

INJURY MORTALITY AMONG ARIZONA RESIDENTS



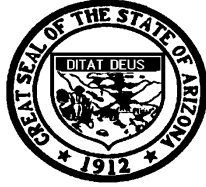
7. FIREARM-RELATED DEATHS

ARIZONA, 1993-2003

Public Health Services
Bureau of Public Health Statistics
Health Status and Vital Statistics Section



~ Leadership for a Healthy Arizona ~



Janet Napolitano, Governor
State of Arizona

Catherine R. Eden, Director
Arizona Department of Health Services

HEALTH STATUS AND VITAL STATISTICS SECTION
BUREAU OF PUBLIC HEALTH STATISTICS
ARIZONA DEPARTMENT OF HEALTH SERVICES
150 N. 18th Avenue, Suite 550
Phoenix, Arizona 85007-3248
Phone: 602/542-7333; FAX: 602/542-2940
www.azdhs.gov/plan

This publication can be made available in alternative format.
Please contact the Bureau of Public Health Statistics
at 602/542-7333 (voice) or call 1-800-367-8939 (TDD).

*The Arizona Department of Health Services is
an Equal Employment Opportunity Agency.*

*Permission to quote from or reproduce materials from this
publication is granted when due acknowledgment is made.*

INJURY MORTALITY AMONG ARIZONA RESIDENTS

**FIREARM-RELATED
DEATHS**

ARIZONA, 1993-2003

BY

CHRISTOPHER K. MRELA, PH.D., *ASSISTANT REGISTRAR OF VITAL STATISTICS*

January 2005

Acknowledgment

Grateful acknowledgement is made to Richard S. Porter for reviewing the typescript.

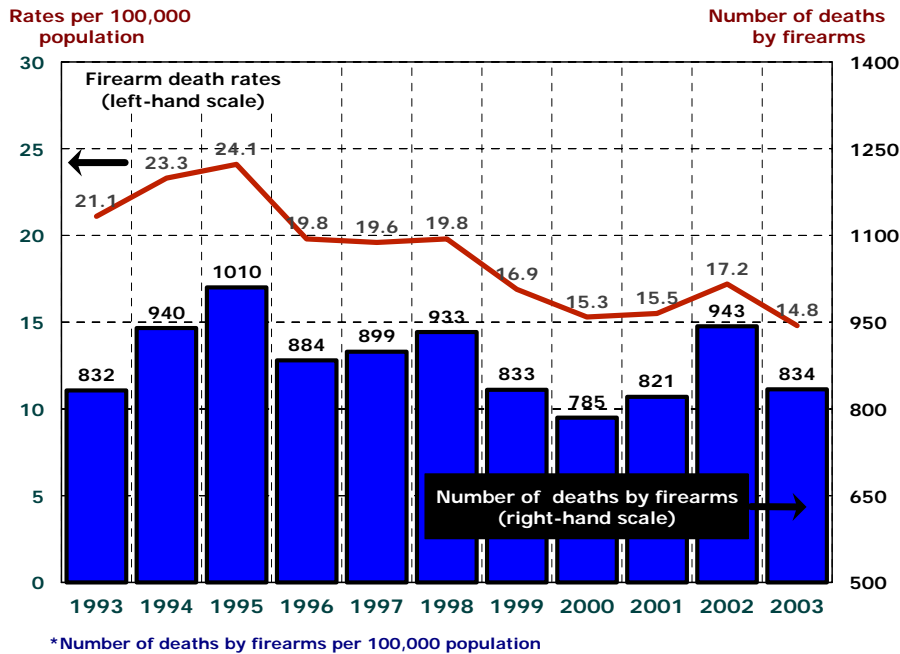
FIREARM-RELATED DEATHS, ARIZONA, 1993-2003

