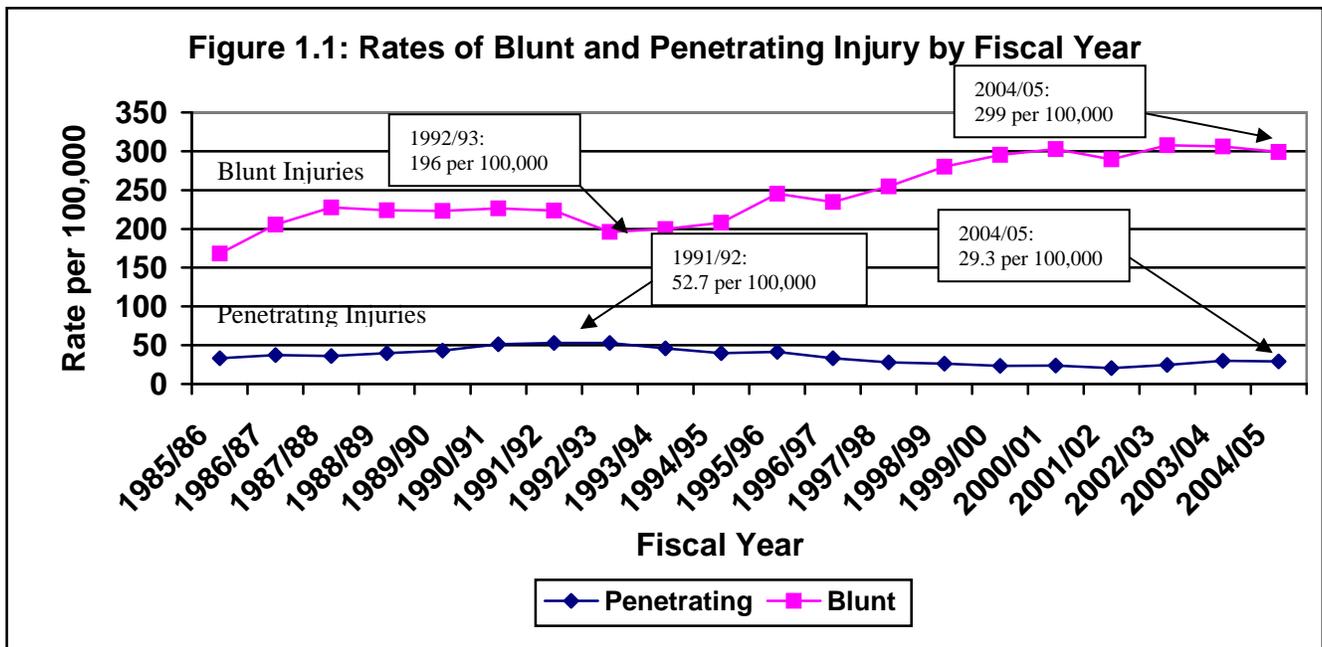
Fiscal Year	Penetrating				Blunt			
	#	%	% Change from Previous Year	Rate per 100,000 Population	#	%	% Change from Previous Year	Rate per 100,000 Population
1985/86	721	16%	---	33.55	3,653	84%	---	168.34
1986/87	841	15%	17%	37.82	4,625	85%	27%	205.70
1987/88	845	14%	<1%	36.73	5,303	86%	15%	227.76
1988/89	967	15%	14%	40.48	5,412	85%	2%	223.85
1989/90	1078	16%	11%	43.47	5,572	84%	3%	223.06
1990/91	1301	18%	21%	51.23	5,735	82%	3%	226.70
1991/92	1362	19%	5%	52.72	5,749	81%	<1%	223.48
1992/93	1375	21%	1%	52.60	5,085	79%	-12%	196.02
1993/94	1192	19%	-13%	45.18	5,207	81%	2%	199.93
1994/95	1043	16%	-13%	39.23	5,431	84%	4%	207.84
1995/96	1083	14%	4%	40.26	6,428	86%	18%	245.24
1996/97	883	12%	-18%	32.41	6,226	88%	-3%	234.64
1997/98	759	10%	-14%	27.16	6,890	90%	10%	254.92
1998/99	726	9%	-4%	25.53	7,709	91%	12%	280.23
1999/00	660	7%	-9%	22.70	8,317	93%	8%	295.58
2000/01	679	7%	3%	22.83	8,668	93%	4%	302.69
2001/02	597	7%	-12%	20.53	8,453	93%	-2%	289.49
2002/03	735	7%	23%	24.82	9,142	93%	8%	307.62
2003/04	906	9%	23%	30.07	9,246	91%	1%	306.07
2004/05	890	9%	-2%	29.28	9,094	91%	-2%	299.22

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Center Monthly Reports; Population Estimates, SANDAG.

A rate is calculated as incidence per 100,000 population. Rates were calculated using January 2005 population estimates obtained from the San Diego Association of Governments (SANDAG). Rates were not calculated for categories with fewer than five occurrences.

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

Figure 1.1 shows the trends for blunt and penetrating trauma activations from FY 1985/86 through FY 2004/05. Since FY 1992/93, the rates of blunt and penetrating injuries seen at trauma facilities have diverged. The rate of blunt injuries increased by 53%, while the penetrating injury rate, usually related to violence, decreased by 44%. These patterns reflect an increase in rates of injuries from falls at the same time that assault related injuries dropped substantially.



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

Trauma Registry Data

The American College of Surgeons Committee on Trauma initiated the Major Trauma Outcome Study (MTOS) in 1982, which pooled data from more than 100 trauma centers nationwide. To be included, trauma patients had to meet specific 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, although admission to an ICU was no longer a criterion for inclusion.

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

Of the 9,984 patients who were admitted to a trauma center during FY 2004/05, 5,941 (60%) met expanded trauma registry criteria for inclusion into the San Diego County Trauma Registry. Total trauma admissions decreased by 2% from the previous fiscal year, while the number of modified MTOS patients increased by 1%.

Table 1.3: Total MTOS Patients and Trauma Center Admissions

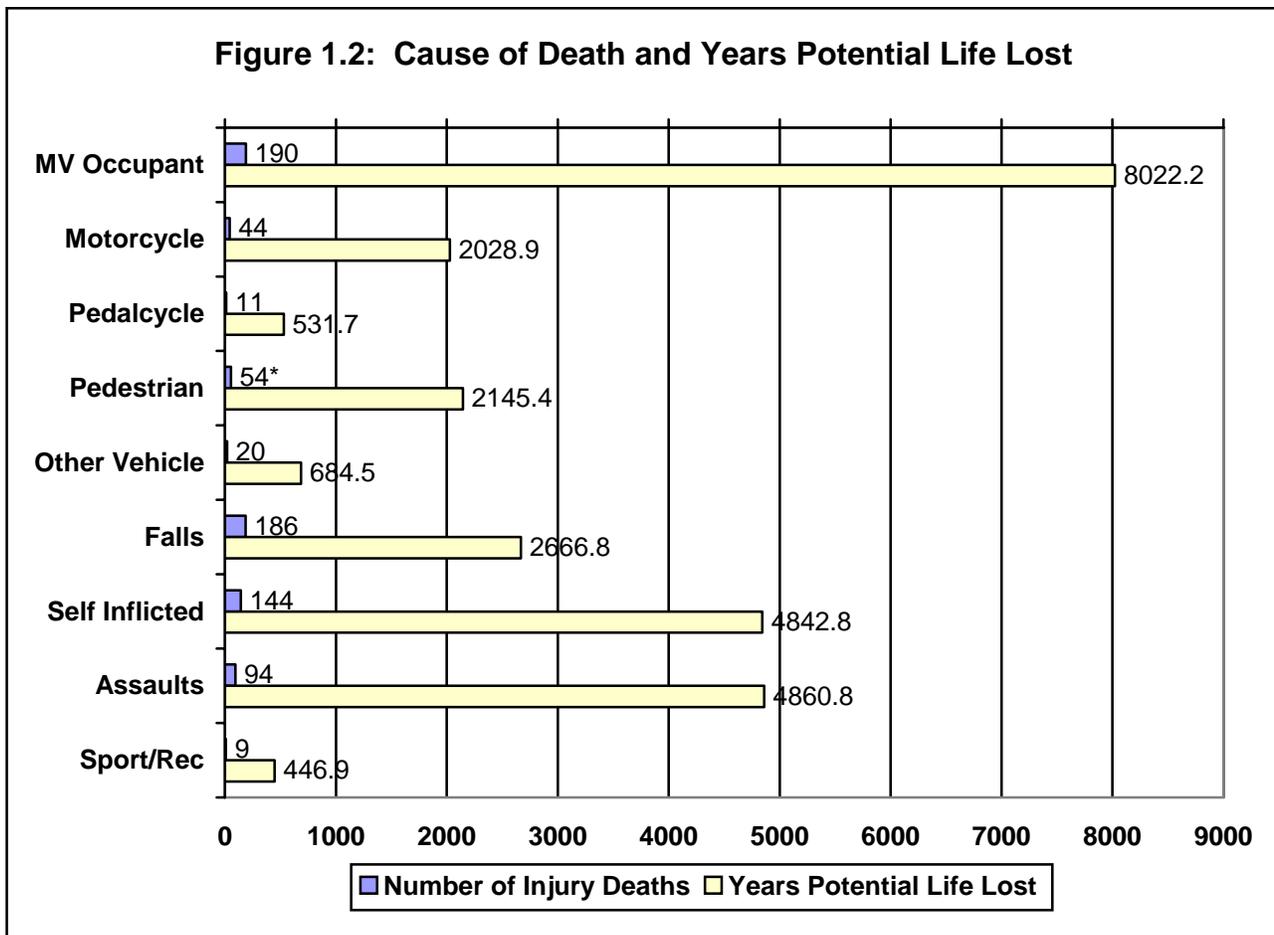
Fiscal Year	Total Trauma Admissions	% Change from Previous Year	Modified MTOS Patients	% Change from Previous Year	MTOS Percent of Total
1991/92	7,111	---	4,645	---	65%
1992/93	6,460	-9%	4,492	-3%	70%
1993/94	6,399	-1%	4,235	-6%	66%
1994/95	6,474	1%	4,085	-4%	63%
1995/96	7,516	16%	4,250	4%	57%
1996/97	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%
2001/02	9,545	2%	5,307	3%	56%
2002/03	9,990	5%	5,739	8%	57%
2003/04	10,152	2%	5,854	2%	57%
2004/05	9,984	-2%	5,941	1%	60%
Total	115,311	---	69,763	---	61%

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

Years of 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.

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

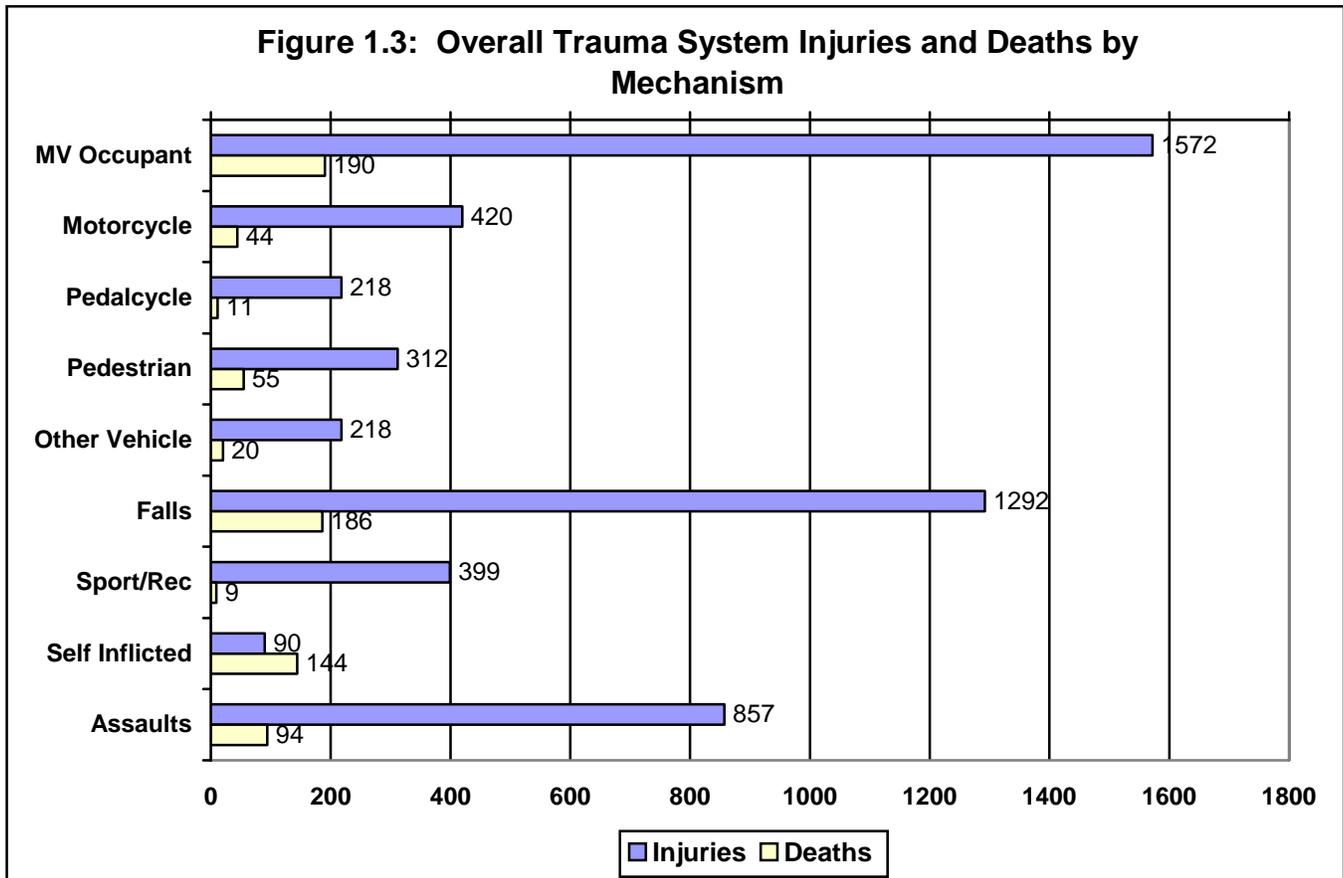
Among traumatic deaths, motor vehicle occupant crashes were the leading cause of death (190) and years potential life lost (8,022). Falls accounted for the second most deaths due to trauma (186), but about one-third the total years of potential life lost compared to motor vehicle occupant crashes. This is individuals who die from falls tend to be much older than those who die from other causes.



*Age was unknown for one pedestrian death – not included in YPLL calculation.
 Source: County of San Diego Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05
 Life Table data obtained from Arias E. United States life tables, 2003. National vital statistics reports; vol 54 no 14. Hyattsville, MD: National Center for Health Statistics. 2006.

Current Overview of Traumatic Injury in San Diego County

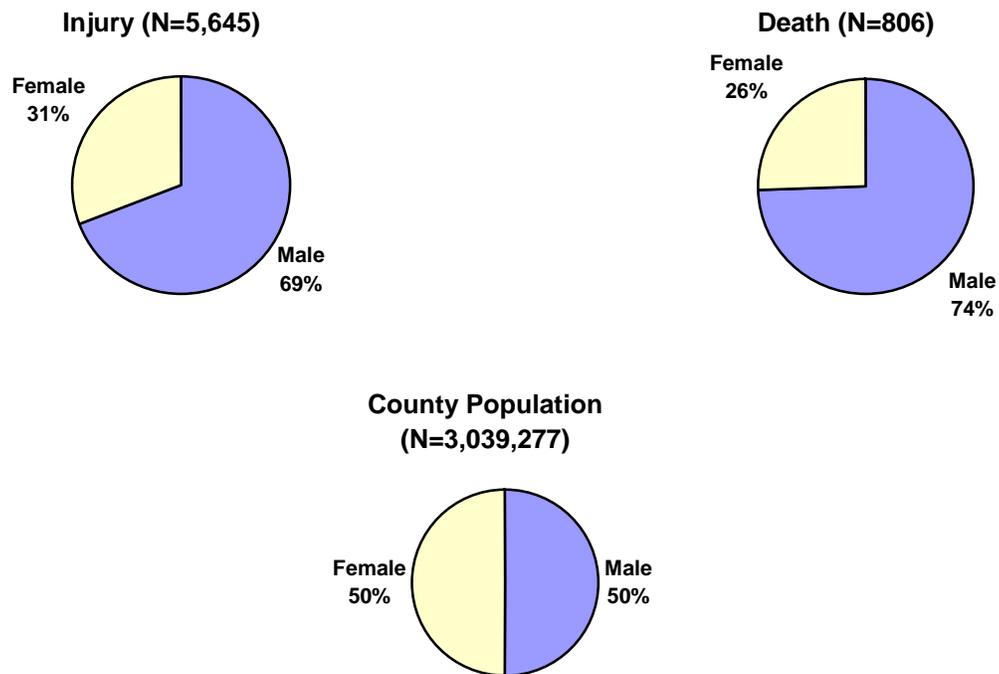
During FY 2004/05, 806 lives were lost in San Diego County due to traumatic injury. On the average, for every person who died as the result of a traumatic injury, seven more were seriously injured. Figure 1.3 breaks out deaths and injuries by mechanism. The three leading causes of traumatic injury were motor vehicle occupant crashes, falls and assaults. The leading causes of traumatic death were motor vehicle occupant crashes, falls, and suicide.



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 2004/05.

Although males made up half the county's population, they accounted for 69% of all serious injuries and 74% of deaths from trauma.

Figure 1.4: Comparison of County Population to Injuries and Deaths by Gender



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05. Population estimates, SANDAG, January 1, 2005.

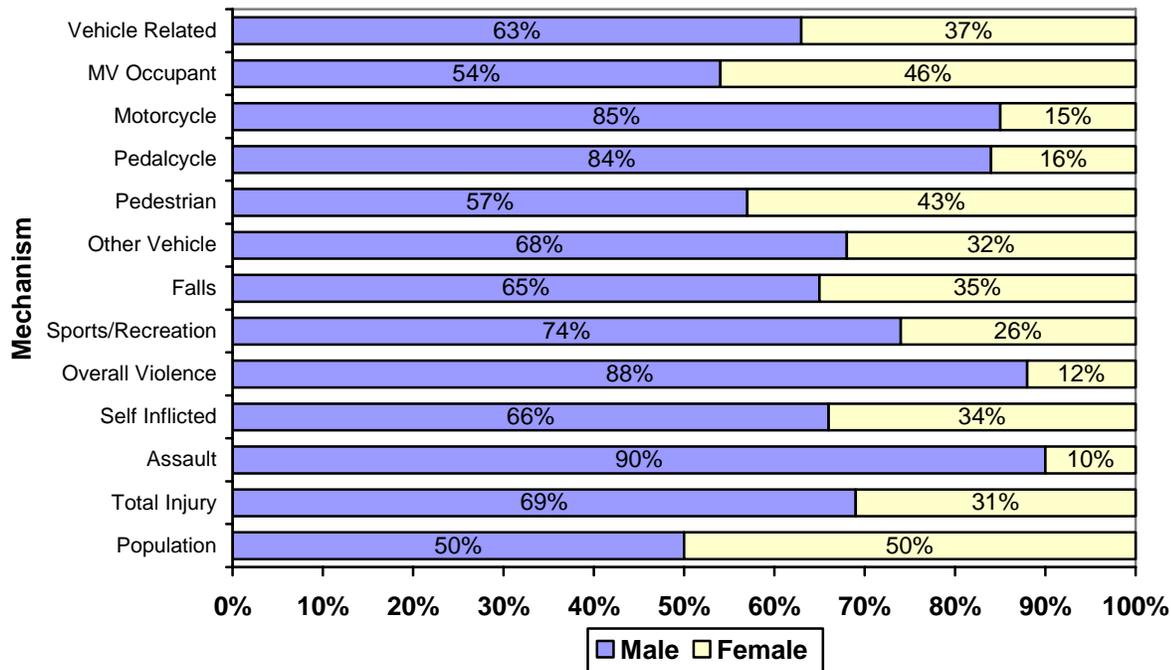
Patterns of injury were evident by gender. Males accounted for 69% of all nonfatal injuries, and were especially highly represented in assaults (90%), motorcycle crashes (85%), and pedalcycle crashes (84%). Motor vehicle occupant crashes and falls were the leading causes of injury for both males and females.

Table 1.4: Trauma System Injury by Mechanism and Gender

Mechanism	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
Vehicle Related	1,724	44%	1,016	58%	2,740	49%
<i>MV Occupant</i>	856	22%	716	41%	1,572	28%
<i>Motorcycle</i>	359	9%	61	3%	420	7%
<i>Pedalcycle</i>	184	5%	34	2%	218	4%
<i>Pedestrian</i>	177	5%	135	8%	312	6%
<i>Other Vehicle</i>	148	4%	70	4%	218	4%
Falls	839	22%	453	26%	1,292	23%
Sports/Recreation	295	8%	104	6%	399	7%
Overall Violence	830	21%	117	7%	947	17%
<i>Self Inflicted</i>	59	2%	31	2%	90	2%
<i>Assault</i>	771	20%	86	5%	857	15%
Other	198	5%	53	3%	251	4%
Unknown	11	0%	5	0%	16	0%
Total	3,897	100%	1,748	100%	5,645	100%

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05.

Figure 1.5: Percent of Gender by Injury Mechanism: Injuries



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05.

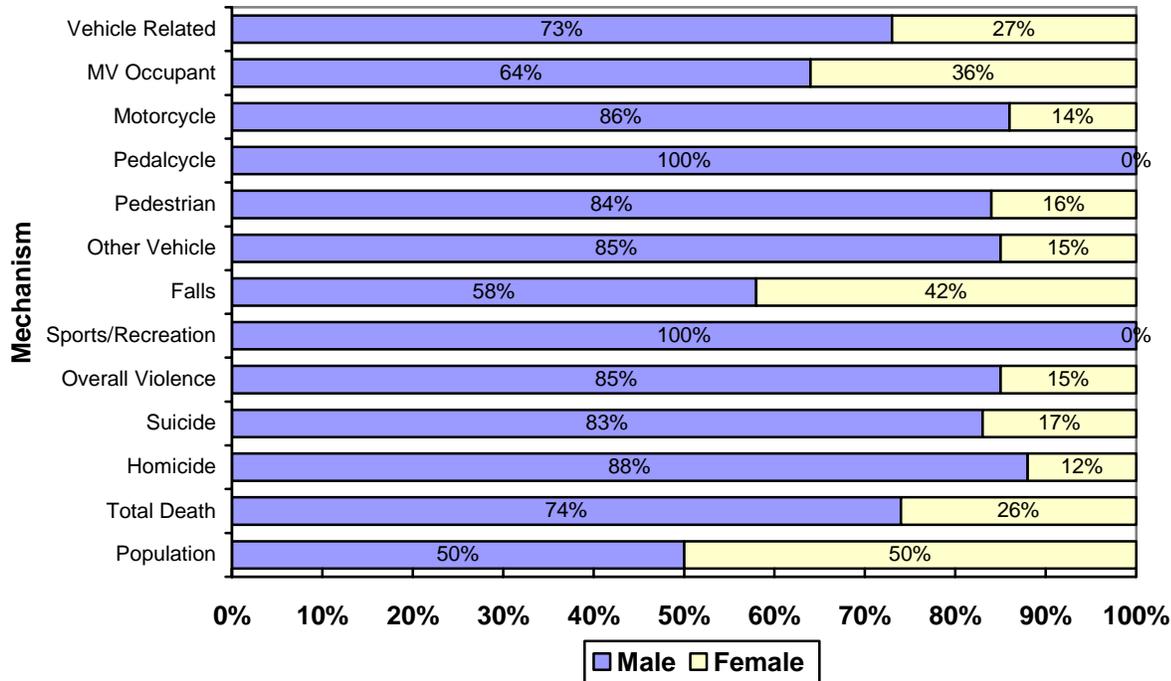
Males also made up the majority of traumatic deaths for all causes of injury. Motor vehicle occupant crashes were the leading cause of traumatic death for both men and women.

Table 1.5: Trauma System Deaths by Mechanism and Gender

Mechanism	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
Vehicle Related	234	39%	86	42%	320	40%
<i>MV Occupant</i>	122	20%	68	33%	190	24%
<i>Motorcycle</i>	38	6%	6	3%	44	5%
<i>Pedalcycle</i>	11	2%	0	0%	11	1%
<i>Pedestrian</i>	46	8%	9	4%	55	7%
<i>Other Vehicle</i>	17	3%	3	1%	20	2%
Falls	107	18%	79	38%	186	23%
Sports/Recreation	9	2%	0	0%	9	1%
Overall Violence	202	34%	36	17%	238	30%
<i>Self Inflicted</i>	119	20%	25	12%	144	18%
<i>Assault</i>	83	14%	11	5%	94	12%
Other	43	7%	4	2%	47	6%
Unknown	5	1%	1	0%	6	1%
Total	600	100%	206	100%	806	100%

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05.

Figure 1.6: Percent of Gender by Injury Mechanism: Deaths



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05.

Table 1.6 describes both the mean and median ages¹ by mechanism of injury for both injuries and deaths. As this table shows, different mechanisms have distinct age distributions. Injuries due to sports and recreational activities occurred among the youngest patients (median=20, mean=26 years), while fall injuries occurred among older patients (median=53, mean=52). Half of all those who died from falls were older than 80 years. For all mechanisms of injury, patients who died were older, on average, than those who survived.

Table 1.6: Mean and Median Age by Mechanism of Injury and Outcome

Mechanism	Survived			Expired		
	Count	Median Age	Mean Age	Count	Median Age	Mean Age
Vehicle Related	2,740	34	37	319	37	41
<i>MV Occupant</i>	1,572	34	38	190	34	41
<i>Motorcycle</i>	420	33	35	44	37	35
<i>Pedalcycle</i>	218	31	32	11	38	32
<i>Pedestrian</i>	312	38	37	54	41	43
<i>Other Vehicle</i>	218	35	38	20	50	50
Falls	1,292	53	52	186	80	76
Sport/Rec	399	20	26	9	27	30
Overall Violence	947	27	31	238	42	42
<i>Self Inflicted/Suicide</i>	90	36	38	144	49	50
<i>Assault/Homicide</i>	857	26	30	94	23	30
Other	251	35	34	46	46	47
Unknown	16	26	29	6	25	26
Total	5,645	35	38	804	47	49

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05.

Note: Age was unknown for two 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. Forty percent of all severe injuries occurred among patients in this age range, including 62% of assaults, 47% of self-inflicted injuries, 50% of motorcycle injuries, and 45% 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 24% of non-fatal traumatic injuries.

For a list of the leading causes of severe injury and death by age group, see appendix A. For a list of county population by age group, see appendix C.

Table 1.7: Trauma System Injuries by Mechanism and Age Group in Years

Mechanism	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	45	67	98	316	400	452	432	435	224	130	110	31	0	2,740
<i>MV Occupant</i>	22	27	33	189	244	279	230	238	127	80	82	21	0	1,572
<i>Motorcycle</i>	1	3	5	41	75	92	77	83	33	5	4	1	0	420
<i>Pedalcycle</i>	6	19	33	26	16	17	34	38	16	10	2	1	0	218
<i>Pedestrian</i>	12	16	26	31	29	28	52	43	34	23	14	4	0	312
<i>Other Vehicle</i>	4	2	1	29	36	36	39	33	14	12	8	4	0	218
Falls	91	40	17	45	73	109	146	145	134	131	217	144	0	1,292
Sports/Recreation	7	31	75	78	34	58	49	41	21	3	2	0	0	399
Overall Violence	17	2	16	167	195	215	176	103	34	14	5	3	0	947
<i>Self Inflicted</i>	0	0	2	7	8	27	20	9	12	3	2	0	0	90
<i>Assault</i>	17	2	14	160	187	188	156	94	22	11	3	3	0	857
Other	11	15	8	27	34	30	48	36	24	12	4	2	0	251
Unknown	0	0	0	2	4	6	2	2	0	0	0	0	0	16
Total	171	155	214	635	740	870	853	762	437	290	338	180	0	5,645

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05.

The ten-year age group with the highest number of traumatic deaths was 15-24, with 18%. This age group made up 51% of all motor vehicle occupant deaths, and 37% of homicide victims.

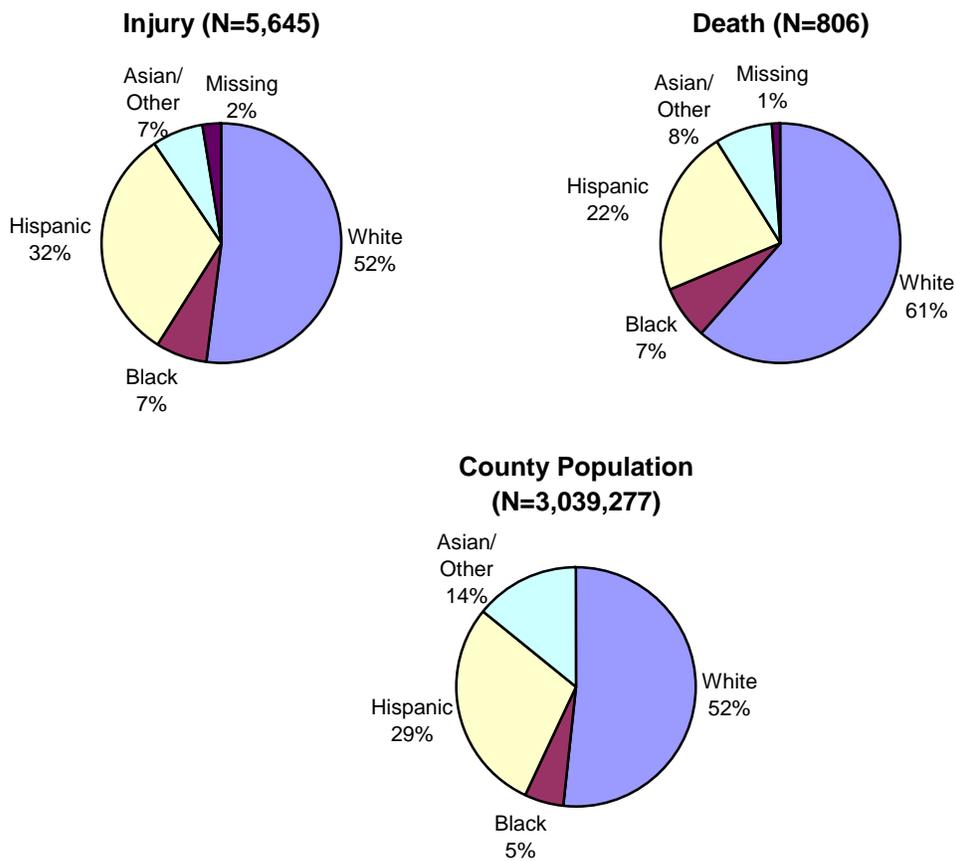
Table 1.8: Trauma System Deaths by Mechanism and Age Group in Years

Mechanism	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	7	4	8	26	49	55	44	54	21	19	22	10	1	320
<i>MV Occupant</i>	4	3	4	19	32	37	19	24	10	12	17	9	0	190
<i>Motorcycle</i>	0	0	2	3	11	4	10	12	2	0	0	0	0	44
<i>Pedalcycle</i>	1	1	0	1	1	1	2	3	1	0	0	0	0	11
<i>Pedestrian</i>	2	0	2	2	3	10	11	11	5	5	3	0	1	55
<i>Other Vehicle</i>	0	0	0	1	2	3	2	4	3	2	2	1	0	20
Falls	0	0	0	1	1	4	3	13	17	29	53	65	0	186
Sports/Recreation	0	1	0	1	1	2	1	3	0	0	0	0	0	9
Overall Violence	5	0	1	32	27	32	41	42	20	18	12	8	0	238
<i>Self Inflicted</i>	0	0	1	4	7	22	27	33	16	16	11	7	0	144
<i>Assault</i>	5	0	0	28	20	10	14	9	4	2	1	1	0	94
Other	1	1	2	1	4	7	5	8	7	4	3	3	1	47
Unknown	1	0	0	0	2	1	1	1	0	0	0	0	0	6
Total	14	6	11	61	84	101	95	121	65	70	90	86	2	806

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05.

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

Figure 1.7: Comparison of County Population to Injuries and Deaths By Race/Ethnicity



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05. Population estimates, SANDAG, January 1, 2005.

Whites made up 52% of the overall county population, but made up a larger proportion of injuries and deaths from motorcycle crashes (68% of injuries, 77% of deaths), falls (62% of injuries, 77% of deaths), and self inflicted injuries (58% of injuries, 77% of deaths). Blacks, with 5% of the total population, were more severely impacted by assaults (17% of injuries, 26% of deaths).

Table 1.9: Trauma System Injuries by Mechanism and Race/Ethnicity

Mechanism	White	Black	Hispanic	Asian/Other	Missing	Total
Vehicle Related	1,403	175	887	214	61	2,740
<i>MV Occupant</i>	726	104	563	144	35	1,572
<i>Motorcycle</i>	286	23	73	26	12	420
<i>Pedalcycle</i>	132	10	65	9	2	218
<i>Pedestrian</i>	129	20	131	25	7	312
<i>Other Vehicle</i>	130	18	55	10	5	218
Falls	796	47	323	82	44	1,292
Sports/Recreation	273	13	80	28	5	399
Overall Violence	332	148	389	61	17	947
<i>Self Inflicted</i>	52	4	24	8	2	90
<i>Assault</i>	280	144	365	53	15	857
Other	116	11	102	14	8	251
Unknown	10	2	2	2	0	16
Total	2,930	396	1,783	401	135	5,645

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05.

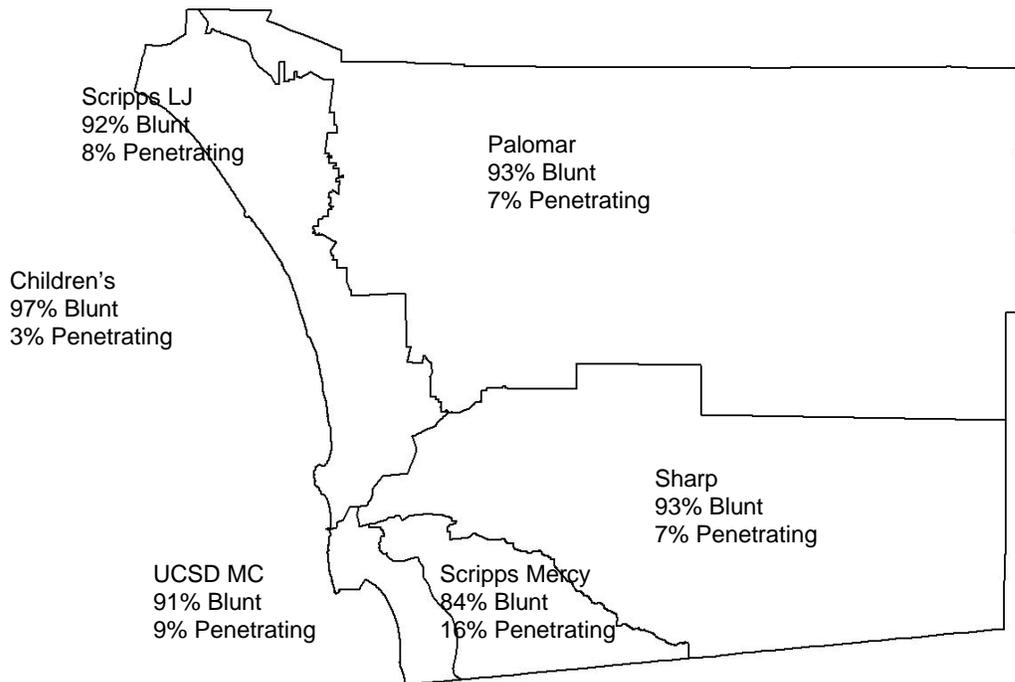
Table 1.10: Trauma System Deaths by Mechanism and Race/Ethnicity

Mechanism	White	Black	Hispanic	Asian/Other	Missing	Total
Vehicle Related	182	16	92	27	3	320
<i>MV Occupant</i>	109	7	57	16	1	190
<i>Motorcycle</i>	34	3	5	2	0	44
<i>Pedalcycle</i>	5	1	4	0	1	11
<i>Pedestrian</i>	18	5	22	9	1	55
<i>Other Vehicle</i>	16	0	4	0	0	20
Falls	144	5	21	14	2	186
Sports/Recreation	7	1	1	0	0	9
Overall Violence	132	33	53	19	1	238
<i>Suicide</i>	114	9	9	12	0	144
<i>Homicide</i>	18	24	44	7	1	94
Other	27	3	13	2	2	47
Unknown	3	1	1	1	0	6
Total	495	59	181	63	8	806

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05.

Among patients seen at trauma facilities in San Diego County, 91% of injuries were blunt in nature (e.g., motor vehicle related, falls, or assaults with a blunt object). Ninety-seven percent of Children’s Hospital and Health Center’s trauma patients sustained blunt injuries. Scripps Mercy Hospital and UCSD Medical Center received the highest percentages of penetrating injuries among each facility’s trauma patients (16% and 9% of trauma patients at Scripps Mercy and UCSD, respectively). Penetrating injuries include stabs and gunshot wounds primarily, so tend to indicate the proportion of injuries due to violence.

Figure 1.8: Distribution of Trauma Center Patients by Hospital and Injury Type



Source: San Diego County Trauma Center Monthly Reports, FY 2004/05.

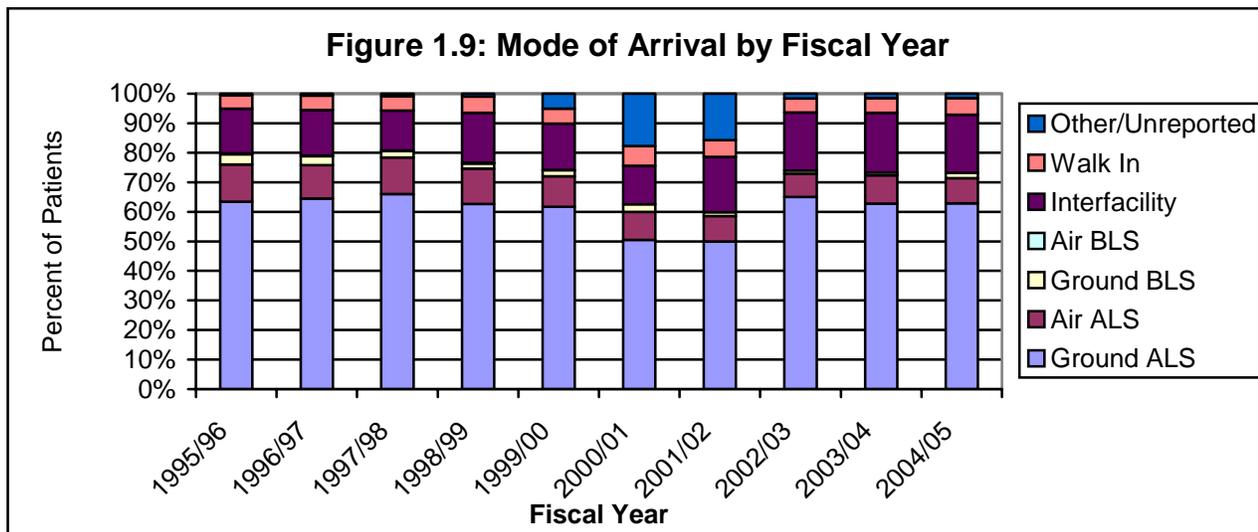
Trauma System Resources

During fiscal year 2004/05, San Diego County had 19 civilian and two military emergency departments. The 19 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, one air transport agency, and 33 basic life support (BLS) agencies. Sixty three percent of trauma patients were reported to have been transported to trauma centers by ground ALS ambulance units.

Table 1.11: Trauma Patient Mode of Arrival

Transport Mode	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05
Ground ALS	2,694	2,740	3,268	3,128	3,143	2,610	2,652	3,730	3,675	3,732
Air ALS	535	484	611	598	525	488	453	450	558	510
Ground BLS	149	126	107	87	106	134	71	61	59	109
Air BLS	11	9	12	15	5	0	0	1	1	0
Interfacility	646	660	668	843	796	672	996	1,132	1,184	1,165
Walk In	193	206	241	274	261	349	302	273	290	334
Other/Unreported	22	28	44	50	257	916	833	92	87	91
Total	4,250	4,253	4,951	4,995	5,093	5,169	5,307	5,739	5,854	5,941

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 1995/96 - 2004/05.



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 1995/96 - 2004/05.

The mean time spent on scene with a trauma patient prior to transport was 16 minutes during fiscal year 2004/05, and ranged from 16 minutes for Air and Ground Advanced Life Support (ALS) to 28 minutes for ground BLS ambulance units. Prolonged scene times can be attributed to the type of call, complicated extrication procedures, road conditions, and difficulty accessing patients.

Table 1.12: Mean Scene Time, in Minutes, by Mode of Arrival

Year	Ground ALS		Air ALS		Ground BLS		Air BLS		Overall	
	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean
1993/94	0-121	15	1-99	31	1-85	17	38-150	48	0-150	18
1994/95	0-218	15	4-120	26	1-71	21	5-26	16	0-218	17
1995/96	0-107	15	5-120	22	1-83	20	20-36	29	0-120	16
1996/97	1-72	16	1-71	21	6-59	19	*	*	1-72	17
1997/98	1-336	18	5-110	25	4-33	17	8-24	14	1-336	19
1998/99	0-88	18	4-123	24	5-52	20	10-24	15	0-123	19
1999/00	0-86	18	2-145	22	5-45	18	11-22	16	0-145	19
2000/01	0-113	18	0-66	19	22-37	21	*	*	0-113	20
2001/02	0-55	23	0-273	16	12-28	20	*	*	0-273	17
2002/03	0-110	17	0-85	16	9-25	15	*	*	0-110	16
2003/04	0-195	15	3-102	14	9-98	25	*	*	0-195	15
2004/05	0-87	16	0-146	16	7-60	20	*	*	0-146	17

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry, FYs 1993/94-2004/05.

Note: Scene times were reported for 44% of eligible incidents.

*Insufficient data to calculate range and mean

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 given by the Injury Severity Score (ISS), which is a measure of the three most severely injured body regions, and 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 84%. Over time, the survival percentage for patients with ISS 15 or greater has increased from 77.6% in FY 1992/93 to 83.8% in 2004/05.

Table 1.13: Trauma Patient Outcomes by Injury Severity Score

Fiscal Year	Injury Severity Score					
	<9		9-14		15+	
	Survived (%)	Expired (%)	Survived (%)	Expired (%)	Survived (%)	Expired (%)
1992/93	1,895 (99.80%)	4 (0.20%)	1,296 (99.30%)	9 (0.70%)	1,000 (77.60%)	288 (22.30%)
1993/94	1,721 (99.70%)	5 (0.30%)	1,239 (98.80%)	14 (1.20%)	986 (78.50%)	270 (21.40%)
1994/95	1,598 (99.70%)	4 (0.30%)	1,236 (99.50%)	5 (0.50%)	944 (76.00%)	298 (24.00%)
1995/96	1,851 (99.99%)	1 (0.01%)	1,321 (99.40%)	8 (0.60%)	1,072 (80.54%)	259 (19.46%)
1996/97	1,959 (99.70%)	5 (0.30%)	1,362 (99.80%)	3 (0.20%)	932 (80.00%)	233 (20.00%)
1997/98	2,297 (99.78%)	5 (0.21%)	1,381 (99.42%)	8 (0.58%)	977 (81.01%)	229 (18.99%)
1998/99	2,301 (99.57%)	10 (0.21%)	1,392 (99.00%)	14 (1.00%)	1,057 (82.71%)	221 (17.29%)
1999/00	2,329 (99.53%)	11 (0.47%)	1,503 (99.40%)	9 (0.60%)	954 (82.81%)	198 (17.19%)
2000/01	2,171 (99.31%)	15 (0.69%)	1,634 (99.15%)	14 (0.85%)	1,038 (80.65%)	249 (19.35%)
2001/02	2,265 (99.34%)	15 (0.66%)	1,633 (98.97%)	17 (1.03%)	1,114 (83.20%)	225 (16.80%)
2002/03	2,296 (99.48%)	12 (0.52%)	1,860 (99.04%)	18 (0.96%)	1,254 (82.61%)	264 (17.39%)
2003/04	2,179 (99.36%)	14 (0.64%)	1,997 (99.11%)	18 (0.89%)	1,374 (83.78%)	266 (16.22%)
2004/05	2,292 (99.48%)	12 (0.52%)	1,969 (99.09%)	18 (0.91%)	1,372 (83.81%)	265 (16.19%)

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry: FY 1992/93 to 2004/05.

The 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.

One measure of the demand on the trauma system is hospital length of stay (LOS). During FY 2004/05, trauma patients spent a total of 34,716 days admitted to trauma facilities. This means that the trauma system cared for an average of 95 patients per day. Victims of motorcycle and pedestrian crashes spent the most time in the hospital on average, with 7.5 days per patient. Motor vehicle occupant injuries resulted in the highest total number of patient days in trauma facilities, making up 30% of the overall length of stay.

Table 1.14: Patient Length of Stay (LOS) by Mechanism of Injury and Death

Mechanism	Survived				Expired			
	Patients	Median LOS	Mean LOS	Total LOS	Patients	Median LOS	Mean LOS	Total LOS
Vehicle Related	2,740	3.04	6.68	18,290.25	114	0.50	4.48	511.12
<i>MV Occupant</i>	1,572	2.82	6.50	10,219.39	59	1.38	5.54	327.11
<i>Motorcycle</i>	420	3.35	7.61	3,195.83	19	1.54	4.61	87.60
<i>Pedalcycle</i>	218	2.78	4.65	1,012.67	7	0.08	4.37	30.56
<i>Pedestrian</i>	312	3.68	7.88	2,459.89	22	0.04	2.28	50.25
<i>Other Vehicle</i>	218	3.58	6.43	1,402.47	7	0.01	2.23	15.60
Falls	1,292	2.95	5.67	7,324.51	91	2.17	5.30	482.56
Sports/Recreation	399	2.77	4.19	1,670.22	7	1.08	10.08	70.54
Overall Violence	947	2.71	5.04	4,772.22	70	0.13	1.03	72.06
<i>Self Inflicted/Suicide</i>	90	3.51	7.19	647.45	20	0.36	1.04	20.83
<i>Assault/Homicide</i>	857	2.67	4.81	4,124.76	50	0.08	1.02	51.23
Other	251	2.66	5.52	1,384.68	14	1.09	3.00	41.95
Unknown	16	3.49	6.02	96.33	0	--	--	--
Total	5,645	2.92	5.94	33,538.21	296	0.81	3.98	1,178.23

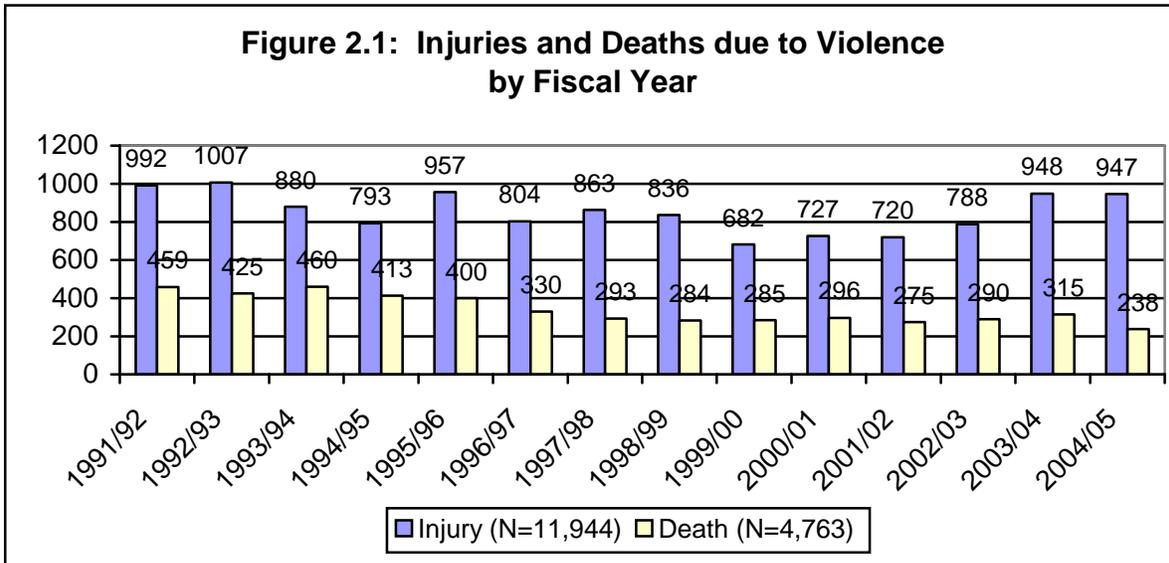
Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry, FY 2004/05.

Mechanism	Total (Survived + Expired)			
	Patients	Median LOS	Mean LOS	Total LOS
Vehicle Related	2,854	3.00	6.59	18,801.37
<i>MV Occupant</i>	1,631	2.81	6.47	10,546.50
<i>Motorcycle</i>	439	3.33	7.48	3,283.43
<i>Pedalcycle</i>	225	2.76	4.64	1,043.23
<i>Pedestrian</i>	334	3.55	7.52	2,510.13
<i>Other Vehicle</i>	225	3.40	6.30	1,418.07
Falls	1,383	2.92	5.65	7,807.07
Sport/Rec	406	2.72	4.29	1,740.76
Overall Violence	1,017	2.62	4.76	4,844.28
<i>Self Inflicted/Suicide</i>	110	2.88	6.08	668.28
<i>Assault/Homicide</i>	907	2.59	4.60	4,175.99
Other	265	2.62	5.38	1,426.63
Unknown	16	3.49	6.02	96.33
Total	5,941	2.85	5.84	34,716.44

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry, FY 2004/05.