TABLE OF CONTENTS

Key Findings/Figures	1-6
Data Tables	7-21
7-1 Death rates by age group and year for injury by firearms, Arizona, 1993-2003	7
7-2 Rates of firearm-related deaths by county of residence and year, Arizona, 1993-2003	8
7-3 Number of suicides by firearms and total suicides by age group and year, Arizona residents, 1993-2003	9
7-4 Number of homicides by firearms and total homicides by age group and year, Arizona residents, 1993-2003	10
7-5 Number of firearm-related unintentional fatalities and all unintentional injury deaths by age group and year, Arizona, 1993-2003	11
7-6 Firearm-related death rates associated with homicide, suicide and unintentional injury among adolescents 15-19 years old, Arizona residents, 1993-2003 and United States, 1993-2002	12
7-7 Number of firearm-related fatalities by intent, age group and year, Arizona residents, 1993-2003	13
7-8 Number of firearm-related fatalities by race/ethnicity and year, Arizona residents, 1993-2003	14
7-9 Number of firearm-related fatalities by race/ethnicity, gender and year, Arizona residents, 1993-2003	15
7-10 Number of firearm-related fatalities by cause and gender, by year, Arizona residents, 1993-2003	16
7-11 Number of deaths by firearms, by county of residence and year, Arizona, 1993-2003	17
7-12 Number of firearm-related deaths by 5-year age group and year, Arizona residents, 1993-2003	18
7-13 Number of deaths by firearms, by intent and age group and, rates of firearm-related fatalities in urban and rural areas, Arizona residents, 2003	19
7-14 Number of firearm-related fatalities by intent, age group and race/ethnicity, Arizona residents, 2003.....	20
7-15 Number of deaths by firearms and rates of firearm-related fatalities by gender and age group, Arizona residents, 2003	21

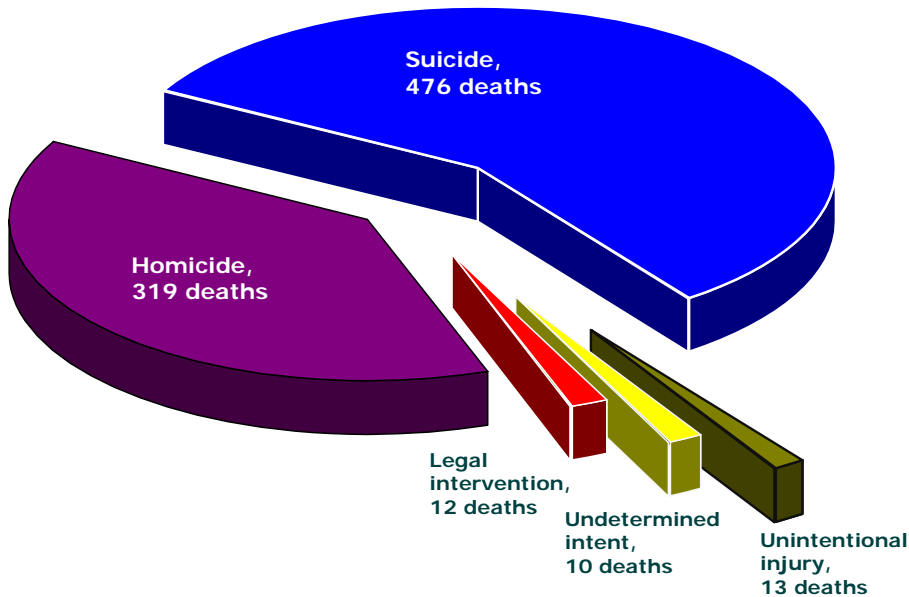
KEY FINDINGS

Figure 7-1
Trends in the Number of Deaths and Mortality Rates*
for Injury by Firearms, Arizona, 1993-2003



The number of firearm-related fatalities decreased in Arizona by 11.6 percent, from 943 in 2002 to 834 in 2003 (**Figure 7-1**). The Arizona firearm-related mortality rate decreased by 14 percent from 17.2 firearm-related deaths per 100,000 persons in 2002 to 14.8/100,000 in 2003. The latter was the lowest firearm-related mortality rate in the eleven-year period from 1993 to 2003.

Figure 7-2
Number of Firearm-Related Deaths by Cause
Among Arizona Residents, 2003

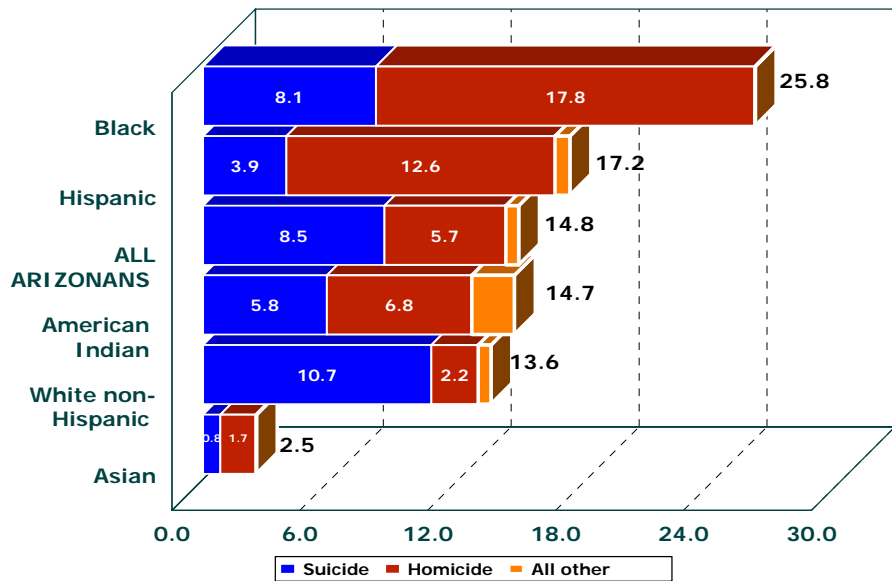


All but a small fraction of firearm-related fatalities are intentionally inflicted. Among 834 firearm related deaths in 2003, 13 (or 1.6 percent) were classified as unintentionally inflicted firearm injuries, 476 (57.1 percent) as suicides, 319 (38.2 percent) as homicides, 12 (1.4 percent) were fatal injuries inflicted by the police or other law-enforcement agents, and 10 (1.2 percent) were undetermined whether the injury was accidentally or purposely inflicted.

FIREARM-RELATED DEATHS, ARIZONA, 1993-2003

KEY FINDINGS

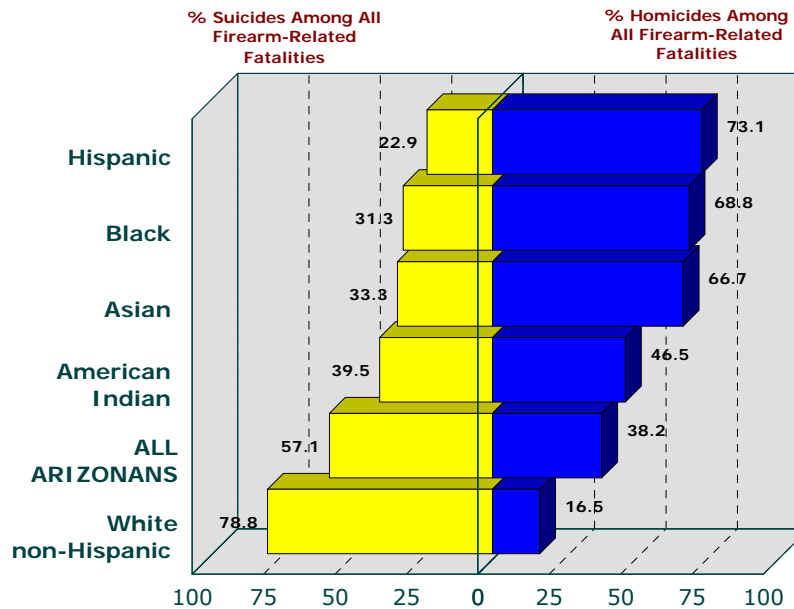
Figure 7-3
Firearm-Related Death Rates by Ethnic Group and Intent, Arizona, 2003



The firearm-related death rate among Blacks (25.8/100,000) was the highest among ethnic groups in Arizona in 2003 (Figure 7-3). It exceeded the corresponding rates for Asian, White non-Hispanic, American Indian, and Hispanic residents of Arizona by 932, 90, 76 and 50 percent respectively

*Number of firearm-related deaths per 100,000 persons in specified group (unadjusted for differences in the age composition).