Violent Injuries

Violence that results in injury can be interpersonal (assault, homicide, legal intervention) or self-inflicted (self-inflicted injury or suicide). From FY 1991/92 through 2004/05 there were more than nine times as many interpersonal-related non-fatal injuries as self-inflicted non-fatal injuries, but the majority of fatal violent injuries were self-inflicted. The number of non-fatal injuries due to violence (both assault and self-inflicted) decreased by 32% from FY 1992/93 to 1999/00, but increased by 39% over the next four years. The number of deaths from violent trauma fell to its lowest number in the past 14 years in 2004/05 (238), just over half the peak number from FY 1993/94.



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 - 2004/05

Table 2.1: Number and Rate (per 100,000) of Injuries and Deaths from Violence by Fiscal Year

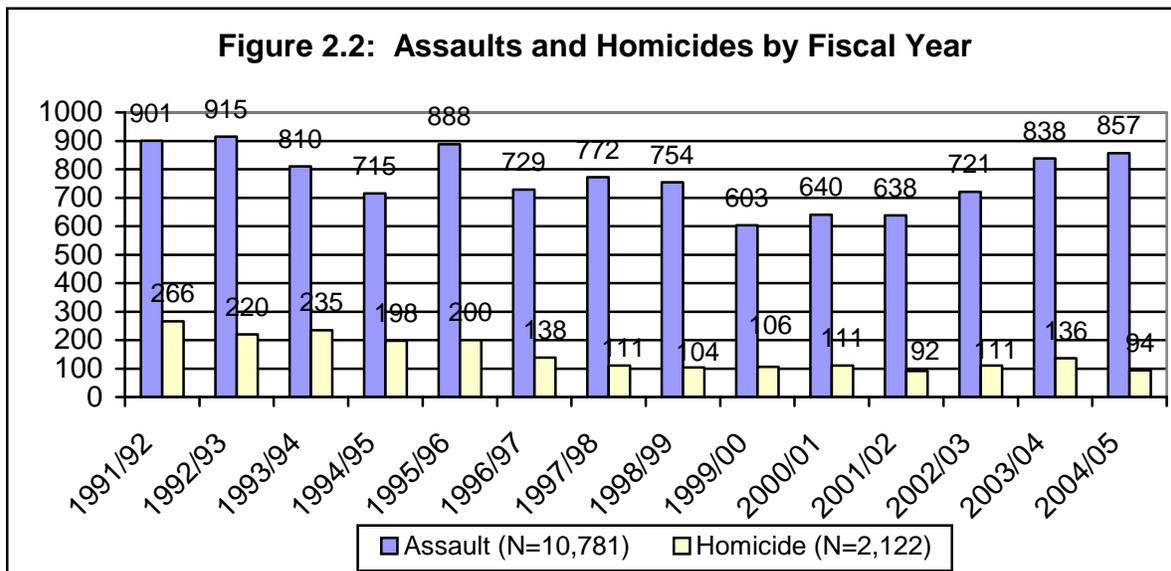
Fiscal Year	Injury		Death		Total	
	Incidence	Rate	Incidence	Rate	Incidence	Rate
1991/92	992	38.56	459	17.84	1451	56.40
1992/93	1007	38.82	425	16.38	1432	55.20
1993/94	880	33.79	460	17.66	1340	51.45
1994/95	793	30.35	413	15.80	1206	46.15
1995/96	957	36.51	400	15.26	1357	51.77
1996/97	804	30.30	330	12.44	1134	42.74
1997/98	863	31.93	293	10.84	1156	42.77
1998/99	836	30.39	284	10.32	1120	40.71
1999/00	682	24.24	285	10.13	967	34.37
2000/01	727	25.39	296	10.34	1023	35.72
2001/02	720	24.66	275	9.42	995	34.08
2002/03	788	26.52	290	9.76	1078	36.27
2003/04	948	31.46	315	10.45	1263	41.92
2004/05	947	31.16	238	7.83	1185	38.99

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 - 2004/05

Homicide and Assault

Homicide was the fourth leading cause of traumatic death and accounted for the second greatest number of years of potential life lost during FY 2004/05 (see figure 1.2). For every homicide, there were 9.1 nonfatal severe assaults.

Nonfatal injuries from traumatic assaults decreased by 33% from FY 1991/92 to 1999/00, but this number has increased to its highest point in the last nine years during FY 2004/05. Homicides have remained relatively low since the late 90's.



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 - 2004/05

Table 2.2: Number and Rate (per 100,000) of Assaults and Homicides by Fiscal Year

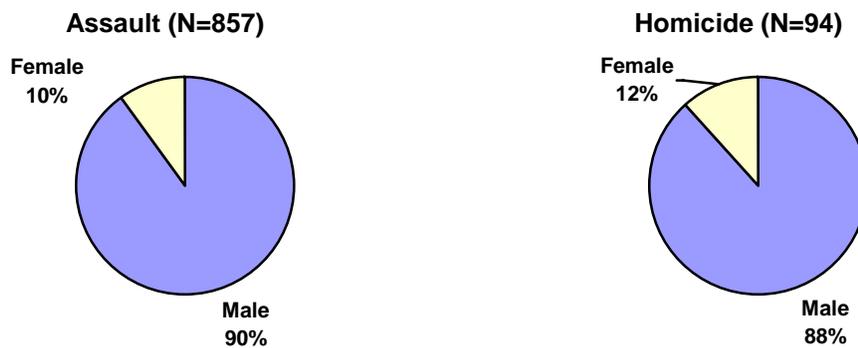
Fiscal Year	Assault		Homicide		Total	
	Incidence	Rate	Incidence	Rate	Incidence	Rate
1991/92	901	35.02	266	10.34	1167	45.36
1992/93	915	35.27	220	8.48	1135	43.75
1993/94	810	31.10	235	9.02	1045	40.12
1994/95	715	27.36	198	7.58	913	34.94
1995/96	888	33.88	200	7.63	1088	41.51
1996/97	729	27.47	138	5.20	867	32.68
1997/98	772	28.56	111	4.11	883	32.67
1998/99	754	27.41	104	3.78	858	31.19
1999/00	603	21.43	106	3.77	709	25.20
2000/01	640	22.35	111	3.88	751	26.23
2001/02	638	21.85	92	3.15	730	25.00
2002/03	721	24.26	111	3.74	832	28.00
2003/04	838	27.81	136	4.51	974	32.33
2004/05	857	28.20	94	3.09	951	31.29

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 - 2004/05

Males were disproportionately affected by interpersonal violence, with 90% of nonfatal injuries from assaults and 88% of homicides.

The age- and gender-specific assault and homicide rates show that males 20-24 years of age were at highest risk for assault injuries (133 per 100,000), while 15 to 19 year old males had the highest homicide risk (23 per 100,000). The highest-risk age group for females was 0 to 4 years, with an assault rate of 9.9 per 100,000.

Figure 2.3: Assaults and Homicides by Gender



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2004/05.

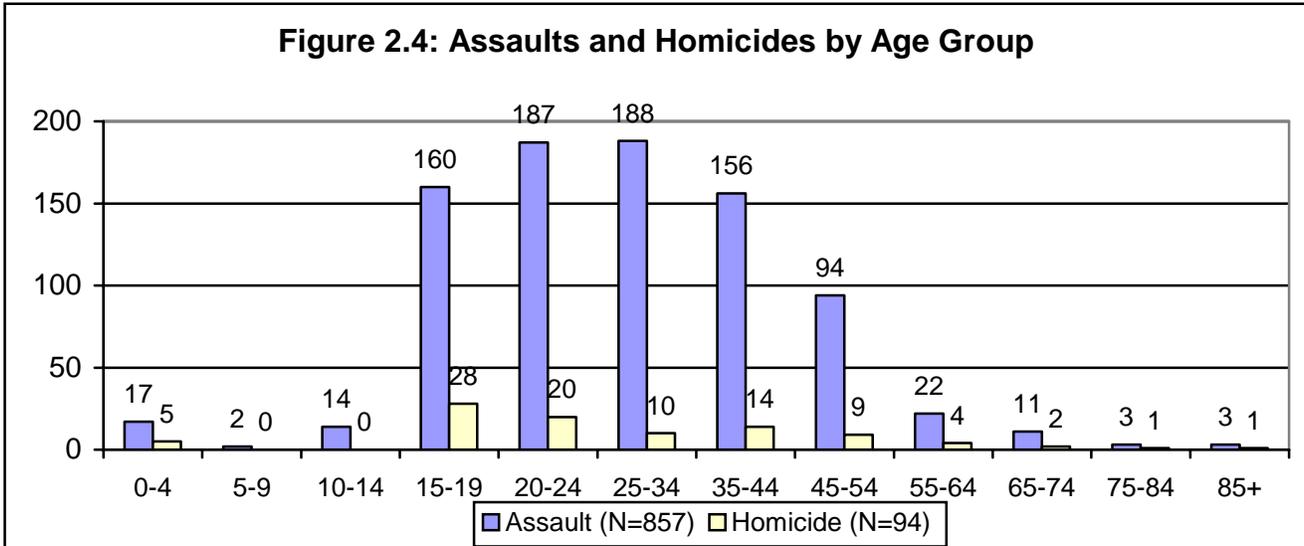
Table 2.3: Number and Rate (per 100,000) of Assault and Homicide by Age Group and Gender

Age Group	Assault						Homicide						Overall Total	
	Male		Female		Total		Male		Female		Total		Number	Rate
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate		
0-4	6	5.30	11	9.87	17	7.56	3	*	2	*	5	2.22	22	9.79
5-9	1	*	1	*	2	*	0	*	0	*	0	*	2	*
10-14	12	10.86	2	*	14	6.44	0	*	0	*	0	*	14	6.44
15-19	150	124.72	10	9.16	160	69.75	28	23.28	0	*	28	12.21	188	81.96
20-24	179	132.79	8	7.69	187	78.31	19	14.10	1	*	20	8.37	207	86.68
25-34	167	69.86	21	9.50	188	40.86	8	3.35	2	*	10	2.17	198	43.03
35-44	146	62.77	10	4.35	156	33.72	14	6.02	0	*	14	3.03	170	36.75
45-54	79	39.29	15	7.19	94	22.95	7	3.48	2	*	9	2.20	103	25.15
55-64	18	14.04	4	*	22	8.24	3	*	1	*	4	*	26	9.74
65-74	8	10.85	3	*	11	6.80	1	*	1	*	2	*	13	8.03
75-84	3	*	0	*	3	*	0	*	1	*	1	*	4	*
85+	2	*	1	*	3	*	0	*	1	*	1	*	4	*
Unknown	0		0		0		0		0		0		0	
Total	771	50.70	86	5.66	857	21.94	83	5.46	11	0.72	94	3.09	951	31.29

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2004/05; Population estimates, SANDAG.

*Rates not calculated on less than five incidents.

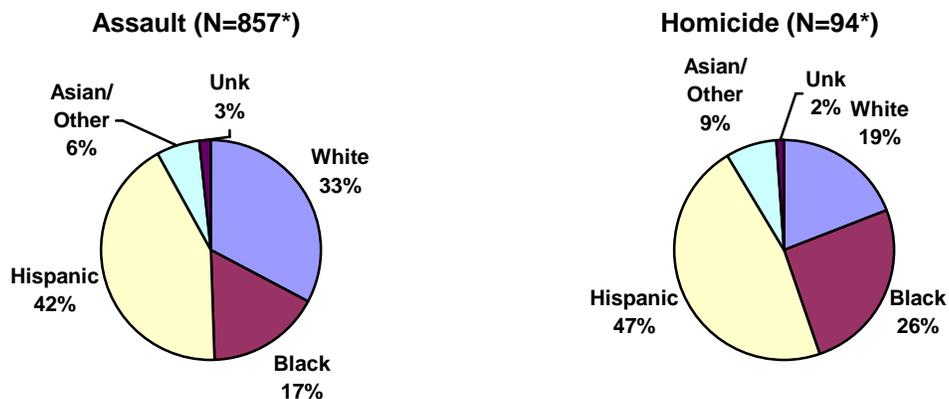
Figure 2.4 shows the age distribution of assault and homicide. Violent interpersonal injuries cluster strongly in teenagers and young adults, with persons aged 15-34 years sustaining 62% of assaults and 62% of homicides.



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

The Black population was most over represented among assault and homicide victims. In spite of making up only five percent of the county population (see figure 1.5), 17% of assaults and 26% of homicide victims were Black.

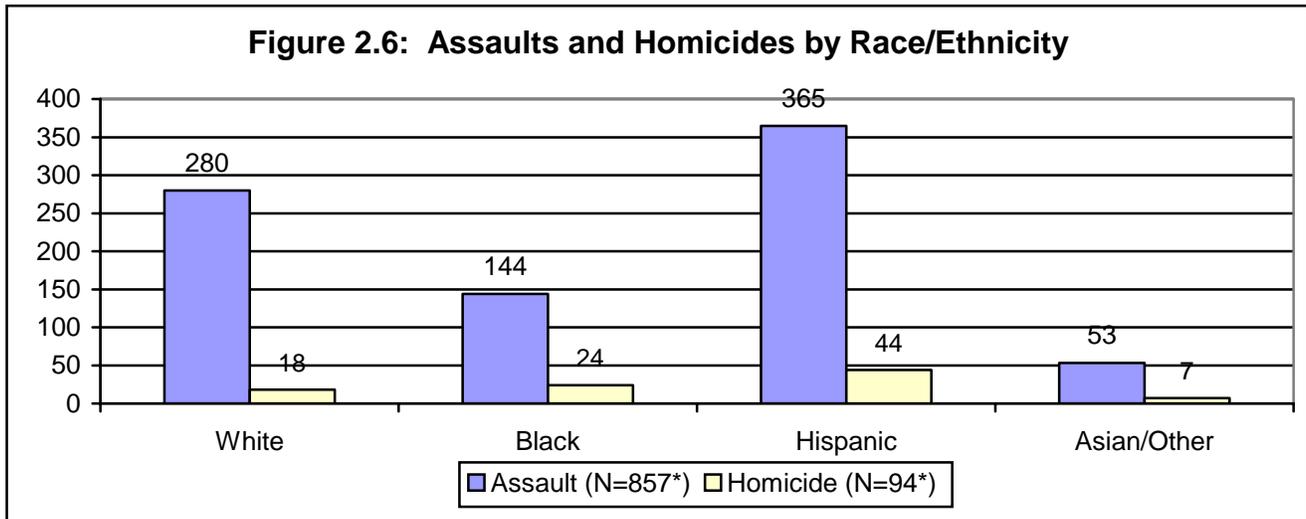
Figure 2.5: Assaults and Homicides by Race/Ethnicity



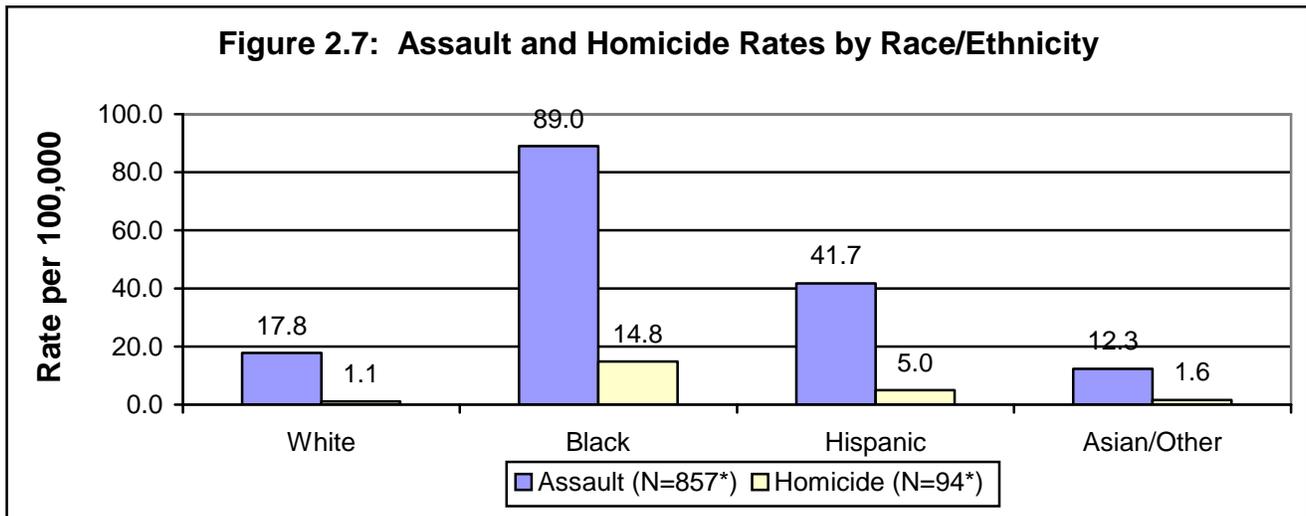
*Totals include 15 assaults and 1 homicide with unspecified race/ethnicity

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05.

Figure 2.6 shows the number of assaults and homicides by race/ethnicity, while figure 2.7 illustrates the rate per 100,000 population. As these figure 2.6 shows, the highest number of assaults and homicides are seen among the White and Hispanic populations. The rates shown in figure 2.7, however, show that the Black population is at the highest risk of injury and death from assault.

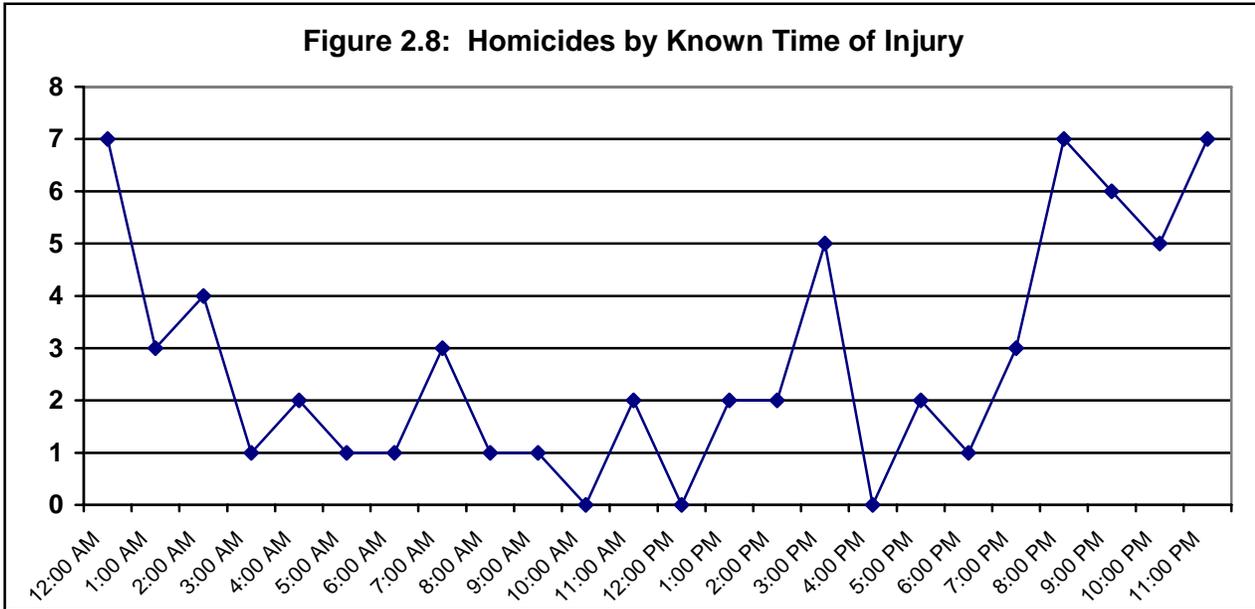


*Totals include 15 assaults and 1 homicide with unspecified race/ethnicity.
 Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05.

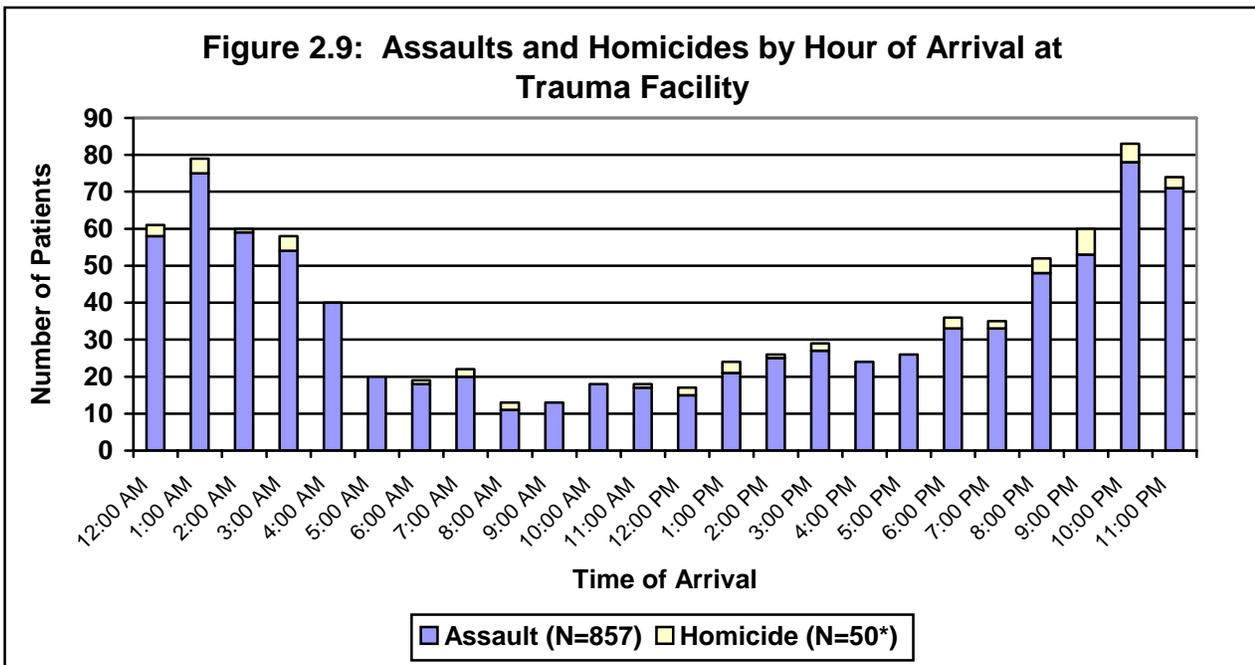


*Totals include 15 assaults and 1 homicide with unspecified race/ethnicity.
 Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05.

Homicides were most common in the evening hours, with 64% of incidents occurring between the hours of 7:00 p.m. and 3:00 a.m. The nocturnal demand on trauma facilities is shown in figure 2.9, which shows that 52% of assault-related trauma patients arrived between 8:00 p.m. and 3:00 a.m.

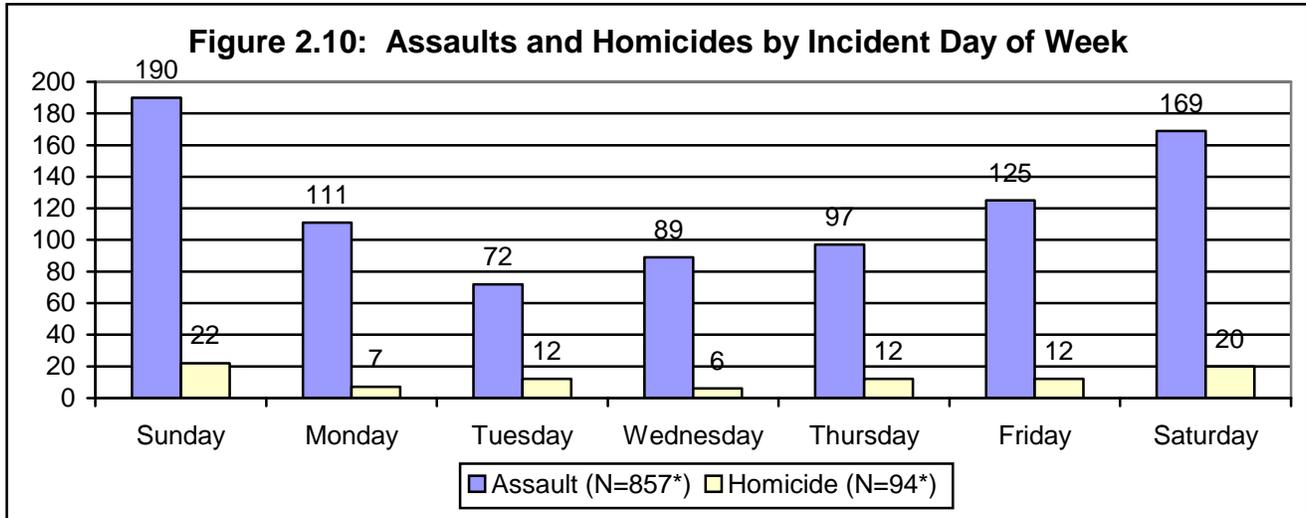


All times are in one hour increments, for example, 6:00 - 6:59 = 6:00
 There were 28 homicides with an unidentified time of injury
 Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2004/05

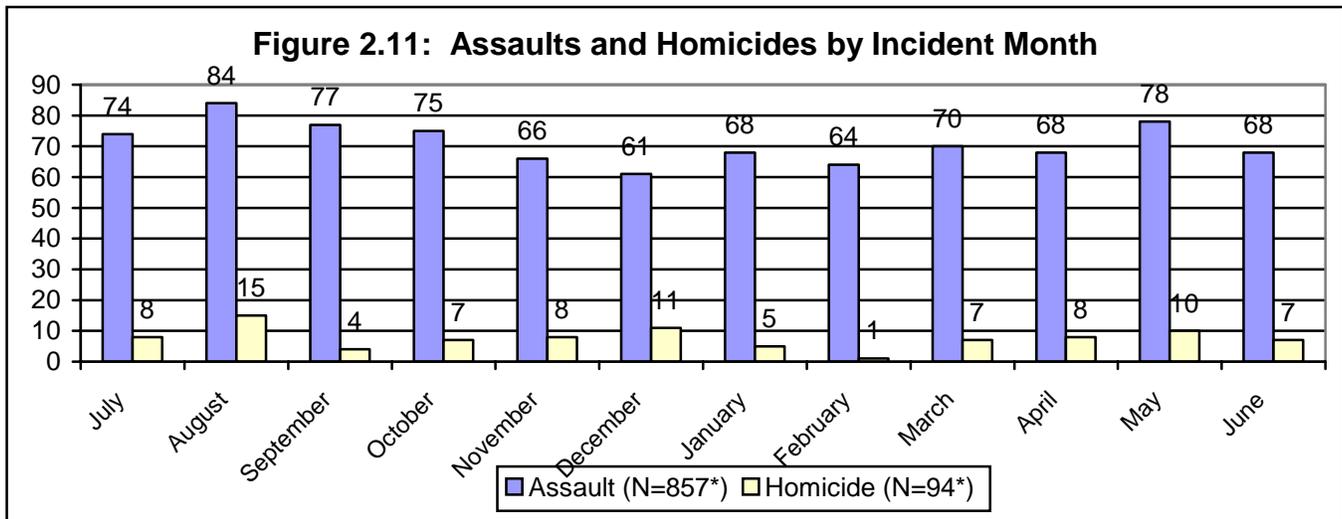


All times are in one hour increments, for example, 6:00 - 6:59 = 6:00
 *Note: limited to patients arriving at trauma facilities (deaths on scene not applicable).
 Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

Weekends saw the highest number of assaults and homicides, with 42% of assaults and 45% of homicides taking place on Saturdays and Sundays. August had the highest number of assaults (84) and homicides (15).

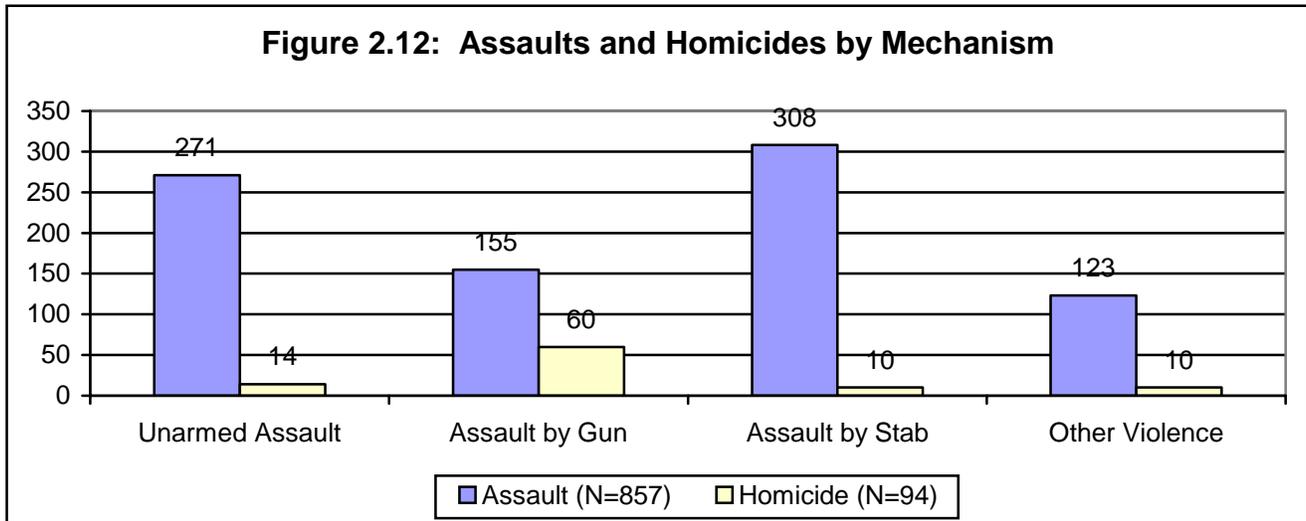


*Totals include four assaults and three homicides with unspecified incident dates.
 Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05



*Totals include four assaults and three homicides with unspecified incident dates.
 Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05
 Note: includes incidents occurring prior to July 2004

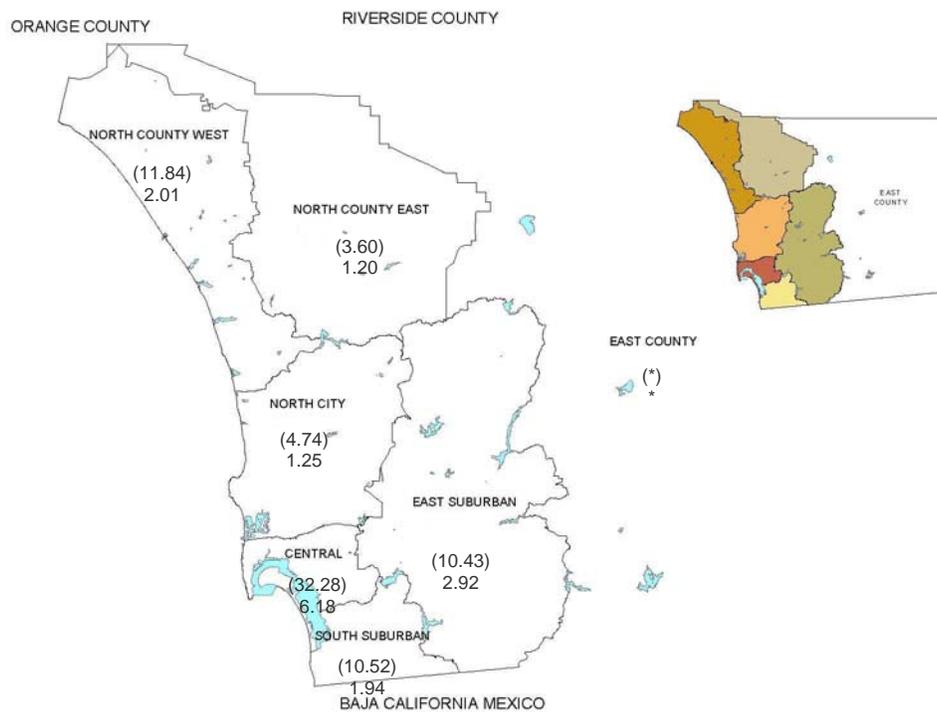
Figure 2.12 shows a breakdown of mechanism of injury for homicides and assaults. Unarmed assaults and stabbings were the leading causes of nonfatal injury, while firearms were used in 64% of homicides.



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

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 46% of non-fatal assaults and for 88% of homicides. Homicide and assault rates were highest in the Central MSA. When incident zip code was known, the Central MSA accounted for 53% of assaults and 48% of homicides. Population estimates for each of the MSAs can be found in Appendix B.

Figure 2.13: 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 460 assaults and 11 homicides with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 2004/05; Population estimates, San Diego Association of Governments (SANDAG)

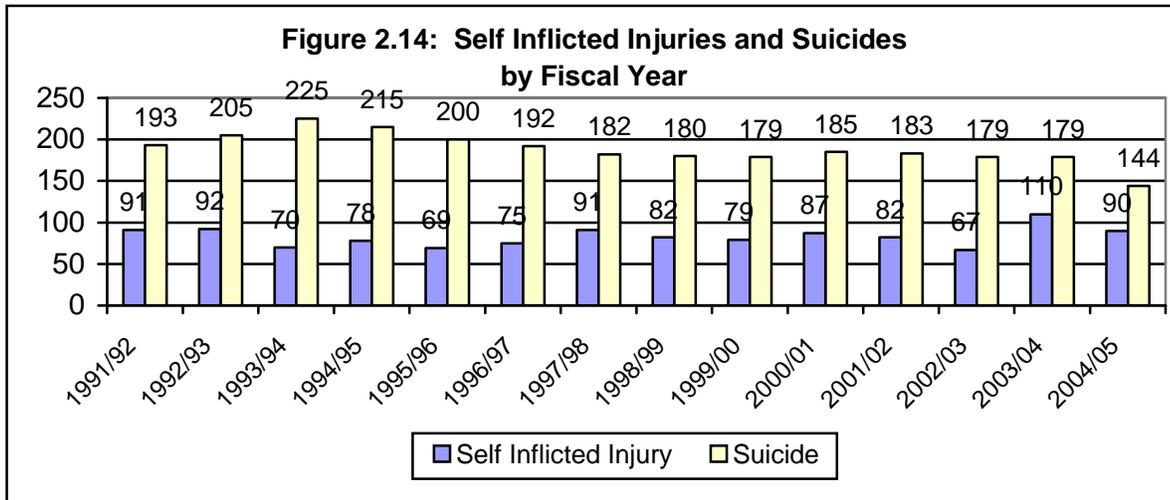
Table 2.4: Homicides and Assaults by Mechanism and County Major Statistical Area

MSA	Unarmed Assault		Gunshot		Stabbing		Other Assault		Overall Total
	Assault	Homicide	Assault	Homicide	Assault	Homicide	Assault	Homicide	
Central	51	3	56	29	73	5	29	3	249
North City	12	0	6	4	9	0	7	5	43
South Suburban	17	0	2	6	13	1	6	0	45
East Suburban	16	4	14	7	17	2	3	1	64
North County West	15	3	9	5	19	0	4	0	55
North County East	7	1	1	4	6	0	1	0	20
East County	2	0	1	0	0	0	1	0	4
Other/ Unknown	151	3	66	5	171	2	72	1	471
Overall Total	271	14	155	60	308	10	123	10	951

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2004/05

Suicides and Self Inflicted Injuries

Suicide¹ was the third leading cause of traumatic death and years of potential life lost during FY 2004/05 (see figure 1.2). The figure below shows the number of suicides and self inflicted injuries by fiscal year. The number of traumatic suicides peaked in FY 1993/94 (225), and reached a plateau starting in 1997/98 through 2003/04 when the average annual change was less than 0.5%. FY 2004/05 had a dramatic decrease in the number of traumatic self inflicted injuries and suicides from the previous year, with suicide dropping by 19.6% from FY 2003/04.



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 - 2004/05

Table 2.5: Number and Rate (per 100,000) of Self Inflicted Injuries and Deaths by Fiscal Year

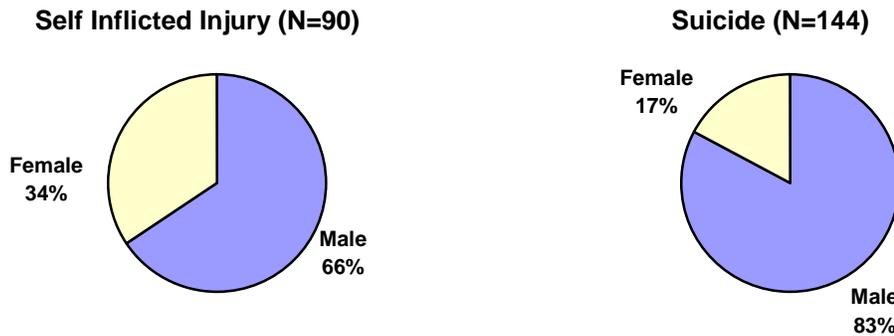
Fiscal Year	Injury		Death		Total	
	Incidence	Rate	Incidence	Rate	Incidence	Rate
1991/92	91	3.54	193	7.50	284	11.04
1992/93	92	3.55	205	7.90	297	11.45
1993/94	70	2.69	225	8.64	295	11.33
1994/95	78	2.98	215	8.23	293	11.21
1995/96	69	2.63	200	7.63	269	10.26
1996/97	75	2.83	192	7.24	267	10.06
1997/98	91	3.37	182	6.73	273	10.10
1998/99	82	2.98	180	6.54	262	9.52
1999/00	79	2.81	179	6.36	258	9.17
2000/01	87	3.04	185	6.46	272	9.50
2001/02	82	2.81	183	6.27	265	9.08
2002/03	67	2.25	179	6.02	246	8.28
2003/04	110	3.65	179	5.94	289	9.59
2004/05	90	2.96	144	4.74	234	7.70

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 - 2004/05

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.

Males made up 66% of traumatic self inflicted injuries and 83% of suicides. As Table 2.3 shows, the traumatic suicide rate is highest among older men, with the rate among 75 to 84 year olds 2.5 times higher, and for men 85 years and older more than four times higher than the rate for all ages combined.

Figure 2.15: Self Inflicted Injuries and Suicides by Gender



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY2004/05; Population Estimates, SANDAG

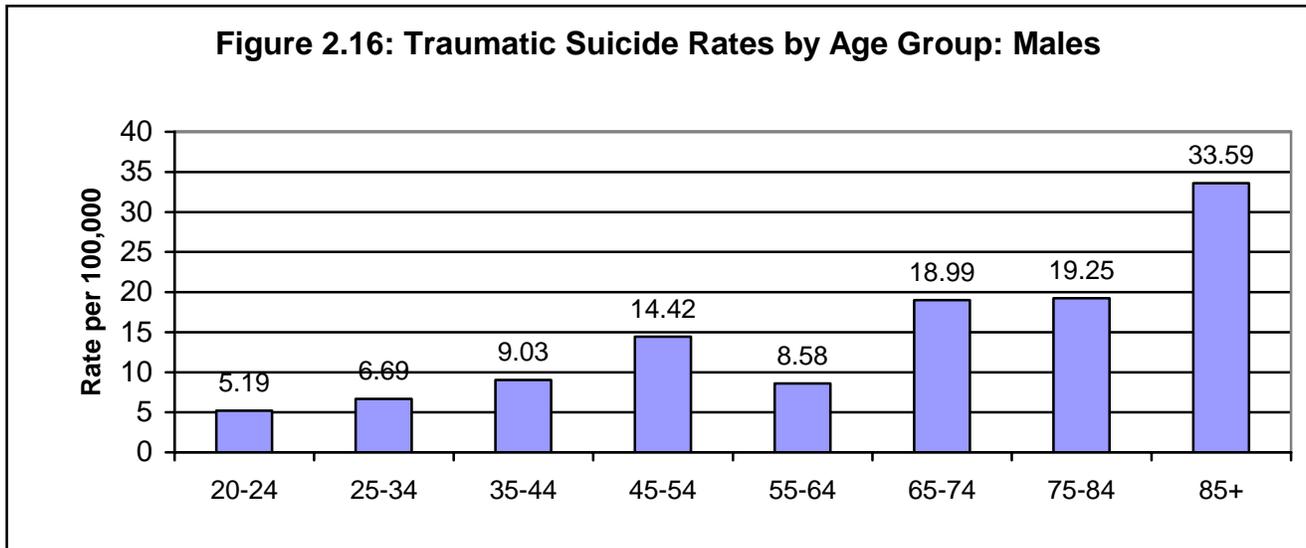
Table 2.6: Number and Rate (per 100,000) of Self Inflicted Injury and Suicide by Age Group and Gender

Age Group	Self Inflicted Injury						Suicide						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	0	*	0	*	0	*	0	*	0	*	0	*	0	*
5-9	0	*	0	*	0	*	0	*	0	*	0	*	0	*
10-14	2	*	0	*	2	*	1	*	0	*	1	*	3	*
15-19	5	4.16	2	*	7	3.05	4	*	0	*	4	*	11	4.80
20-24	4	*	4	*	8	3.35	7	5.19	0	*	7	2.93	15	6.28
25-34	20	8.37	7	3.17	27	5.87	16	6.69	6	2.71	22	4.78	49	10.65
35-44	14	6.02	6	2.61	20	4.32	21	9.03	6	2.61	27	5.84	47	10.16
45-54	6	2.98	3	*	9	2.20	29	14.42	4	*	33	8.06	42	10.25
55-64	5	3.90	7	5.04	12	4.50	11	8.58	5	3.60	16	5.99	28	10.49
65-74	2	*	1	*	3	*	14	18.99	2	*	16	9.89	19	11.74
75-84	1	*	1	*	2	*	10	19.25	1	*	11	8.87	13	10.48
85+	0	*	0	*	0	*	6	33.59	1	*	7	14.35	7	14.35
Total	59	3.88	31	2.04	90	2.96	119	7.83	25	1.65	144	4.74	234	7.70

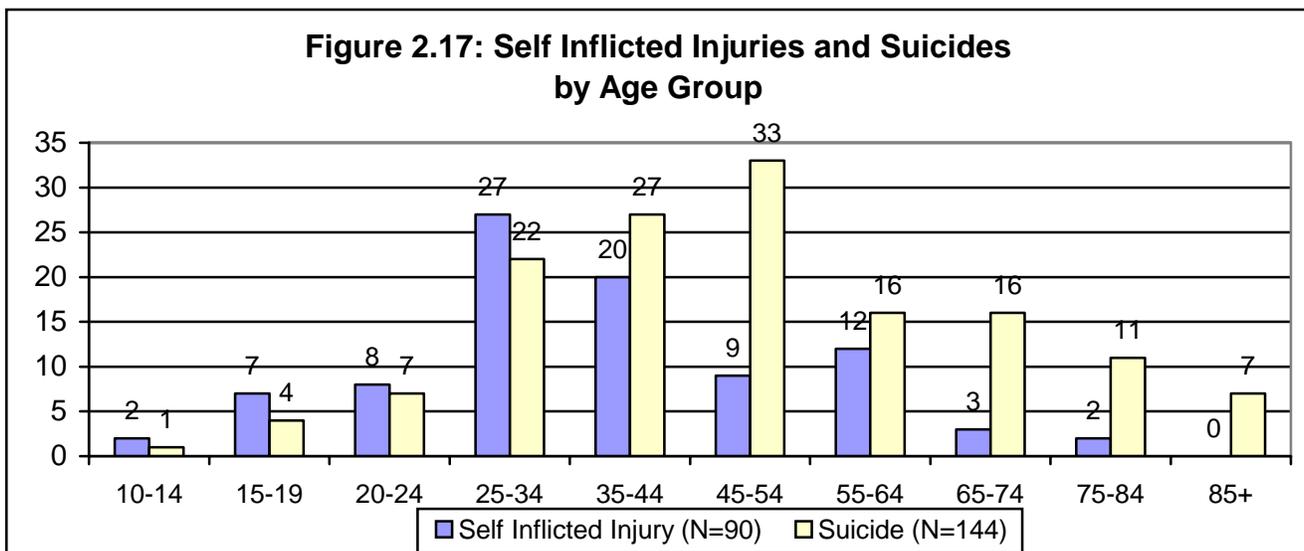
Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2004/05; Population Estimates, SANDAG

*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 one percent of nonfatal self inflicted injuries and 42% of deaths from traumatic suicide were in this age range.



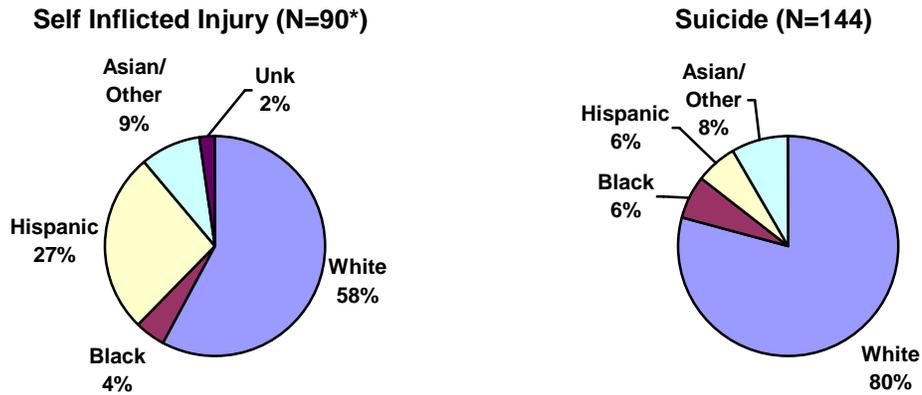
Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY2004/05; Population Estimates, SANDAG



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY2004/05; Population Estimates, SANDAG

The White population makes up 52% of the county, but 80% of deaths from suicide. The racial distribution of nonfatal traumatic self inflicted injuries was more reflective of the overall population makeup.

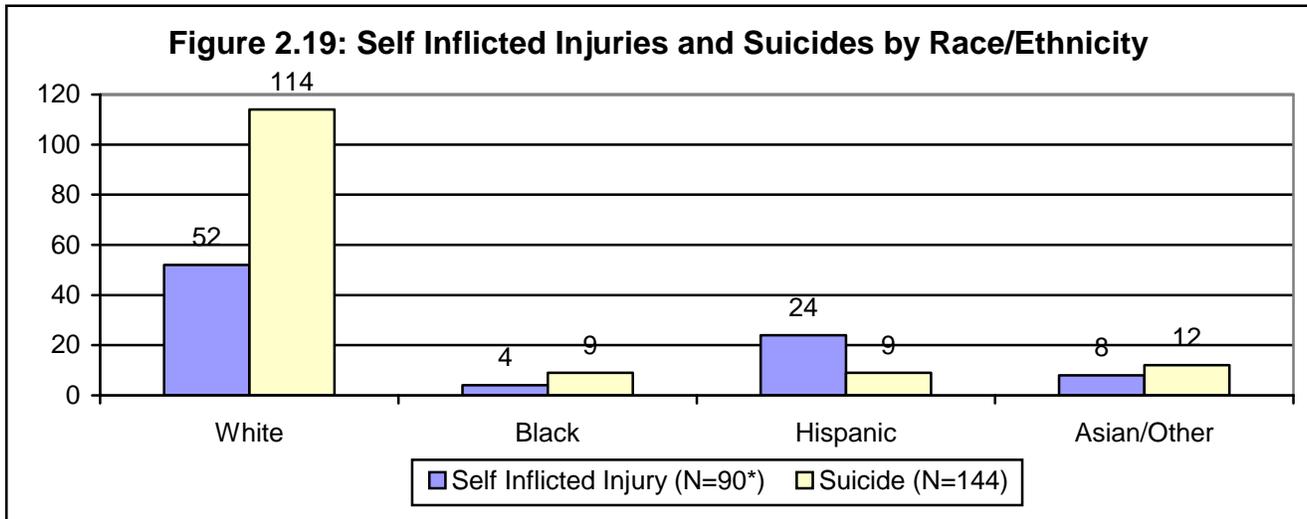
Figure 2.18: Self Inflicted Injuries and Suicides by Race/Ethnicity



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2004/05

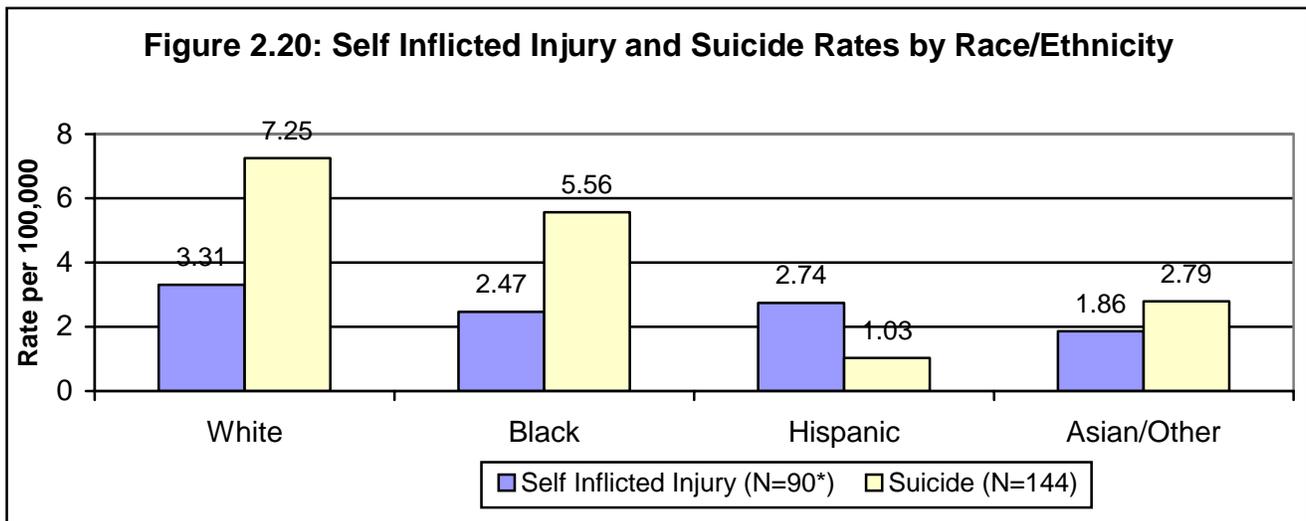
*Totals include two self inflicted injuries of undetermined race/ethnicity.

The traumatic suicide rate in the White population was considerably higher than in any other race/ethnic group. The rate of nonfatal injuries per 100,000, however, was comparable to other groups.