Figure 7-4
Percent Firearm-Related Fatalities in Each Ethnic Group Attributed to Self-Inflicted Injuries in Suicide and Injuries Purposely Inflicted by Other Person in Homicide, Arizona, 2003

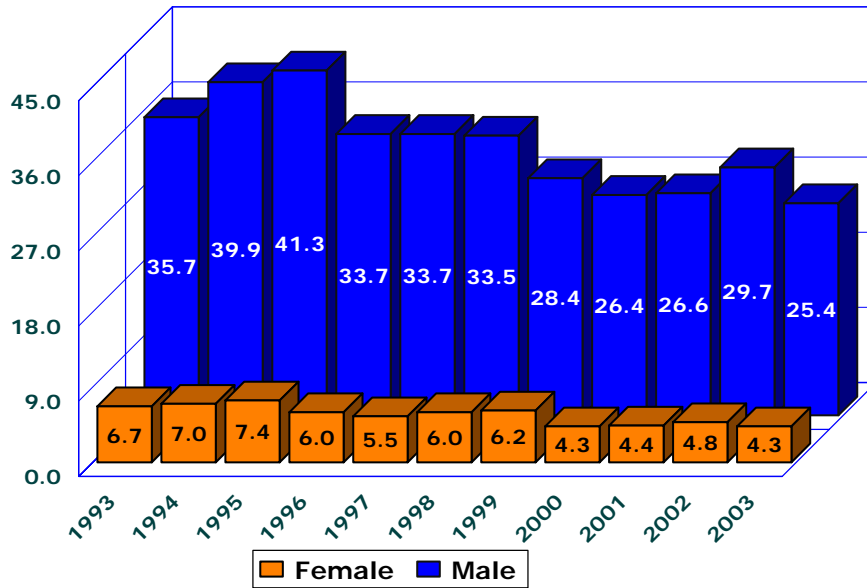


Among White non-Hispanics, firearm-related fatalities predominantly were a result of suicide (78.8 percent, Figure 7-4). In contrast, the majority of deaths from firearms were incurred in acts of homicide among Blacks (76.7 percent), Hispanics (64.7 percent) and Asians (66.7 percent). Among American Indians, firearm-related fatalities also were more likely to be incurred in acts of homicide (46.5 percent) than suicide (39.5 percent).

FIREARM-RELATED DEATHS, ARIZONA, 1993-2003

KEY FINDINGS

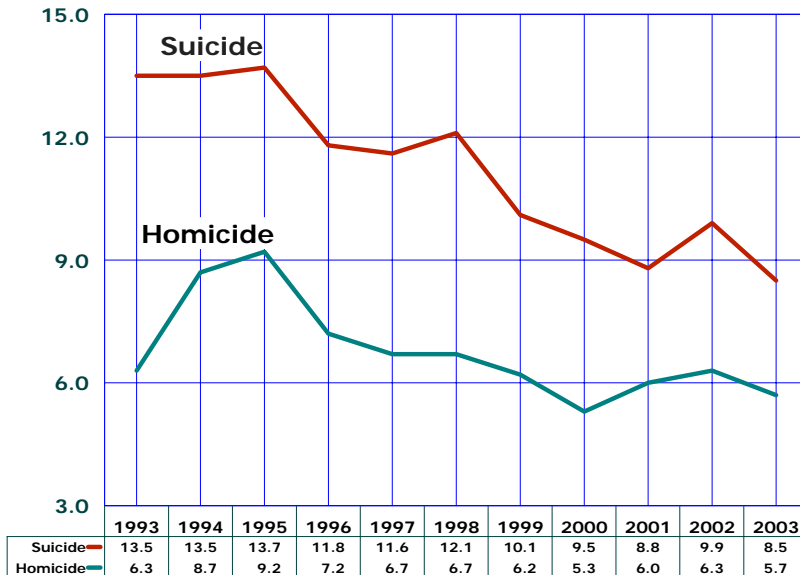
Figure 7-5
Rates* of Firearm-Related Fatalities by Gender and Year, Arizona, 1993-2003



The 2000 mortality rate from firearms among males (25.4/100,000) was 5.9 times greater than the rate of 4.3/100,000 among females (Figure 7-5).