*Totals include two self inflicted injuries with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

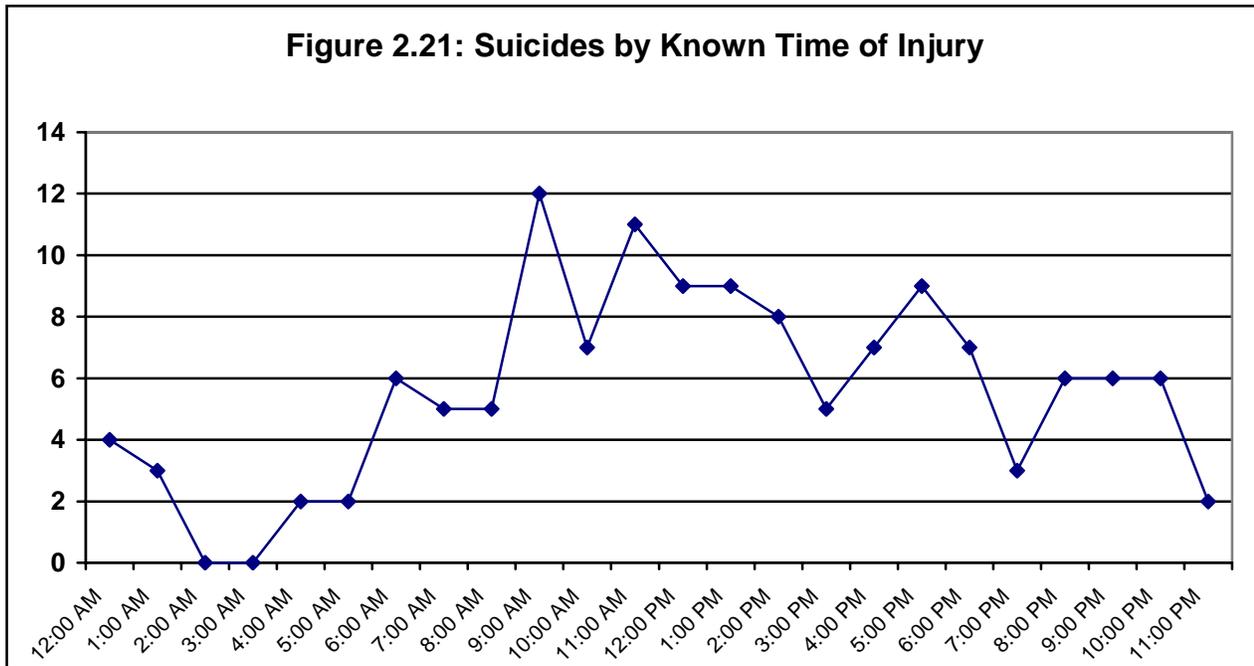


*Totals include two self inflicted injuries with unspecified race/ethnicity.

**Rates not calculated for fewer than five incidents.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

The majority of suicides were reported to have occurred during daytime hours, with 69% of incidents between 6 a.m. and 6 p.m. There may be some artifact to this number, however, as suicides are unlikely to be witnessed, and the time of injury is usually recorded as the time that the person was discovered.

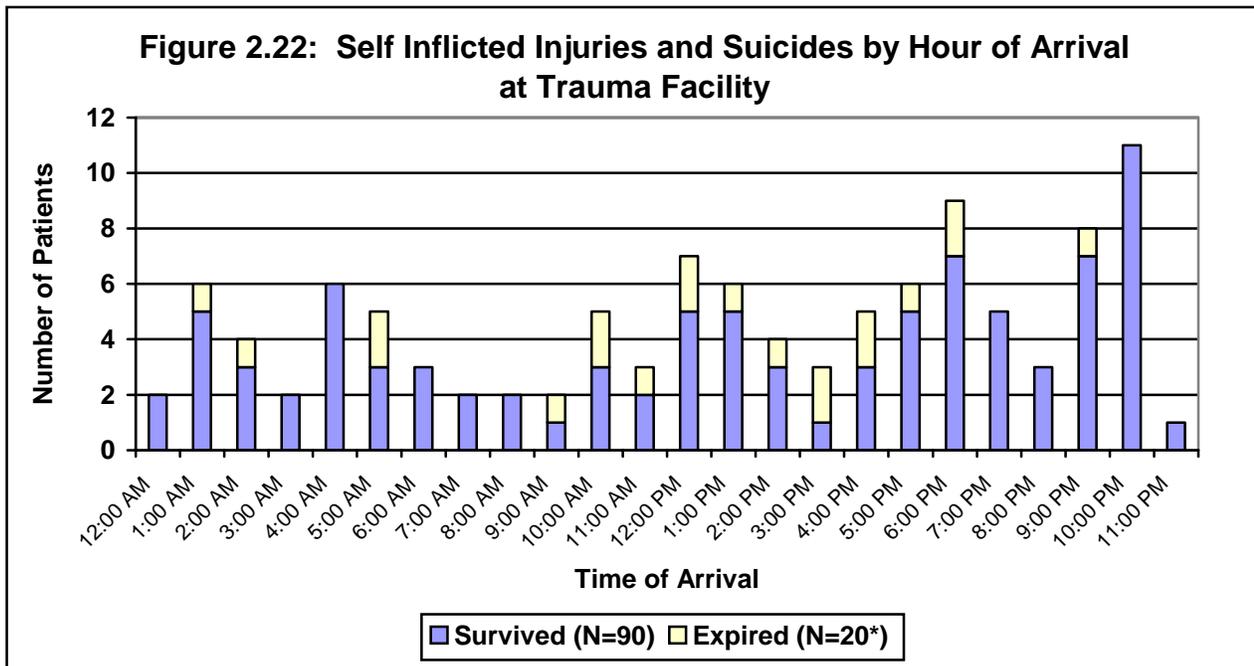


All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

There were 10 suicides with an unidentified time of injury

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2004/05

Self inflicted injuries did not follow a distinct pattern regarding time of arrival at trauma facilities, although the hour with the most arrivals was between 10 and 11 p.m.



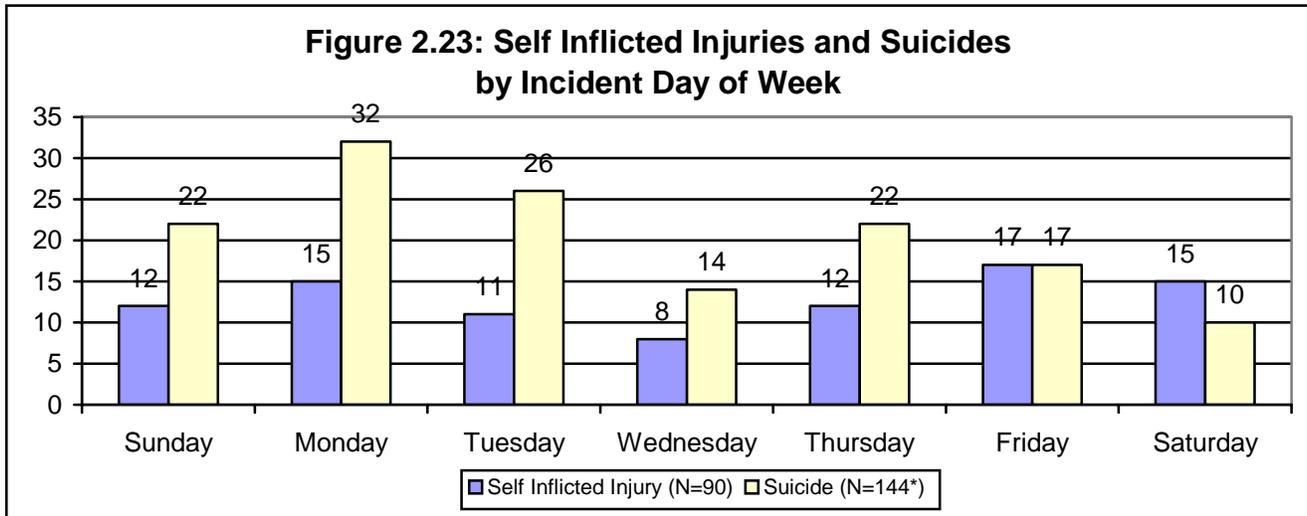
All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

*Note: limited to patients arriving at trauma facilities (deaths on scene not applicable)

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry, FY 2004/05

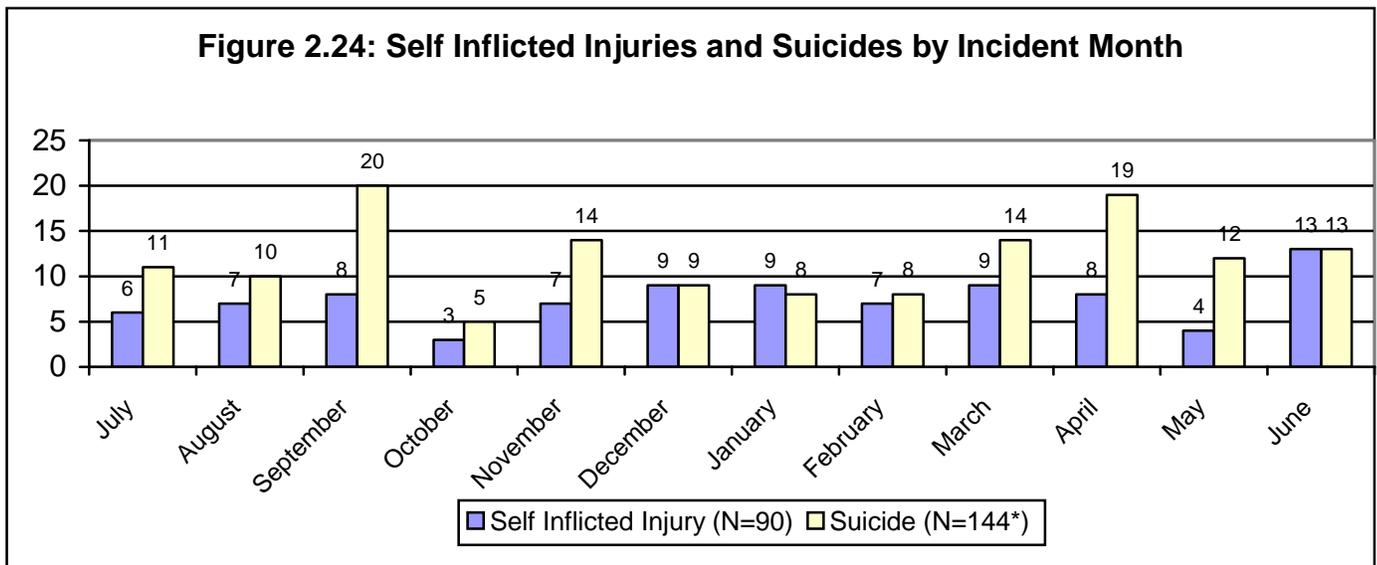
Monday had the greatest number suicides (36% of total). Fridays had the highest number of nonfatal self inflicted injuries (17).

September had the highest number of suicides (20), while the peak for nonfatal self inflicted injuries occurred in June (13).



*Totals include one self inflicted injury with unspecified incident date.

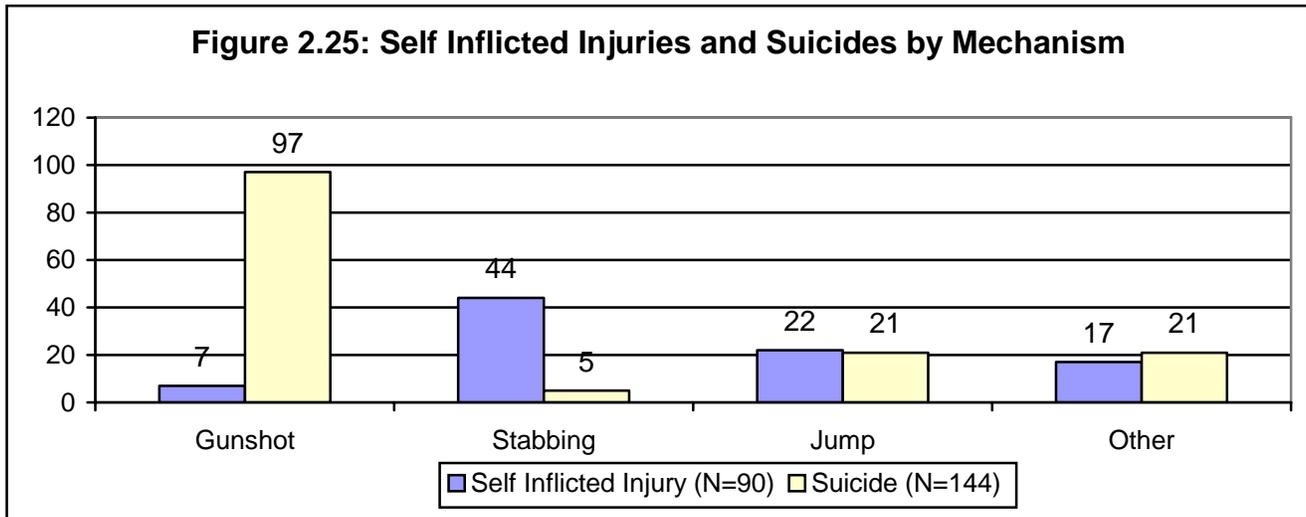
Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05



*Totals include one self inflicted injury with unspecified incident date.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

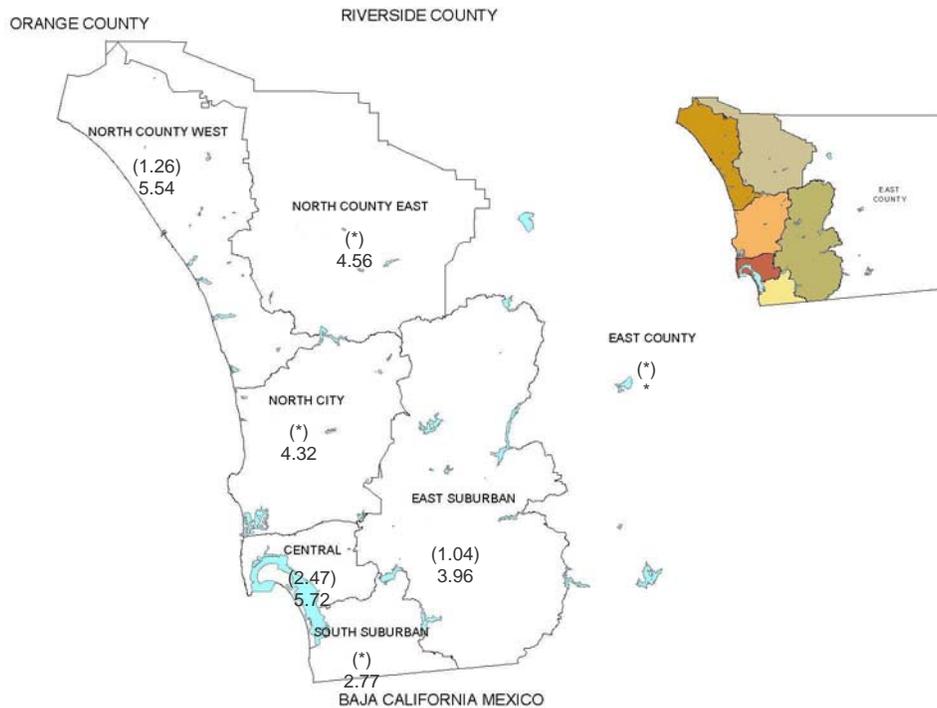
Nonfatal self inflicted injuries were very different from completed suicides with regard to the mechanism of injury. Gunshot wounds were the mechanism for 67% of completed suicides, but only made up 8% of nonfatal self inflicted injuries. Self inflicted cut or stab wounds, meanwhile, made up only 3% of completed suicides, but 49% of nonfatal self inflicted injuries.



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

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 41% of non-fatal self inflicted injuries and for 98% of suicides. The highest rates of suicide and nonfatal self inflicted injury were in the Central MSA. Population estimates for each of the MSAs can be found in Appendix B.

Figure 2.26: 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 53 self inflicted injuries and three suicides with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 2004/05; Population estimates, San Diego Association of Governments (SANDAG)

Table 2.7: Self Inflicted Injuries and Suicides by Mechanism and Major Statistical Area

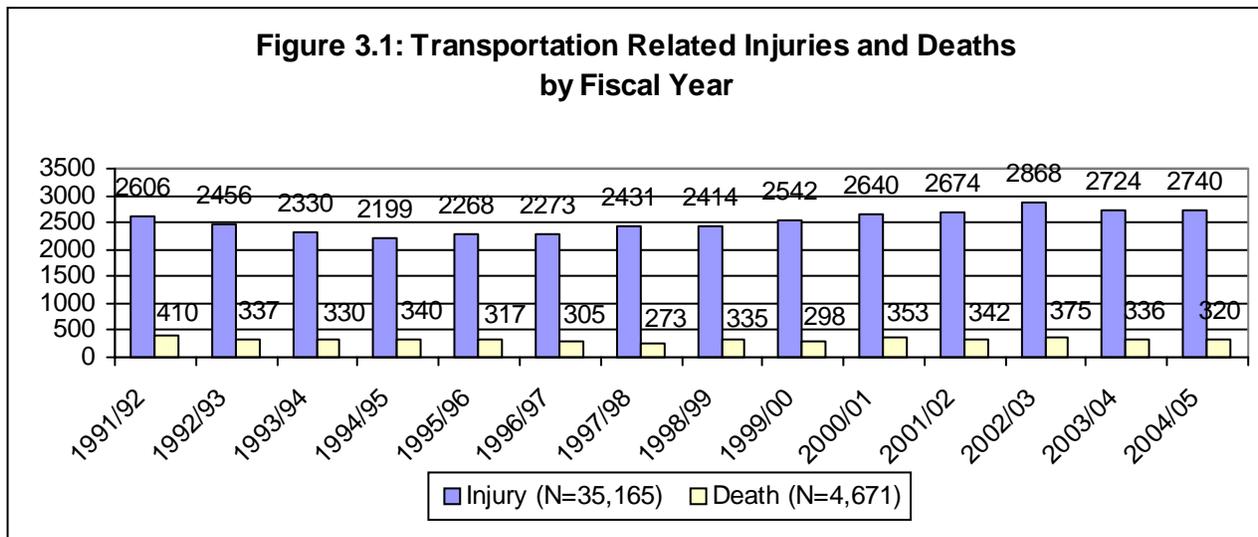
MSA	Gunshot		Stabbing		Jump		Other		Overall Total
	Injury	Death	Injury	Death	Injury	Death	Injury	Death	
Central	0	17	8	1	3	15	5	4	53
North City	0	21	1	1	3	1	0	8	35
South Suburban	0	8	0	0	1	1	1	1	12
East Suburban	0	14	3	1	2	2	0	2	24
North County West	0	18	3	0	2	1	0	3	27
North County East	1	17	0	1	0	0	1	1	21
East County	1	2	0	0	1	1	1	0	6
Other/Unknown	5	0	29	1	10	0	9	2	56
Overall Total	7	97	44	5	22	21	17	21	234

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2004/05

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 320 lives lost in transportation related crashes during FY 2004/05. For every patient who died as a result of a transportation related crash, more than eight others were injured in such a crash.

The number of severe injuries due to transportation related crashes was relatively unchanged from the previous fiscal year, while the number of deaths decreased by five percent.



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 – 2004/05

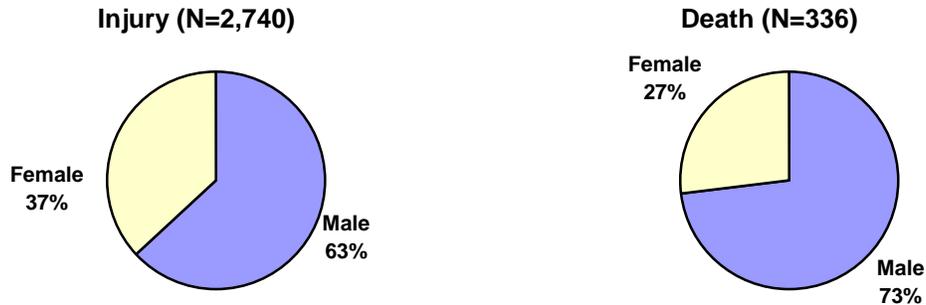
Table 3.1: Number and Rate (per 100,000) of Transportation-Related Injuries and Deaths by Fiscal Year

Fiscal Year	Injury		Death		Total	
	Incidence	Rate	Incidence	Rate	Incidence	Rate
1991/92	2606	101.30	410	15.94	3016	117.24
1992/93	2456	94.68	337	12.99	2793	107.67
1993/94	2330	89.46	330	12.67	2660	102.13
1994/95	2199	84.15	340	13.01	2539	97.16
1995/96	2268	86.53	317	12.09	2585	98.62
1996/97	2273	85.66	305	11.49	2578	97.16
1997/98	2431	89.94	273	10.10	2704	100.04
1998/99	2414	87.75	335	12.18	2749	99.93
1999/00	2542	90.34	298	10.59	2840	100.93
2000/01	2640	92.19	353	12.33	2993	104.52
2001/02	2674	91.58	342	11.71	3016	103.29
2002/03	2868	96.51	375	12.62	3243	109.13
2003/04	2724	90.41	336	11.15	3060	101.56
2004/05	2740	90.15	320	10.53	3060	100.68

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 – 2004/05

Males made up 63% of injuries and 73% of deaths related to transportation. Rates of both injury and death were substantially higher in males throughout the age spectrum.

Figure 3.2: Transportation Related Injuries and Deaths by Gender



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2004/05.

Table 3.2: Number and Rate (per 100,000)* of Transportation Related Injury and Death by Age Group and Gender

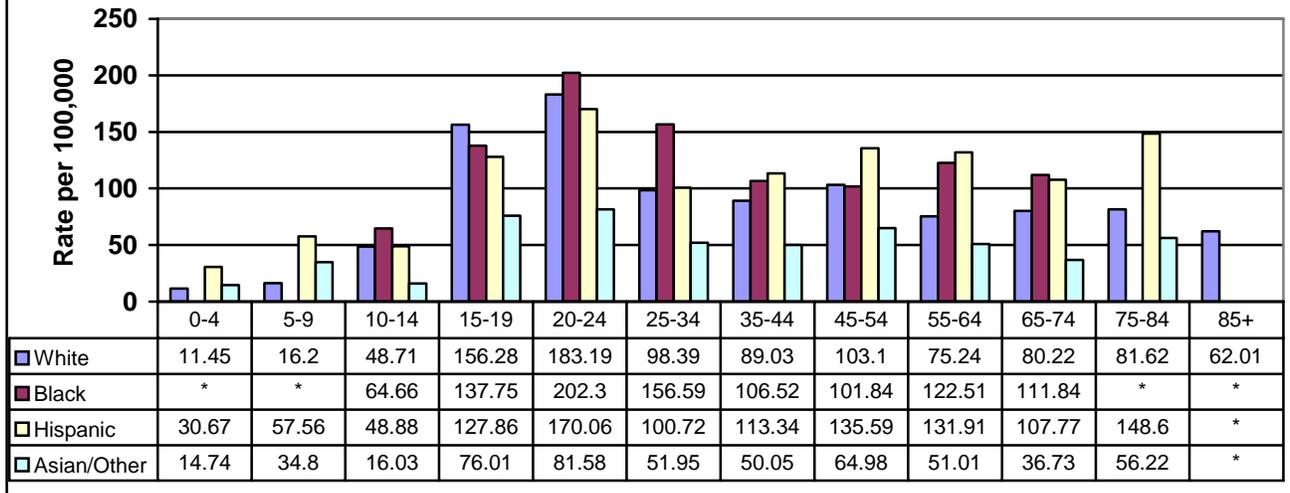
Age Group	Injury						Death						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	28	24.71	17	15.25	45	20.02	7	6.18	0	*	7	3.11	52	23.13
5-9	43	44.15	24	24.56	67	34.34	2	*	2	*	4	*	71	36.39
10-14	65	58.83	33	30.91	98	45.11	6	5.43	2	*	8	3.68	106	48.79
15-19	203	168.79	113	103.56	316	137.76	11	9.15	15	13.75	26	11.33	342	149.09
20-24	261	193.63	139	133.64	400	167.50	40	29.67	9	8.65	49	20.52	449	188.02
25-34	308	128.84	144	65.14	452	98.24	44	18.41	11	4.98	55	11.95	507	110.19
35-44	298	128.12	134	58.27	432	93.39	38	16.34	6	2.61	44	9.51	476	102.90
45-54	263	130.82	172	82.49	435	106.21	39	19.40	15	7.19	54	13.18	489	119.40
55-64	124	96.74	100	72.06	224	83.91	11	8.58	10	7.21	21	7.87	245	91.78
65-74	66	89.52	64	72.62	130	80.32	14	18.99	5	5.67	19	11.74	149	92.06
75-84	53	102.00	57	79.03	110	88.65	13	25.02	9	12.48	22	17.73	132	106.38
85+	12	67.18	19	61.43	31	63.54	8	44.79	2	*	10	20.50	41	84.03
Unknown	0		0		0		1		0		1		1	
Total	1724	113.37	1016	66.90	2740	90.15	234	15.39	86	5.66	320	10.53	3060	100.68

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data FY 2004/05; Population estimates, SANDAG

*Rates not calculated on fewer than five incidents

The highest overall rates of transportation related injury were in the 15 to 19 and 20 to 24 year age groups, with the White population showing the highest rate among 15 to 19 year olds (156 per 100,000) and Blacks having the highest injury rate among 20 to 24 year olds (202 per 100,000). Death rates were highest among Hispanics 65 to 74 years of age (29 per 100,000).

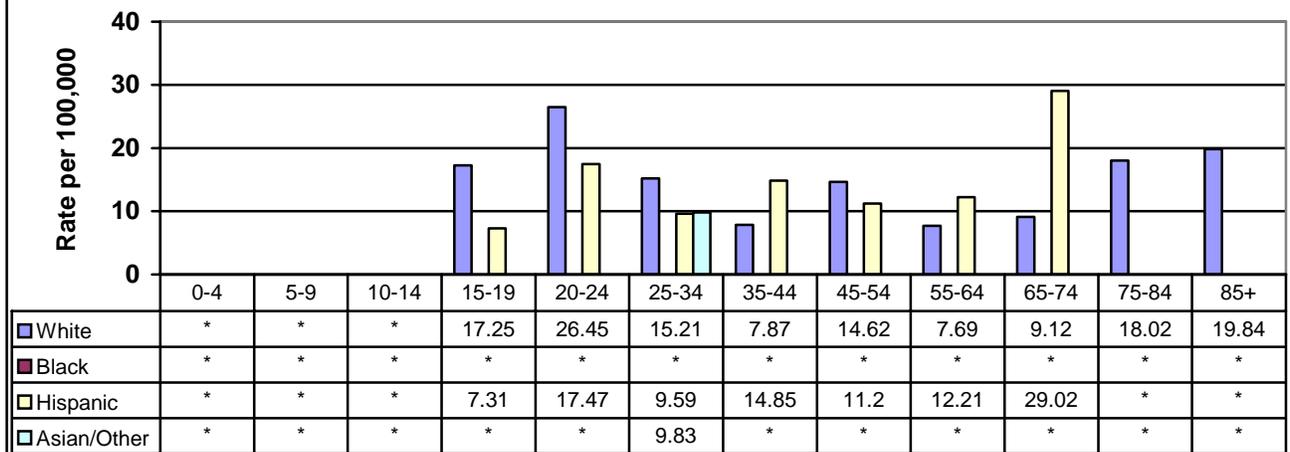
Figure 3.3: Transportation Related Injury Rates by Age and Race/Ethnicity



Note: Rates not calculated on fewer than five incidents

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05
Population estimates, SANDAG

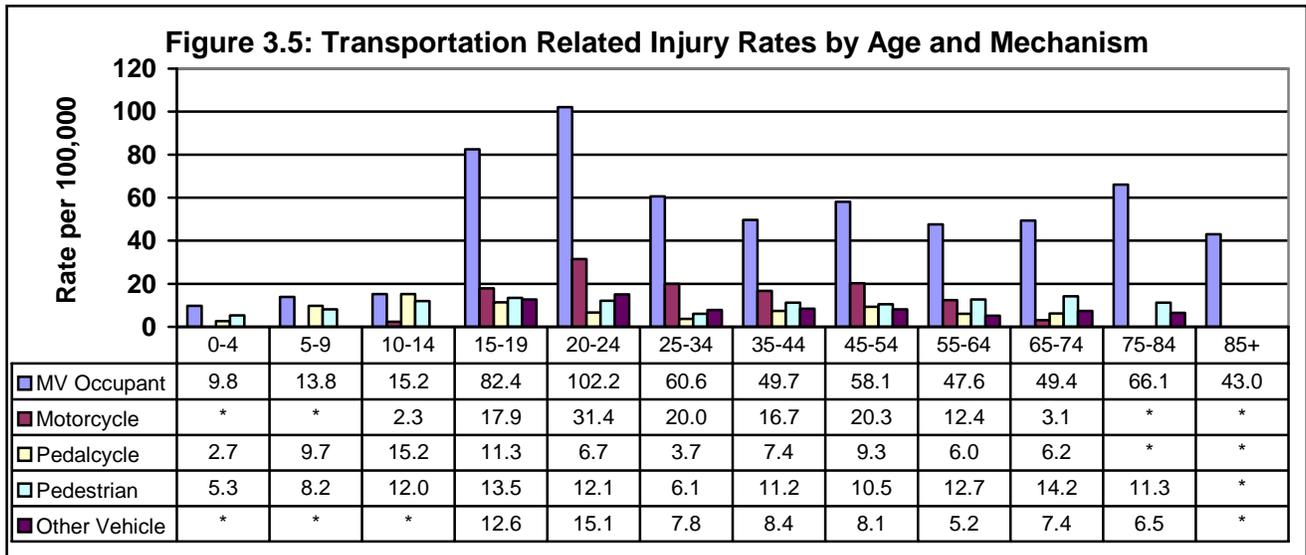
Figure 3.4: Transportation Related Death Rates by Age and Race/Ethnicity



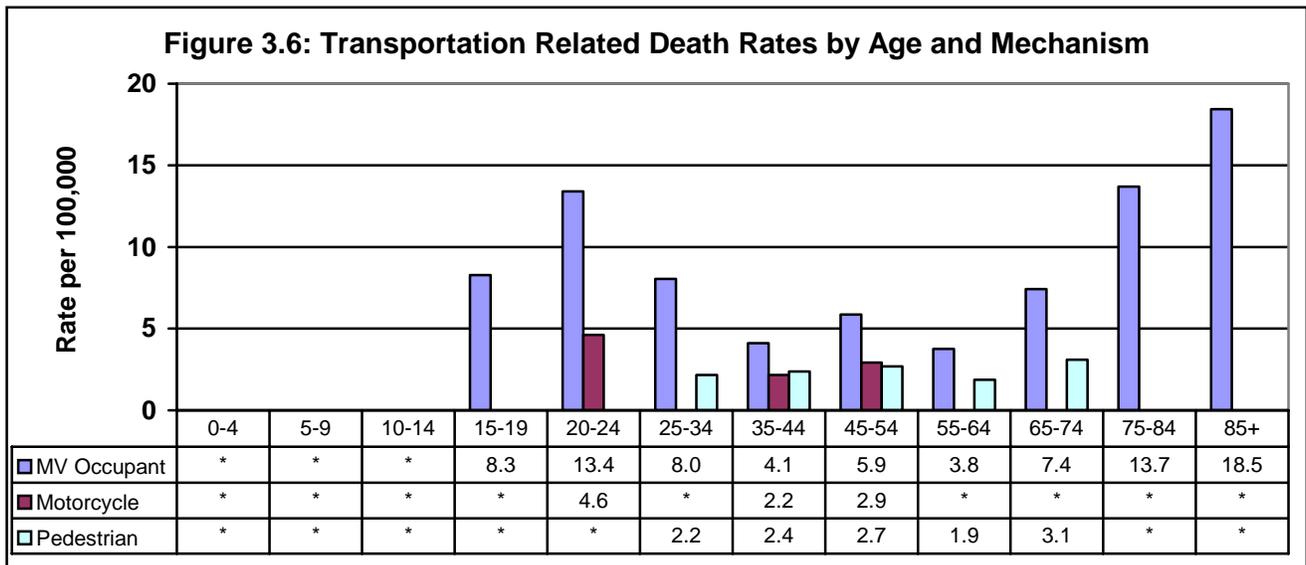
Note: Rates not calculated on fewer than five incidents

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05
Population estimates, SANDAG

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 rate of transportation related severe injury was found in motor vehicle occupants aged 20-24 (102 injuries per 100,000 population), while the highest death rate was among motor vehicle occupants 85 years of age and older (18.5 deaths per 100,000 population).

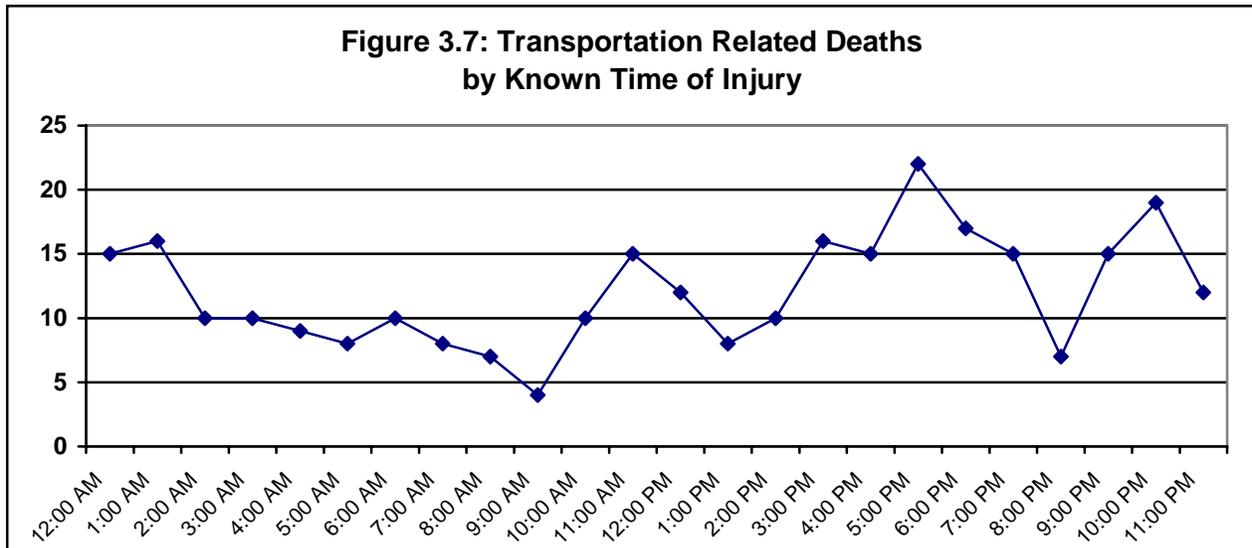


*Rates not calculated on fewer than five incidents
 Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05
 Population estimates, SANDAG



*Rates not calculated on fewer than five incidents
 Note: Rates could not be calculated for deaths related to pedalcycles or other vehicles due to small numbers.
 Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05
 Population estimates, SANDAG

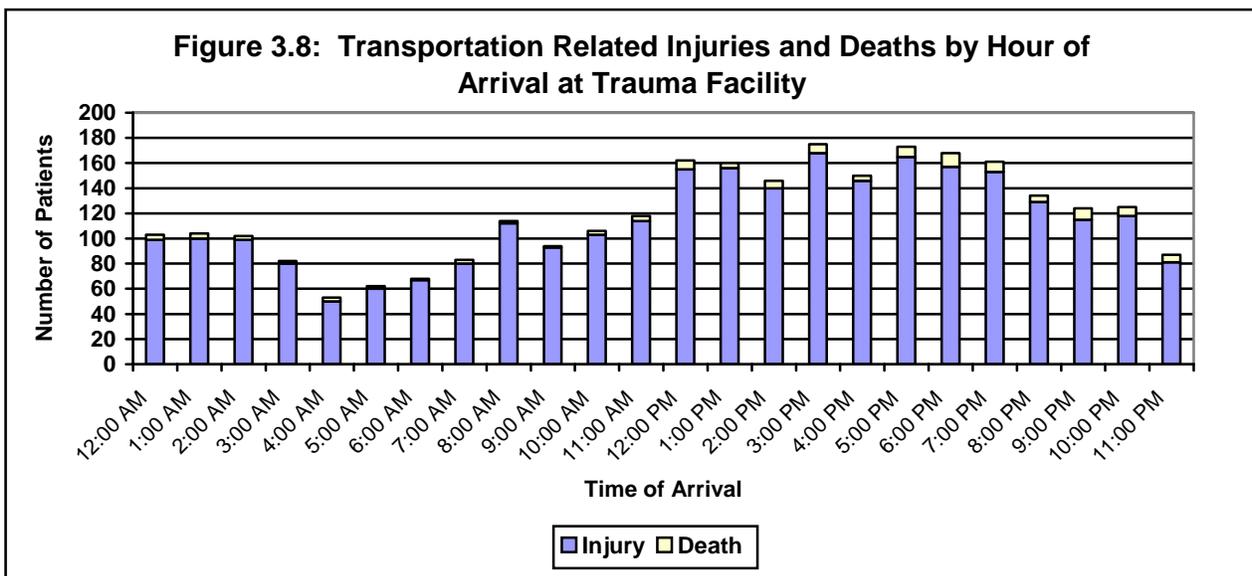
Transportation-related crashes resulting in deaths peaked during the late afternoon and early evening hours, reaching a maximum of 22 during the hour between 5:00 and 6:00 pm. The frequency of transportation-related trauma patient arrivals increased steadily through the day from the 4:00 am hour (53 total patients for the year), to 3:00 pm (175 patients), and declined steadily from 5:00 pm (173) to 4:00 am.



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

There were 30 deaths with an unidentified time of injury

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2004/05

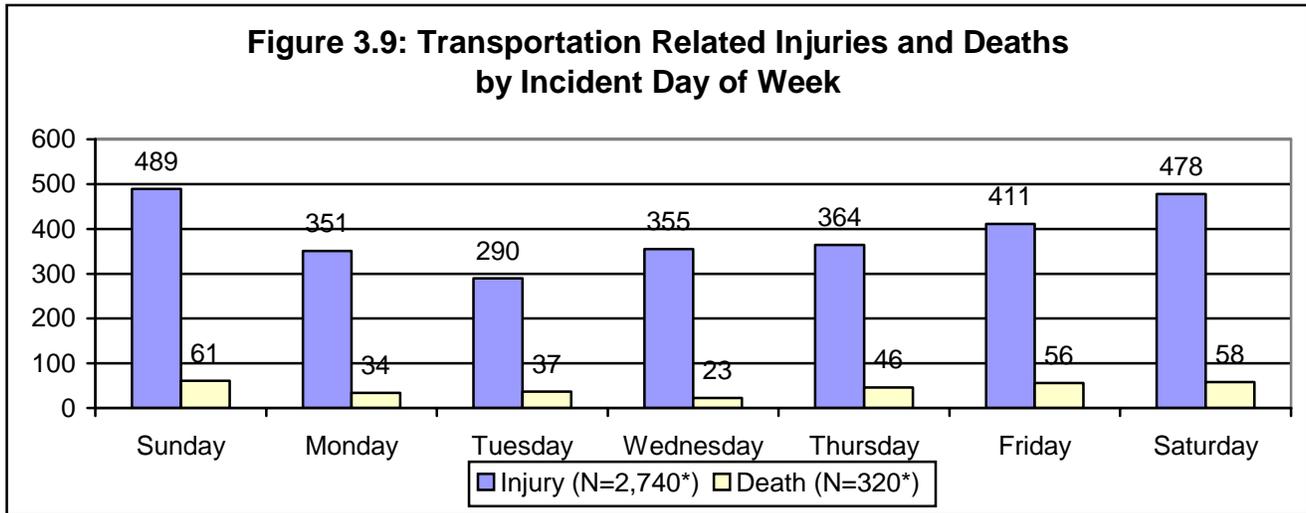


Note: limited to patients arriving at trauma facilities (deaths on scene not applicable).

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

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

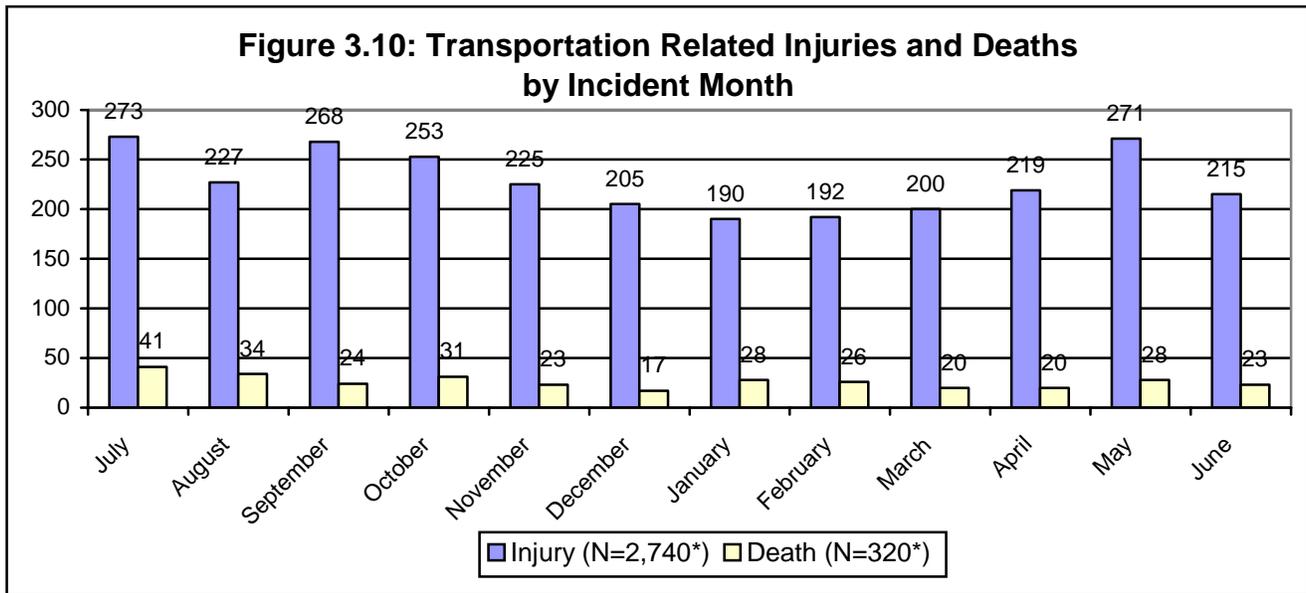
Saturdays and Sundays experienced the greatest numbers of injuries and deaths (35% of injuries, 37% of deaths).



*Two injuries and five deaths had unspecified incident dates

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

The month of July had the greatest number of injuries and deaths (273 injuries, 41 deaths).

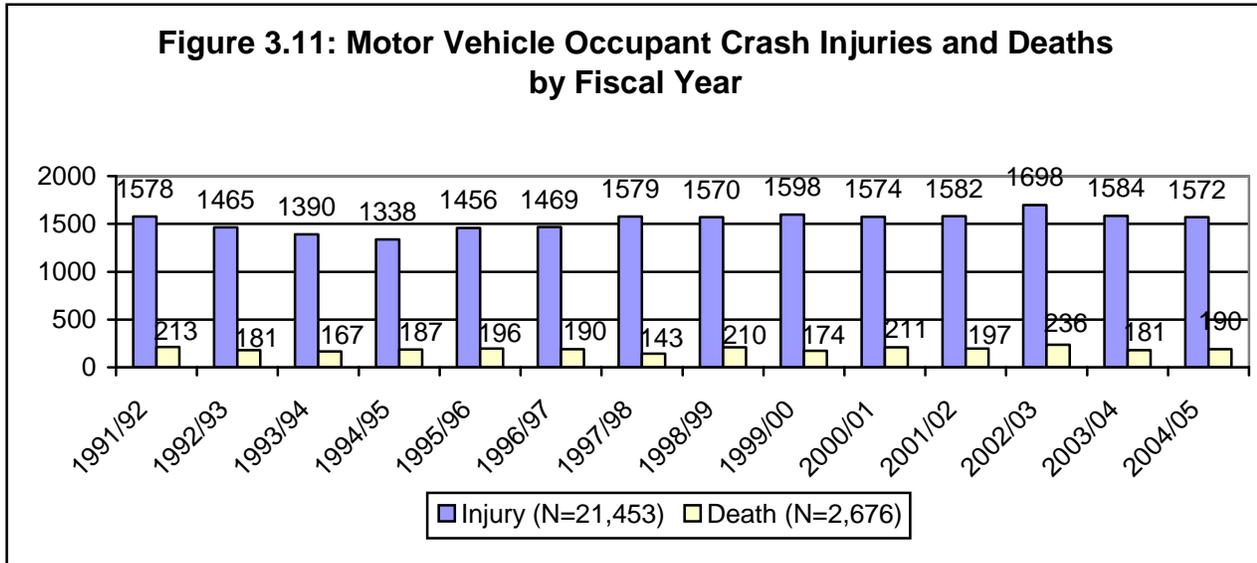


*Three injuries and seven deaths had unspecified incident dates.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

Motor Vehicle Occupant Crash Injuries

The number of motor vehicle occupant crash injuries decreased by less than 1% from FY 2003/04 to 2004/05, while deaths increased by 5%.



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 –2004/05

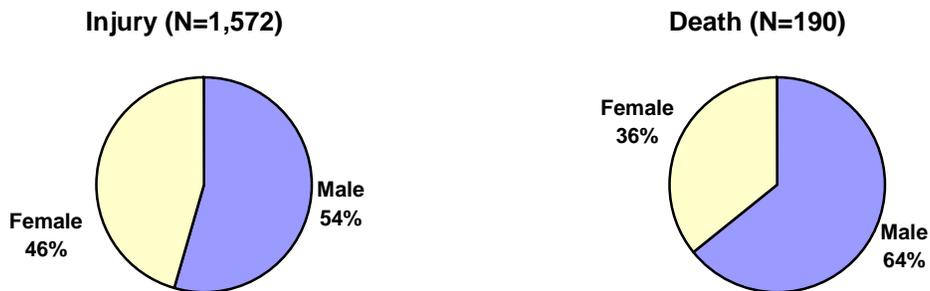
Table 3.3: Number and Rate (per 100,000) of Motor Vehicle Occupant Injuries and Deaths by Fiscal Year

Fiscal Year	Injury		Death		Total	
	Incidence	Rate	Incidence	Rate	Incidence	Rate
1991/92	1578	61.34	213	8.28	1791	69.62
1992/93	1465	56.47	181	6.98	1646	63.45
1993/94	1390	53.37	167	6.41	1557	59.78
1994/95	1338	51.20	187	7.16	1525	58.36
1995/96	1456	55.55	196	7.48	1652	63.03
1996/97	1469	55.36	190	7.16	1659	62.52
1997/98	1579	58.42	143	5.29	1722	63.71
1998/99	1570	57.07	210	7.63	1780	64.70
1999/00	1598	56.79	174	6.18	1772	62.97
2000/01	1574	54.96	211	7.37	1785	62.33
2001/02	1582	54.18	197	6.75	1779	60.92
2002/03	1698	57.14	236	7.94	1934	65.08
2003/04	1584	52.57	181	6.01	1765	58.58
2004/05	1572	51.72	190	6.25	1762	57.97

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 –2004/05

Males accounted for 54% of injuries and 64% of deaths to motor vehicle occupants.

Figure 3.12: Motor Vehicle Occupant Crash Injuries and Deaths by Gender



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

Injury rates were highest in the 20 to 24 year age group (102 per 100,000), and death rates were highest among those 85 years of age and older (18 per 100,000).