*Number of firearm-related deaths per 100,000 persons in specified group.

Figure 7-6
Rates* of Firearm-Homicides and Firearm-Suicides by Year, Arizona, 1993-2003



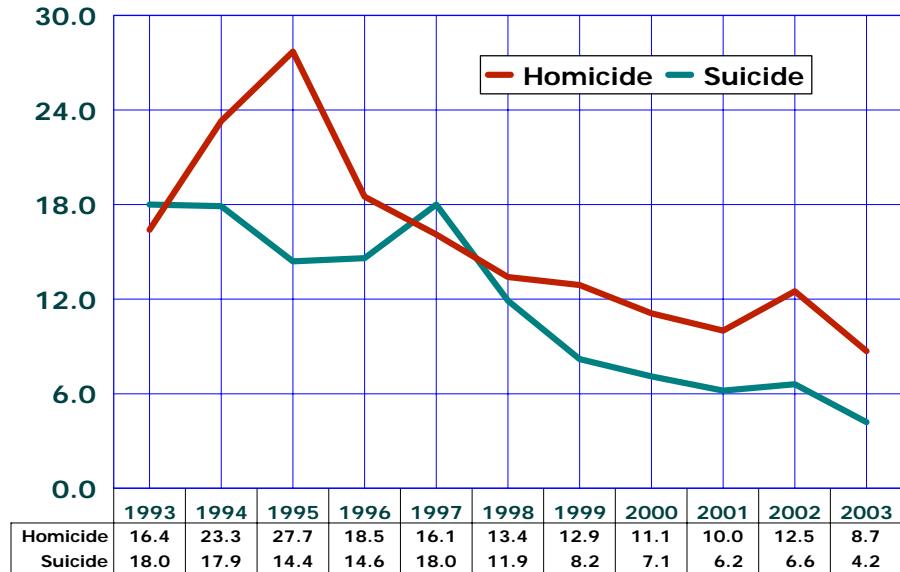
The rates of both firearm-suicides and firearm homicides declined in Arizona from 1993 to 2003 (Figure 7-6). Annual firearm-related homicide death rates among Arizona residents were at least 48 percent lower than the firearm-related suicide death rates from 1993 to 2003.

* Number of firearm-homicides and firearm-suicides per 100,000 population. The 2001 firearm-suicide rate for Arizona is from the CDC/ National Center of Injury Prevention and Control web site at http://webappa.cdc.gov/sasweb/ncipc/mortrate10_sy.html

FIREARM-RELATED DEATHS, ARIZONA, 1993-2003

KEY FINDINGS

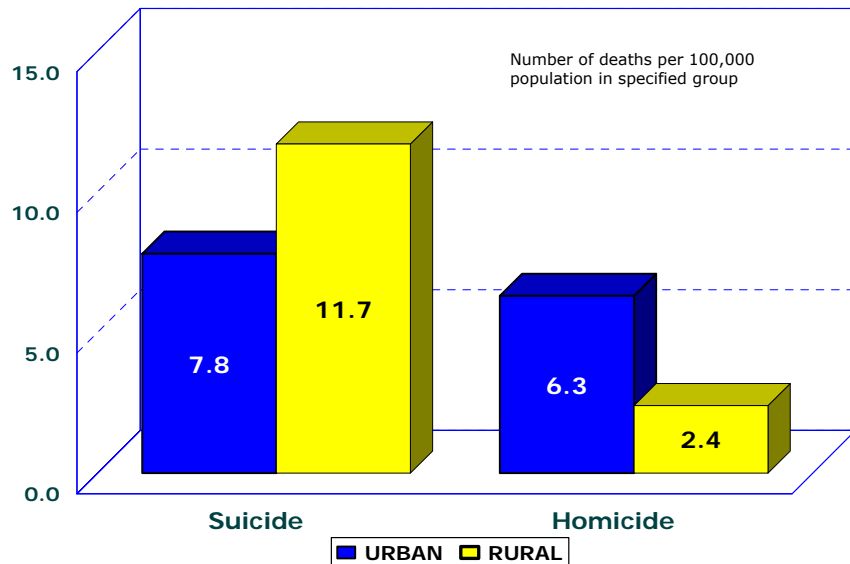
Figure 7-7
Firearm-Homicides and Firearm-Suicides Among Adolescents 15-19 Years Old, Arizona, 1993-2003



Between 1995 and 2003, the total firearm death rate among teenagers 15-19 years old decreased by 68.9 percent from 45.3 to 14.1 fatalities per 100,000 persons in this age group in 2003 (Table 7-1). The firearm-homicide rate decreased from 27.7 per 100,000 in 1995 to 8.7/100,000 in 2003 (Figure 7-7). At the same time, the rate for firearm-suicide decreased by 76.7 percent from a recent peak of 18.0/100,000 in 1997 to 4.2/100,000 in 2003.

*Number of firearm-homicides and firearm-suicides per 100,000 adolescents 15-19 years old. The 2001 firearm-suicide rate for Arizona is from the CDC/ National Center of Injury Prevention and Control web site at http://webappa.cdc.gov/sasweb/ncipc/mortrate10_sy.html

Figure 7-8
Mortality Rates for Firearm-Suicides and Firearm-Homicides by Urban*/Rural Area, Arizona, 2003

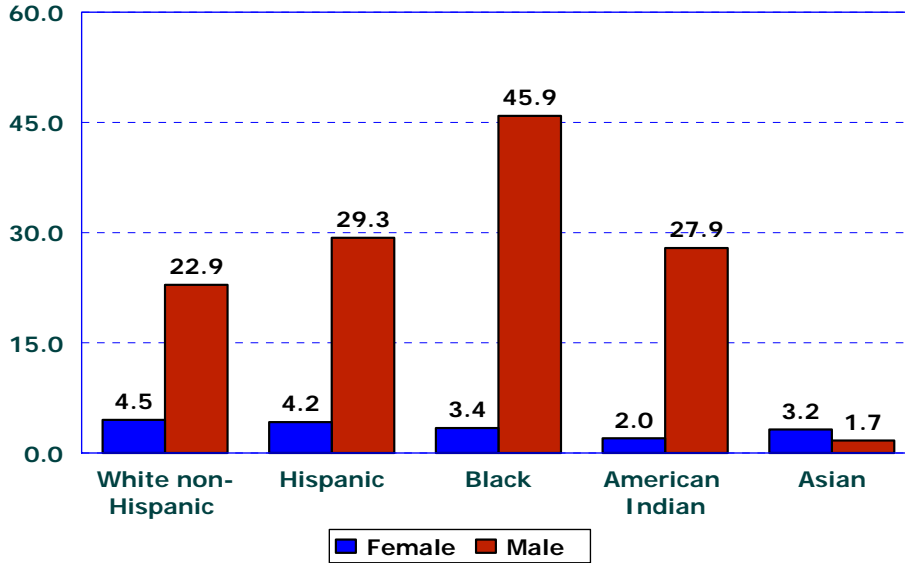


In 2000, firearm-suicides were 1.5 times more likely among rural compared to urban residents of Arizona. In contrast, urban residents were 2.6 times more likely to be fatally assaulted by firearms (Figure 7-8).

*Maricopa, Pima, Pinal and Yuma counties. The remaining counties comprise Arizona's rural areas.