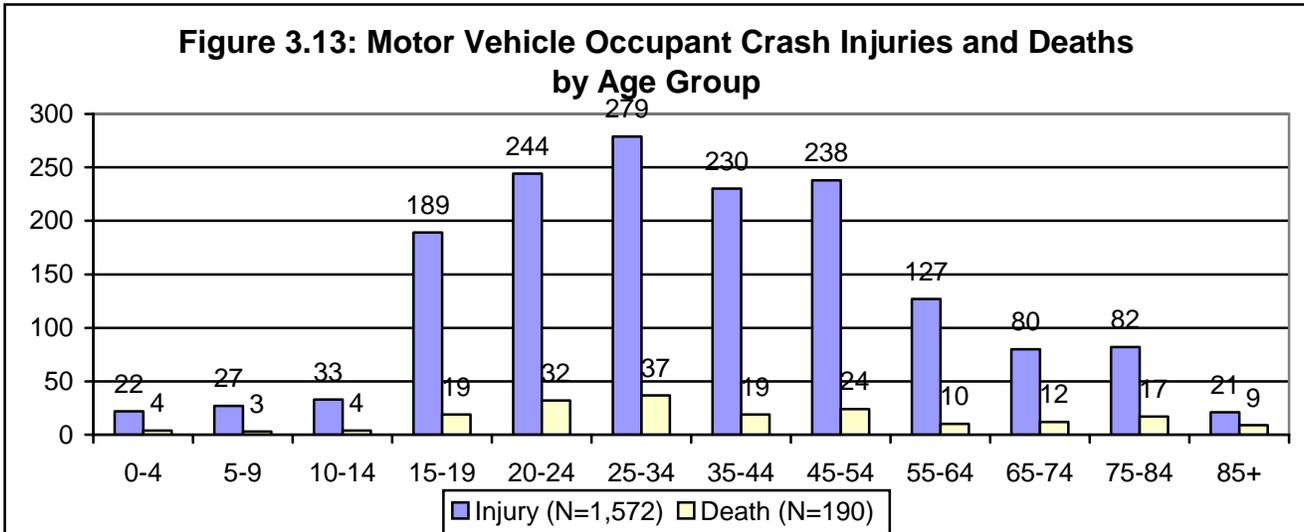
Table 3.4: Number and Rate* (per 100,000) of Motor Vehicle Occupant Crash Injury and Death by Age Group and Gender

Age Group	Injury						Death						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	10	8.83	12	10.77	22	9.79	4	*	0	*	4	*	26	11.57
5-9	14	14.37	13	13.30	27	13.84	1	*	2	*	3	*	30	15.37
10-14	16	14.48	17	15.92	33	15.19	2	*	2	*	4	*	37	17.03
15-19	113	93.96	76	69.65	189	82.39	6	4.99	13	11.91	19	8.28	208	90.68
20-24	139	103.12	105	100.95	244	102.17	23	17.06	9	8.65	32	13.40	276	115.57
25-34	163	68.19	116	52.48	279	60.64	29	12.13	8	3.62	37	8.04	316	68.68
35-44	142	61.05	88	38.27	230	49.72	14	6.02	5	2.17	19	4.11	249	53.83
45-54	113	56.21	125	59.95	238	58.11	15	7.46	9	4.32	24	5.86	262	63.97
55-64	63	49.15	64	46.12	127	47.57	3	*	7	5.04	10	3.75	137	51.32
65-74	39	52.90	41	46.52	80	49.43	8	10.85	4	*	12	7.41	92	56.84
75-84	35	67.36	47	65.17	82	66.09	10	19.25	7	9.71	17	13.70	99	79.79
85+	9	50.38	12	38.80	21	43.04	7	39.19	2	*	9	18.45	30	61.49
Total	856	56.29	716	47.15	1,572	51.72	122	8.02	68	4.48	190	6.25	1,762	57.97

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2004/05; Population estimates, SANDAG

*Rates not calculated on fewer than five incidents

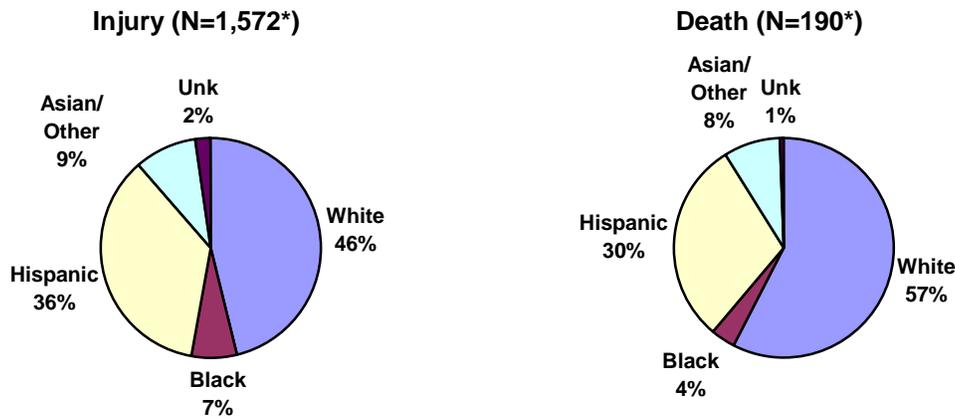
As illustrated in figure 3.13, more than half of injuries and deaths due to motor vehicle occupant (MVO) crashes are to younger adults (ages 15-44). During FY 2004/05, 60% of injuries and 56% of deaths due to MVO crashes occurred to individuals between 15 and 44 years of age.



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

Hispanics were slightly over represented among MVO crash injuries and deaths, making up 29% of the total county population, but 36% of injuries and 30% of deaths during FY 2004/05.

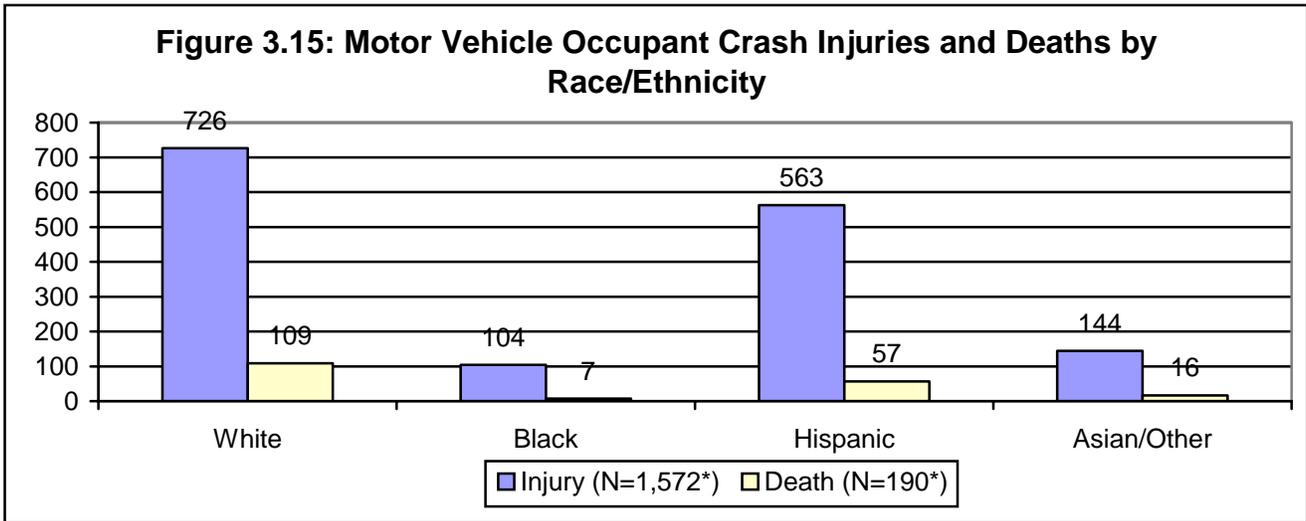
Figure 3.14: Motor Vehicle Occupant Crash Injuries and Deaths by Race/Ethnicity



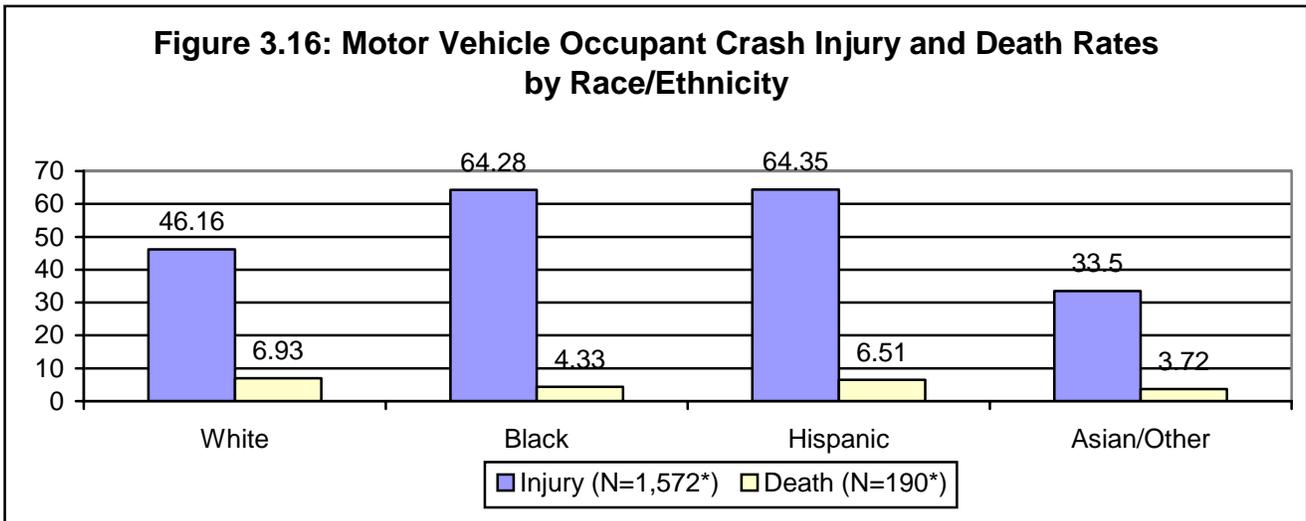
*Totals include 35 injuries and one death with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

While Whites accounted for nearly half of injuries and deaths due to MVO crashes, Blacks and Hispanics had higher rates of injury.

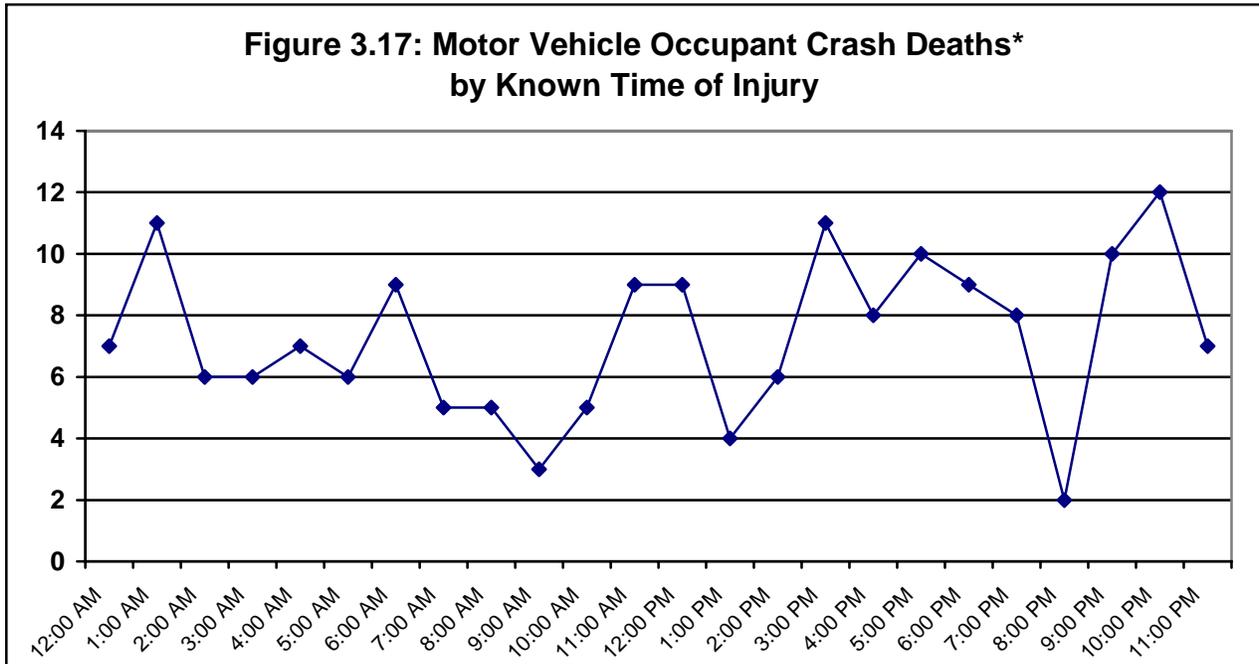


*Totals include 35 injuries and one death with unspecified race/ethnicity.
 Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services.
 San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05



*Totals include 35 injuries and one death with unspecified race/ethnicity.
 Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services.
 San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

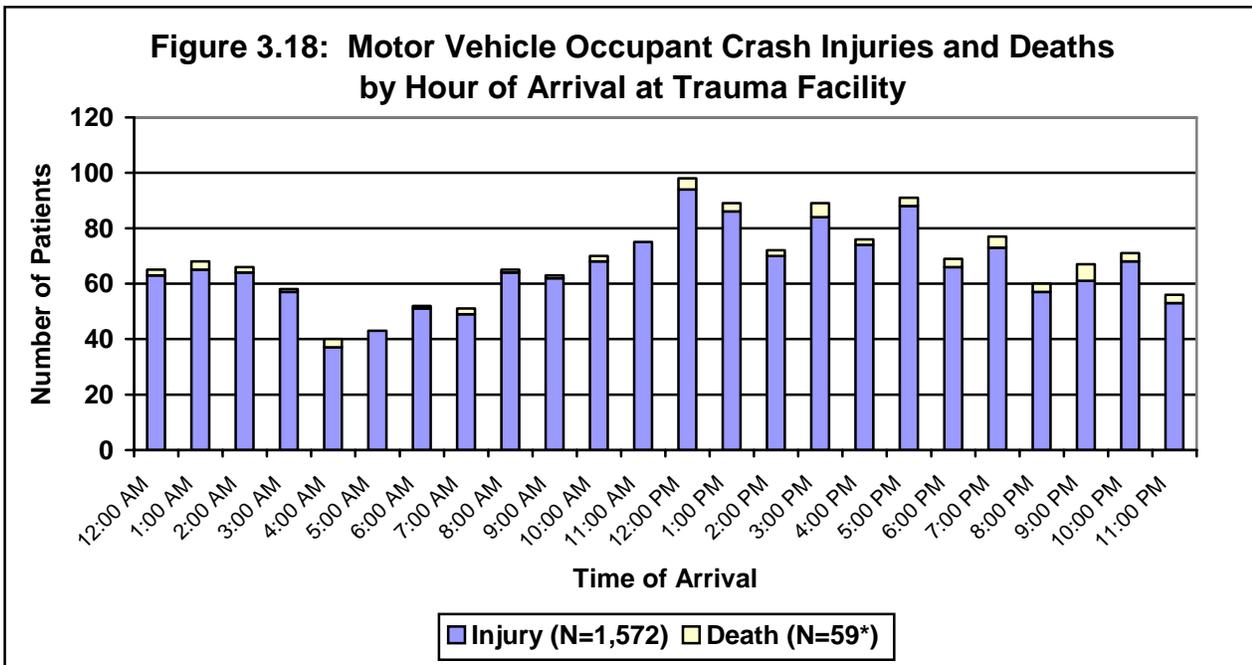
The peak hour for fatal MVO crashes was between 10:00 and 11:00 p.m. The number of trauma patients admitted to trauma facilities was highest between noon and 1:00 pm.



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

*There were 15 deaths with an unidentified time of injury

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2004/05

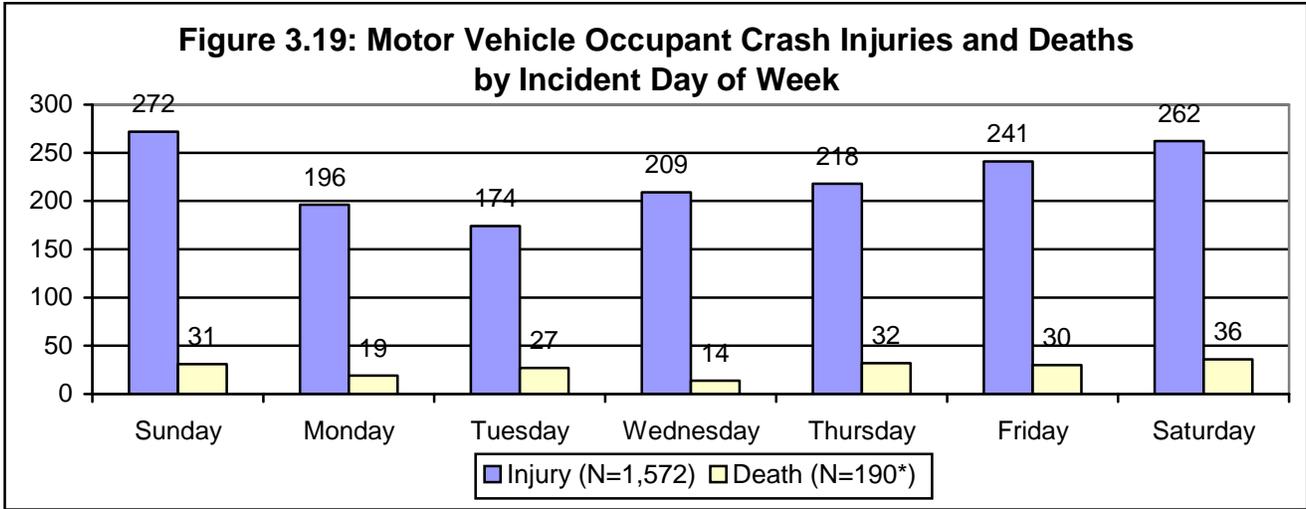


All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

*Note: limited to patients arriving at trauma facilities (deaths on scene or at non-trauma facilities not applicable)

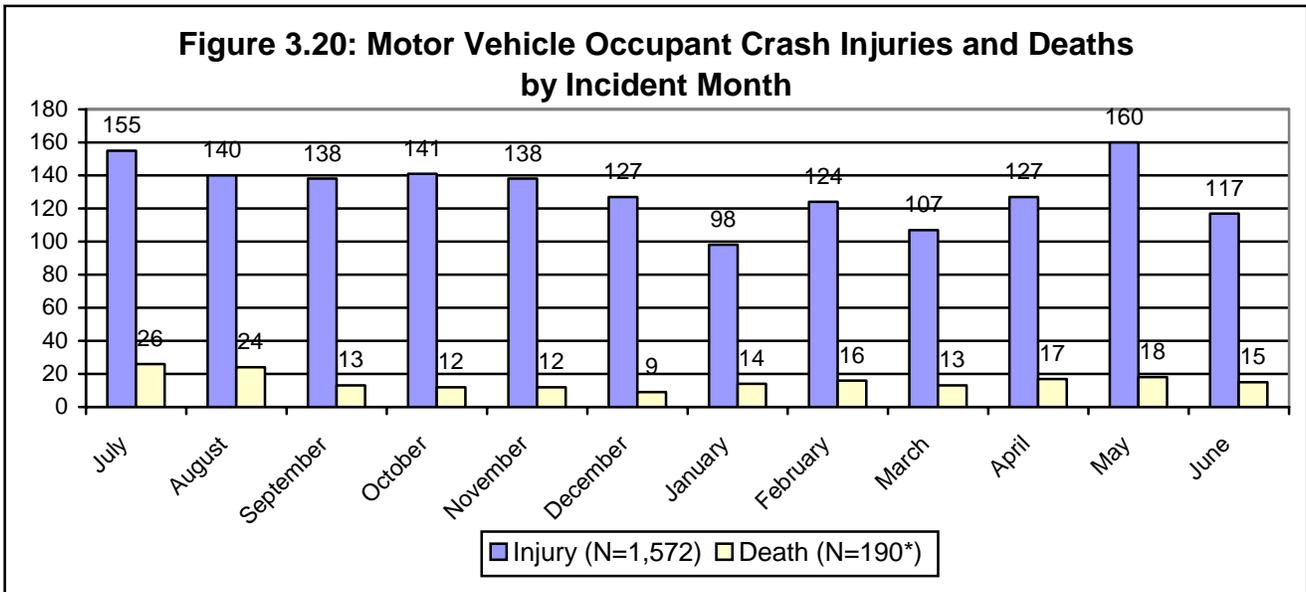
Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

Motor Vehicle Occupant Crash injuries were highest on weekends, with Saturday and Sunday making up 34% of injuries and 35% of deaths. The month with the highest number of MVO injuries was May, while July had the highest number of deaths.



*Totals include one death with unspecified incident date.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

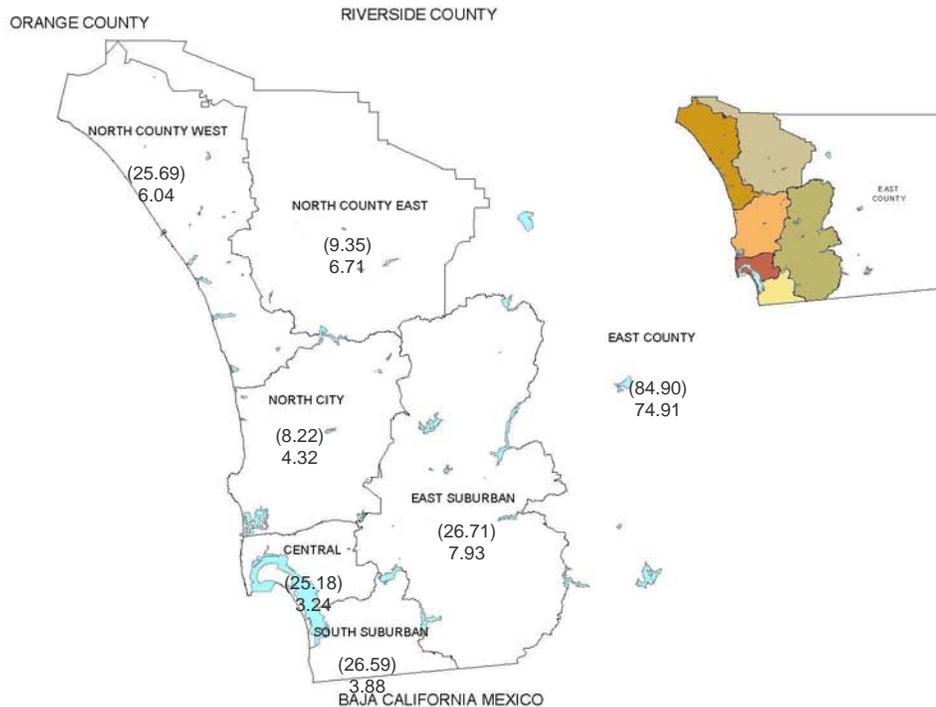


*Totals include one death with unspecified incident date.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

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 MVO injuries and for 90% of deaths from MVO crashes. The highest rates of both injury and death from MVO crashes were in the East County MSA (85 injuries per 100,000 and 75 deaths per 100,000 population). Population estimates for each of the MSAs can be found in Appendix B.

Figure 3.21: Motor Vehicle Occupant Crash 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.

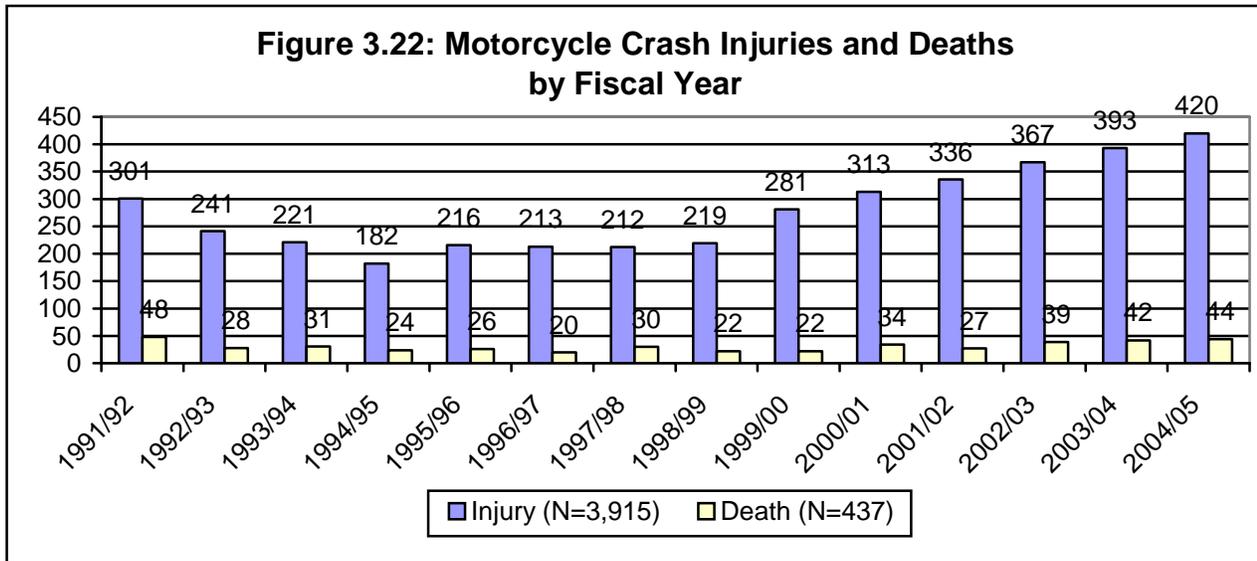
*Rates not calculated on fewer than five incidents.

Please note there were 968 injuries and 19 deaths with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data: FY 2004/05; Population estimates, SANDAG.

Motorcycle Crash Injuries

California enacted its mandatory helmet law for all motorcycle riders in 1991. From FY 1991/92 to 1994/95, the number of injuries dropped 40%. Since FY 1994/95, the annual number of injuries has more than doubled. While the number of motorcycle-related injuries has continued to increase, however, the percent of injured motorcyclists who have died has declined from nearly 14% in FY 1991/92 to a low of 7.3% in FY 1999/00. Motorcycle injuries and deaths increased by 7% and 5%, respectively, from FY 2003/04 to FY 2004/05.



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 –2004/05

Table 3.5: Number and Rate (per 100,000) of Motorcycle Crash Injuries and Deaths by Fiscal Year

Fiscal Year	Injury		Death		Total	
	Incidence	Rate	Incidence	Rate	Incidence	Rate
1991/92	301	11.70	48	1.87	349	13.57
1992/93	241	9.29	28	1.08	269	10.37
1993/94	221	8.49	31	1.19	252	9.68
1994/95	182	6.96	24	0.92	206	7.88
1995/96	216	8.24	26	0.99	242	9.23
1996/97	213	8.03	20	0.75	233	8.78
1997/98	212	7.84	30	1.11	242	8.95
1998/99	219	7.96	22	0.80	241	8.76
1999/00	281	9.99	22	0.78	303	10.77
2000/01	313	10.93	34	1.19	347	12.12
2001/02	336	11.51	27	0.92	363	12.43
2002/03	367	12.35	39	1.31	406	13.66
2003/04	393	13.04	42	1.39	435	14.44
2004/05	420	13.82	44	1.45	464	15.27

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 –2004/05

The majority of people who were injured or killed in motorcycle crashes during FY 2004/05 were male (85% of injuries and 86% of deaths). The highest rate of injury was in males 20-24 years of age (50 per 100,000).

Figure 3.23: Motorcycle Crash Injuries and Deaths by Gender



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

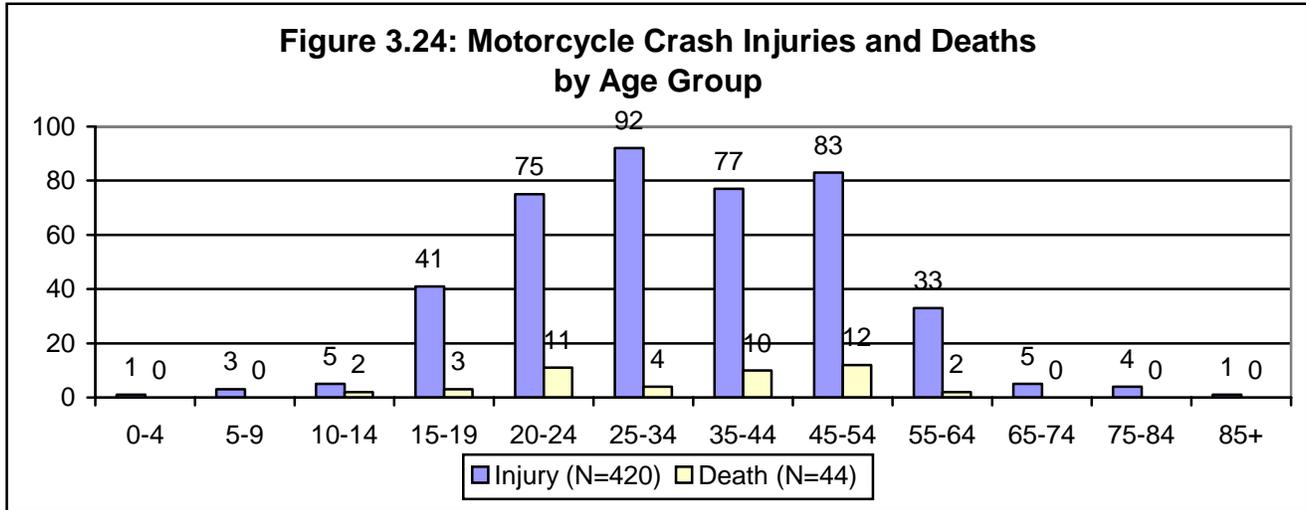
Table 3.6: Number and Rate* (per 100,000) of Motorcycle Crash Injury and Death by Age Group and Gender

Age Group	Injury						Death						Overall Total	
	Male		Female		Total		Male		Female		Total		Number	Rate
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate		
0-4	1	*	0	-	1	*	0	-	0	-	0	-	1	*
5-9	2	*	1	*	3	*	0	-	0	-	0	-	3	*
10-14	3	*	2	*	5	2.30	2	*	0	-	2	*	7	3.22
15-19	32	26.61	9	8.25	41	17.87	2	*	1	*	3	*	44	19.18
20-24	67	49.70	8	7.69	75	31.41	11	8.16	0	-	11	4.61	86	36.01
25-34	83	34.72	9	4.07	92	20.00	3	*	1	*	4	*	96	20.86
35-44	70	30.09	7	3.04	77	16.65	10	4.30	0	-	10	2.16	87	18.81
45-54	65	32.33	18	8.63	83	20.27	9	4.48	3	*	12	2.93	95	23.20
55-64	29	22.62	4	*	33	12.36	1	*	1	*	2	*	35	13.11
65-74	4	*	1	*	5	3.09	0	-	0	-	0	-	5	3.09
75-84	3	*	1	*	4	*	0	-	0	-	0	-	4	*
85+	0	-	1	*	1	*	0	-	0	-	0	-	1	*
Total	359	23.61	61	4.02	420	13.82	38	2.50	6	0.40	44	1.45	464	15.27

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2004/05; Population estimates, SANDAG.

*Rates not calculated on fewer than five incidents

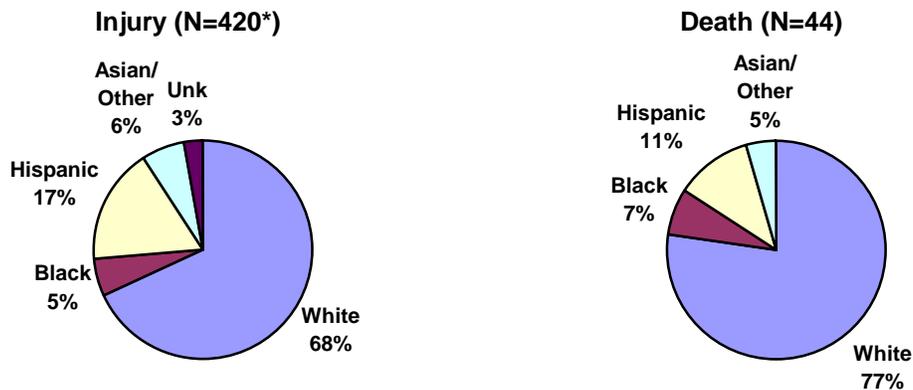
Although 20 to 24 year olds have the highest rates of motorcycle crash injury, there are large numbers of injuries occurring into the mid 50s, and sporadic cases in the elderly as well.



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

Whites were substantially over-represented among injuries and deaths from motorcycle crashes, with 68% of injuries and 77% of deaths, compared with only 52% of the population overall.

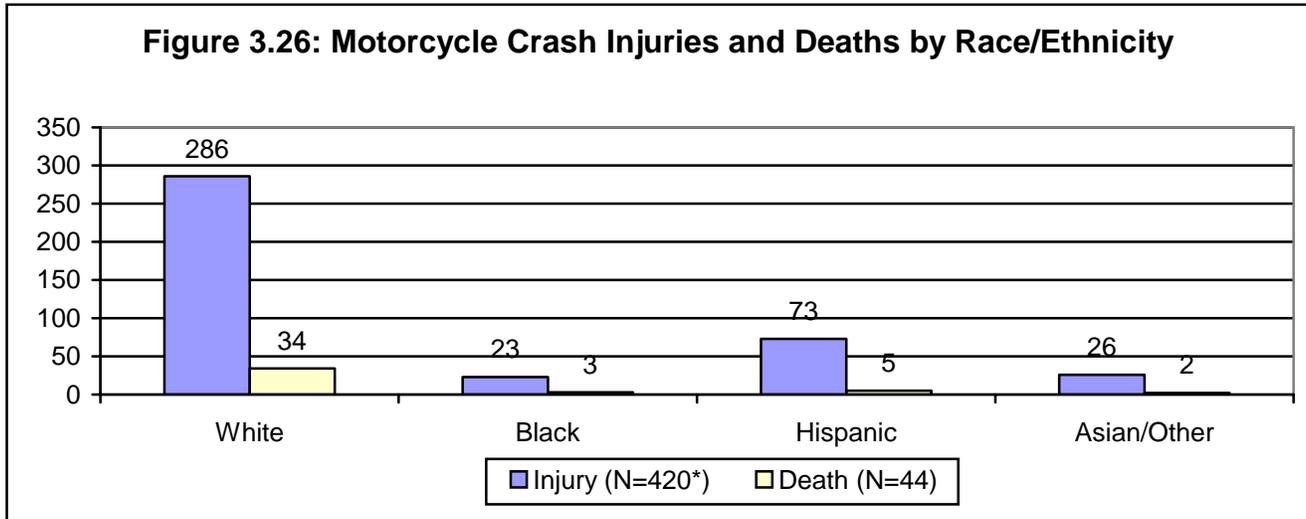
Figure 3.25: Motorcycle Crash Injuries and Deaths by Race/Ethnicity



*Totals include 12 injuries of unspecified race/ethnicity.

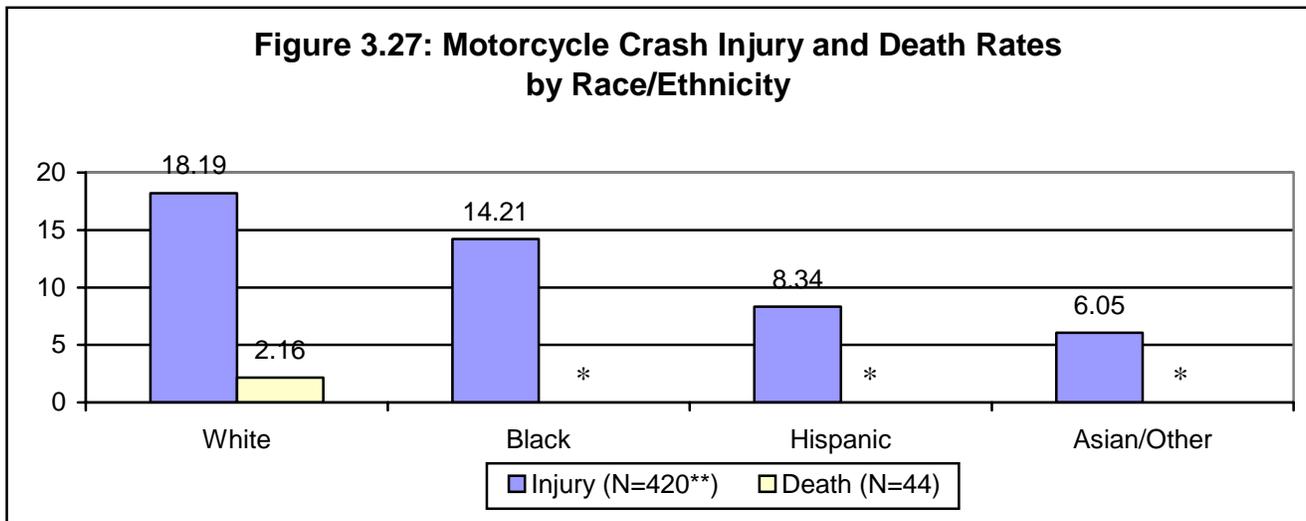
Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

During FY 2004/05, the White population had the highest incidence and rate of deaths and severe injuries due to motorcycle crashes. Sixty eight percent of severe injuries and 77% of deaths occurred in the White population, which made up about 52% of the total county population.



*Totals include 12 injuries with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

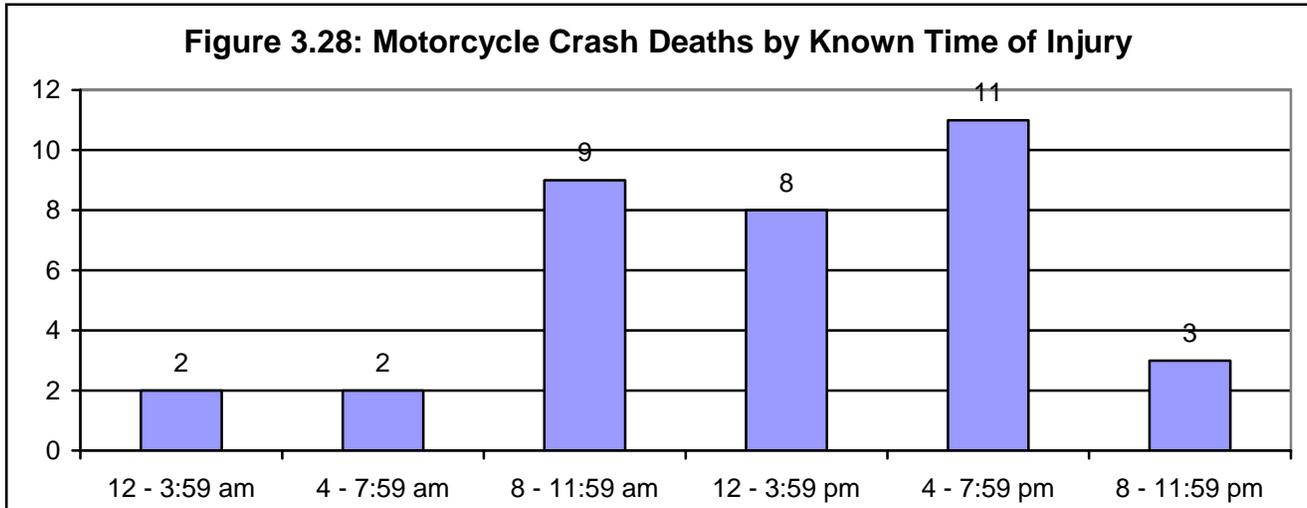


*Rates not calculated on fewer than five incidents

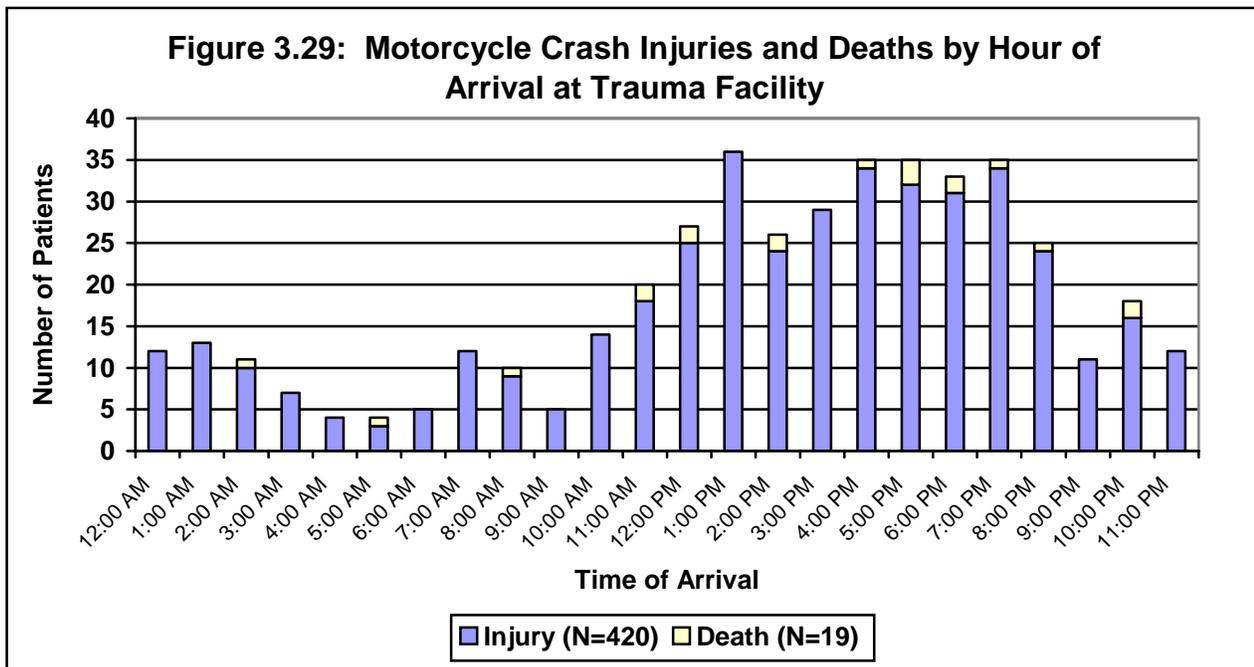
**Totals include 12 injuries with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

Fatal motorcycle crashes occurred primarily in the afternoon and early evening hours, with 54% occurring between noon and 8 p.m. Patient arrivals at trauma centers were also highest from noon to 8 p.m. (58%).

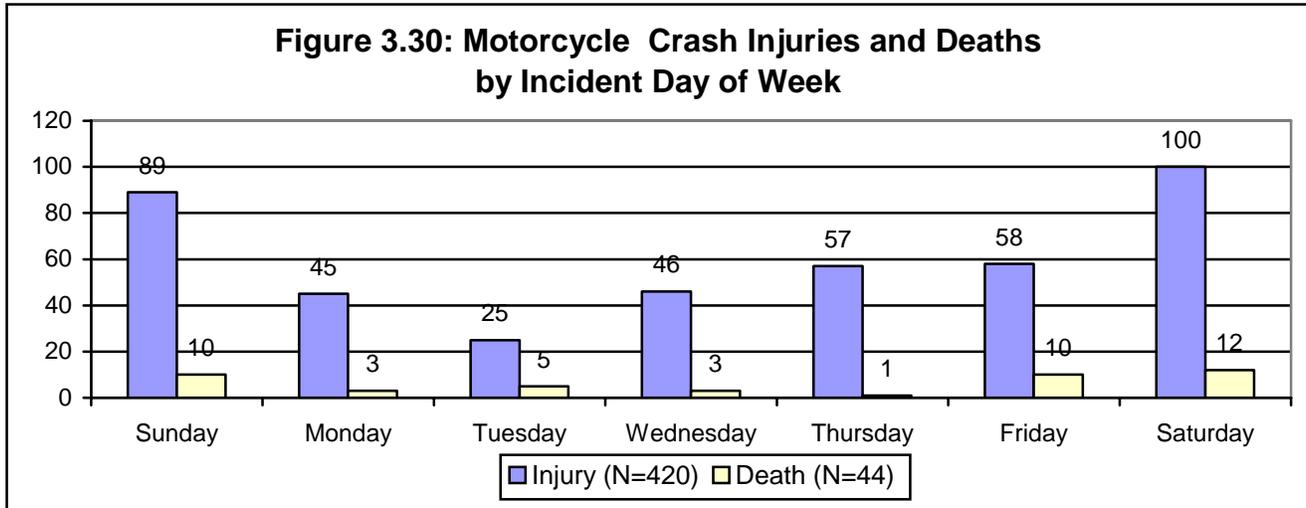


There were nine deaths with unidentified time of injury
 Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2004/05

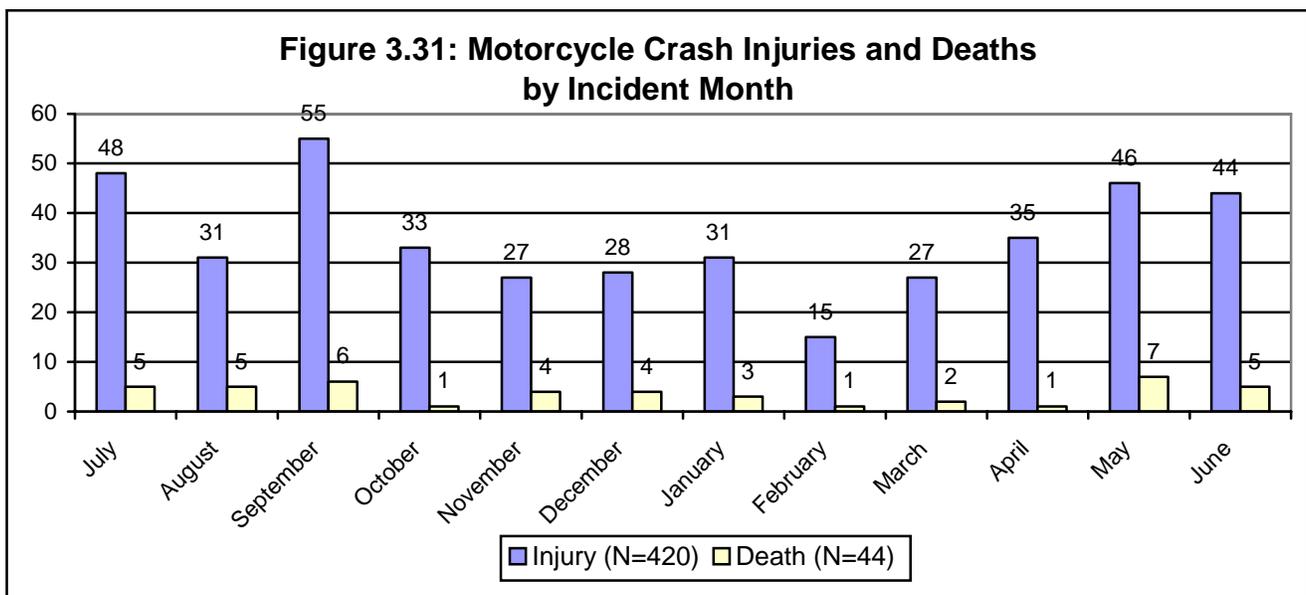


All times are in one hour increments, for example, 6:00 - 6:59 = 6:00
 *Note: limited to patients arriving at trauma facilities (deaths on scene or at non-trauma facilities not applicable)
 Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

Forty five percent of injuries and 50% of deaths occurred on Saturdays and Sundays. September was the month with the highest number of motorcycle crash injuries, while May had the greatest number of deaths.



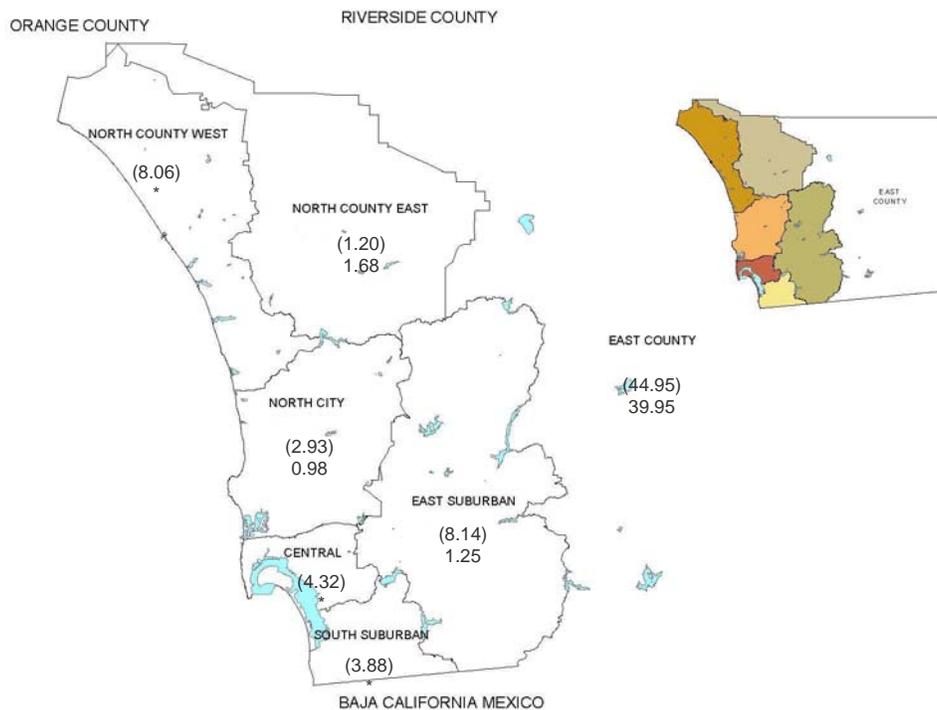
Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

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 35% of non-fatal motorcycle injuries and for 84% of deaths from motorcycle crashes. The East Suburban MSA had the highest rates of both nonfatal injury and death due to motorcycle crashes. Population estimates for each of the MSAs can be found in Appendix B.

Figure 3.32: Motorcycle Crash 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.

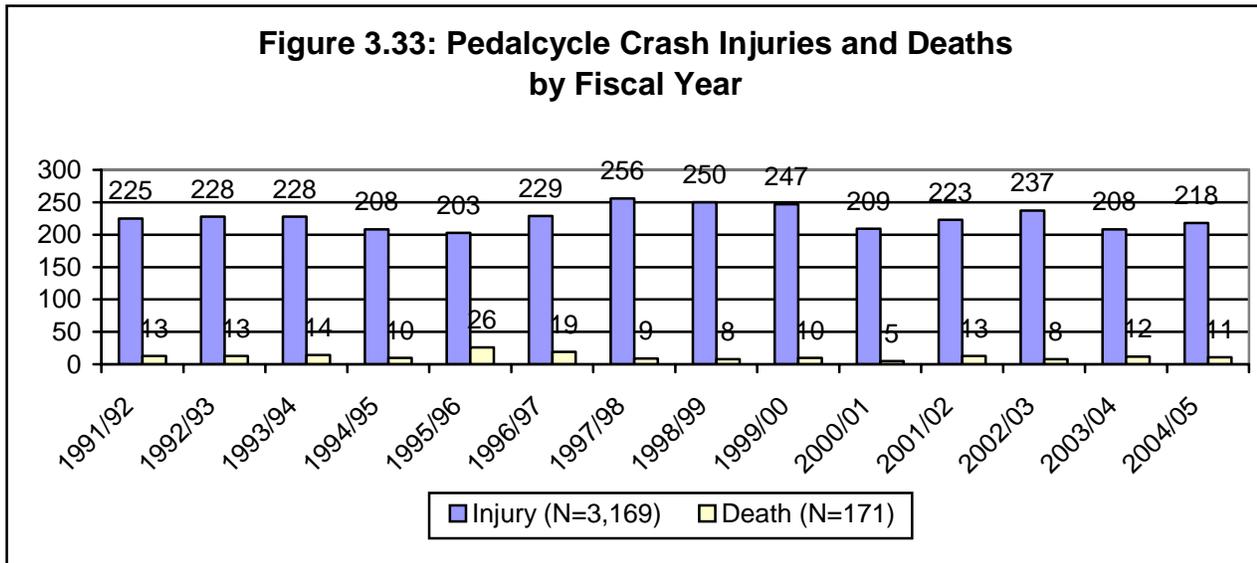
*Rates not calculated on fewer than five incidents.

Please note there were 272 injuries and seven deaths with unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05. Population estimates, SANDAG.

Pedalcycle Crash Injuries

The ratio of deaths to non-fatal pedalcycle injuries was much lower than for other causes of injury. Compared to the ratio for all causes of injury, in which there was one death for every seven nonfatal major trauma victims, the ratio for pedalcyclists during FY 2004/05 was one death per 20 nonfatal injuries.



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 –2004/05

Table 3.7: Number and Rate (per 100,000) of Pedalcycle Crash Injuries and Deaths by Fiscal Year

Fiscal Year	Injury		Death		Total	
	Incidence	Rate	Incidence	Rate	Incidence	Rate
1991/92	225	8.75	13	0.51	238	9.25
1992/93	228	8.79	13	0.50	241	9.29
1993/94	228	8.75	14	0.54	242	9.29
1994/95	208	7.96	10	0.38	218	8.34
1995/96	203	7.74	26	0.99	229	8.74
1996/97	229	8.63	19	0.72	248	9.35
1997/98	256	9.47	9	0.33	265	9.80
1998/99	250	9.09	8	0.29	258	9.38
1999/00	247	8.78	10	0.36	257	9.13
2000/01	209	7.30	5	0.17	214	7.47
2001/02	223	7.64	13	0.45	236	8.08
2002/03	237	7.97	8	0.27	245	8.24
2003/04	208	6.90	12	0.40	220	7.30
2004/05	218	7.17	11	0.36	229	7.53

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 –2004/05

Injuries and deaths related to pedalcycle crashes were much more likely to happen to males than females. The highest age and sex-specific injury rate was in 10 to 14 year old boys (25 per 100,000).

Figure 3.34: Pedalcycle Crash Injuries and Deaths by Gender



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

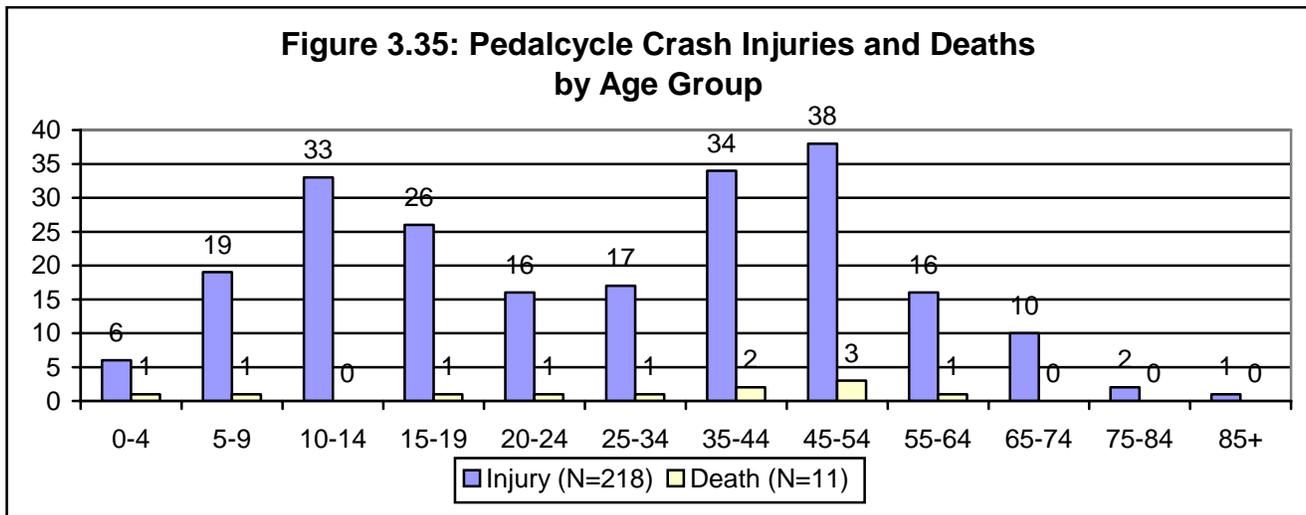
Table 3.8: Number and Rate* (per 100,000) of Pedalcycle Crash Injury by Age Group and Gender

Age Group	Male		Female		Total	
	Number	Rate	Number	Rate	Number	Rate
0-4	6	5.30	0	-	6	2.67
5-9	14	14.37	5	5.12	19	9.74
10-14	28	25.34	5	4.68	33	15.19
15-19	25	20.79	1	*	26	11.33
20-24	12	8.90	4	*	16	6.70
25-34	15	6.27	2	*	17	3.69
35-44	28	12.04	6	2.61	34	7.35
45-54	33	16.41	5	2.40	38	9.28
55-64	12	9.36	4	*	16	5.99
65-74	8	10.85	2	*	10	6.18
75-85	2	*	0	-	2	*
85+	1	*	0	-	1	*
Total	184	12.10	34	2.24	218	7.17

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2004/05; Population estimates, SANDAG

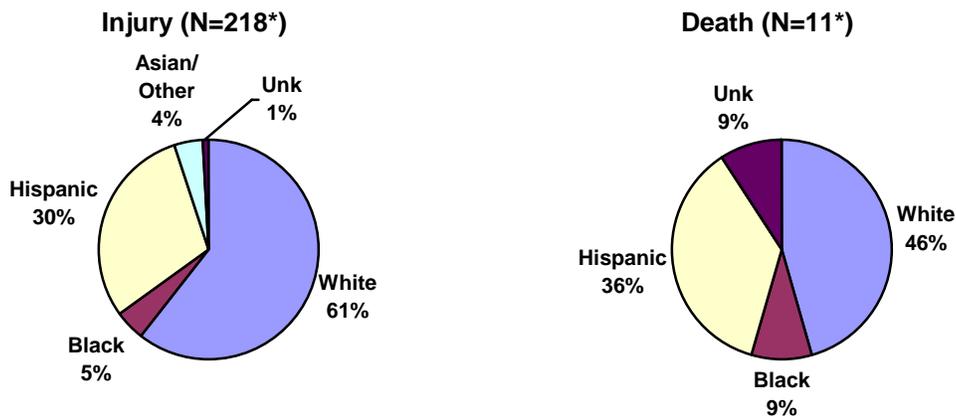
*Rates not calculated on fewer than five incidents

While the highest injury rates were seen in boys between 10 and 14 years of age, 6 of the 11 people who died in pedalcycle crashes (55%) were 35 years of age or older.



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

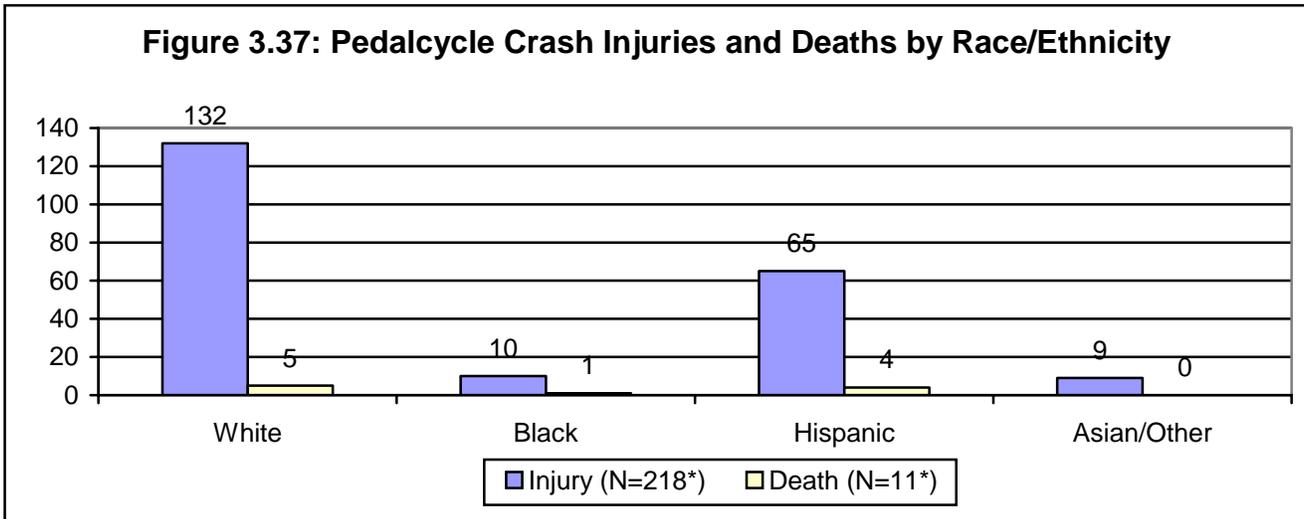
Figure 3.36: Pedalcycle Crash Injuries and Deaths by Race/Ethnicity



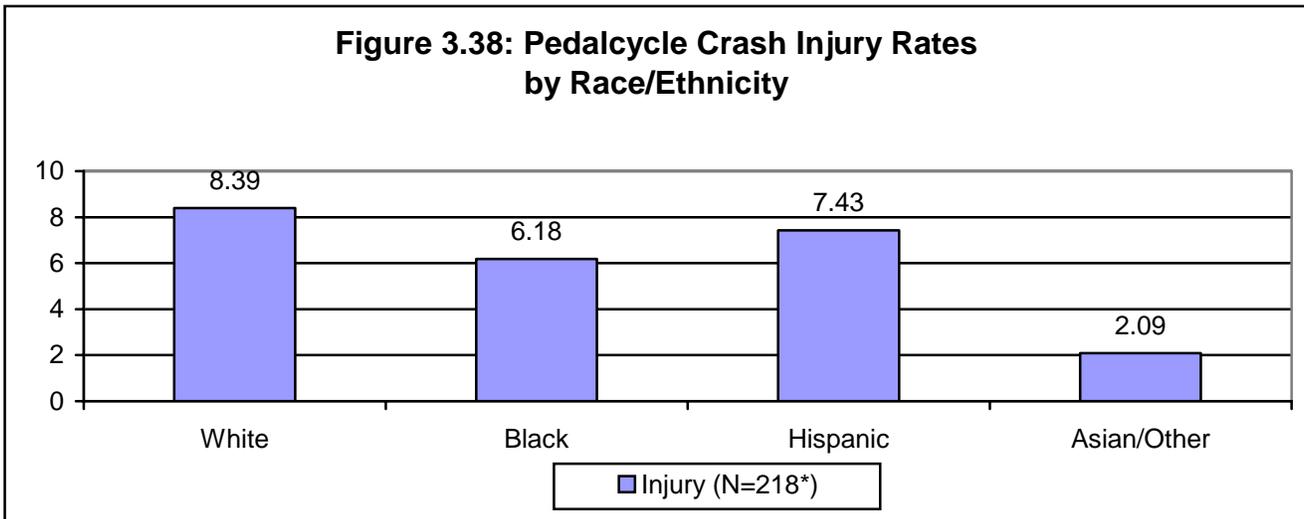
*Totals include five injuries with unspecified race/ethnicity

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

Rates of pedalcycle crash injury were highest among Whites, followed by Hispanic, Black, and Asian populations.

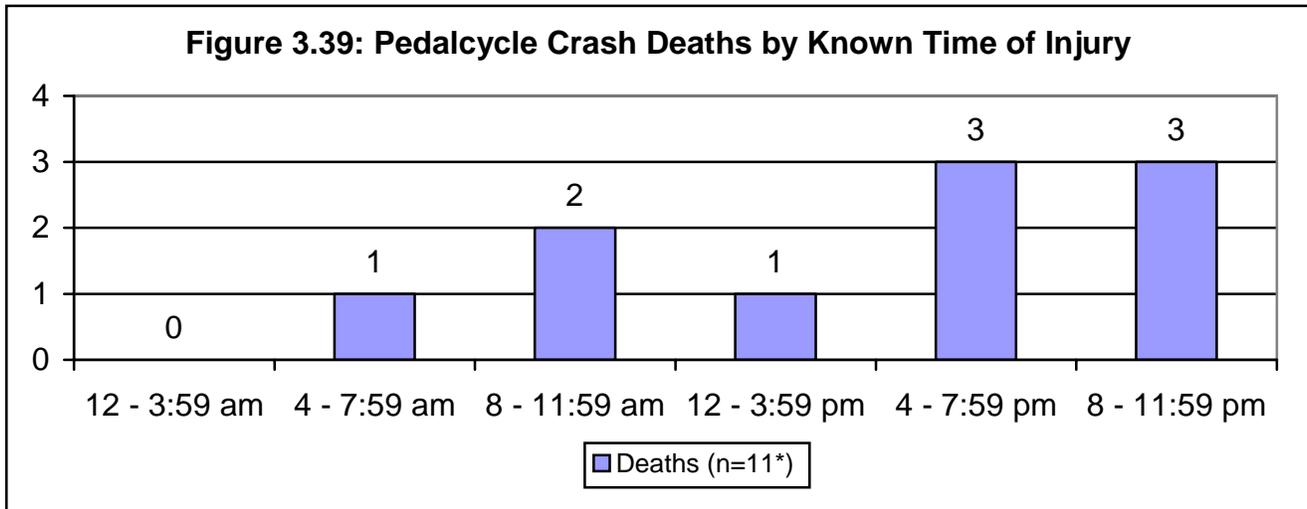


*Totals include two injuries and one death with unspecified race/ethnicity
 Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services.
 San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05



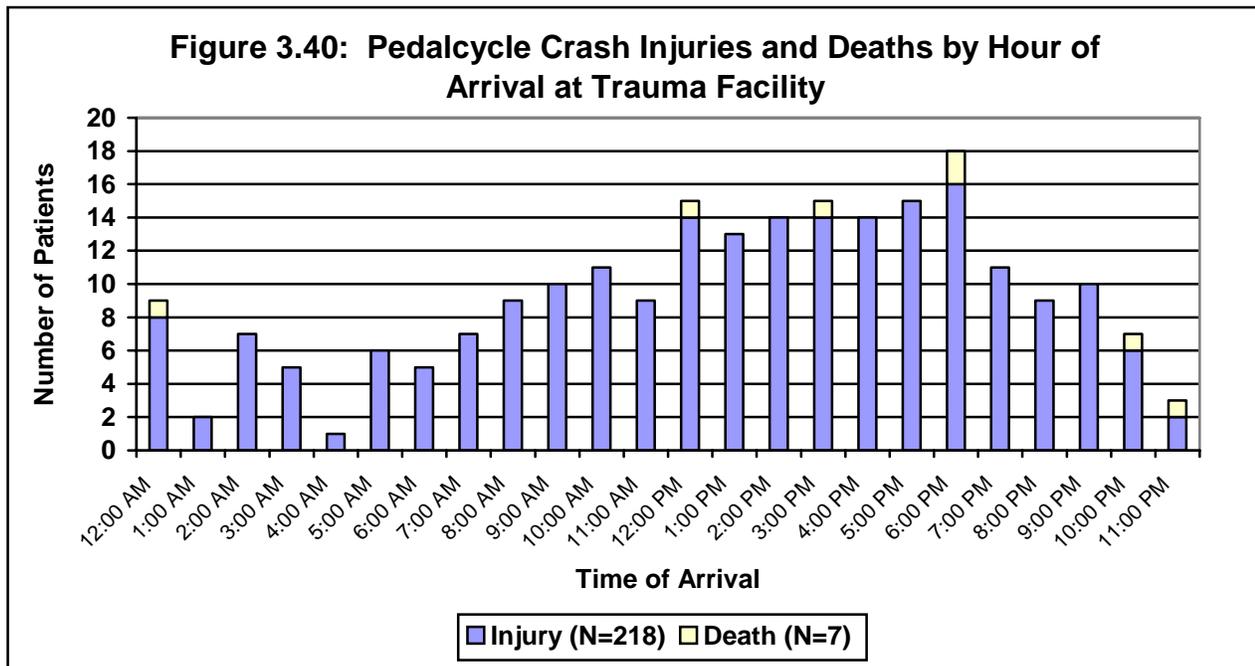
*Totals include two injuries and one death with unspecified race/ethnicity
 Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services.
 San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

Six of the eleven pedalcyclists who died were injured between 4 p.m. and midnight, while the peak hours for trauma center admissions were between noon and 7 p.m.



*Total includes one death with unknown time of injury

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2004/05

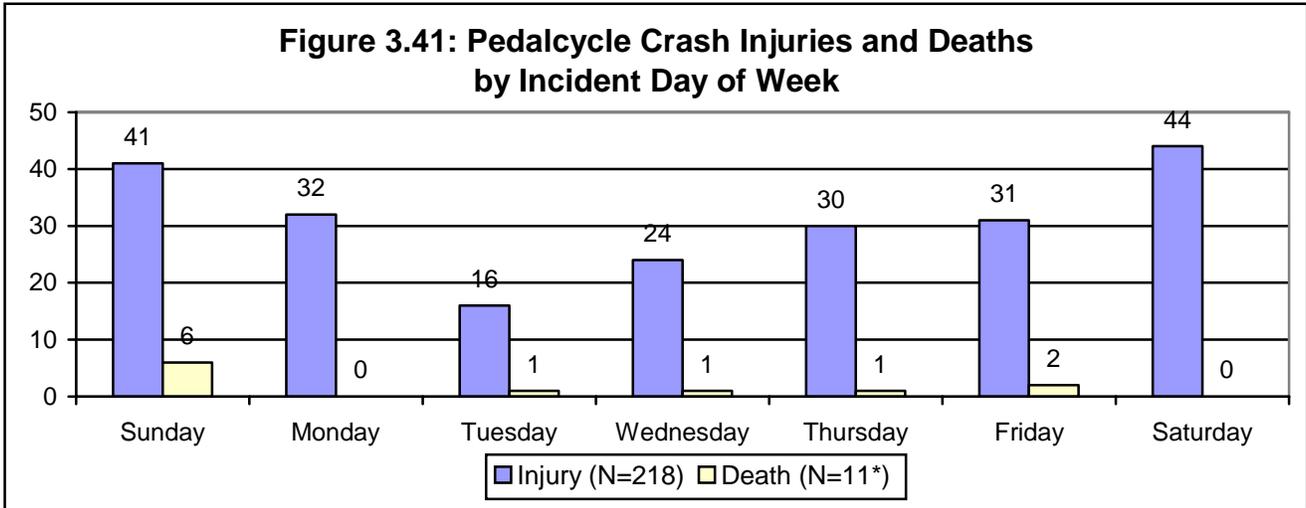


All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

*Note: limited to patients arriving at trauma facilities (deaths on scene or at non-trauma facilities not applicable)

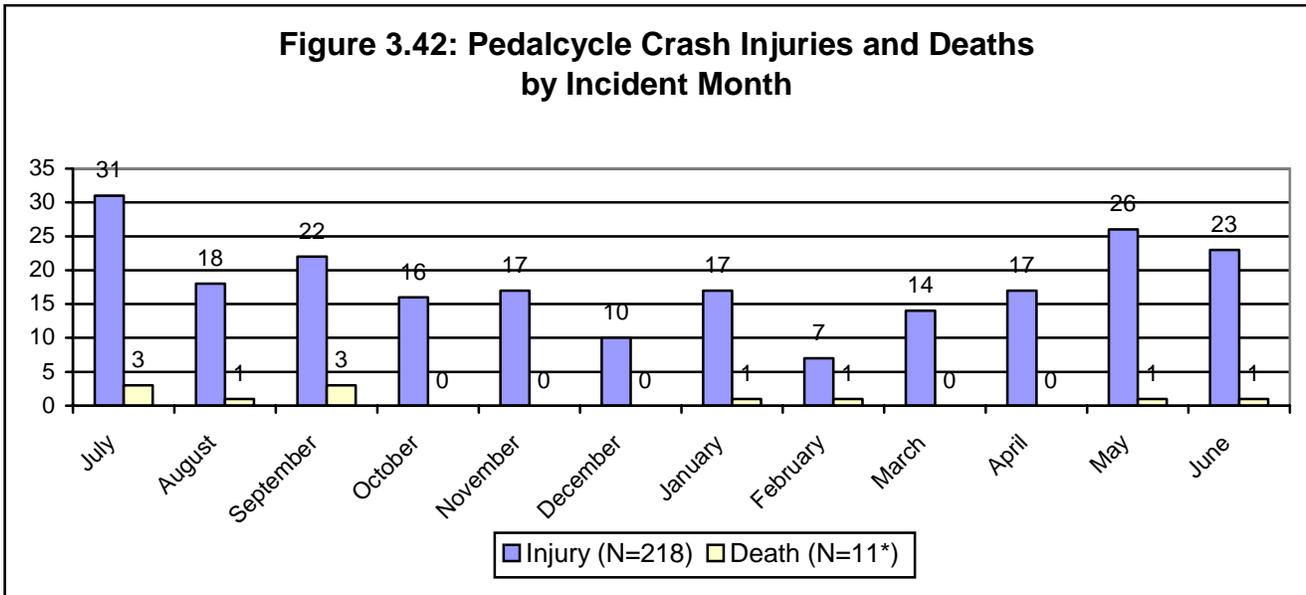
Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

Pedalcyclists were most likely to be injured on Saturdays, while the busiest month for pedalcycle injuries was July.



*Totals include one death with unspecified date of injury.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

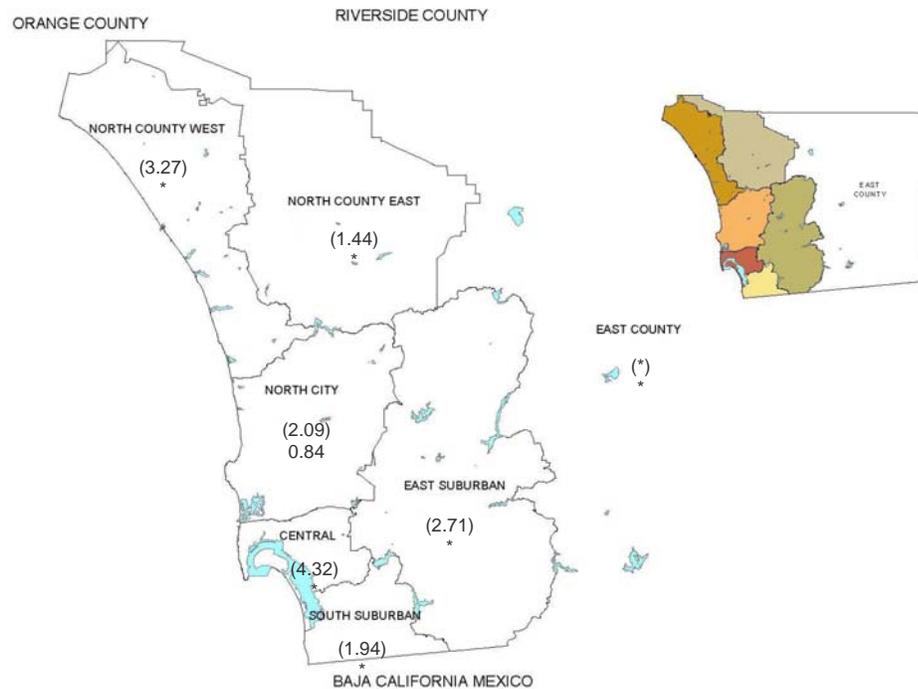


*Totals include one death with unspecified date of injury.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

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 pedalcycle injuries and for 100% of deaths from pedalcycle crashes. The Central MSA had the highest rate of pedalcycle injury (4.32 per 100,000). North City MSA was the only area with a sufficient number of deaths to calculate a rate (0.84 per 100,000). Population estimates for each of the MSAs can be found in Appendix B.

Figure 3.43: Pedalcycle Crash 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.

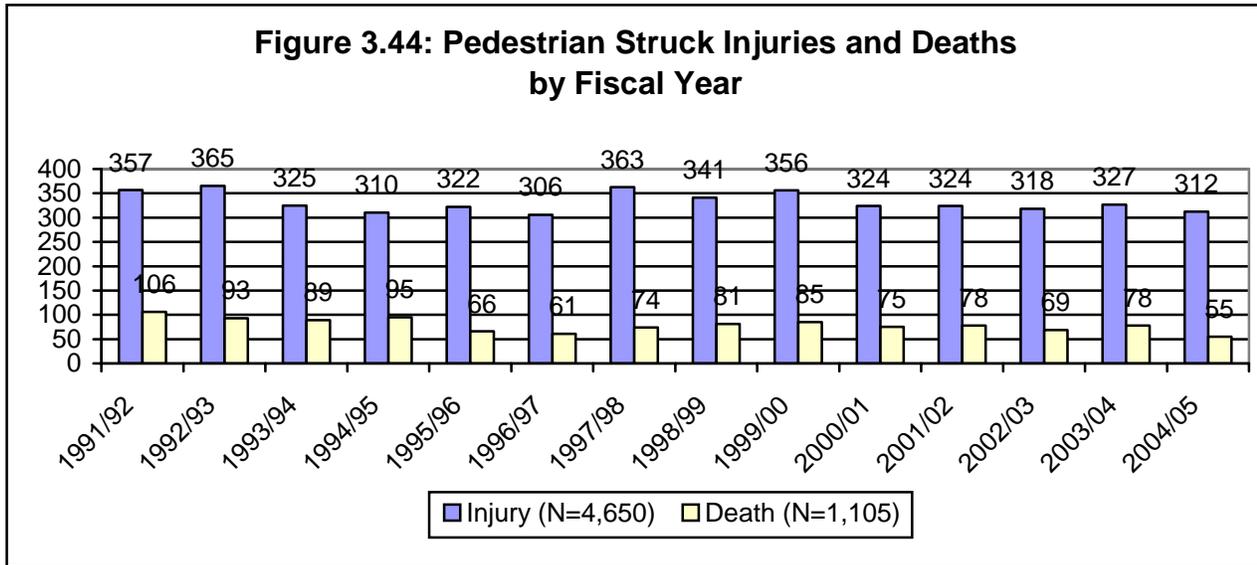
*Rates not calculated on fewer than five incidents.

Please note there were 135 injuries with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04. Population estimates, SANDAG.

Pedestrian Injuries

From FY 2003/04 to 2004/05 the number of pedestrian injuries decreased by 5%, while deaths due to pedestrian crashes decreased by 29%, to its lowest number in the past 14 years.



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 –2004/05

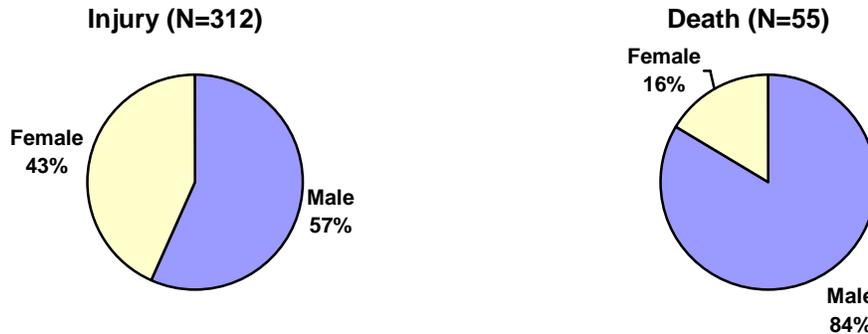
Table 3.9: Number and Rate (per 100,000) of Pedestrian Struck Injuries and Deaths by Fiscal Year

Fiscal Year	Injury		Death		Total	
	Incidence	Rate	Incidence	Rate	Incidence	Rate
1991/92	357	13.88	106	4.12	463	18.00
1992/93	365	14.07	93	3.59	458	17.66
1993/94	325	12.48	89	3.42	414	15.90
1994/95	310	11.86	95	3.64	405	15.50
1995/96	322	12.28	66	2.52	388	14.80
1996/97	306	11.53	61	2.30	367	13.83
1997/98	363	13.43	74	2.74	437	16.17
1998/99	341	12.40	81	2.94	422	15.34
1999/00	356	12.65	85	3.02	441	15.67
2000/01	324	11.31	75	2.62	399	13.93
2001/02	324	11.10	78	2.67	402	13.77
2002/03	318	10.70	69	2.32	387	13.02
2003/04	327	10.85	78	2.59	405	13.44
2004/05	312	10.27	55	1.81	367	12.08

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 –2004/05

As with other transportation related injuries, males had a higher rate of death and severe injury as pedestrians compared to females for nearly all age groups. Males accounted for 57% of severe injuries and 84% of deaths. The highest injury rate was to women between 65 and 74 years of age (17 per 100,000).

Figure 3.45: Pedestrian Struck Injuries and Deaths by Gender



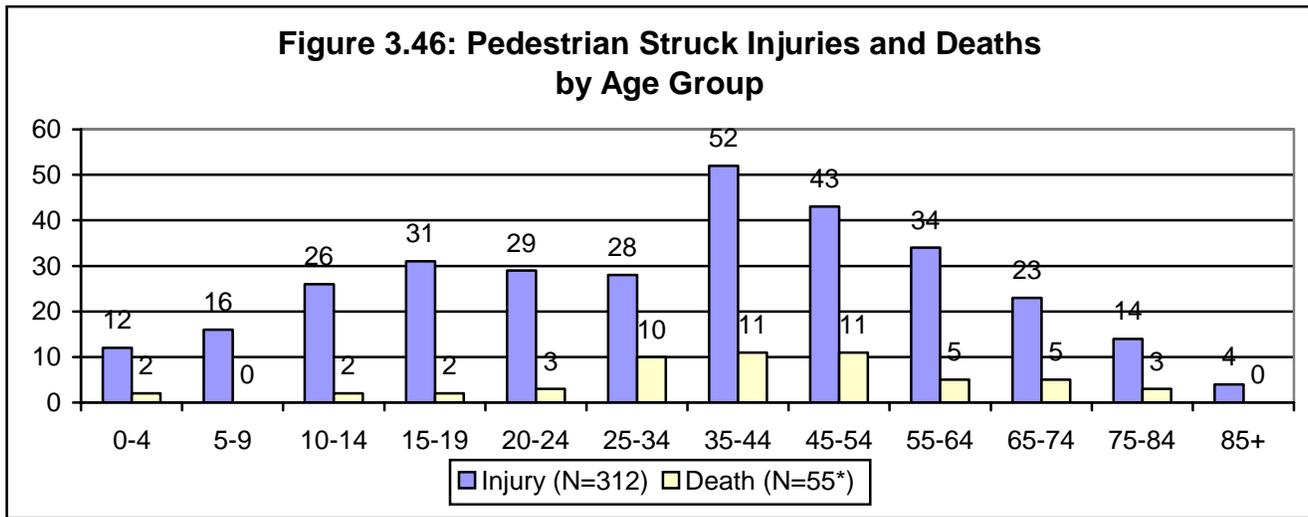
Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

Table 3.10: Number and Rate* (per 100,000) of Pedestrian Struck Injury and Death by Age Group and Gender

Age Group	Injury						Death						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	8	7.06	4	*	12	5.34	2	*	0	-	2	*	14	6.23
5-9	11	11.29	5	5.12	16	8.20	0	-	0	-	0	-	16	8.20
10-14	17	15.39	9	8.43	26	11.97	2	*	0	-	2	*	28	12.89
15-19	18	14.97	13	11.91	31	13.51	1	*	1	*	2	*	33	14.39
20-24	17	12.61	12	11.54	29	12.14	3	*	0	-	3	*	32	13.40
25-34	17	7.11	11	4.98	28	6.09	8	3.35	2	*	10	2.17	38	8.26
35-44	31	13.33	21	9.13	52	11.24	11	4.73	0	-	11	2.38	63	13.62
45-54	27	13.43	16	7.67	43	10.50	9	4.48	2	*	11	2.69	54	13.18
55-64	14	10.92	20	14.41	34	12.74	3	*	2	*	5	1.87	39	14.61
65-74	8	10.85	15	17.02	23	14.21	4	*	1	*	5	3.09	28	17.30
75-84	8	15.40	6	8.32	14	11.28	2	*	1	*	3	*	17	13.70
85+	1	*	3	*	4	*	0	-	0	-	0	-	4	*
Unknown	0		0		0		1		0		1		1	
Total	177	11.64	135	8.89	312	10.27	46	3.02	9	0.59	55	1.81	367	12.08

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2004/05; Population estimates, SANDAG

*Rates not calculated on fewer than five incidents

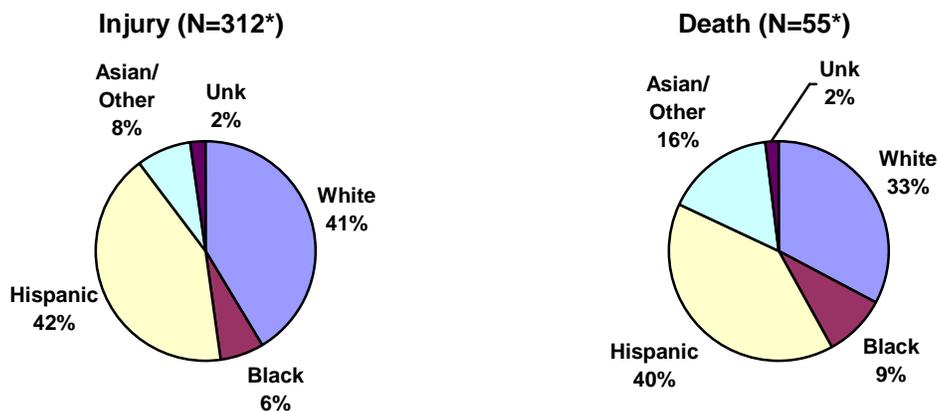


*Totals include one death with unknown age.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Hispanics made up 29% of the San Diego County population during FY 2004/05, but 42% of injuries and 40% of deaths due to pedestrian crashes. There were fewer injuries and deaths to Whites than would have been expected from the population distribution (41% of injuries and 33% of deaths from pedestrian crashes vs. 52% of the population).

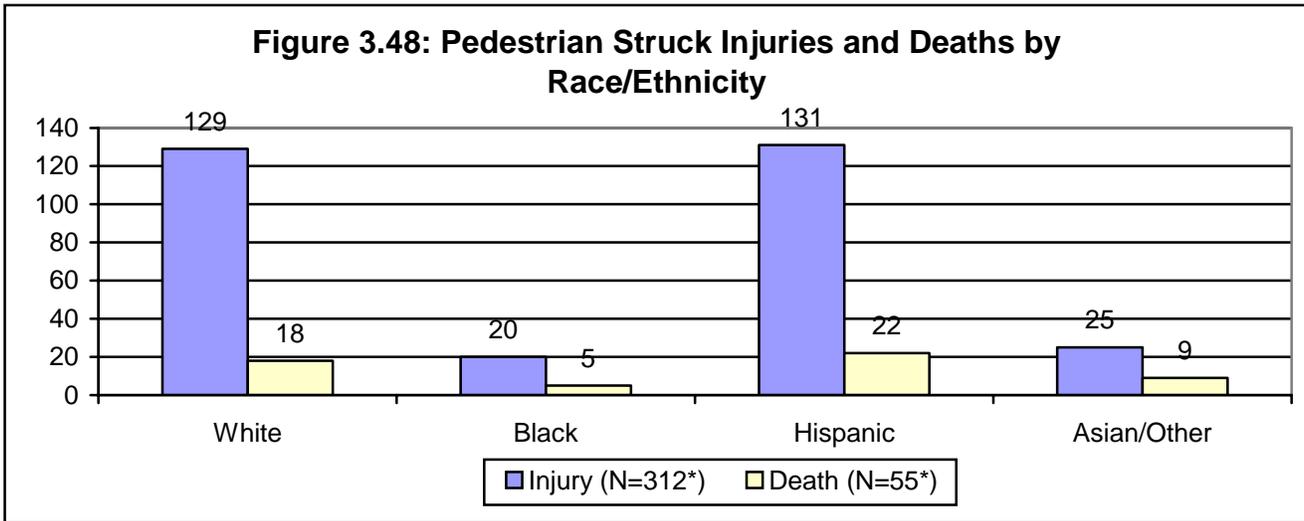
Figure 3.47: Pedestrian Struck Injuries and Deaths by Race/Ethnicity



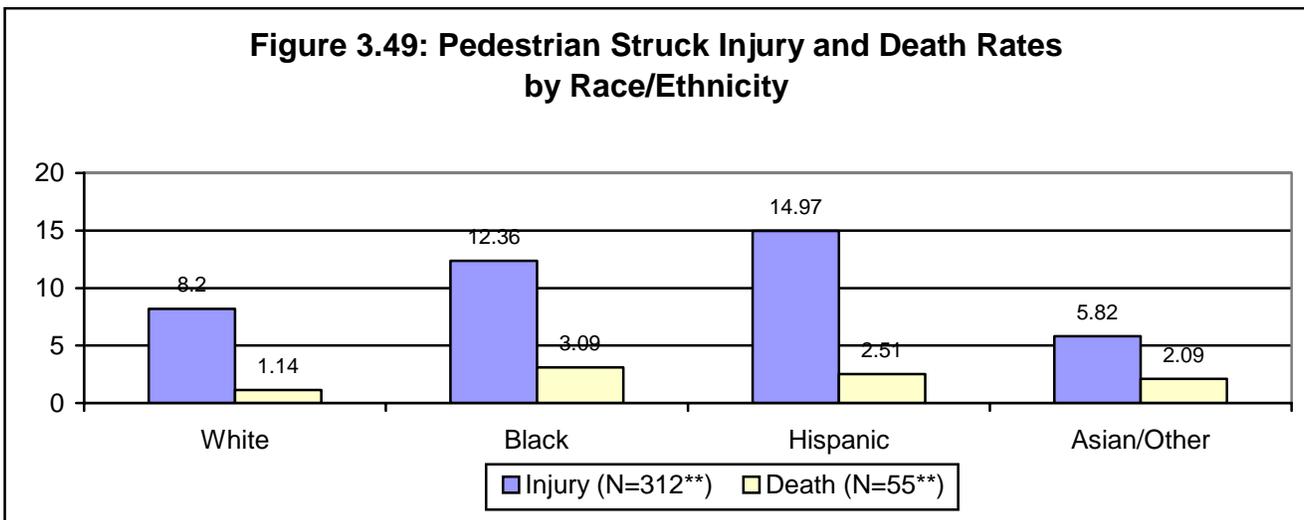
*Totals include seven injuries and one death with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

Whites and Hispanics had comparable numbers of injuries and deaths due to pedestrian crashes, although Hispanics had substantially higher rates of injury and death.

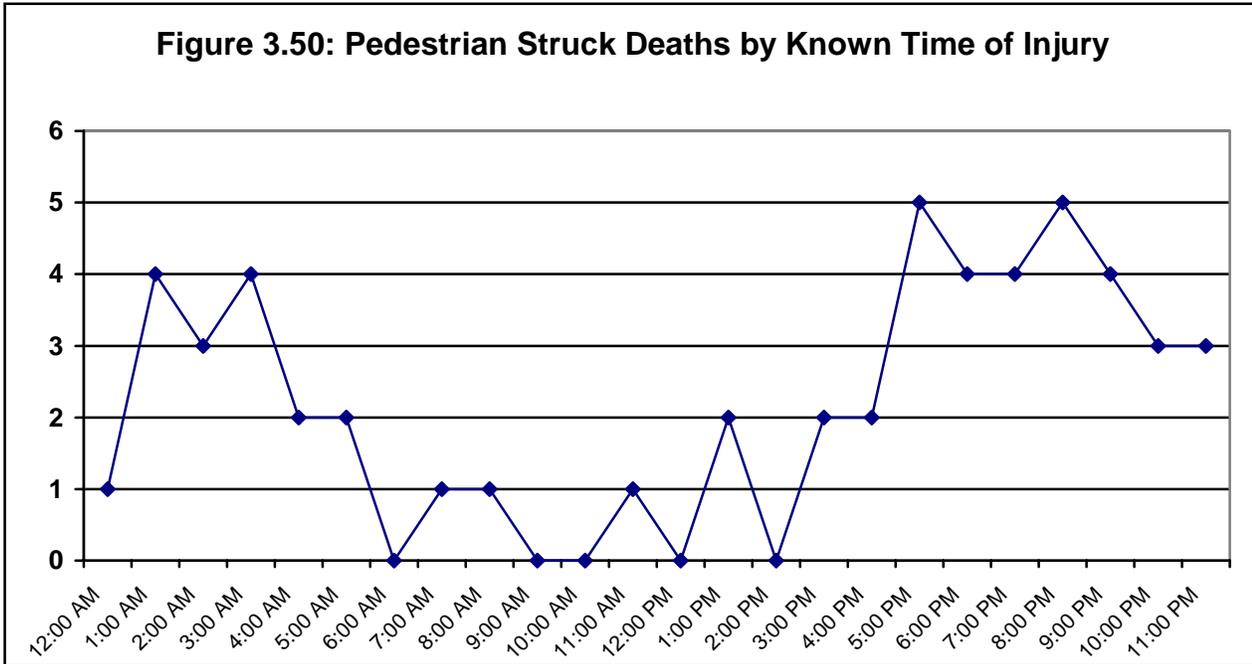


*Totals include seven injuries and one death with unspecified race/ethnicity.
 Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services.
 San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05.



*Rates not calculated on fewer than five incidents.
 **Totals include seven injuries and one death with unspecified race/ethnicity.
 Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services.
 San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05.

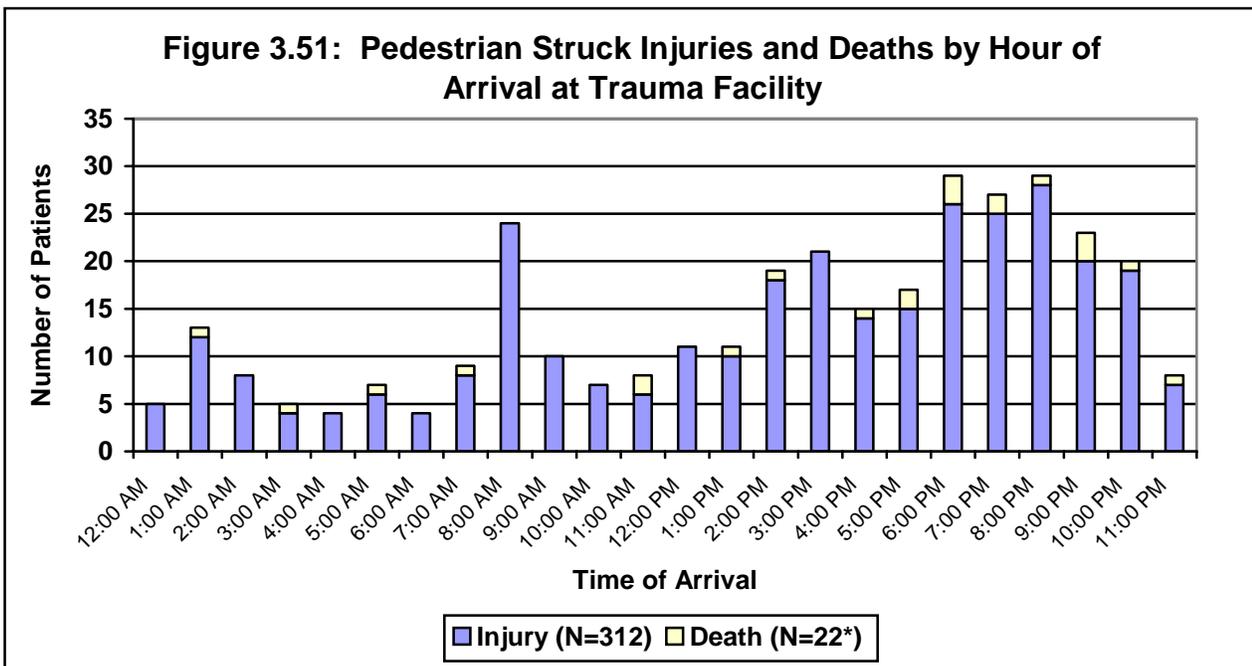
53% of pedestrian deaths with an identified time of injury occurred between 5 p.m. and midnight. Admissions to trauma facilities peaked in the evenings between 6 and 9 p.m., and also had a morning peak during the 8:00 hour.



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

There were two deaths with an unidentified time of injury

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2004/05

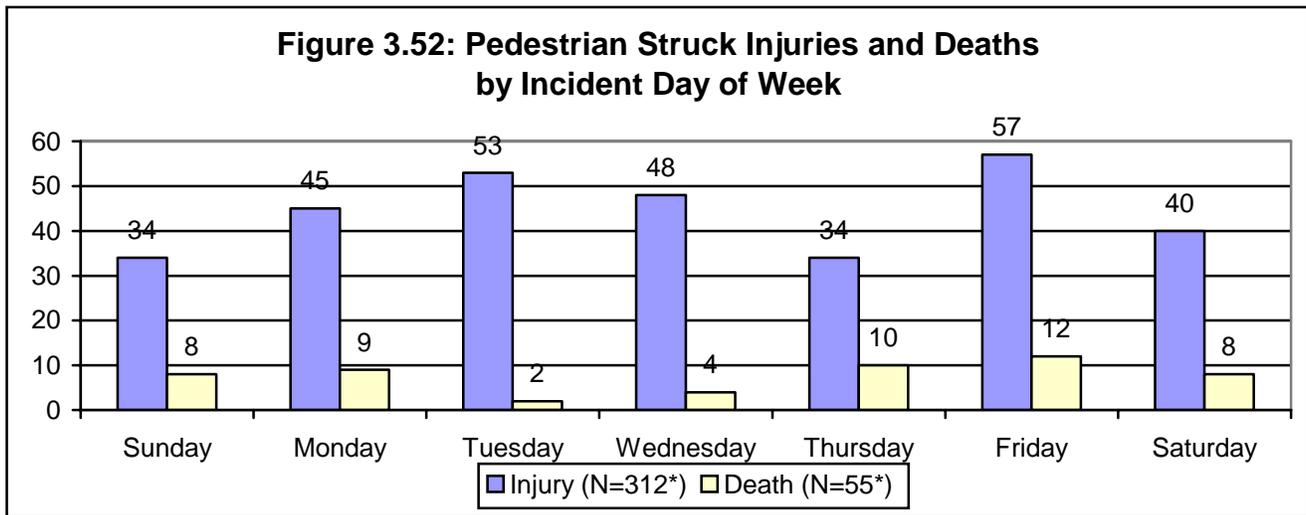


All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

*Note: limited to patients arriving at trauma facilities (deaths on scene or at non-trauma facilities not applicable)

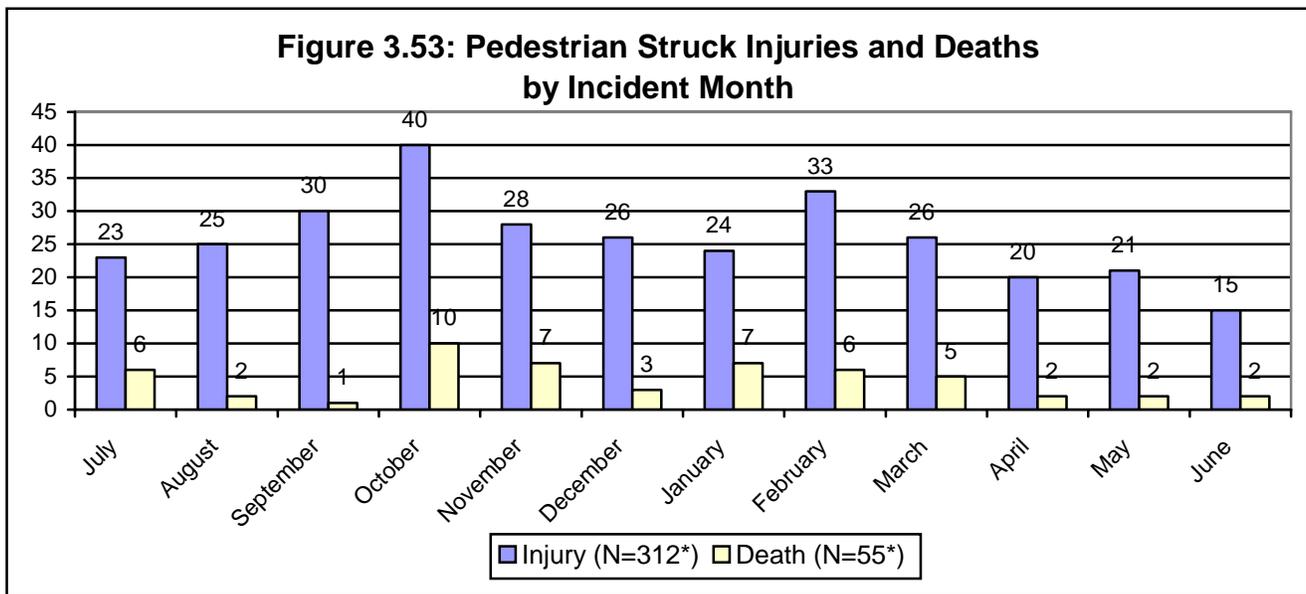
Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

Injuries and deaths occurred with highest frequency on Fridays.



*Totals include one injury and two deaths with unknown date of injury
 Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

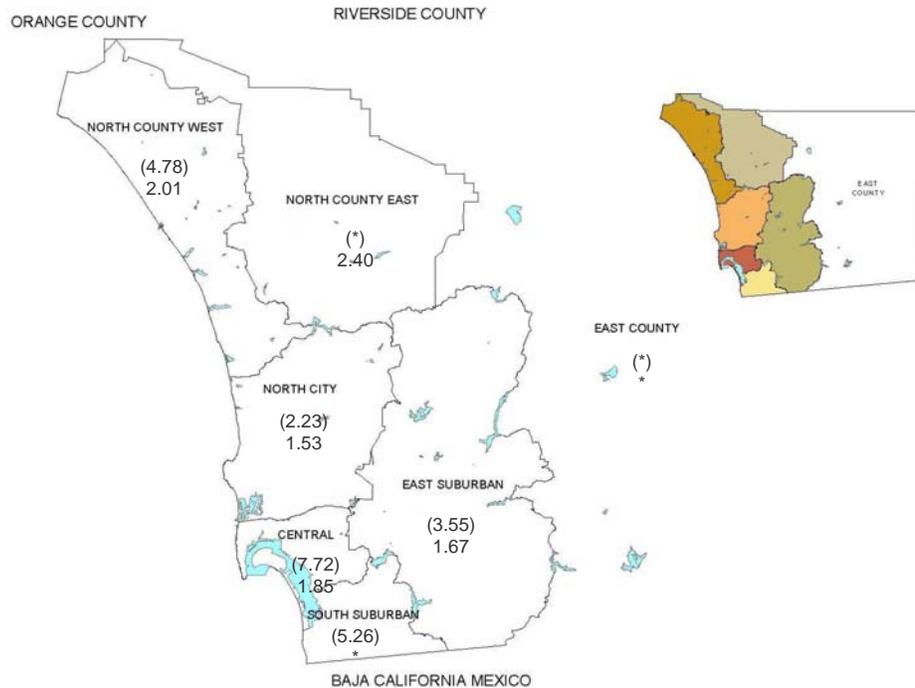
Both injuries and deaths due to pedestrian crashes occurred with the highest frequency during the month of October.



*Totals include one injury and two deaths with unknown date of injury
 Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

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 pedestrian injuries and for 96% of deaths from pedestrian crashes. The Central MSA had the highest rates of both pedestrian injury, while the North County East MSA had the highest pedestrian death rate. Population estimates for each of the MSAs can be found in Appendix B.

Figure 3.54: Pedestrian Struck 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 186 injuries and two deaths with an unknown incident zip code.

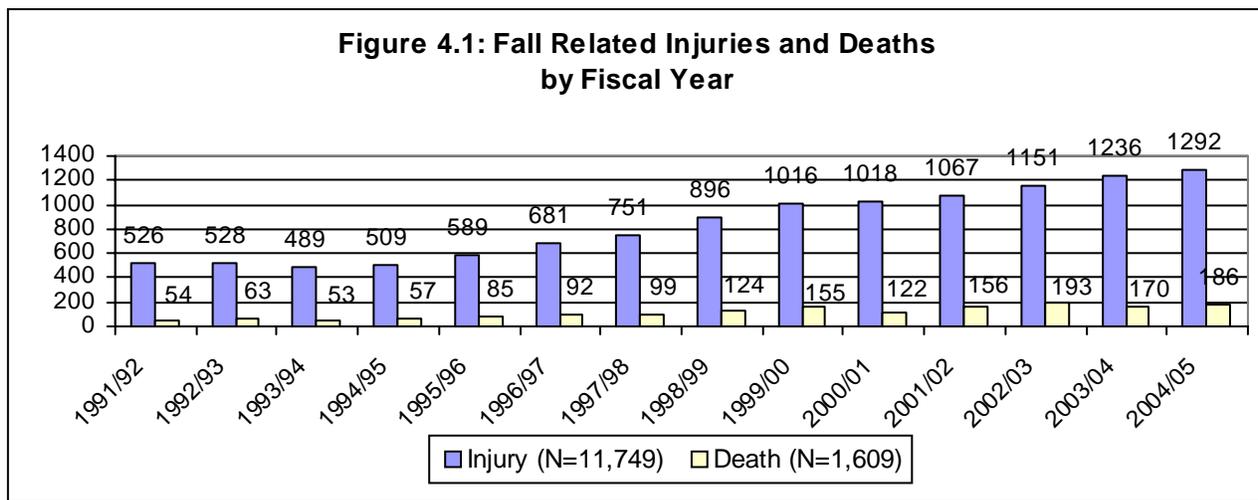
Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05; Population estimates, SANDAG.

Other Unintentional Injuries and Deaths

During FY 2004/05, 1,886 trauma patients were injured or killed following a fall or during a sports/recreation activity. Another 298 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.

Fall Injuries

There were 1,292 injuries and 186 deaths resulting from falls in FY 2004/05. Injuries and deaths from falls have steadily increased since FY 1993/94, by an average of 9.4% per year for injuries and 13.7% per year for deaths from falls.



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner’s Data, FY 1991/92 –2004/05

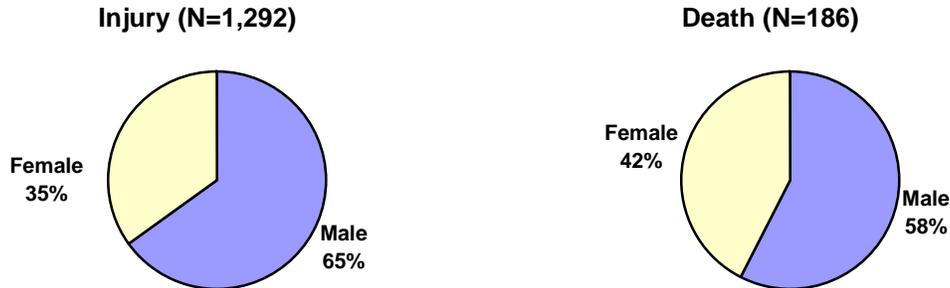
Table 4.1: Number and Rate (per 100,000) of Fall Related Injuries and Deaths by Fiscal Year

Fiscal Year	Injury		Death		Total	
	Incidence	Rate	Incidence	Rate	Incidence	Rate
1991/92	526	20.45	54	2.10	580	22.55
1992/93	528	20.35	63	2.43	591	22.78
1993/94	489	18.78	53	2.04	542	20.81
1994/95	509	19.48	57	2.18	566	21.66
1995/96	589	22.47	85	3.24	674	25.71
1996/97	681	25.67	92	3.47	773	29.13
1997/98	751	27.79	99	3.66	850	31.45
1998/99	896	32.57	124	4.51	1020	37.08
1999/00	1016	36.11	155	5.51	1171	41.62
2000/01	1018	35.55	122	4.26	1140	39.81
2001/02	1067	36.54	156	5.34	1223	41.88
2002/03	1151	38.73	193	6.49	1344	45.23
2003/04	1236	41.02	170	5.64	1406	46.66
2004/05	1292	42.51	186	6.12	1478	48.63

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner’s Data, FY 1991/92 –2004/05

Males accounted for 65% of injuries and 58% of deaths due to falls.

Figure 4.2: Fall Related Injuries and Deaths by Gender



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2004/05

People over the age of 84 were at greatest risk of severe injury resulting from a fall, followed by 75-84 year olds and 65-74 year olds (295, 175, and 81 per 100,000, respectively). Males had higher rates of both death and injury in all age groups.

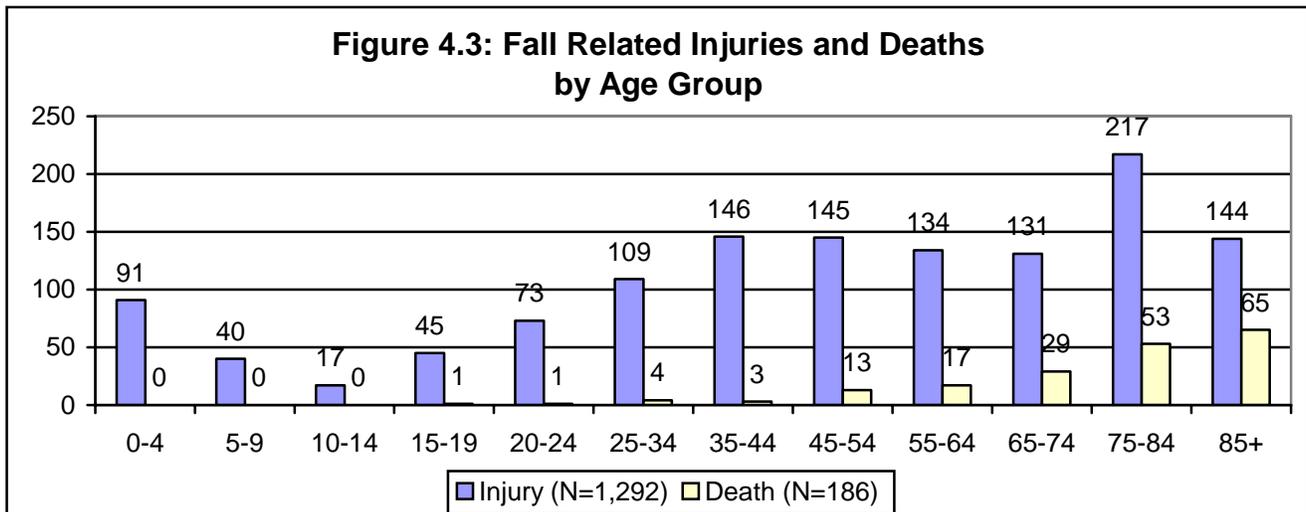
Table 4.2: Number and Rate (per 100,000) of Fall Related Injury and Death by Age Group and Gender

Age Group	Injury						Death						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	59	52.07	32	28.71	91	40.48	0	-	0	-	0	-	91	40.48
5-9	24	24.64	16	16.37	40	20.50	0	-	0	-	0	-	40	20.50
10-14	13	11.77	4	*	17	7.82	0	-	0	-	0	-	17	7.82
15-19	33	27.44	12	11.00	45	19.62	1	*	0	-	1	*	46	20.05
20-24	62	46.00	11	10.58	73	30.57	1	*	0	-	1	*	74	30.99
25-34	86	35.98	23	10.40	109	23.69	3	*	1	*	4	*	113	24.56
35-44	110	47.29	36	15.65	146	31.56	3	*	0	-	3	*	149	32.21
45-54	100	49.74	45	21.58	145	35.40	10	4.97	3	*	13	3.17	158	38.58
55-64	97	75.67	37	26.66	134	50.20	10	7.80	7	5.04	17	6.37	151	56.57
65-74	82	111.22	49	55.60	131	80.94	17	23.06	12	13.62	29	17.92	160	98.85
75-84	108	207.85	109	151.13	217	174.88	29	55.81	24	33.28	53	42.71	270	217.60
85+	65	363.88	79	255.42	144	295.13	33	184.74	32	103.46	65	133.22	209	428.35
Total	839	55.17	453	29.83	1,292	42.51	107	7.04	79	5.20	186	6.12	1,478	48.63

*Rates not calculated on fewer than five incidents.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2004/05; Population Estimates, SANDAG

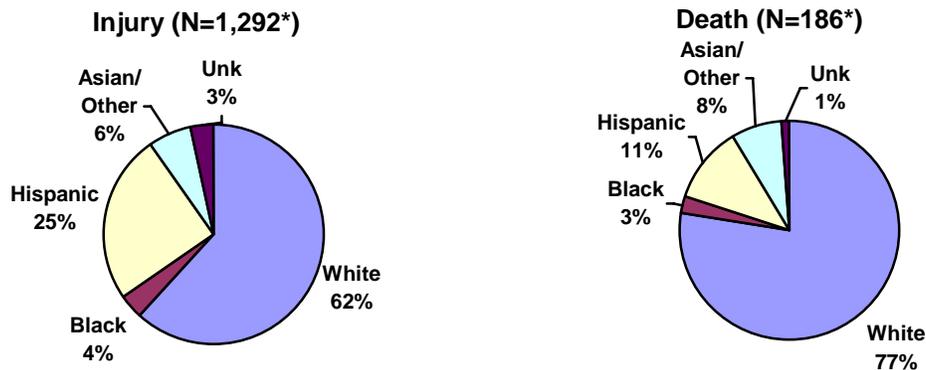
Seventy-nine percent of all fall deaths were 65 years or older, while 38% of nonfatal injuries were in this age group.



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

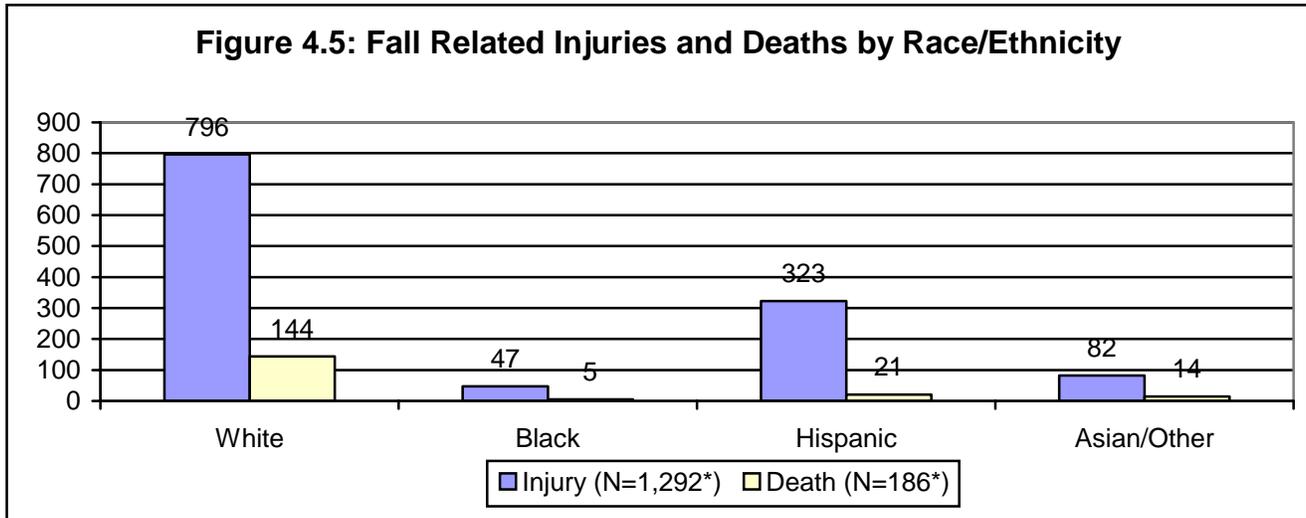
During FY 2004/05, the White population had the highest incidence and rate of injuries and deaths resulting from a fall. Sixty two percent of injuries and 77% of deaths occurred in the White population.

Figure 4.4: Fall Related Injuries and Deaths by Race/Ethnicity

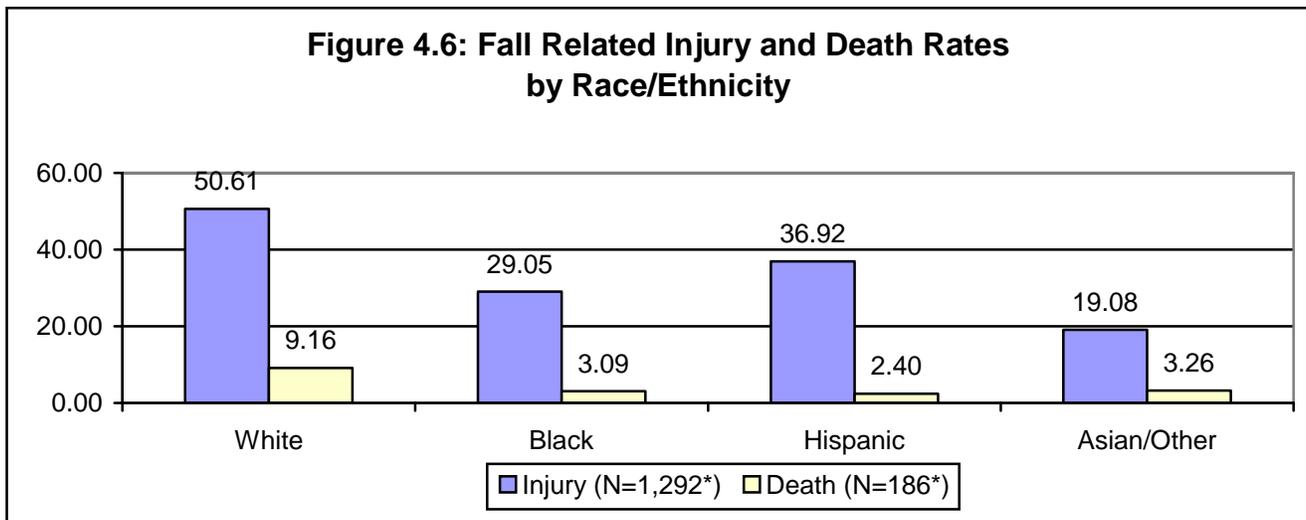


*Totals include 44 injuries and two deaths of unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2004/05

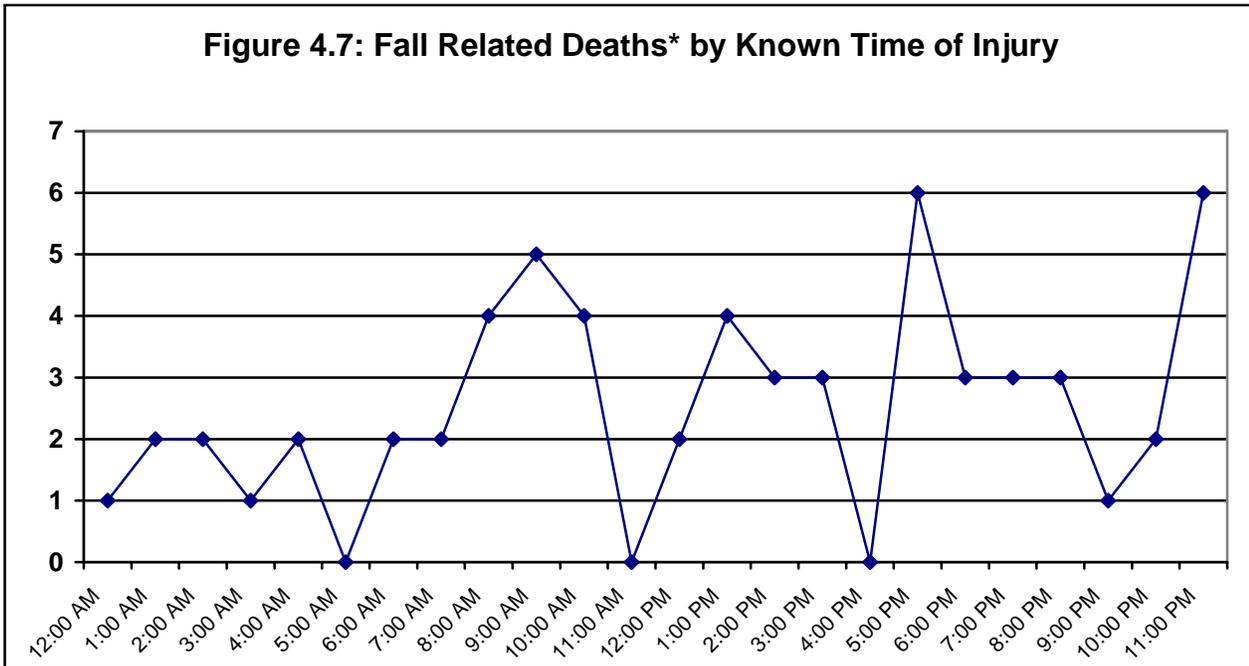


*Totals include 44 injuries and two deaths with unspecified race/ethnicity.
 Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services.
 San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05



*Totals include 44 injuries and two deaths with unspecified race/ethnicity.
 Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services.
 San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

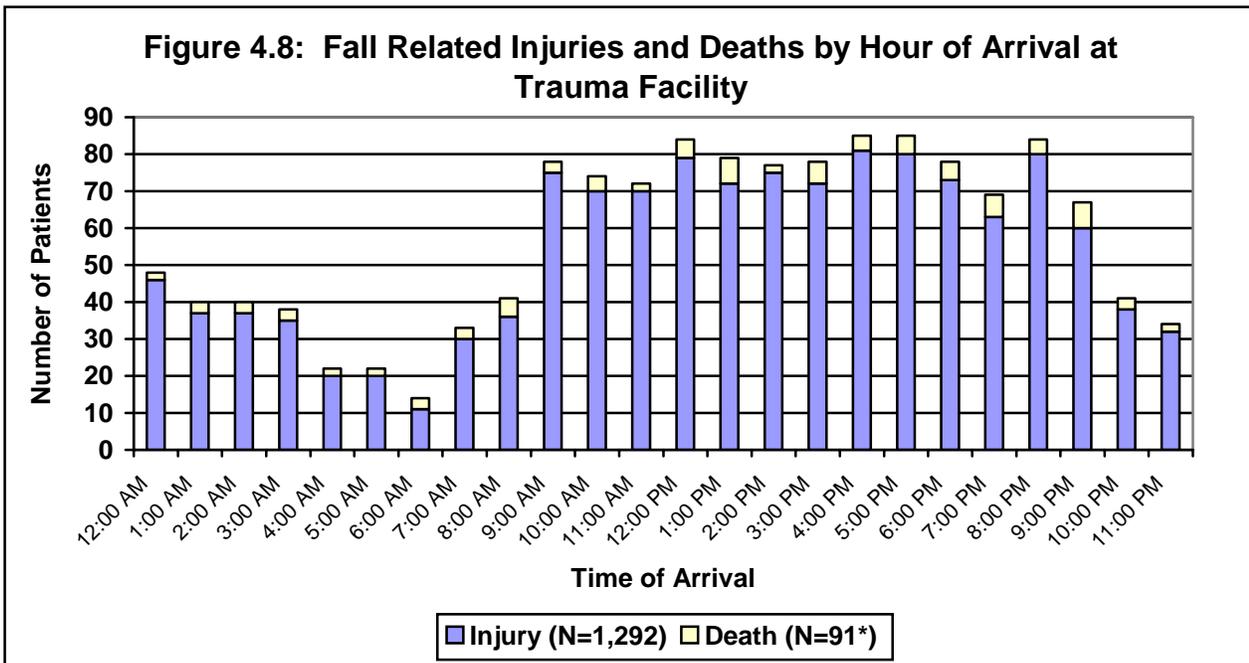
The peak hour of injury for fall deaths was between 5 and 6 in the evening, while trauma center admissions occurred with high frequency from 9 a.m. through 9 p.m.



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

*There were 125 deaths with an unidentified time of injury

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2004/05

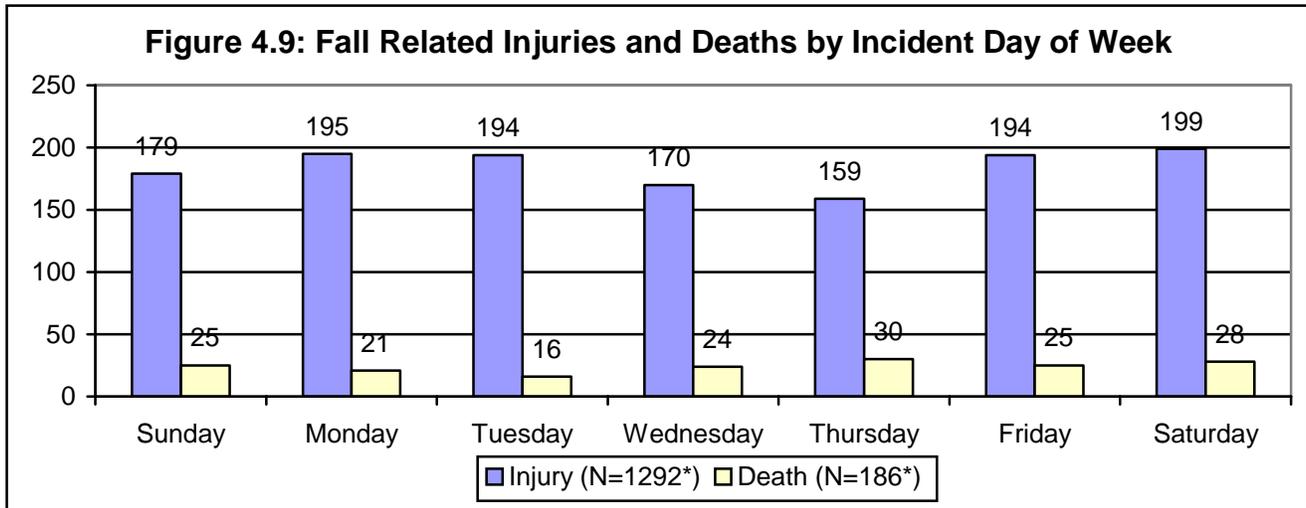


All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

*Note: limited to patients arriving at trauma facilities (deaths on scene or at non-trauma facilities not applicable)

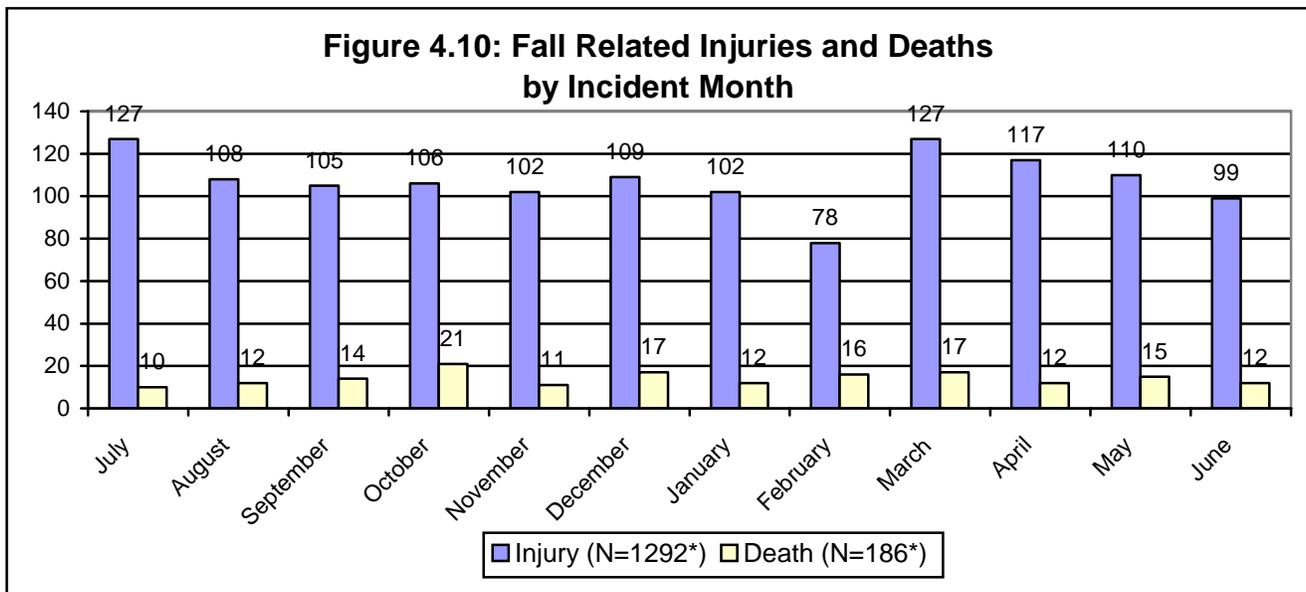
Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

Fall related injuries occurred with greatest frequency on Saturdays, while Thursdays had the highest number of deaths from falls. Examining data by month showed that March and July had the highest number of nonfatal injuries, while October had the greatest number of deaths.



*Totals include two injuries and 17 deaths with unspecified incident dates.

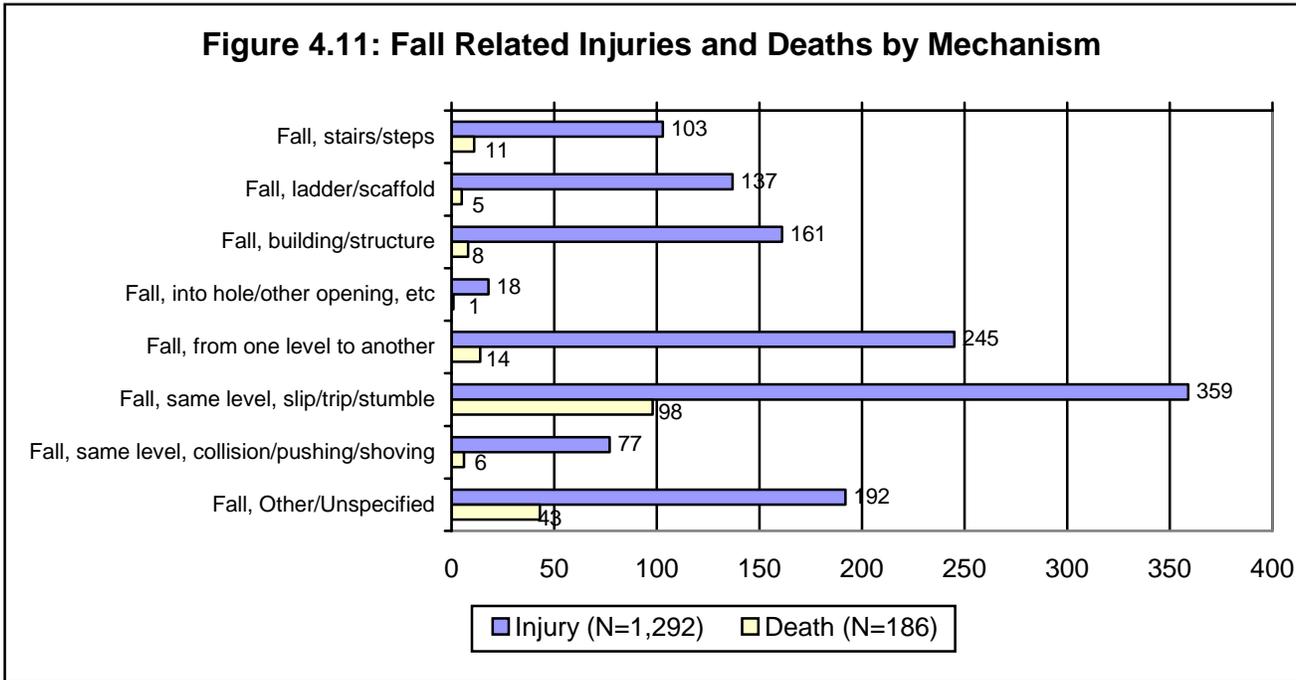
Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05



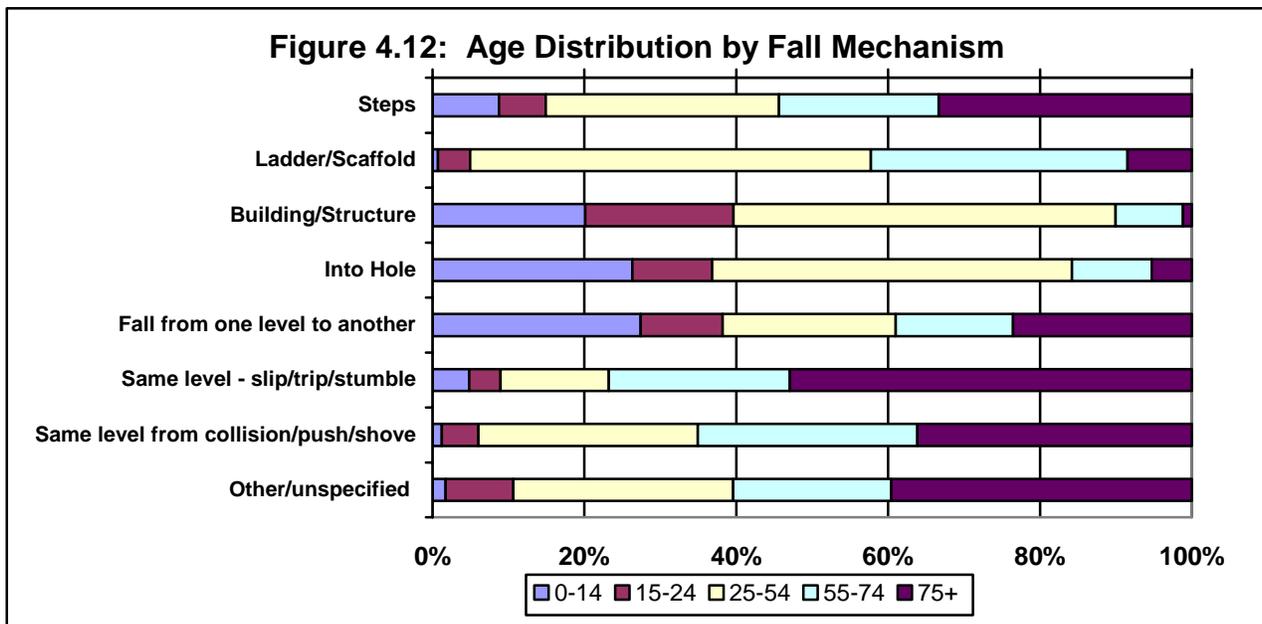
*Totals include two injuries and 17 deaths with unspecified incident dates.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

The ratio of deaths to severe injuries was much higher for falls on the same level (1 death per 3.7 nonfatal injuries) than for falls from one level to another (1 death per 17 injuries). This may at first seem paradoxical, but makes sense considering that those who are injured from same-level falls are generally far older and frailer than those who fell from a greater height. As figure 4.12 shows, more than half of the individuals who experienced a fall on the same level from slip/trip/stumble were 75 years or older, compared to only 1% of those who fell from buildings or other structures.



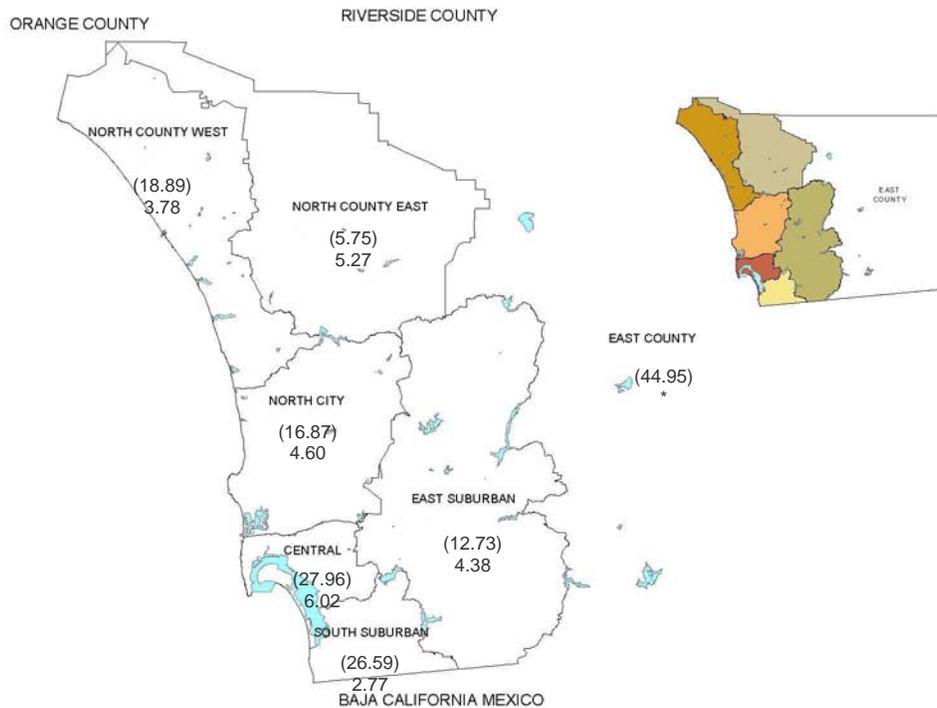
Source: County of San Diego Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05



Source: County of San Diego Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

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 44% of non-fatal fall injuries and for 76% of deaths from falls. The East County MSA had the highest rate of fall injury (44.95 per 100,000), and the Central MSA had the highest fall death rate (6.02 per 100,000). Population estimates for each of the MSAs can be found in Appendix B.

Figure 4.13: Fall Related 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.

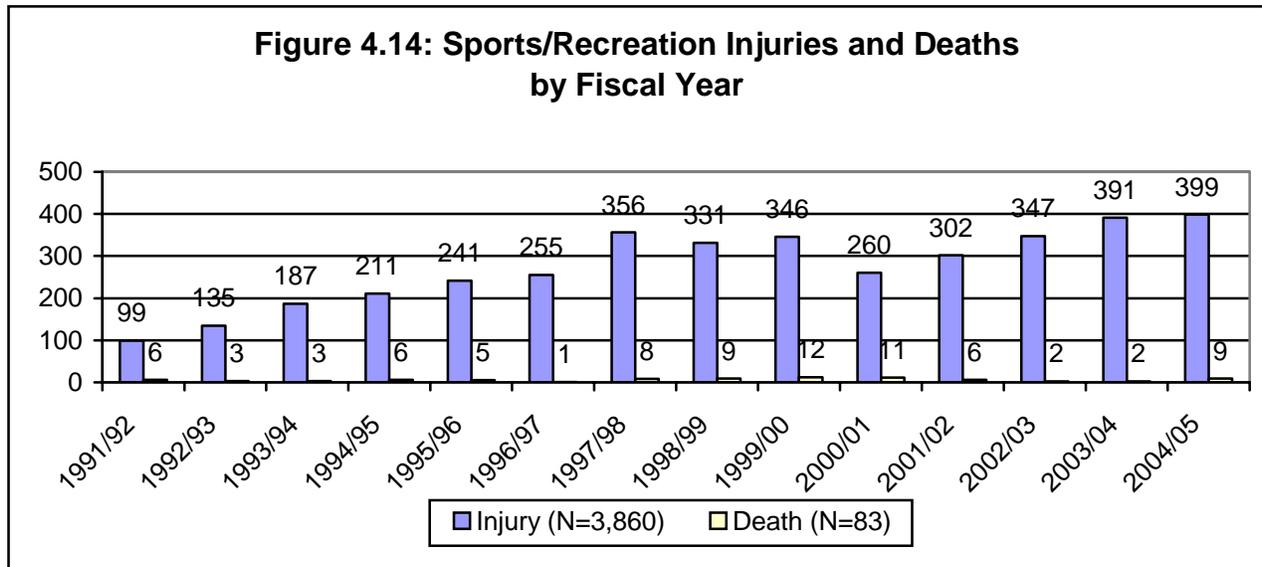
*Rates not calculated on fewer than five incidents.

Please note there were 725 injuries and 45 deaths with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 2004/05; Population estimates, SANDAG

Sports and Recreation Injuries

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 number of injury deaths or years of potential life lost (see figure 1.2). Between FY 1991/92 and FY 2004/05, there was one death to every 47 severe injuries due to sports/recreation activity.



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 – 2004/05

Table 4.3: Number and Rate (per 100,000) of Sports/Recreation Injuries and Deaths by Fiscal Year

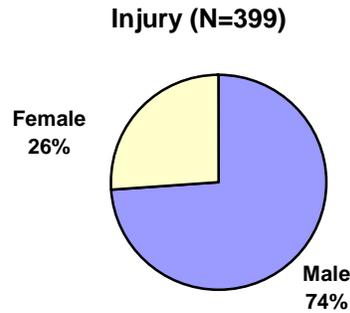
Fiscal Year	Injury		Death		Total	
	Incidence	Rate	Incidence	Rate	Incidence	Rate
1991/92	99	3.85	6	0.23	105	4.08
1992/93	135	5.20	3	*	138	5.32
1993/94	187	7.18	3	*	190	7.30
1994/95	211	8.07	6	0.23	217	8.30
1995/96	241	9.19	5	0.19	246	9.39
1996/97	255	9.61	1	*	256	9.65
1997/98	356	13.17	8	0.30	364	13.47
1998/99	331	12.03	9	0.33	340	12.36
1999/00	346	12.30	12	0.43	358	12.72
2000/01	260	9.08	11	0.38	271	9.46
2001/02	302	10.34	6	0.21	308	10.55
2002/03	347	11.68	2	*	349	11.74
2003/04	391	12.98	2	*	393	13.04
2004/05	399	13.13	9	0.30	408	13.42

*Rates not calculated on less than five incidents

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 – 2004/05

Seventy four percent of injuries and all of the nine deaths due to sports and recreation activity were to males. Victims were also relatively young, with more than half of injuries occurring to people less than 25 years of age.

Figure 4.15: Sports/Recreation Injuries by Gender



Due to low numbers deaths were not included.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2004/05

Males aged 10 to 14 years had the highest rate of severe injury due to sports/recreation activity (52.5 per 100,000).

Table 4.4: Number and Rate* (per 100,000) of Sports/Recreation Injury by Age Group and Gender

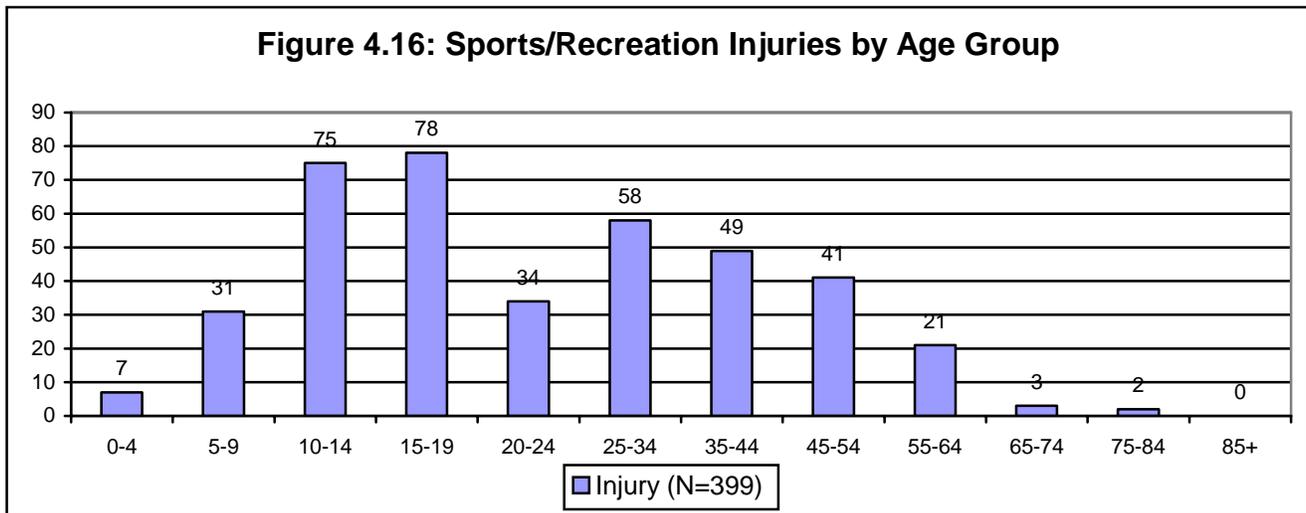
Age Group	Injury					
	Male		Female		Total	
	Number	Rate	Number	Rate	Number	Rate
0-4	5	4.41	2	*	7	3.11
5-9	19	19.51	12	12.28	31	15.89
10-14	58	52.49	17	15.92	75	34.52
15-19	59	49.06	19	17.41	78	34.00
20-24	28	20.77	6	5.77	34	14.24
25-34	48	20.08	10	4.52	58	12.61
35-44	34	14.62	15	6.52	49	10.59
45-54	25	12.43	16	7.67	41	10.01
55-64	14	10.92	7	5.04	21	7.87
65-74	3	*	0	*	3	*
75-84	2	*	0	*	2	*
85+	0	*	0	*	0	*
Total	295	19.40	104	6.85	399	13.13

*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, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2004/05; Population Estimates, SANDAG

Sports and recreation injuries occurred with the greatest frequency in the 10 to 14 and 15 to 19 year age groups.

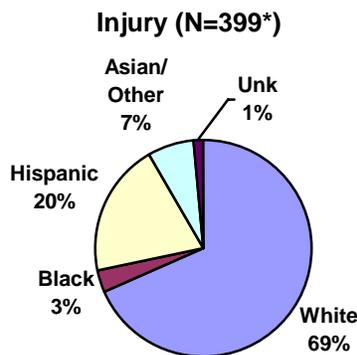


Deaths not shown due to low numbers

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

Whites suffered 69% of injuries and had the highest rate of injury due to sports and recreation activities (17 per 100,000).

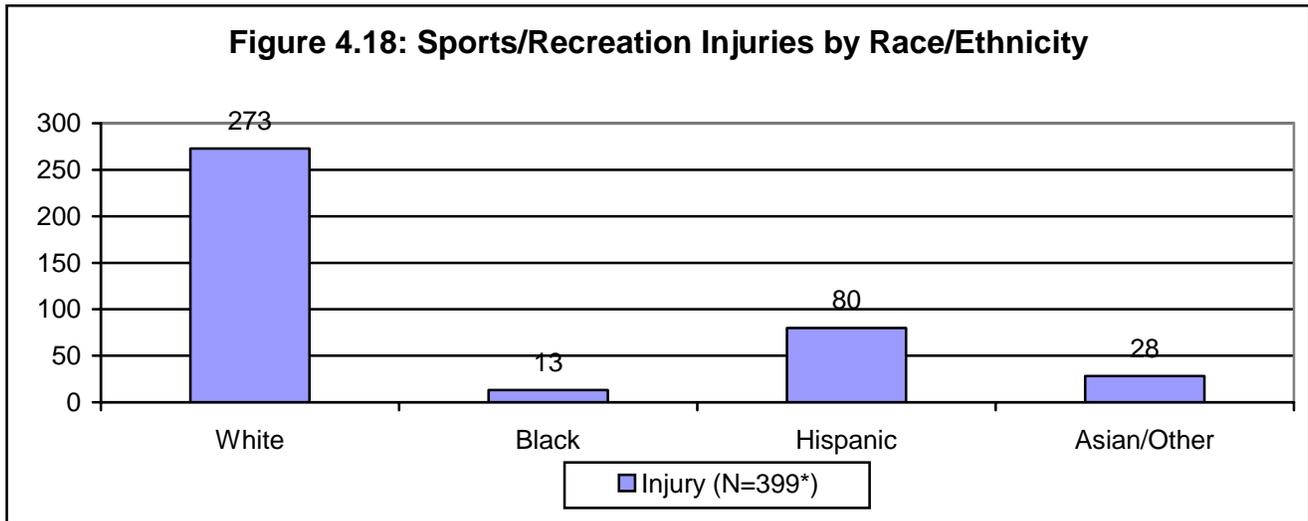
Figure 4.17: Sports/Recreation Injuries by Race/Ethnicity



*Total includes five injuries with unspecified race/ethnicity.

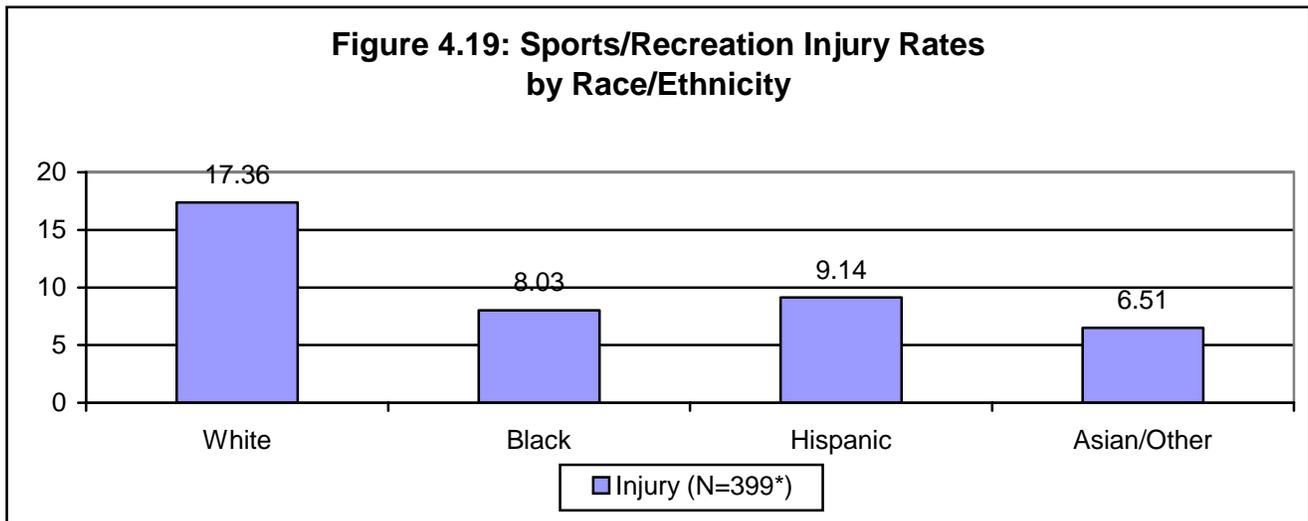
Deaths not shown due to low numbers

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2004/05



*Totals include five injuries with unspecified race/ethnicity.

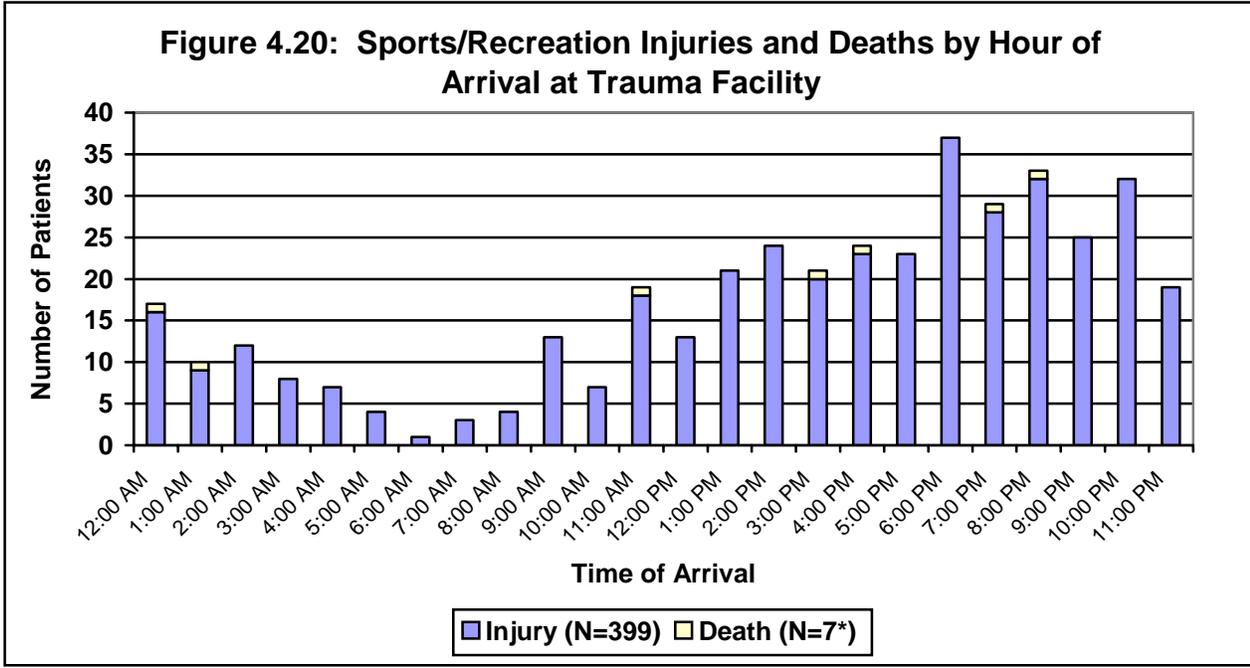
Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services.
San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05



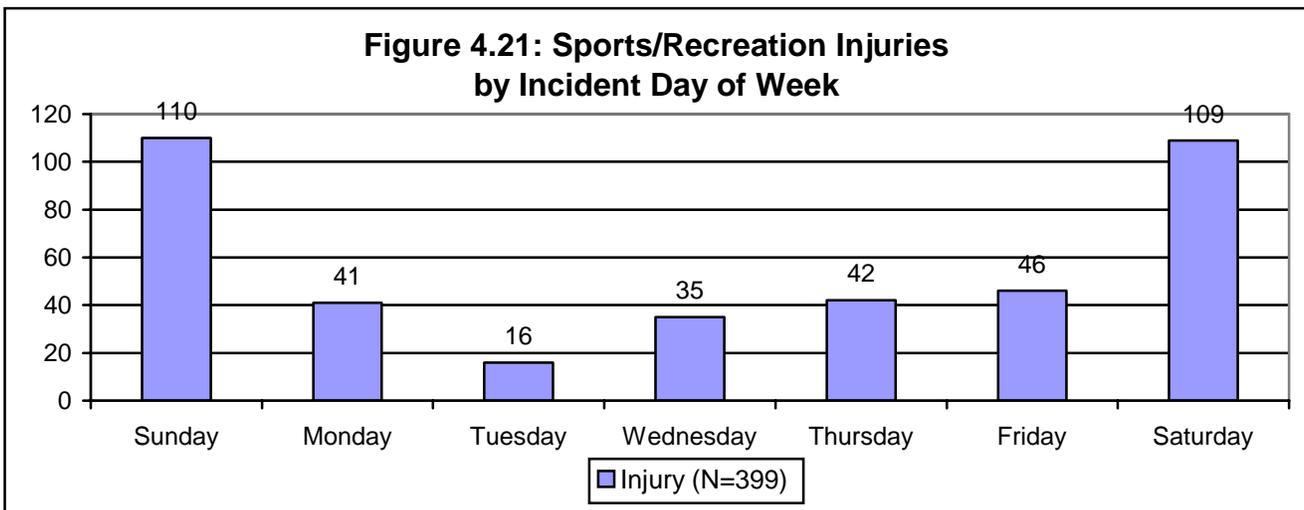
*Totals include five injuries with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services.
San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

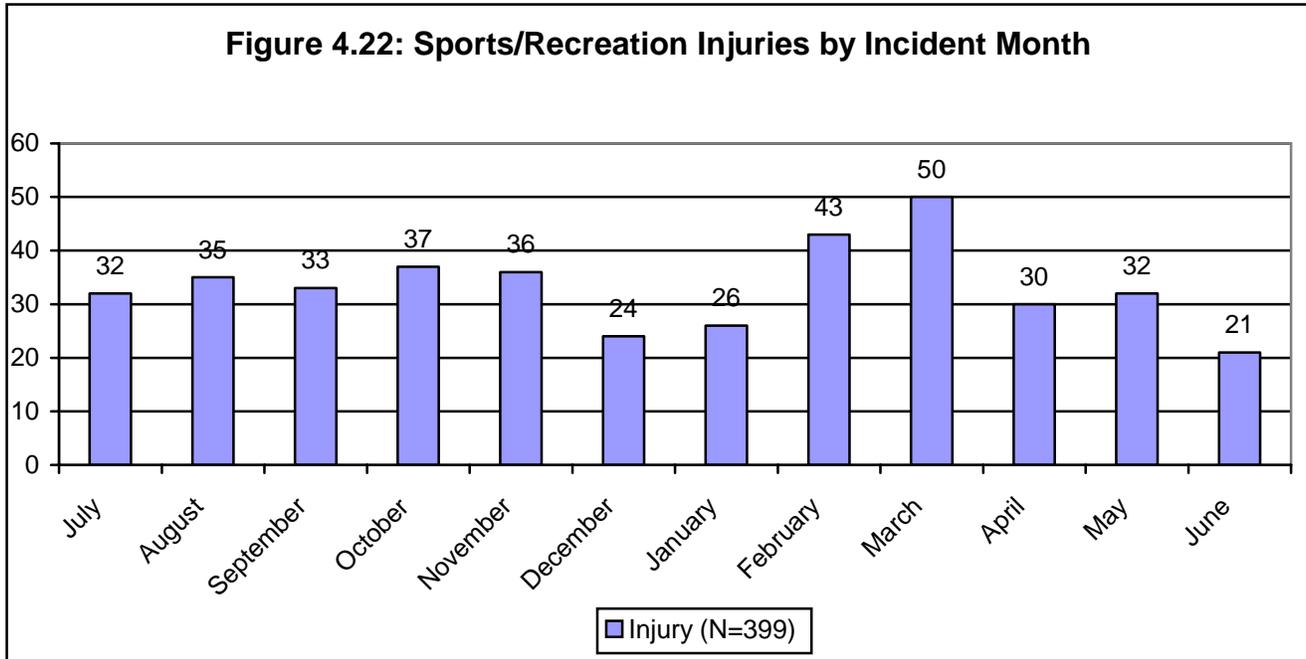
Trauma center admissions for sports and recreation-related injuries hit their peak between 6 and 8 p.m. and on weekends (55% on Saturdays and Sundays). By month, March had the highest number of injuries (50).



All times are in one hour increments, for example, 6:00 - 6:59 = 6:00
 Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

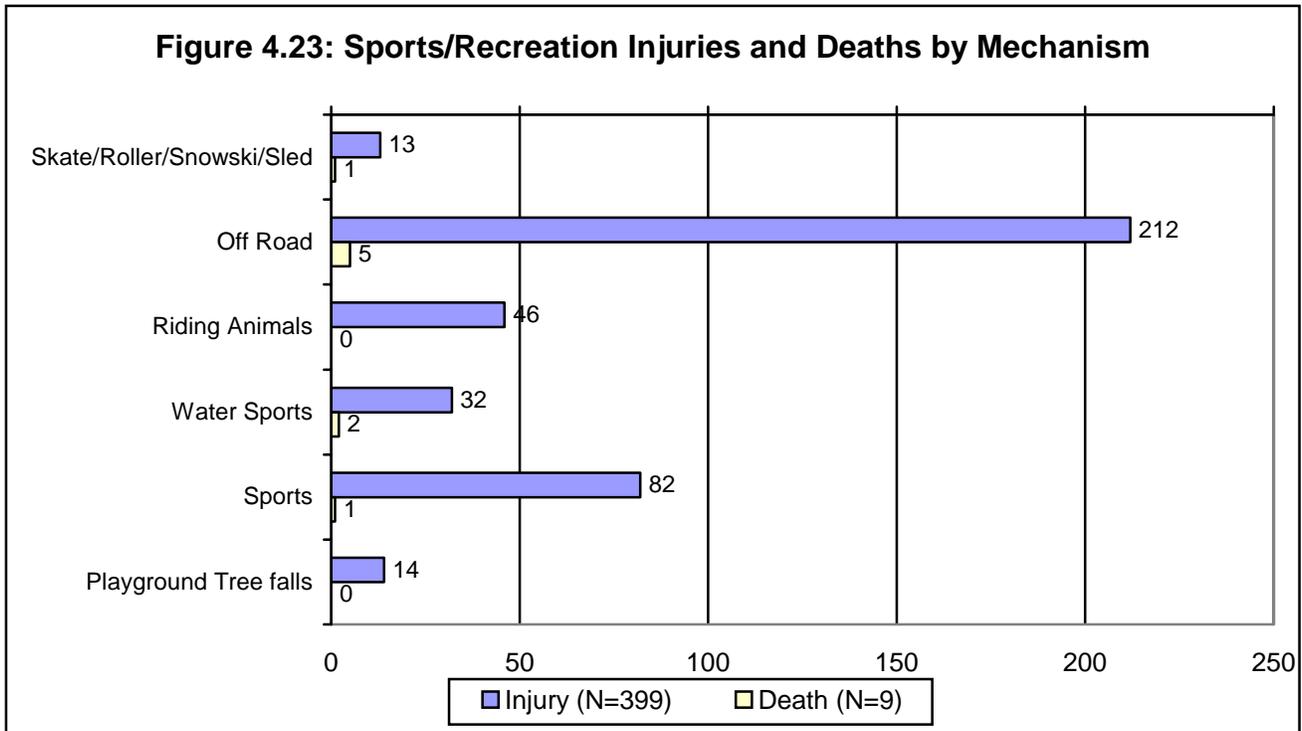


Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

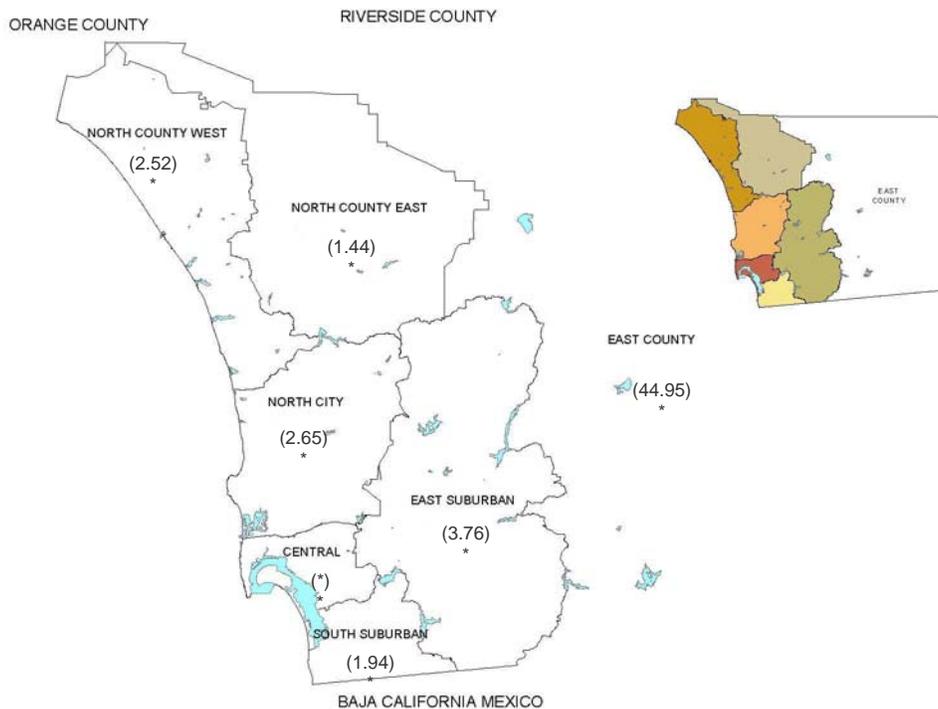
Off road vehicle crashes accounted for more than half of sports/recreation related injuries and deaths, and were followed by sports, riding animals, and water sports.



Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2004/05

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 18% of non-fatal sports and recreation injuries. There were too few deaths to calculate rates by MSA. Injury rates were highest in the East MSA (44.95 per 100,000). Population estimates for each of the MSAs can be found in Appendix B.

Figure 4.24: 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 326 injuries with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 2004/05; Population estimates, SANDAG

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

- **Assault:** Males aged 20 to 24 had the highest overall rates of nonfatal assault injury (132.8), with the highest rates within this group among the Black (324.3) and Hispanic (171.3) populations. Black males between 15 and 19 years of age had the highest overall assault injury rate (346.2).
- **Homicide:** The rate of homicide was highest among Black men age 15 to 19 (128.2).
- **Unarmed Assault:** Blacks aged 45-54 years (58.2) were at greatest risk of serious injury due to an unarmed assault.
- **Assault by Firearm:** Blacks aged 15-19 (117.1) were most likely to be assaulted with a gun.
- **Assault by Stabbing:** Hispanics 15-19 years of age (64.5) were at greatest risk of serious injury due to stabbing assault.
- **Homicide by Firearm:** Blacks aged 15-19 (62.0) had the highest firearm homicide rate.
- **Self-Inflicted Injuries:** White males 25-34 years of age (9.5) were most likely to inflict nonfatal injuries on themselves.
- **Suicide:** The traumatic suicide rate was highest for White males 85 years and older (40.5).

Table 5.1: Assaults by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	43,707	2	*	43,652	3	*	87,359	5	5.72
Black	6,275	1	*	5,933	1	*	12,208	2	*
Hispanic	45,931	1	*	45,354	4	*	91,285	5	5.48
Asian/Other	17,397	1	*	16,530	3	*	33,927	4	*
Subtotal	113,310	6	5.30	111,469	11	9.87	224,779	17	7.56
5-9									
White	39,213	1	*	41,032	0	-	80,245	1	*
Black	6,158	0	-	5,885	0	-	12,043	0	-
Hispanic	35,703	0	-	35,527	1	*	71,230	1	*
Asian/Other	16,330	0	-	15,275	0	-	31,605	0	-
Subtotal	97,404	1	*	97,719	1	*	195,123	2	*
10-14									
White	43,295	0	-	42,926	0	-	86,221	0	-
Black	7,093	1	*	6,825	1	*	13,918	2	*
Hispanic	44,001	10	22.73	41,924	0	-	85,925	10	11.64
Asian/Other	16,098	1	*	15,096	0	-	31,194	1	*
Subtotal	110,487	12	10.86	106,771	2	*	217,258	14	6.44
15-19									
White	51,840	28	54.01	46,699	3	*	98,539	31	31.46
Black	7,798	27	346.24	6,721	2	*	14,519	29	199.74
Hispanic	43,058	85	197.41	39,064	3	*	82,122	88	107.16
Asian/Other	17,570	7	39.84	16,636	2	*	34,206	9	26.31
Subtotal	120,266	150	124.72	109,120	10	9.16	229,386	160	69.75
20-24									
White	59,617	55	92.26	42,465	5	11.77	102,082	60	58.78
Black	9,250	30	324.32	6,074	0	-	15,324	30	195.77
Hispanic	47,274	81	171.34	38,578	3	*	85,852	84	97.84
Asian/Other	18,655	12	64.33	16,893	0	-	35,548	12	33.76
Subtotal	134,796	179	132.79	104,010	8	7.69	238,806	187	78.31
25-34									
White	105,155	45	42.79	92,024	10	10.87	197,179	55	27.89
Black	14,042	27	192.28	10,864	5	46.02	24,906	32	128.48
Hispanic	85,512	77	90.05	81,283	5	6.15	166,795	82	49.16
Asian/Other	34,345	16	46.59	36,883	1	*	71,228	17	23.87
Subtotal	239,054	167	69.86	221,054	21	9.50	460,108	188	40.86
35-44									
White	124,839	55	44.06	116,641	8	6.86	241,480	63	26.09
Black	14,724	23	156.21	12,500	2	*	27,224	25	91.83
Hispanic	62,018	61	98.36	65,919	0	-	127,937	61	47.68
Asian/Other	31,022	3	*	34,915	0	-	65,937	3	*
Subtotal	232,603	146	62.77	229,975	10	4.35	462,578	156	33.72
45-54									
White	127,298	39	30.64	125,851	6	4.77	253,149	45	17.78
Black	10,771	15	139.26	9,849	4	*	20,620	19	92.14
Hispanic	37,513	19	50.65	42,875	4	*	80,388	23	28.61
Asian/Other	25,465	4	*	29,937	1	*	55,402	5	9.02
Subtotal	201,047	79	39.29	208,512	15	7.19	409,559	94	22.95

* Rate not calculated on less than five incidents.

** Totals include 15 patients with unspecified age, race/ethnicity, and/or gender.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2004/05; Population Estimates, SANDAG

Table 5.1: Assaults by Age Group, Race/Ethnicity and Gender (Continued)

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	90,197	9	9.98	91,880	2	*	182,077	11	6.04
Black	5,094	4	*	5,517	0	-	10,611	4	*
Hispanic	18,139	4	*	22,797	2	*	40,936	6	14.66
Asian/Other	14,751	0	-	18,573	0	-	33,324	0	-
Subtotal	128,181	18	14.04	138,767	4	*	266,948	22	8.24
65-74									
White	51,732	4	*	57,962	2	*	109,694	6	5.47
Black	2,951	1	*	3,308	0	-	6,259	1	*
Hispanic	10,133	2	*	13,992	0	-	24,125	2	*
Asian/Other	8,909	1	*	12,871	1	*	21,780	2	*
Subtotal	73,725	8	10.85	88,133	3	*	161,858	11	6.80
75-84									
White	39,712	2	*	54,627	0	-	94,339	2	*
Black	1,323	0	-	1,836	0	-	3,159	0	-
Hispanic	5,751	1	*	8,381	0	-	14,132	1	*
Asian/Other	5,174	0	-	7,278	0	-	12,452	0	-
Subtotal	51,960	3	*	72,122	0	-	124,082	3	*
85+									
White	14,800	0	-	25,514	1	*	40,314	1	*
Black	325	0	-	688	0	-	1,013	0	-
Hispanic	1,496	2	*	2,705	0	-	4,201	2	*
Asian/Other	1,242	0	-	2,022	0	-	3,264	0	-
Subtotal	17,863	2	*	30,929	1	*	48,792	3	*
Total**	1,520,696	771	50.70	1,518,581	86	5.66	3,039,277	857	28.20

* Rate not calculated on less than five incidents.

** Totals include 15 patients with unspecified age, race/ethnicity, and/or gender.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2004/05; Population Estimates, SANDAG

Table 5.2: Homicides by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	43,707	0	-	43,652	0	-	87,359	0	-
Black	6,275	1	*	5,933	0	-	12,208	1	*
Hispanic	45,931	2	*	45,354	1	*	91,285	3	*
Asian/Other	17,397	0	-	16,530	1	*	33,927	1	*
Subtotal	113,310	3	*	111,469	2	*	224,779	5	2.22
5-9									
White	39,213	0	-	41,032	0	-	80,245	0	-
Black	6,158	0	-	5,885	0	-	12,043	0	-
Hispanic	35,703	0	-	35,527	0	-	71,230	0	-
Asian/Other	16,330	0	-	15,275	0	-	31,605	0	-
Subtotal	97,404	0	-	97,719	0	-	195,123	0	-
10-14									
White	43,295	0	-	42,926	0	-	86,221	0	-
Black	7,093	0	-	6,825	0	-	13,918	0	-
Hispanic	44,001	0	-	41,924	0	-	85,925	0	-
Asian/Other	16,098	0	-	15,096	0	-	31,194	0	-
Subtotal	110,487	0	-	106,771	0	-	217,258	0	-
15-19									
White	51,840	2	*	46,699	0	-	98,539	2	*
Black	7,798	10	128.24	6,721	0	-	14,519	10	68.88
Hispanic	43,058	15	34.84	39,064	0	-	82,122	15	18.27
Asian/Other	17,570	1	*	16,636	0	-	34,206	1	*
Subtotal	120,266	28	23.28	109,120	0	-	229,386	28	12.21
20-24									
White	59,617	1	*	42,465	0	-	102,082	1	*
Black	9,250	5	54.05	6,074	0	-	15,324	5	32.63
Hispanic	47,274	13	27.50	38,578	1	*	85,852	14	16.31
Asian/Other	18,655	0	-	16,893	0	-	35,548	0	-
Subtotal	134,796	19	14.10	104,010	1	*	238,806	20	8.37
25-34									
White	105,155	1	*	92,024	2	*	197,179	3	*
Black	14,042	2	*	10,864	0	-	24,906	2	*
Hispanic	85,512	4	*	81,283	0	-	166,795	4	*
Asian/Other	34,345	1	*	36,883	0	-	71,228	1	*
Subtotal	239,054	8	3.35	221,054	2	*	460,108	10	2.17
35-44									
White	124,839	4	*	116,641	0	-	241,480	4	*
Black	14,724	2	*	12,500	0	-	27,224	2	*
Hispanic	62,018	7	11.29	65,919	0	-	127,937	7	5.47
Asian/Other	31,022	1	*	34,915	0	-	65,937	1	*
Subtotal	232,603	14	6.02	229,975	0	-	462,578	14	3.03
45-54									
White	127,298	6	4.71	125,851	1	*	253,149	7	2.77
Black	10,771	1	*	9,849	1	*	20,620	2	*
Hispanic	37,513	0	-	42,875	0	-	80,388	0	-
Asian/Other	25,465	0	-	29,937	0	-	55,402	0	-
Subtotal	201,047	7	3.48	208,512	2	*	409,559	9	2.20

* Rate not calculated on less than five incidents.

** Totals include one patient with unspecified age, race/ethnicity, and/or gender.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2004/05; Population Estimates, SANDAG

Table 5.2: Homicides by Age Group, Race/Ethnicity and Gender (Continued)

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	90,197	0	-	91,880	0	-	182,077	0	-
Black	5,094	2	*	5,517	0	-	10,611	2	*
Hispanic	18,139	1	*	22,797	0	-	40,936	1	*
Asian/Other	14,751	0	-	18,573	0	-	33,324	0	-
Subtotal	128,181	3	*	138,767	1	*	266,948	4	*
65-74									
White	51,732	1	*	57,962	0	-	109,694	1	*
Black	2,951	0	-	3,308	0	-	6,259	0	-
Hispanic	10,133	0	-	13,992	0	-	24,125	0	-
Asian/Other	8,909	0	-	12,871	1	*	21,780	1	*
Subtotal	73,725	1	*	88,133	1	*	161,858	2	*
75-84									
White	39,712	0	-	54,627	0	-	94,339	0	-
Black	1,323	0	-	1,836	0	-	3,159	0	-
Hispanic	5,751	0	-	8,381	0	-	14,132	0	-
Asian/Other	5,174	0	-	7,278	1	*	12,452	1	*
Subtotal	51,960	0	-	72,122	1	*	124,082	1	*
85+									
White	14,800	0	-	25,514	0	-	40,314	0	-
Black	325	0	-	688	0	-	1,013	0	-
Hispanic	1,496	0	-	2,705	0	-	4,201	0	-
Asian/Other	1,242	0	-	2,022	1	*	3,264	1	*
Subtotal	17,863	0	-	30,929	1	*	48,792	1	*
Total**	1,520,696	83	5.46	1,518,581	11	0.72	3,039,277	94	3.09

* Rate not calculated on less than five incidents.

** Totals include one patient with unspecified age, race/ethnicity, and/or gender.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2004/05; Population Estimates, SANDAG

Table 5.3: Assaults by Age Group, Race/Ethnicity and Mechanism

	Population	Unarmed		Gunshot		Stabbing		Other Assault	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate
Under 5									
White	87,359	5	5.72	0	-	0	-	0	-
Black	12,208	2	*	0	-	0	-	0	-
Hispanic	91,285	4	*	1	*	0	-	0	-
Asian/Other	33,927	4	*	0	-	0	-	0	-
Subtotal	224,779	16	7.12	1	*	0	-	0	-
5-9									
White	80,245	0	-	0	-	1	*	0	-
Black	12,043	0	-	0	-	0	-	0	-
Hispanic	71,230	0	-	0	-	0	-	1	*
Asian/Other	31,605	0	-	0	-	0	-	0	-
Subtotal	195,123	0	-	0	-	1	*	1	*
10-14									
White	86,221	0	-	0	-	0	-	0	-
Black	13,918	0	-	2	*	0	-	0	-
Hispanic	85,925	5	5.82	3	*	2	*	0	-
Asian/Other	31,194	1	*	0	-	0	-	0	-
Subtotal	217,258	6	2.76	5	2.30	2	*	1	*
15-19									
White	98,539	12	12.18	3	*	10	10.15	6	6.09
Black	14,519	4	*	17	117.09	6	41.33	2	*
Hispanic	82,122	9	10.96	19	23.14	53	64.54	7	8.52
Asian/Other	34,206	0	-	4	*	3	*	2	*
Subtotal	229,386	25	10.90	44	19.18	73	31.82	18	7.85
20-24									
White	102,082	27	26.45	7	6.86	20	19.59	6	5.88
Black	15,324	8	52.21	15	97.89	6	39.15	1	*
Hispanic	85,852	16	18.64	14	16.31	42	48.92	12	13.98
Asian/Other	35,548	1	*	6	16.88	4	*	1	*
Subtotal	238,806	52	21.77	42	17.59	72	30.15	21	8.79
25-34									
White	197,179	25	12.68	4	*	19	9.64	7	3.55
Black	24,906	5	20.08	16	64.24	9	36.14	2	*
Hispanic	166,795	17	10.19	15	8.99	40	23.98	10	6.00
Asian/Other	71,228	5	7.02	6	8.42	2	*	4	*
Subtotal	460,108	53	11.52	41	8.91	71	15.43	23	5.00
35-44									
White	241,480	29	12.01	4	*	18	7.45	12	4.97
Black	27,224	6	22.04	3	*	10	36.73	6	22.04
Hispanic	127,937	21	16.41	4	*	25	19.54	11	8.60
Asian/Other	65,937	0	-	1	*	1	*	1	*
Subtotal	462,578	58	12.54	12	2.59	56	12.11	30	6.49
45-54									
White	253,149	20	7.90	1	*	11	4.35	13	5.14
Black	20,620	12	58.20	2	*	4	*	1	*
Hispanic	80,388	10	12.44	1	*	6	7.46	6	7.46
Asian/Other	55,402	2	*	0	-	1	*	2	*
Subtotal	409,559	45	10.99	5	1.22	22	5.37	22	5.37

* Rate not calculated on less than five incidents.

** Totals include 15 victims with unspecified age or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2004/05; Population Estimates, SANDAG.

Table 5.3: Assaults by Age Group, Race/Ethnicity and Mechanism (Continued)

	Population	Unarmed		Gunshot		Stabbing		Other Assault	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate
55-64									
White	182,077	4	*	3	*	1	*	3	*
Black	10,611	3	*	0	-	1	*	0	-
Hispanic	40,936	1	*	1	*	3	*	1	*
Asian/Other	33,324	0	-	0	-	0	-	0	-
Subtotal	266,948	9	3.37	4	*	5	1.87	4	*
65-74									
White	109,694	3	*	1	*	2	*	0	-
Black	6,259	0	-	0	-	0	-	1	*
Hispanic	24,125	1	*	0	-	1	*	0	-
Asian/Other	21,780	1	*	0	-	0	-	1	*
Subtotal	161,858	5	3.09	1	*	3	*	2	*
75-84									
White	94,339	1	*	0	-	1	*	-	-
Black	3,159	0	-	0	-	0	-	0	-
Hispanic	14,132	1	*	0	-	0	-	0	-
Asian/Other	12,452	0	-	0	-	0	-	0	-
Subtotal	124,082	2	*	0	-	1	*	-	-
85+									
White	40,314	0	-	0	-	1	*	0	-
Black	1,013	0	-	0	-	0	-	0	-
Hispanic	4,201	0	-	0	-	1	*	1	*
Asian/Other	3,264	0	-	0	-	0	-	0	-
Subtotal	48,792	0	-	0	-	2	*	1	*
Total**	3,039,277	271	8.92	155	5.10	308	10.13	123	4.05

* Rate not calculated on less than five incidents.

** Totals include 15 victims with unspecified age or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2004/05; Population Estimates, SANDAG.

Table 5.4: Homicides by Age Group, Race/Ethnicity and Mechanism

	Population	Unarmed		Gunshot		Stabbing		Other Assault	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate
Under 5									
White	87,359	0	-	0	-	0	-	0	-
Black	12,208	1	*	0	-	0	-	0	-
Hispanic	91,285	3	*	0	-	0	-	0	-
Asian/Other	33,927	1	*	0	-	0	-	0	-
Subtotal	224,779	5	2.22	0	-	0	-	0	-
5-9									
White	80,245	0	-	0	-	0	-	0	-
Black	12,043	0	-	0	-	0	-	0	-
Hispanic	71,230	0	-	0	-	0	-	0	-
Asian/Other	31,605	0	-	0	-	0	-	0	-
Subtotal	195,123	0	-	0	-	0	-	0	-
10-14									
White	86,221	0	-	0	-	0	-	0	-
Black	13,918	0	-	0	-	0	-	0	-
Hispanic	85,925	0	-	0	-	0	-	0	-
Asian/Other	31,194	0	-	0	-	0	-	0	-
Subtotal	217,258	0	-	0	-	0	-	0	-
15-19									
White	98,539	1	*	1	*	0	-	0	-
Black	14,519	1	*	9	61.99	0	-	0	-
Hispanic	82,122	1	*	9	10.96	5	6.09	0	-
Asian/Other	34,206	0	-	1	*	0	-	0	-
Subtotal	229,386	3	*	20	8.72	5	2.18	0	-
20-24									
White	102,082	0	-	1	*	0	-	0	-
Black	15,324	0	-	5	32.63	0	-	0	-
Hispanic	85,852	0	-	10	11.65	1	*	3	*
Asian/Other	35,548	0	-	0	-	0	-	0	-
Subtotal	238,806	0	-	16	6.70	1	*	3	*
25-34									
White	197,179	0	-	3	*	0	-	0	-
Black	24,906	0	-	2	*	0	-	0	-
Hispanic	166,795	0	-	4	*	0	-	0	-
Asian/Other	71,228	0	-	1	*	0	-	0	-
Subtotal	460,108	0	-	10	2.17	0	-	0	-
35-44									
White	241,480	0	-	1	*	1	*	2	*
Black	27,224	0	-	2	*	0	-	0	-
Hispanic	127,937	0	-	6	4.69	0	-	1	*
Asian/Other	65,937	1	*	0	-	0	-	0	-
Subtotal	462,578	1	*	9	1.95	1	*	3	*
45-54									
White	253,149	1	*	2	*	2	*	2	*
Black	20,620	0	-	1	*	1	*	0	-
Hispanic	80,388	0	-	0	-	0	-	0	-
Asian/Other	55,402	0	-	0	-	0	-	0	-
Subtotal	409,559	1	*	3	*	3	*	2	*

* Rate not calculated on less than five incidents.

** Totals include one victim with unspecified age or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2004/05; Population Estimates, SANDAG.

Table 5.4: Homicides by Age Group, Race/Ethnicity and Mechanism (Continued)

	Population	Unarmed		Gunshot		Stabbing		Other Assault	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate
55-64									
White	182,077	0	-	0	-	0	-	0	-
Black	10,611	1	*	1	*	0	-	0	-
Hispanic	40,936	1	*	0	-	0	-	0	-
Asian/Other	33,324	0	-	0	-	0	-	0	-
Subtotal	266,948	2	*	2	*	0	-	0	-
65-74									
White	109,694	0	-	0	-	0	-	1	*
Black	6,259	0	-	0	-	0	-	0	-
Hispanic	24,125	0	-	0	-	0	-	0	-
Asian/Other	21,780	0	-	0	-	0	-	1	*
Subtotal	161,858	0	-	0	-	0	-	2	*
75-84									
White	94,339	0	-	0	-	0	-	0	-
Black	3,159	0	-	0	-	0	-	0	-
Hispanic	14,132	0	-	0	-	0	-	0	-
Asian/Other	12,452	1	*	0	-	0	-	0	-
Subtotal	124,082	1	*	0	-	0	-	0	-
85+									
White	40,314	0	-	0	-	0	-	0	-
Black	1,013	0	-	0	-	0	-	0	-
Hispanic	4,201	0	-	0	-	0	-	0	-
Asian/Other	3,264	1	*	0	-	0	-	0	-
Subtotal	48,792	1	*	0	-	0	-	0	-
Total**	3,039,277	14	0.46	60	1.97	10	0.33	10	0.33

* Rate not calculated on less than five incidents.

** Totals include one victim with unspecified age or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2004/05; Population Estimates, SANDAG.

Table 5.5: Self Inflicted Injuries by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	43,707	0	-	43,652	0	-	87,359	0	-
Black	6,275	0	-	5,933	0	-	12,208	0	-
Hispanic	45,931	0	-	45,354	0	-	91,285	0	-
Asian/Other	17,397	0	-	16,530	0	-	33,927	0	-
Subtotal	113,310	-	-	111,469	0	-	224,779	0	-
5-9									
White	39,213	0	-	41,032	0	-	80,245	0	-
Black	6,158	0	-	5,885	0	-	12,043	0	-
Hispanic	35,703	0	-	35,527	0	-	71,230	0	-
Asian/Other	16,330	0	-	15,275	0	-	31,605	0	-
Subtotal	97,404	-	-	97,719	0	-	195,123	0	-
10-14									
White	43,295	0	-	42,926	0	-	86,221	0	-
Black	7,093	1	*	6,825	0	-	13,918	1	*
Hispanic	44,001	0	-	41,924	0	-	85,925	0	-
Asian/Other	16,098	1	*	15,096	0	-	31,194	1	*
Subtotal	110,487	2	*	106,771	0	-	217,258	2	*
15-19									
White	51,840	2	*	46,699	1	*	98,539	3	*
Black	7,798	0	-	6,721	0	-	14,519	0	-
Hispanic	43,058	3	*	39,064	0	-	82,122	3	*
Asian/Other	17,570	0	-	16,636	1	*	34,206	1	*
Subtotal	120,266	5	4.16	109,120	2	*	229,386	7	3.05
20-24									
White	59,617	2	*	42,465	2	*	102,082	4	*
Black	9,250	1	*	6,074	1	*	15,324	2	*
Hispanic	47,274	1	*	38,578	1	*	85,852	2	*
Asian/Other	18,655	0	-	16,893	0	-	35,548	0	-
Subtotal	134,796	4	*	104,010	4	*	238,806	8	3.35
25-34									
White	105,155	10	9.51	92,024	3	*	197,179	13	6.59
Black	14,042	1	*	10,864	0	-	24,906	1	*
Hispanic	85,512	8	9.36	81,283	4	*	166,795	12	7.19
Asian/Other	34,345	1	*	36,883	0	-	71,228	1	*
Subtotal	239,054	20	8.37	221,054	7	3.17	460,108	27	5.87
35-44									
White	124,839	8	6.41	116,641	6	5.14	241,480	14	5.80
Black	14,724	0	-	12,500	0	-	27,224	0	-
Hispanic	62,018	3	*	65,919	0	-	127,937	3	*
Asian/Other	31,022	3	*	34,915	0	-	65,937	3	*
Subtotal	232,603	14	6.02	229,975	6	2.61	462,578	20	4.32
45-54									
White	127,298	6	4.71	125,851	3	*	253,149	9	3.56
Black	10,771	0	-	9,849	0	-	20,620	0	-
Hispanic	37,513	0	-	42,875	0	-	80,388	0	-
Asian/Other	25,465	0	-	29,937	0	-	55,402	0	-
Subtotal	201,047	6	2.98	208,512	3	*	409,559	9	2.20

* Rate not calculated on less than five incidents.

**Totals include two injuries with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY2004/05. Population estimates, SANDAG.

Table 5.5: Self Inflicted Injuries by Age Group, Race/Ethnicity and Gender (Continued)

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	90,197	3	*	91,880	3	*	182,077	6	3.30
Black	5,094	0	-	5,517	0	-	10,611	0	-
Hispanic	18,139	0	-	22,797	3	*	40,936	3	*
Asian/Other	14,751	1	*	18,573	0	-	33,324	1	*
Subtotal	128,181	5	3.90	138,767	7	5.04	266,948	12	4.50
65-74									
White	51,732	2	*	57,962	1	*	109,694	3	*
Black	2,951	0	-	3,308	0	-	6,259	0	-
Hispanic	10,133	0	-	13,992	0	-	24,125	0	-
Asian/Other	8,909	0	-	12,871	0	-	21,780	0	-
Subtotal	73,725	2	*	88,133	1	*	161,858	3	*
75-84									
White	39,712	0	-	54,627	0	-	94,339	0	-
Black	1,323	0	-	1,836	0	-	3,159	0	-
Hispanic	5,751	1	*	8,381	0	-	14,132	1	*
Asian/Other	5,174	0	-	7,278	1	*	12,452	1	*
Subtotal	51,960	1	*	72,122	1	*	124,082	2	*
85+									
White	14,800	0	-	25,514	0	-	40,314	0	-
Black	325	0	-	688	0	-	1,013	0	-
Hispanic	1,496	0	-	2,705	0	-	4,201	0	-
Asian/Other	1,242	0	-	2,022	0	-	3,264	0	-
Subtotal	17,863	0	-	30,929	0	-	48,792	0	-
Total**	1,520,696	59	3.88	1,518,581	31	2.04	3,039,277	90	2.96

*Rate not calculated on less than five incidents.

**Totals include two injuries with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 2004/05. Population estimates, SANDAG.

Table 5.6: Suicides by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	43,707	0	-	43,652	0	-	87,359	0	-
Black	6,275	0	-	5,933	0	-	12,208	0	-
Hispanic	45,931	0	-	45,354	0	-	91,285	0	-
Asian/Other	17,397	0	-	16,530	0	-	33,927	0	-
Subtotal	113,310	0	-	111,469	0	-	224,779	0	-
5-9									
White	39,213	0	-	41,032	0	-	80,245	0	-
Black	6,158	0	-	5,885	0	-	12,043	0	-
Hispanic	35,703	0	-	35,527	0	-	71,230	0	-
Asian/Other	16,330	0	-	15,275	0	-	31,605	0	-
Subtotal	97,404	0	-	97,719	0	-	195,123	0	-
10-14									
White	43,295	1	*	42,926	0	-	86,221	1	*
Black	7,093	0	-	6,825	0	-	13,918	0	-
Hispanic	44,001	0	-	41,924	0	-	85,925	0	-
Asian/Other	16,098	0	-	15,096	0	-	31,194	0	-
Subtotal	110,487	1	*	106,771	0	-	217,258	1	*
15-19									
White	51,840	3	*	46,699	0	-	98,539	3	*
Black	7,798	0	-	6,721	0	-	14,519	0	-
Hispanic	43,058	0	-	39,064	0	-	82,122	0	-
Asian/Other	17,570	1	*	16,636	0	-	34,206	1	*
Subtotal	120,266	4	*	109,120	0	-	229,386	4	*
20-24									
White	59,617	6	10.06	42,465	0	-	102,082	6	5.88
Black	9,250	0	-	6,074	0	-	15,324	0	-
Hispanic	47,274	0	-	38,578	0	-	85,852	0	-
Asian/Other	18,655	1	*	16,893	0	-	35,548	1	*
Subtotal	134,796	7	5.19	104,010	0	-	238,806	7	2.93
25-34									
White	105,155	7	6.66	92,024	4	*	197,179	11	5.58
Black	14,042	5	35.61	10,864	1	*	24,906	6	24.09
Hispanic	85,512	1	*	81,283	1	*	166,795	2	*
Asian/Other	34,345	3	*	36,883	0	-	71,228	3	*
Subtotal	239,054	16	6.69	221,054	6	2.71	460,108	22	4.78
35-44									
White	124,839	15	12.02	116,641	6	5.14	241,480	21	8.70
Black	14,724	1	*	12,500	0	-	27,224	1	*
Hispanic	62,018	2	*	65,919	0	-	127,937	2	*
Asian/Other	31,022	3	*	34,915	0	-	65,937	3	*
Subtotal	232,603	21	9.03	229,975	6	2.61	462,578	27	5.84
45-54									
White	127,298	24	18.85	125,851	2	*	253,149	26	10.27
Black	10,771	0	-	9,849	0	-	20,620	0	-
Hispanic	37,513	2	*	42,875	2	*	80,388	4	*
Asian/Other	25,465	3	*	29,937	0	-	55,402	3	*
Subtotal	201,047	29	14.42	208,512	4	*	409,559	33	8.06

* Rate not calculated on less than five incidents.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 2004/05. Population estimates, SANDAG

Table 5.6: Suicides by Age Group, Race/Ethnicity and Gender (Continued)

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	90,197	10	11.09	91,880	3	*	182,077	13	7.14
Black	5,094	1	*	5,517	0	-	10,611	1	*
Hispanic	18,139	0	-	22,797	1	*	40,936	1	*
Asian/Other	14,751	0	-	18,573	1	*	33,324	1	*
Subtotal	128,181	11	8.58	138,767	5	3.60	266,948	16	5.99
65-74									
White	51,732	14	27.06	57,962	2	*	109,694	16	14.59
Black	2,951	0	-	3,308	0	-	6,259	0	-
Hispanic	10,133	0	-	13,992	0	-	24,125	0	-
Asian/Other	8,909	0	-	12,871	0	-	21,780	0	-
Subtotal	73,725	14	18.99	88,133	2	*	161,858	16	9.89
75-84									
White	39,712	9	22.66	54,627	1	*	94,339	10	10.60
Black	1,323	1	*	1,836	0	-	3,159	1	*
Hispanic	5,751	0	-	8,381	0	-	14,132	0	-
Asian/Other	5,174	0	-	7,278	0	-	12,452	0	-
Subtotal	51,960	10	19.25	72,122	1	*	124,082	11	8.87
85+									
White	14,800	6	40.54	25,514	1	*	40,314	7	17.36
Black	325	0	-	688	0	-	1,013	0	-
Hispanic	1,496	0	-	2,705	0	-	4,201	0	-
Asian/Other	1,242	0	-	2,022	0	-	3,264	0	-
Subtotal	17,863	6	33.59	30,929	1	*	48,792	7	14.35
Total	1,520,696	119	7.83	1,518,581	25	1.65	3,039,277	144	4.74

* Rate not calculated on less than five incidents.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 2004/05. Population estimates, SANDAG

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

- **Motor Vehicle Occupant (MVO) Injury:** The highest MVO injury rates were to Black men aged 55 to 64 years (196.3), followed by Black and Hispanic men between 20 and 24 years of age (151.4 and 126.9, respectively).
- **Motor Vehicle Occupant Death:** The highest motor vehicle occupant death rates were to White men 85 years and older (47.3), and 75 to 84 years (25.2).
- **Motorcycle Crash Injury:** Motorcycle injury rates were highest among Black males aged 20-24 (75.7) and Black 25-34 year old men (71.2).
- **Motorcycle Crash Death:** Number was too low to calculate all age, gender, and race/ethnicity breakdowns. **No Table Appears.**
- **Pedalcycle Crash Injury:** White males aged 15-19 (28.9) and White and Hispanic males aged 10-14 (27.7 and 27.3) were at highest risk of severe injury following a pedalcycle crash.
- **Pedalcycle Crash Death:** Number was too low to calculate all age, gender, and race/ethnicity breakdowns. **No Table Appears.**
- **Pedestrian Injury:** The highest rates of pedestrian injury were among Hispanic females 55-64 years of age (48.3), followed by Hispanic males between 55 and 64 years (33.1).
- **Pedestrian Death:** Number was too low to calculate all age, gender, and race/ethnicity breakdowns. **No Table Appears.**

Table 5.7: Motor Vehicle Occupant Injuries by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	43,707	2	*	43,652	3	*	87,359	5	5.72
Black	6,275	0	-	5,933	0	-	12,208	0	-
Hispanic	45,931	7	15.24	45,354	8	17.64	91,285	15	16.43
Asian/Other	17,397	0	-	16,530	1	*	33,927	1	*
Subtotal	113,310	10	8.83	111,469	12	10.77	224,779	22	9.79
5-9									
White	39,213	4	*	41,032	2	*	80,245	6	7.48
Black	6,158	1	*	5,885	1	*	12,043	2	*
Hispanic	35,703	9	25.21	35,527	8	22.52	71,230	17	23.87
Asian/Other	16,330	0	-	15,275	2	*	31,605	2	*
Subtotal	97,404	14	14.37	97,719	13	13.30	195,123	27	13.84
10-14									
White	43,295	8	18.48	42,926	6	13.98	86,221	14	16.24
Black	7,093	0	-	6,825	1	*	13,918	1	*
Hispanic	44,001	7	15.91	41,924	9	21.47	85,925	16	18.62
Asian/Other	16,098	1	*	15,096	1	*	31,194	2	*
Subtotal	110,487	16	14.48	106,771	17	15.92	217,258	33	15.19
15-19									
White	51,840	51	98.38	46,699	35	74.95	98,539	86	87.28
Black	7,798	8	102.59	6,721	7	104.15	14,519	15	103.31
Hispanic	43,058	44	102.19	39,064	21	53.76	82,122	65	79.15
Asian/Other	17,570	8	45.53	16,636	10	60.11	34,206	18	52.62
Subtotal	120,266	113	93.96	109,120	76	69.65	229,386	189	82.39
20-24									
White	59,617	55	92.26	42,465	50	117.74	102,082	105	102.86
Black	9,250	14	151.35	6,074	6	98.78	15,324	20	130.51
Hispanic	47,274	60	126.92	38,578	35	90.73	85,852	95	110.66
Asian/Other	18,655	7	37.52	16,893	13	76.95	35,548	20	56.26
Subtotal	134,796	139	103.12	104,010	105	100.95	238,806	244	102.17
25-34									
White	105,155	57	54.21	92,024	47	51.07	197,179	104	52.74
Black	14,042	9	64.09	10,864	10	92.05	24,906	19	76.29
Hispanic	85,512	84	98.23	81,283	42	51.67	166,795	126	75.54
Asian/Other	34,345	13	37.85	36,883	11	29.82	71,228	24	33.69
Subtotal	239,054	163	68.19	221,054	116	52.48	460,108	279	60.64
35-44									
White	124,839	60	48.06	116,641	36	30.86	241,480	96	39.75
Black	14,724	8	54.33	12,500	9	72.00	27,224	17	62.44
Hispanic	62,018	57	91.91	65,919	29	43.99	127,937	86	67.22
Asian/Other	31,022	13	41.91	34,915	11	31.51	65,937	24	36.40
Subtotal	232,603	142	61.05	229,975	88	38.27	462,578	230	49.72
45-54									
White	127,298	52	40.85	125,851	60	47.68	253,149	112	44.24
Black	10,771	7	64.99	9,849	4	*	20,620	11	53.35
Hispanic	37,513	42	111.96	42,875	39	90.96	80,388	81	100.76
Asian/Other	25,465	10	39.27	29,937	19	63.47	55,402	29	52.34
Subtotal	201,047	113	56.21	208,512	125	59.95	409,559	238	58.11

* Rate not calculated on less than five incidents.

** Totals and subtotals include 35 with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2004/05; Population Estimates, SANDAG

**Table 5.7: Motor Vehicle Occupant Injuries by Age Group, Race/Ethnicity and Gender
(Continued)**

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	90,197	32	35.48	91,880	37	40.27	182,077	69	37.90
Black	5,094	10	196.31	5,517	2	*	10,611	12	113.09
Hispanic	18,139	11	60.64	22,797	20	87.73	40,936	31	75.73
Asian/Other	14,751	8	54.23	18,573	5	26.92	33,324	13	39.01
Subtotal	128,181	63	49.15	138,767	64	46.12	266,948	127	47.57
65-74									
White	51,732	24	46.39	57,962	27	46.58	109,694	51	46.49
Black	2,951	2	*	3,308	2	*	6,259	4	*
Hispanic	10,133	12	118.42	13,992	6	42.88	24,125	18	74.61
Asian/Other	8,909	0	-	12,871	6	46.62	21,780	6	27.55
Subtotal	73,725	39	52.90	88,133	41	46.52	161,858	80	49.43
75-84									
White	39,712	26	65.47	54,627	33	60.41	94,339	59	62.54
Black	1,323	0	-	1,836	3	*	3,159	3	*
Hispanic	5,751	5	86.94	8,381	8	95.45	14,132	13	91.99
Asian/Other	5,174	3	*	7,278	2	*	12,452	5	40.15
Subtotal	51,960	35	67.36	72,122	47	65.17	124,082	82	66.09
85+									
White	14,800	8	54.05	25,514	11	43.11	40,314	19	47.13
Black	325	0	-	688	0	-	1,013	0	-
Hispanic	1,496	0	-	2,705	0	-	4,201	0	-
Asian/Other	1,242	0	-	2,022	0	-	3,264	0	-
Subtotal	17,863	9	50.38	30,929	12	38.80	48,792	21	43.04
Total**	1,520,696	856	56.29	1,518,581	716	47.15	3,039,277	1,572	51.72

* Rate not calculated on less than five incidents.

** Totals and subtotals include 35 with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2004/05; Population Estimates, SANDAG

Table 5.8: Motor Vehicle Occupant Deaths by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	43,707	1	*	43,652	0	-	87,359	1	*
Black	6,275	0	-	5,933	0	-	12,208	0	-
Hispanic	45,931	2	*	45,354	0	-	91,285	2	*
Asian/Other	17,397	1	*	16,530	0	-	33,927	1	*
Subtotal	113,310	4	*	111,469	0	-	224,779	4	*
5-9									
White	39,213	1	*	41,032	0	-	80,245	1	*
Black	6,158	0	-	5,885	0	-	12,043	0	-
Hispanic	35,703	0	-	35,527	2	*	71,230	2	*
Asian/Other	16,330	0	-	15,275	0	-	31,605	0	-
Subtotal	97,404	1	*	97,719	2	*	195,123	3	*
10-14									
White	43,295	0	-	42,926	1	*	86,221	1	*
Black	7,093	0	-	6,825	0	-	13,918	0	-
Hispanic	44,001	1	*	41,924	1	*	85,925	2	*
Asian/Other	16,098	0	-	15,096	0	-	31,194	0	-
Subtotal	110,487	2	*	106,771	2	*	217,258	4	*
15-19									
White	51,840	6	11.57	46,699	7	14.99	98,539	13	13.19
Black	7,798	0	-	6,721	1	*	14,519	1	*
Hispanic	43,058	0	-	39,064	3	*	82,122	3	*
Asian/Other	17,570	0	-	16,636	2	*	34,206	2	*
Subtotal	120,266	6	4.99	109,120	13	11.91	229,386	19	8.28
20-24									
White	59,617	10	16.77	42,465	6	14.13	102,082	16	15.67
Black	9,250	1	*	6,074	0	-	15,324	1	*
Hispanic	47,274	11	23.27	38,578	1	*	85,852	12	13.98
Asian/Other	18,655	1	*	16,893	2	*	35,548	3	*
Subtotal	134,796	23	17.06	104,010	9	8.65	238,806	32	13.40
25-34									
White	105,155	15	14.26	92,024	3	*	197,179	18	9.13
Black	14,042	2	*	10,864	0	-	24,906	2	*
Hispanic	85,512	9	10.52	81,283	4	*	166,795	13	7.79
Asian/Other	34,345	3	*	36,883	1	*	71,228	4	*
Subtotal	239,054	29	12.13	221,054	8	3.62	460,108	37	8.04
35-44									
White	124,839	6	4.81	116,641	2	*	241,480	8	3.31
Black	14,724	0	-	12,500	1	*	27,224	1	*
Hispanic	62,018	7	11.29	65,919	2	*	127,937	9	7.03
Asian/Other	31,022	1	*	34,915	0	-	65,937	1	*
Subtotal	232,603	14	6.02	229,975	5	2.17	462,578	19	4.11
45-54									
White	127,298	10	7.86	125,851	5	3.97	253,149	15	5.93
Black	10,771	1	*	9,849	1	*	20,620	2	*
Hispanic	37,513	3	*	42,875	1	*	80,388	4	*
Asian/Other	25,465	1	*	29,937	2	*	55,402	3	*
Subtotal	201,047	15	7.46	208,512	9	4.32	409,559	24	5.86

* Rate not calculated on less than five incidents.

** Totals and subtotals include one with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2004/05; Population Estimates, SANDAG

**Table 5.8: Motor Vehicle Occupant Deaths by Age Group, Race/Ethnicity and Gender
(Continued)**

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	90,197	2	*	91,880	5	5.44	182,077	7	3.84
Black	5,094	0	-	5,517	0	-	10,611	0	-
Hispanic	18,139	1	*	22,797	2	*	40,936	3	*
Asian/Other	14,751	0	-	18,573	0	-	33,324	0	-
Subtotal	128,181	3	*	138,767	7	5.04	266,948	10	3.75
65-74									
White	51,732	5	9.67	57,962	2	*	109,694	7	6.38
Black	2,951	0	-	3,308	0	-	6,259	0	-
Hispanic	10,133	3	*	13,992	2	*	24,125	5	20.73
Asian/Other	8,909	0	-	12,871	0	-	21,780	0	-
Subtotal	73,725	8	10.85	88,133	4	*	161,858	12	7.41
75-84									
White	39,712	10	25.18	54,627	5	12.59	94,339	15	15.90
Black	1,323	0	-	1,836	0	-	3,159	0	-
Hispanic	5,751	0	-	8,381	1	*	14,132	1	*
Asian/Other	5,174	0	-	7,278	1	*	12,452	1	*
Subtotal	51,960	10	19.25	72,122	7	13.47	124,082	17	13.70
85+									
White	14,800	7	47.30	25,514	0	-	40,314	7	17.36
Black	325	0	-	688	0	-	1,013	0	-
Hispanic	1,496	0	-	2,705	1	*	4,201	1	*
Asian/Other	1,242	0	-	2,022	1	*	3,264	1	*
Subtotal	17,863	7	39.19	30,929	2	*	48,792	9	18.45
Total**	1,520,696	122	8.02	1,518,581	68	4.48	3,039,277	190	6.25

* Rate not calculated on less than five incidents.

** Totals and subtotals include one with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2004/05; Population Estimates, SANDAG

Table 5.9: Motorcycle Injuries by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	43,707	0	-	43,652	0	-	87,359	0	-
Black	6,275	0	-	5,933	0	-	12,208	0	-
Hispanic	45,931	1	*	45,354	0	-	91,285	1	*
Asian/Other	17,397	0	-	16,530	0	-	33,927	0	-
Subtotal	113,310	1	*	111,469	0	-	224,779	1	*
5-9									
White	39,213	1	*	41,032	0	-	80,245	1	*
Black	6,158	0	-	5,885	0	-	12,043	0	-
Hispanic	35,703	1	*	35,527	1	*	71,230	2	*
Asian/Other	16,330	0	-	15,275	0	-	31,605	0	-
Subtotal	97,404	2	*	97,719	1	*	195,123	3	*
10-14									
White	43,295	2	*	42,926	1	*	86,221	3	*
Black	7,093	0	-	6,825	0	-	13,918	0	-
Hispanic	44,001	1	*	41,924	1	*	85,925	2	*
Asian/Other	16,098	0	-	15,096	0	-	31,194	0	-
Subtotal	110,487	3	*	106,771	2	*	217,258	5	2.30
15-19									
White	51,840	18	34.72	46,699	6	12.85	98,539	24	24.36
Black	7,798	0	-	6,721	2	*	14,519	2	*
Hispanic	43,058	11	25.55	39,064	0	-	82,122	11	13.39
Asian/Other	17,570	1	*	16,636	1	*	34,206	2	*
Subtotal	120,266	32	26.61	109,120	9	8.25	229,386	41	17.87
20-24									
White	59,617	39	65.42	42,465	5	11.77	102,082	44	43.10
Black	9,250	7	75.68	6,074	1	*	15,324	8	52.21
Hispanic	47,274	15	31.73	38,578	0	-	85,852	15	17.47
Asian/Other	18,655	5	26.80	16,893	2	*	35,548	7	19.69
Subtotal	134,796	67	49.70	104,010	8	7.69	238,806	75	31.41
25-34									
White	105,155	43	40.89	92,024	4	*	197,179	47	23.84
Black	14,042	10	71.21	10,864	1	*	24,906	11	44.17
Hispanic	85,512	19	22.22	81,283	1	*	166,795	20	11.99
Asian/Other	34,345	6	17.47	36,883	3	*	71,228	9	12.64
Subtotal	239,054	83	34.72	221,054	9	4.07	460,108	92	20.00
35-44									
White	124,839	53	42.45	116,641	7	6.00	241,480	60	24.85
Black	14,724	1	*	12,500	0	-	27,224	1	*
Hispanic	62,018	12	19.35	65,919	0	-	127,937	12	9.38
Asian/Other	31,022	3	*	34,915	0	-	65,937	3	*
Subtotal	232,603	70	30.09	229,975	7	3.04	462,578	77	16.65
45-54									
White	127,298	55	43.21	125,851	14	11.12	253,149	69	27.26
Black	10,771	1	*	9,849	0	-	20,620	1	*
Hispanic	37,513	6	15.99	42,875	1	*	80,388	7	8.71
Asian/Other	25,465	1	*	29,937	2	*	55,402	3	*
Subtotal	201,047	65	32.33	208,512	18	8.63	409,559	83	20.27

* Rate not calculated on less than five incidents.

** Totals and subtotals include 12 with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2004/05; Population Estimates, SANDAG

Table 5.9: Motorcycle Injuries by Age Group, Race/Ethnicity and Gender (Continued)

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	90,197	25	27.72	91,880	4	*	182,077	29	15.93
Black	5,094	0	-	5,517	0	-	10,611	0	-
Hispanic	18,139	2	*	22,797	0	-	40,936	2	*
Asian/Other	14,751	2	*	18,573	0	-	33,324	2	*
Subtotal	128,181	29	22.62	138,767	4	*	266,948	33	12.36
65-74									
White	51,732	4	*	57,962	1	*	109,694	5	4.56
Black	2,951	0	-	3,308	0	-	6,259	0	-
Hispanic	10,133	0	-	13,992	0	-	24,125	0	-
Asian/Other	8,909	0	-	12,871	0	-	21,780	0	-
Subtotal	73,725	4	*	88,133	1	*	161,858	5	3.09
75-84									
White	39,712	3	*	54,627	1	*	94,339	4	*
Black	1,323	0	-	1,836	0	-	3,159	0	-
Hispanic	5,751	0	-	8,381	0	-	14,132	0	-
Asian/Other	5,174	0	-	7,278	0	-	12,452	0	-
Subtotal	51,960	3	*	72,122	1	*	124,082	4	*
85+									
White	14,800	0	-	25,514	0	-	40,314	0	-
Black	325	0	-	688	0	-	1,013	0	-
Hispanic	1,496	0	-	2,705	1	*	4,201	1	*
Asian/Other	1,242	0	-	2,022	0	-	3,264	0	-
Subtotal	17,863	0	-	30,929	1	*	48,792	1	*
Total**	1,520,696	359	23.61	1,518,581	61	4.02	3,039,277	420	13.82

*Rate not calculated on less than five incidents.

** Totals and subtotals include 12 with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 2004/05. Population estimates, SANDAG.

Table 5.10: Pedalcycle Injuries by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	43,707	1	*	43,652	0	-	87,359	1	*
Black	6,275	1	*	5,933	0	-	12,208	1	*
Hispanic	45,931	2	*	45,354	0	-	91,285	2	*
Asian/Other	17,397	2	*	16,530	0	-	33,927	2	*
Subtotal	113,310	6	5.30	111,469	0	-	224,779	6	2.67
5-9									
White	39,213	3	*	41,032	1	*	80,245	4	*
Black	6,158	0	-	5,885	0	-	12,043	0	-
Hispanic	35,703	8	22.41	35,527	3	*	71,230	11	15.44
Asian/Other	16,330	3	*	15,275	1	*	31,605	4	*
Subtotal	97,404	14	14.37	97,719	5	5.12	195,123	19	9.74
10-14									
White	43,295	12	27.72	42,926	3	*	86,221	15	17.40
Black	7,093	3	*	6,825	0	-	13,918	3	*
Hispanic	44,001	12	27.27	41,924	1	*	85,925	13	15.13
Asian/Other	16,098	1	*	15,096	1	*	31,194	2	*
Subtotal	110,487	28	25.34	106,771	5	4.68	217,258	33	15.19
15-19									
White	51,840	15	28.94	46,699	0	-	98,539	15	15.22
Black	7,798	0	-	6,721	0	-	14,519	0	-
Hispanic	43,058	9	20.90	39,064	1	*	82,122	10	12.18
Asian/Other	17,570	0	-	16,636	0	-	34,206	0	-
Subtotal	120,266	25	20.79	109,120	1	*	229,386	26	11.33
20-24									
White	59,617	6	10.06	42,465	2	*	102,082	8	7.84
Black	9,250	0	-	6,074	0	-	15,324	0	-
Hispanic	47,274	6	12.69	38,578	2	*	85,852	8	9.32
Asian/Other	18,655	0	-	16,893	0	-	35,548	0	-
Subtotal	134,796	12	8.90	104,010	4	*	238,806	16	6.70
25-34									
White	105,155	9	8.56	92,024	2	*	197,179	11	5.58
Black	14,042	1	*	10,864	0	-	24,906	1	*
Hispanic	85,512	4	*	81,283	0	-	166,795	4	*
Asian/Other	34,345	0	-	36,883	0	-	71,228	0	-
Subtotal	239,054	15	6.27	221,054	2	*	460,108	17	3.69
35-44									
White	124,839	18	14.42	116,641	4	*	241,480	22	9.11
Black	14,724	2	*	12,500	0	-	27,224	2	*
Hispanic	62,018	8	12.90	65,919	1	*	127,937	9	7.03
Asian/Other	31,022	0	-	34,915	1	*	65,937	1	*
Subtotal	232,603	28	12.04	229,975	6	2.61	462,578	34	7.35
45-54									
White	127,298	27	21.21	125,851	5	3.97	253,149	32	12.64
Black	10,771	3	*	9,849	0	-	20,620	3	*
Hispanic	37,513	3	*	42,875	0	-	80,388	3	*
Asian/Other	25,465	0	-	29,937	0	-	55,402	0	-
Subtotal	201,047	33	16.41	208,512	5	2.40	409,559	38	9.28

*Rate not calculated on less than five incidents.

** Totals and subtotals include two with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 2004/05. Population estimates, SANDAG.

Table 5.10: Pedalcycle Injuries by Age Group, Race/Ethnicity and Gender (Continued)

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	90,197	9	9.98	91,880	4	*	182,077	13	7.14
Black	5,094	0	-	5,517	0	-	10,611	0	-
Hispanic	18,139	3	*	22,797	0	-	40,936	3	*
Asian/Other	14,751	0	-	18,573	0	-	33,324	0	-
Subtotal	128,181	12	9.36	138,767	4	*	266,948	16	5.99
65-74									
White	51,732	8	15.46	57,962	2	*	109,694	10	9.12
Black	2,951	0	-	3,308	0	-	6,259	0	-
Hispanic	10,133	0	-	13,992	0	-	24,125	0	-
Asian/Other	8,909	0	-	12,871	0	-	21,780	0	-
Subtotal	73,725	8	10.85	88,133	2	*	161,858	10	6.18
75-84									
White	39,712	1	*	54,627	0	-	94,339	1	*
Black	1,323	0	-	1,836	0	-	3,159	0	-
Hispanic	5,751	1	*	8,381	0	-	14,132	1	*
Asian/Other	5,174	0	-	7,278	0	-	12,452	0	-
Subtotal	51,960	2	*	72,122	0	-	124,082	2	*
85+									
White	14,800	0	-	25,514	0	-	40,314	0	-
Black	325	0	-	688	0	-	1,013	0	-
Hispanic	1,496	1	*	2,705	0	-	4,201	1	*
Asian/Other	1,242	0	-	2,022	0	-	3,264	0	-
Subtotal	17,863	1	*	30,929	0	-	48,792	1	*
Total	1,520,696	184	12.10	1,518,581	34	2.24	3,039,277	218	7.17

*Rate not calculated on less than five incidents.

** Totals and subtotals include two with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 2004/05. Population estimates, SANDAG.

Table 5.11: Pedestrian Injuries by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	43,707	3	*	43,652	0	-	87,359	3	*
Black	6,275	0	-	5,933	0	-	12,208	0	-
Hispanic	45,931	5	10.89	45,354	2	*	91,285	7	7.67
Asian/Other	17,397	0	-	16,530	2	*	33,927	2	*
Subtotal	113,310	8	7.06	111,469	4	*	224,779	12	5.34
5-9									
White	39,213	0	-	41,032	2	*	80,245	2	*
Black	6,158	0	-	5,885	0	-	12,043	0	-
Hispanic	35,703	8	22.41	35,527	2	*	71,230	10	14.04
Asian/Other	16,330	3	*	15,275	1	*	31,605	4	*
Subtotal	97,404	11	11.29	97,719	5	5.12	195,123	16	8.20
10-14									
White	43,295	8	18.48	42,926	2	*	86,221	10	11.60
Black	7,093	4	*	6,825	1	*	13,918	5	35.92
Hispanic	44,001	5	11.36	41,924	5	11.93	85,925	10	11.64
Asian/Other	16,098	0	-	15,096	1	*	31,194	1	*
Subtotal	110,487	17	15.39	106,771	9	8.43	217,258	26	11.97
15-19									
White	51,840	8	15.43	46,699	3	*	98,539	11	11.16
Black	7,798	1	*	6,721	0	-	14,519	1	*
Hispanic	43,058	8	18.58	39,064	6	15.36	82,122	14	17.05
Asian/Other	17,570	1	*	16,636	3	*	34,206	4	*
Subtotal	120,266	18	14.97	109,120	13	11.91	229,386	31	13.51
20-24									
White	59,617	6	10.06	42,465	5	11.77	102,082	11	10.78
Black	9,250	1	*	6,074	0	-	15,324	1	*
Hispanic	47,274	10	21.15	38,578	4	*	85,852	14	16.31
Asian/Other	18,655	0	-	16,893	1	*	35,548	1	*
Subtotal	134,796	17	12.61	104,010	12	11.54	238,806	29	12.14
25-34									
White	105,155	7	6.66	92,024	7	7.61	197,179	14	7.10
Black	14,042	2	*	10,864	0	-	24,906	2	*
Hispanic	85,512	8	9.36	81,283	2	*	166,795	10	6.00
Asian/Other	34,345	0	-	36,883	1	*	71,228	1	*
Subtotal	239,054	17	7.11	221,054	11	4.98	460,108	28	6.09
35-44									
White	124,839	14	11.21	116,641	4	*	241,480	18	7.45
Black	14,724	2	*	12,500	2	*	27,224	4	*
Hispanic	62,018	13	20.96	65,919	13	19.72	127,937	26	20.32
Asian/Other	31,022	2	*	34,915	1	*	65,937	3	*
Subtotal	232,603	31	13.33	229,975	21	9.13	462,578	52	11.24
45-54									
White	127,298	15	11.78	125,851	10	7.95	253,149	25	9.88
Black	10,771	2	*	9,849	1	*	20,620	3	*
Hispanic	37,513	9	23.99	42,875	3	*	80,388	12	14.93
Asian/Other	25,465	1	*	29,937	2	*	55,402	3	*
Subtotal	201,047	27	13.43	208,512	16	7.67	409,559	43	10.50

* Rate not calculated on less than five incidents.

** Totals and subtotals include seven with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2004/05; Population Estimates, SANDAG

Table 5.11: Pedestrian Injuries by Age Group, Race/Ethnicity and Gender (Continued)

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	90,197	6	6.65	91,880	7	7.62	182,077	13	7.14
Black	5,094	0	-	5,517	1	*	10,611	1	*
Hispanic	18,139	6	33.08	22,797	11	48.25	40,936	17	41.53
Asian/Other	14,751	1	*	18,573	1	*	33,324	2	*
Subtotal	128,181	14	10.92	138,767	20	14.41	266,948	34	12.74
65-74									
White	51,732	5	9.67	57,962	7	12.08	109,694	12	10.94
Black	2,951	0	-	3,308	3	*	6,259	3	*
Hispanic	10,133	3	*	13,992	3	*	24,125	6	24.87
Asian/Other	8,909	0	-	12,871	2	*	21,780	2	*
Subtotal	73,725	8	10.85	88,133	15	17.02	161,858	23	14.21
75-84									
White	39,712	4	*	54,627	3	*	94,339	7	7.42
Black	1,323	0	-	1,836	0	-	3,159	0	-
Hispanic	5,751	2	*	8,381	3	*	14,132	5	35.38
Asian/Other	5,174	2	*	7,278	0	-	12,452	2	*
Subtotal	51,960	8	15.40	72,122	6	11.55	124,082	14	11.28
85+									
White	14,800	1	*	25,514	2	*	40,314	3	*
Black	325	0	-	688	0	-	1,013	0	-
Hispanic	1,496	0	-	2,705	0	-	4,201	0	-
Asian/Other	1,242	0	-	2,022	0	-	3,264	0	-
Subtotal	17,863	1	*	30,929	3	*	48,792	4	*
Total**	1,520,696	177	11.64	1,518,581	135	8.89	3,039,277	312	10.27

* Rate not calculated on less than five incidents.

** Totals and subtotals include seven with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2004/05; Population Estimates, SANDAG

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

- **Severe Injuries due to Falls:** The highest rates of severe injuries from falls were seen in the oldest age groups. White males (378.4) aged 85 and older had the highest injury rates from falls.
- **Deaths due to falls:** Due to the low number of deaths due to falls, rates could only be calculated for Hispanic men age 45 to 54, and for White men and women age 55 and older. The highest fall related death rate was among White men age 85 and older (189.2) **No table appears.**
- **Severe Injury due to Sports and Recreation:** The highest rates of Sports/Recreation injury were in White males 10-14 years (78.5), and 15-19 years (57.9).
- **Death due to Sports and Recreation:** Number was too low to calculate all age, gender, and race/ethnicity breakdowns. **No Table Appears.**

Table 5.12: Fall Injuries by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	43,707	20	45.76	43,652	12	27.49	87,359	32	36.63
Black	6,275	3	*	5,933	4	*	12,208	7	57.34
Hispanic	45,931	22	47.90	45,354	12	26.46	91,285	34	37.25
Asian/Other	17,397	10	57.48	16,530	3	*	33,927	13	38.32
Subtotal	113,310	59	52.07	111,469	32	28.71	224,779	91	40.48
5-9									
White	39,213	9	22.95	41,032	7	17.06	80,245	16	19.94
Black	6,158	0	-	5,885	2	*	12,043	2	*
Hispanic	35,703	10	28.01	35,527	6	16.89	71,230	16	22.46
Asian/Other	16,330	3	*	15,275	1	*	31,605	4	*
Subtotal	97,404	24	24.64	97,719	16	16.37	195,123	40	20.50
10-14									
White	43,295	5	11.55	42,926	2	*	86,221	7	8.12
Black	7,093	0	-	6,825	0	-	13,918	0	-
Hispanic	44,001	7	15.91	41,924	1	*	85,925	8	9.31
Asian/Other	16,098	0	-	15,096	1	*	31,194	1	*
Subtotal	110,487	13	11.77	106,771	4	*	217,258	17	7.82
15-19									
White	51,840	18	34.72	46,699	6	12.85	98,539	24	24.36
Black	7,798	1	*	6,721	0	-	14,519	1	*
Hispanic	43,058	6	13.93	39,064	5	12.80	82,122	11	13.39
Asian/Other	17,570	6	34.15	16,636	1	*	34,206	7	20.46
Subtotal	120,266	33	27.44	109,120	12	11.00	229,386	45	19.62
20-24									
White	59,617	28	46.97	42,465	3	*	102,082	31	30.37
Black	9,250	2	*	6,074	1	*	15,324	3	*
Hispanic	47,274	24	50.77	38,578	7	18.15	85,852	31	36.11
Asian/Other	18,655	6	32.16	16,893	0	-	35,548	6	16.88
Subtotal	134,796	62	46.00	104,010	11	10.58	238,806	73	30.57
25-34									
White	105,155	30	28.53	92,024	8	8.69	197,179	38	19.27
Black	14,042	4	*	10,864	1	*	24,906	5	20.08
Hispanic	85,512	46	53.79	81,283	9	11.07	166,795	55	32.97
Asian/Other	34,345	4	*	36,883	3	*	71,228	7	9.83
Subtotal	239,054	86	35.98	221,054	23	10.40	460,108	109	23.69
35-44									
White	124,839	57	45.66	116,641	18	15.43	241,480	75	31.06
Black	14,724	8	54.33	12,500	1	*	27,224	9	33.06
Hispanic	62,018	40	64.50	65,919	12	18.20	127,937	52	40.65
Asian/Other	31,022	1	*	34,915	2	*	65,937	3	*
Subtotal	232,603	110	47.29	229,975	36	15.65	462,578	146	31.56
45-54									
White	127,298	68	53.42	125,851	27	21.45	253,149	95	37.53
Black	10,771	3	*	9,849	2	*	20,620	5	24.25
Hispanic	37,513	26	69.31	42,875	12	27.99	80,388	38	47.27
Asian/Other	25,465	2	*	29,937	2	*	55,402	4	*
Subtotal	201,047	100	49.74	208,512	45	21.58	409,559	145	35.40

* Rate not calculated on less than five incidents.

** Totals and subtotals include 44 with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2004/05; Population Estimates, SANDAG

Table 5.12: Fall Injuries by Age Group, Race/Ethnicity and Gender (Continued)

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	90,197	63	69.85	91,880	30	32.65	182,077	93	51.08
Black	5,094	6	117.79	5,517	0	-	10,611	6	56.55
Hispanic	18,139	20	110.26	22,797	5	21.93	40,936	25	61.07
Asian/Other	14,751	5	33.90	18,573	2	*	33,324	7	21.01
Subtotal	128,181	97	75.67	138,767	37	26.66	266,948	134	50.20
65-74									
White	51,732	57	110.18	57,962	34	58.66	109,694	91	82.96
Black	2,951	1	*	3,308	1	*	6,259	2	*
Hispanic	10,133	15	148.03	13,992	6	42.88	24,125	21	87.05
Asian/Other	8,909	3	*	12,871	7	54.39	21,780	10	45.91
Subtotal	73,725	82	111.22	88,133	49	55.60	161,858	131	80.94
75-84									
White	39,712	86	216.56	54,627	88	221.60	94,339	174	184.44
Black	1,323	1	*	1,836	2	*	3,159	3	*
Hispanic	5,751	12	208.66	8,381	8	139.11	14,132	20	141.52
Asian/Other	5,174	8	154.62	7,278	8	154.62	12,452	16	128.49
Subtotal	51,960	108	207.85	72,122	109	209.78	124,082	217	174.88
85+									
White	14,800	56	378.38	25,514	64	250.84	40,314	120	297.66
Black	325	1	*	688	3	*	1,013	4	*
Hispanic	1,496	5	334.22	2,705	7	258.78	4,201	12	285.65
Asian/Other	1,242	1	*	2,022	3	*	3,264	4	*
Subtotal	17,863	65	363.88	30,929	79	255.42	48,792	144	295.13
Total**	1,520,696	839	55.17	1,518,581	453	29.83	3,039,277	1,292	42.51

* Rate not calculated on less than five incidents.

** Totals and subtotals include 44 with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2004/05; Population Estimates, SANDAG

Table 5.13: Sports/Recreation Injuries by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	43,707	2	*	43,652	1	*	87,359	3	*
Black	6,275	0	-	5,933	0	-	12,208	0	-
Hispanic	45,931	2	*	45,354	1	*	91,285	3	*
Asian/Other	17,397	1	*	16,530	0	-	33,927	1	*
Subtotal	113,310	5	4.41	111,469	2	*	224,779	7	3.11
5-9									
White	39,213	11	28.05	41,032	7	17.06	80,245	18	22.43
Black	6,158	0	-	5,885	0	-	12,043	0	-
Hispanic	35,703	5	14.00	35,527	4	*	71,230	9	12.64
Asian/Other	16,330	3	*	15,275	1	*	31,605	4	*
Subtotal	97,404	19	19.51	97,719	12	12.28	195,123	31	15.89
10-14									
White	43,295	34	78.53	42,926	10	23.30	86,221	44	51.03
Black	7,093	3	*	6,825	1	*	13,918	4	*
Hispanic	44,001	13	29.54	41,924	3	*	85,925	16	18.62
Asian/Other	16,098	8	49.70	15,096	3	*	31,194	11	35.26
Subtotal	110,487	58	52.49	106,771	17	15.92	217,258	75	34.52
15-19									
White	51,840	30	57.87	46,699	14	29.98	98,539	44	44.65
Black	7,798	3	*	6,721	1	*	14,519	4	*
Hispanic	43,058	23	53.42	39,064	2	*	82,122	25	30.44
Asian/Other	17,570	3	*	16,636	2	*	34,206	5	14.62
Subtotal	120,266	59	49.06	109,120	19	17.41	229,386	78	34.00
20-24									
White	59,617	24	40.26	42,465	4	*	102,082	28	27.43
Black	9,250	0	-	6,074	0	-	15,324	0	-
Hispanic	47,274	4	*	38,578	2	*	85,852	6	6.99
Asian/Other	18,655	0	-	16,893	0	-	35,548	0	-
Subtotal	134,796	28	20.77	104,010	6	5.77	238,806	34	14.24
25-34									
White	105,155	32	30.43	92,024	10	10.87	197,179	42	21.30
Black	14,042	4	*	10,864	0	-	24,906	4	*
Hispanic	85,512	9	10.52	81,283	0	-	166,795	9	5.40
Asian/Other	34,345	3	*	36,883	0	-	71,228	3	*
Subtotal	239,054	48	20.08	221,054	10	4.52	460,108	58	12.61
35-44									
White	124,839	22	17.62	116,641	13	11.15	241,480	35	14.49
Black	14,724	1	*	12,500	0	-	27,224	1	*
Hispanic	62,018	6	9.67	65,919	2	*	127,937	8	6.25
Asian/Other	31,022	2	*	34,915	0	-	65,937	2	*
Subtotal	232,603	34	14.62	229,975	15	6.52	462,578	49	10.59
45-54									
White	127,298	24	18.85	125,851	15	11.92	253,149	39	15.41
Black	10,771	0	-	9,849	0	-	20,620	0	-
Hispanic	37,513	1	*	42,875	0	-	80,388	1	*
Asian/Other	25,465	0	-	29,937	0	-	55,402	0	-
Subtotal	201,047	25	12.43	208,512	16	7.67	409,559	41	10.01

* Rate not calculated on less than five incidents.

** Totals and subtotals include five with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2004/05; Population Estimates, SANDAG

**Table 5.13: Sports/Recreation Injuries by Age Group, Race/Ethnicity and Gender
(Continued)**

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	90,197	11	12.20	91,880	5	5.44	182,077	16	8.79
Black	5,094	0	-	5,517	0	-	10,611	0	-
Hispanic	18,139	1	*	22,797	1	*	40,936	2	*
Asian/Other	14,751	1	*	18,573	1	*	33,324	2	*
Subtotal	128,181	14	10.92	138,767	7	5.04	266,948	21	7.87
65-74									
White	51,732	2	*	57,962	0	-	109,694	2	*
Black	2,951	0	-	3,308	0	-	6,259	0	-
Hispanic	10,133	1	*	13,992	0	-	24,125	1	*
Asian/Other	8,909	0	-	12,871	0	-	21,780	0	-
Subtotal	73,725	3	*	88,133	0	-	161,858	3	*
75-84									
White	39,712	2	*	54,627	0	-	94,339	2	*
Black	1,323	0	-	1,836	0	-	3,159	0	-
Hispanic	5,751	0	-	8,381	0	-	14,132	0	-
Asian/Other	5,174	0	-	7,278	0	-	12,452	0	-
Subtotal	51,960	2	*	72,122	0	-	124,082	2	*
85+									
White	14,800	0	-	25,514	0	-	40,314	0	-
Black	325	0	-	688	0	-	1,013	0	-
Hispanic	1,496	0	-	2,705	0	-	4,201	0	-
Asian/Other	1,242	0	-	2,022	0	-	3,264	0	-
Subtotal	17,863	0	-	30,929	0	-	48,792	0	-
Total**	1,520,696	295	19.40	1,518,581	104	6.85	3,039,277	399	13.13

* Rate not calculated on less than five incidents.

** Totals and subtotals include five with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2004/05; Population Estimates, SANDAG

Abbreviated Injury Scale (AIS): A scale created to describe individual traumatic injuries. AIS scores obtain a value from each of 6 body areas: 1) head or neck; 2) face; 3) chest; 4) abdomen/pelvic contents; 5) extremities/pelvic girdle; and 6) external. 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	person involved in a motor vehicle collision who was on foot, or in or operating a pedestrian conveyance, e.g., baby carriage, roller skates, wheelchair, scooter, skateboard.
Other vehicle	railway accident motor vehicle other or unknown 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

Technical Notes

	self inflicted suicide attempt, other
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". undetermined intent of injury

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 2001.

Rate: Calculated as incidence per 100,000 population. Rates were calculated using January 2001 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 an ambulance 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 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. $YPLL = (\text{Expected years of life} - \text{median age}) \times \text{Number of deaths}$

Table A.1: Leading Causes of Death and Severe Injury by San Diego MSA

MSA	Rank	Death	Rank	Severe Injury
Central	1	Homicide	1	Assaults
	2	Fall	2	Fall
	3	Suicide	3	MV Occupant
North City	1	Fall	1	Fall
	2*	Suicide; MV Occupant	2	MV Occupant
			3	Assaults
South Suburban	1	MV Occupant	1*	Fall; MV Occupant
	2*	Suicide; Fall		
			3	Assault
East Suburban	1	MV Occupant	1	MV Occupant
	2	Fall	2	Fall
	3	Suicide	3	Assault
North County West	1	MV Occupant	1	MV Occupant
	2	Suicide	2	Fall
	3	Fall	3	Assault
North County East	1	MV Occupant	1	MV Occupant
	2	Fall	2	Fall
	3	Suicide	3	Assault
East County	1	MV Occupant	1	MV Occupant
	2	Motorcycle	2*	Fall; Sport/Rec; Motorcycle
	3	Suicide		
San Diego County Total	1	MV Occupant	1	MV Occupant
	2	Fall	2	Fall
	3	Suicide	3	Assault

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 2004/05

* Indicates a tie

Table A.2: 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	MV Occupant	1	Falls
	2*	Pedalcycle; Sport/Rec	2	Sport/Rec
			3	MV Occupant
10-14	1	MV Occupant;	1	Sport/Rec
	2*	Motorcycle; Pedestrian	2*	MV Occupant;
				Pedalcycle
15-19	1	Homicide	1	MV Occupant
	2	MV Occupant	2	Assaults
	3	Suicide	3	Sport/Rec
20-24	1	MV Occupant	1	MV Occupant
	2	Homicide	2	Assault
	3	Motorcycle	3	Motorcycle
25-34	1	MV Occupant	1	MV Occupant
	2	Suicide	2	Assault
	3*	Homicide; Pedestrian	3	Falls
35-44	1	Suicide	1	MV Occupant
	2	MV Occupant	2	Assaults
	3	Homicide	3	Falls
45-54	1	Suicide	1	MV Occupant
	2	MV Occupant	2	Falls
	3	Falls	3	Assaults
55-64	1	Falls	1	Falls
	2	Suicide	2	MV Occupant
	3	MV Occupant	3	Pedestrian
65-74	1	Falls	1	Falls
	2	Suicide	2	MV Occupant
	3	MV Occupant	3	Pedestrian
75-84	1	Falls	1	Falls
	2	MV Occupant	2	MV Occupant
	3	Suicide	3	Pedestrian
85+	1	Falls	1	Falls
	2	MV Occupant	2	MV Occupant
	3	Suicide	3	Pedestrian; Other Vehicle

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 2004/05

* Indicates a tie.

Table B.1: Transportation Related Injuries and Deaths 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	167,094	54	11	6	2	13	1
	Peninsula	61,972	3	1	1	0	0	0
	Coronado	26,902	5	0	2	0	3	0
	National City	63,478	34	0	3	1	6	0
	Southeast San Diego	159,283	24	2	5	0	3	0
	Mid-City	168,670	43	7	11	1	3	1
	TOTAL	647,399	163	21	28	4	28	2
NORTH CITY	Kearny Mesa	150,873	24	10	8	3	2	1
	Coastal	77,793	8	0	5	0	6	2
	University	54,973	1	3	1	0	1	0
	Del Mar-Mira Mesa	150,992	13	7	4	1	2	1
	North San Diego	97,134	3	3	0	0	0	0
	Poway	88,793	1	3	0	0	1	1
	Miramar	7,016	3	0	2	2	1	0
	Elliott-Navajo	89,769	6	5	1	1	2	1
	TOTAL	717,343	59	31	21	7	15	6
SOUTH SUBURBAN	Sweetwater	110,855	13	2	5	1	3	0
	Chula Vista	113,403	61	8	5	1	3	0
	South Bay	136,816	22	4	4	1	1	1
	TOTAL	361,074	96	14	14	3	7	1
EAST SUBURBAN	Jamul	14,539	22	12	14	3	1	0
	Spring Valley	81,148	22	3	4	0	1	0
	Lemon Grove	29,769	8	0	5	0	1	0
	La Mesa	57,791	15	2	1	0	4	0
	El Cajon	122,259	12	5	1	0	3	0
	Santee	52,646	7	1	3	1	0	0
	Lakeside	55,943	19	3	1	1	1	0
	Harbison Crest	14,797	8	1	2	0	1	0
	Alpine	14,983	7	5	2	0	0	1
	Ramona	35,376	8	6	6	1	1	0
TOTAL	479,251	128	38	39	6	13	1	
NORTH COUNTY WEST	San Dieguito	92,403	23	3	6	1	6	0
	Carlsbad	107,511	20	10	11	1	4	0
	Oceanside	164,805	53	9	14	0	3	0
	Pendleton	32,370	6	2	1	0	0	0
	TOTAL	397,089	102	24	32	2	13	0
NORTH COUNTY EAST	Escondido	156,585	8	7	2	2	3	1
	San Marcos	83,583	1	1	0	1	0	0
	Vista	100,247	14	4	1	0	0	0
	Valley Center	22,021	7	5	0	1	0	0
	Pauma	6,818	4	4	2	2	1	0
	Fallbrook	47,844	5	7	0	1	2	0
	TOTAL	417,098	39	28	5	7	6	1
EAST COUNTY	Palomar-Julian	5,643	1	1	3	2	0	0
	Laguna-Pine Valley	5,093	0	0	1	2	1	0
	Mountain Empire	5,968	16	11	5	0	0	0
	Anza-Borrego Springs	3,319	0	3	0	4	0	0
	TOTAL	20,023	17	15	9	8	1	0
OTHER/UNKNOWN			968	19	272	7	135	0
TOTAL	3,039,277	1,572	190	420	44	218	11	

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 2004/05; Population Estimates, SANDAG

Appendix B

Table B.1: Transportation Related Injuries and Deaths by Mechanism and San Diego County Subregional Area (Continued)

MSA	SRA	Population	Pedestrian		Other Vehicle		Overall Total
			Injury	Death	Injury	Death	
CENTRAL	CentralSanDiego	167,094	12	2	6	4	111
	Peninsula	61,972	0	1	1	0	7
	Coronado	26,902	2	0	1	0	13
	NationalCity	63,478	6	0	4	0	54
	SoutheastSanDiego	159,283	9	3	7	0	53
	Mid-City	168,670	21	6	6	0	99
	TOTAL	647,399	50	12	25	4	337
NORTH CITY	KearnyMesa	150,873	3	1	0	1	53
	Coastal	77,793	9	5	2	0	37
	University	54,973	1	1	0	0	8
	DelMar-MiraMesa	150,992	2	1	6	0	37
	NorthSanDiego	97,134	0	1	0	1	8
	Poway	88,793	0	0	0	0	6
	Miramar	7,016	0	0	0	1	9
	Elliott-Navajo	89,769	1	2	0	0	19
TOTAL	717,343	16	11	8	3	177	
SOUTH SUBURBAN	Sweetwater	110,855	0	0	4	0	28
	ChulaVista	113,403	12	1	6	0	97
	SouthBay	136,816	7	2	2	0	44
	TOTAL	361,074	19	3	12	0	169
EAST SUBURBAN	Jamul	14,539	0	1	3	5	61
	SpringValley	81,148	3	1	2	0	36
	LemonGrove	29,769	3	2	1	0	20
	LaMesa	57,791	2	0	1	0	25
	ElCajon	122,259	0	1	3	2	27
	Santee	52,646	2	0	0	1	15
	Lakeside	55,943	3	0	1	0	29
	HarbisonCrest	14,797	1	2	0	0	15
	Alpine	14,983	2	1	0	0	18
	Ramona	35,376	1	0	2	0	25
TOTAL	479,251	17	8	13	8	271	
NORTH COUNTY WEST	SanDieguito	92,403	5	1	4	0	49
	Carlsbad	107,511	4	2	5	0	57
	Oceanside	164,805	9	5	2	0	95
	Pendleton	32,370	1	0	1	0	11
	TOTAL	397,089	19	8	12	0	212
NORTH COUNTY EAST	Escondido	156,585	1	4	0	1	29
	SanMarcos	83,583	0	3	0	2	8
	Vista	100,247	3	3	0	0	25
	ValleyCenter	22,021	0	0	1	0	14
	Pauma	6,818	0	0	0	0	13
	Fallbrook	47,844	0	0	1	0	16
	TOTAL	417,098	4	10	2	3	105
EAST COUNTY	Palomar-Julian	5,643	0	0	0	0	7
	Laguna-PineValley	5,093	0	0	0	0	4
	MountainEmpire	5,968	1	1	2	0	36
	Anza-BorregoSprings	3,319	0	0	2	0	9
	TOTAL	20,023	1	1	4	0	56
OTHER/UNKNOWN			186	2	142	2	1,733
TOTAL		3,039,277	312	55	218	20	3,060

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 2004/05; Population Estimates, SANDAG

**Table C.1: San Diego County Population Breakdown
by Age Group, Gender and Race/Ethnicity
January 1, 2005**

		Males	Females	Total
Under 5	White	43,707	43,652	87,359
	Black	6,275	5,933	12,208
	Hispanic	45,931	45,354	91,285
	Asian/Other	17,397	16,530	33,927
5 to 9	White	39,213	41,032	80,245
	Black	6,158	5,885	12,043
	Hispanic	35,703	35,527	71,230
	Asian/Other	16,330	15,275	31,605
10 to 14	White	43,295	42,926	86,221
	Black	7,093	6,825	13,918
	Hispanic	44,001	41,924	85,925
	Asian/Other	16,098	15,096	31,194
15 to 19	White	51,840	46,699	98,539
	Black	7,798	6,721	14,519
	Hispanic	43,058	39,064	82,122
	Asian/Other	17,570	16,636	34,206
20 to 24	White	59,617	42,465	102,082
	Black	9,250	6,074	15,324
	Hispanic	47,274	38,578	85,852
	Asian/Other	18,655	16,893	35,548
25-34	White	105,155	92,024	197,179
	Black	14,042	10,864	24,906
	Hispanic	85,512	81,283	166,795
	Asian/Other	34,345	36,883	71,228
35-44	White	124,839	116,641	241,480
	Black	14,724	12,500	27,224
	Hispanic	62,018	65,919	127,937
	Asian/Other	31,022	34,915	65,937
45-54	White	127,298	125,851	253,149
	Black	10,771	9,849	20,620
	Hispanic	37,513	42,875	80,388
	Asian/Other	25,465	29,937	55,402
55-64	White	90,197	91,880	182,077
	Black	5,094	5,517	10,611
	Hispanic	18,139	22,797	40,936
	Asian/Other	14,751	18,573	33,324
65-74	White	51,732	57,962	109,694
	Black	2,951	3,308	6,259
	Hispanic	10,133	13,992	24,125
	Asian/Other	8,909	12,871	21,780
75-84	White	39,712	54,627	94,339
	Black	1,323	1,836	3,159
	Hispanic	5,751	8,381	14,132
	Asian/Other	5,174	7,278	12,452
85+	White	14,800	25,514	40,314
	Black	325	688	1,013
	Hispanic	1,496	2,705	4,201
	Asian/Other	1,242	2,022	3,264
Total		1,520,696	1,518,581	3,039,277

Source: San Diego Association of Governments (SANDAG)

Figure D.1:
San Diego County
Major Statistical Areas

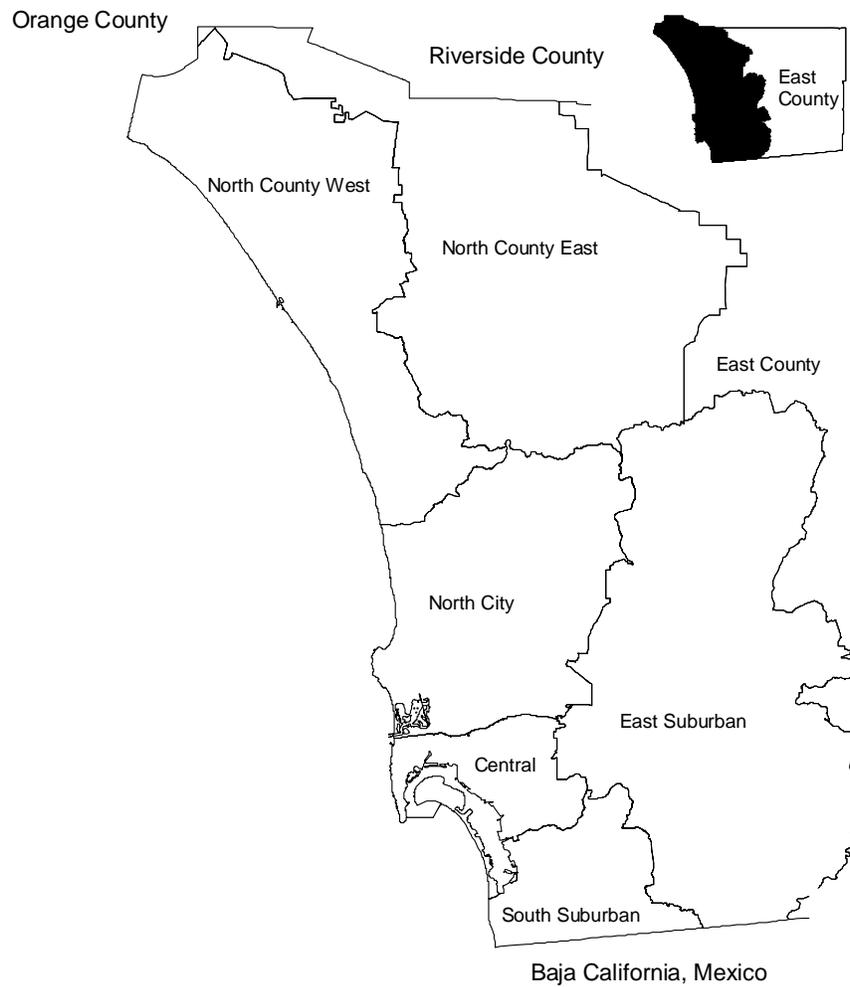
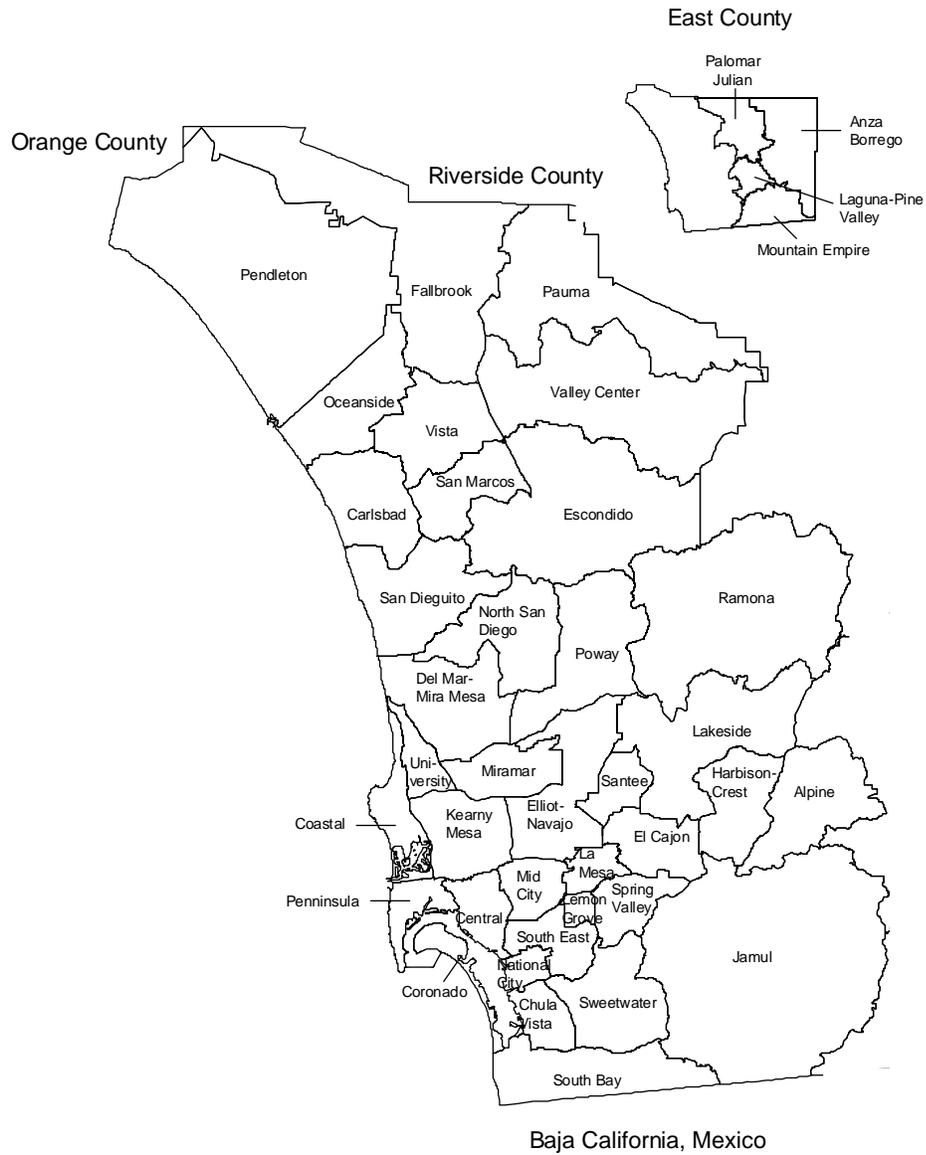


Figure D.2: San Diego County Subregional Areas



DIRECTORY

EMS AGENCY

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

Interim Chief: Marcelyn Metz, RN

Medical Director: Bruce Haynes, MD

QA Specialist – Trauma: Les Gardina, MSN, RN, PHN, CEN

CHILDREN'S HOSPITAL AND HEALTH CENTER

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

Hospital Administrator: Kathleen Sellick, CEO

Trauma Administrator: Irvin Kaufman, MD

Trauma Medical Director: Mary Hilfiger, PhD, MD, FACS

Trauma Nurse Coordinator: Sue Cox, RN, MS

SCRIPPS MERCY HOSPITAL

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, MSN, RN, CEN

Base Hospital Medical Director: Steven Zahler, MD, FACEP

Base Hospital Nurse Coordinator: Darlene Bourdon, RN.

PALOMAR MEDICAL CENTER

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

Hospital Administrator: Gerald Bracht

Trauma Administrator: Kim Colonnelli, RN, MA

Trauma Medical Director: Tom Velky, MD, FACS

Trauma Nurse Coordinator: Peggy Sale, RN, MSN, CEN

Base Hospital Medical Director: Michelle Grad, MD

Base Hospital Nurse Coordinator: Cheryl Graydon, RN, MICN

SCRIPPS MEMORIAL HOSPITAL, LA JOLLA

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

Hospital Administrator: Gary Fybel

Trauma Administrator: Michael Sykes, RN

Trauma Medical Director: Fred Simon, MD, FACS

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

Base Hospital Medical Director: Lisa Morikado, MD

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

SHARP MEMORIAL HOSPITAL

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

Hospital Administrator: Daniel Gross, RN, CEO

Trauma Administrator: Janie Kramer, RN, Vice President

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: Linda Rosenberg, RN

UNIVERSITY OF CALIFORNIA, SAN DIEGO MEDICAL CENTER

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

Hospital Administrator: Richard J. Liekweg, CEO

Trauma Administrator: Thomas Hamelin, RN

Trauma Medical Director: Raul Coimbra, MD, PhD, FACS

Trauma Nurse Coordinator (Interim): Patricia Stout, RN

Base Hospital Medical Director: Dan Davis, MD

Base Hospital Nurse Coordinator: Melody Dotson, 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, MICN

TRI-CITY MEDICAL CENTER

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

Hospital Administrator: Arthur Gonzalez

Base Hospital Medical Director: Judd Glasser, MD

Base Hospital Nurse Coordinator: Karen Majerczak, RN, CRNI