KEY FINDINGS

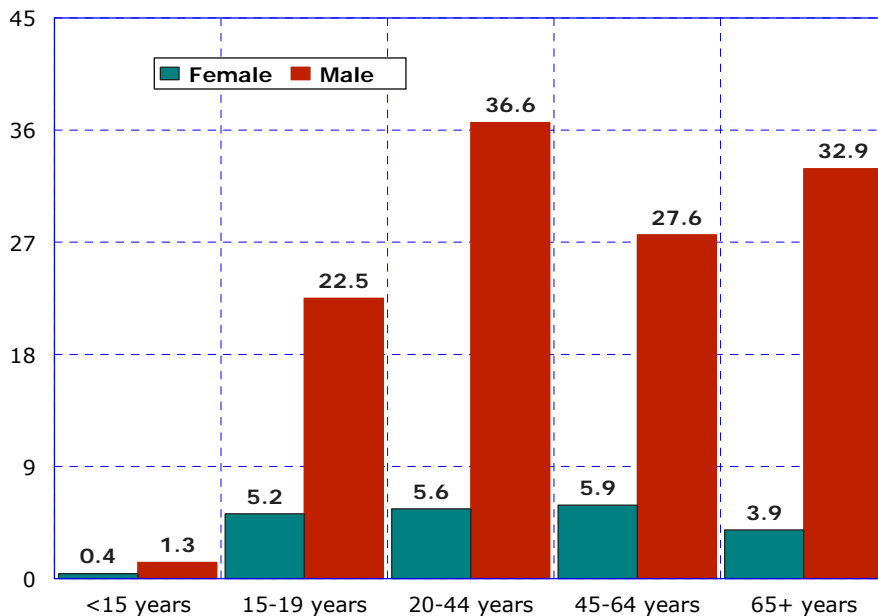
Figure 7-9
Firearm-Related Death Rates* by Gender and Race/Ethnicity, Arizona, 2003



Particularly high gender ratios in firearm mortality were evident in 2003 for American Indians (male rate of 27.9/100,000 was 14 times the rate of 2.0/100,000 for females, Figure 7-9).

*Number of deaths per 100,000 population in specified group

Figure 7-10
Firearm-Related Death Rates* by Age Group and Gender, Arizona, 2003



Among males, the 2003 firearm mortality curve by age was bimodal (Figure 7-10), reaching the first peak at ages 20-44 (36.6/100,000), tapering off to 27.6/100,000 at ages 45-64, and rising to a second peak among the elderly 65 years and older (32.9 per 100,000). The female firearm death rate was highest for those 45-64 years old (5.9/100,000).

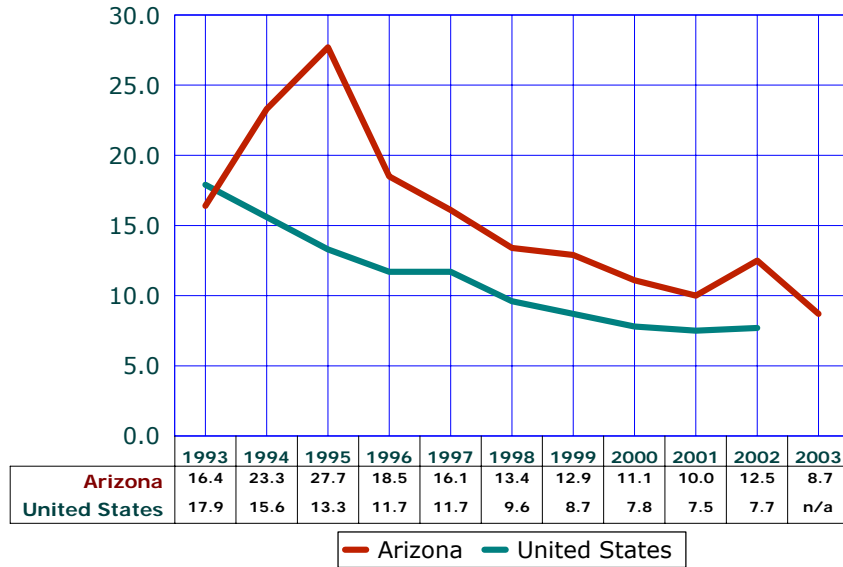
*Number of deaths per 100,000 population in specified group

FIREARM-RELATED DEATHS, ARIZONA, 1993-2003

KEY FINDINGS

Figure 7-11
Firearm Related Death Rates Associated with Homicide
Among Adolescents 15-19 Years Old,
Arizona 1993-2003 and United States 1993-2000 *

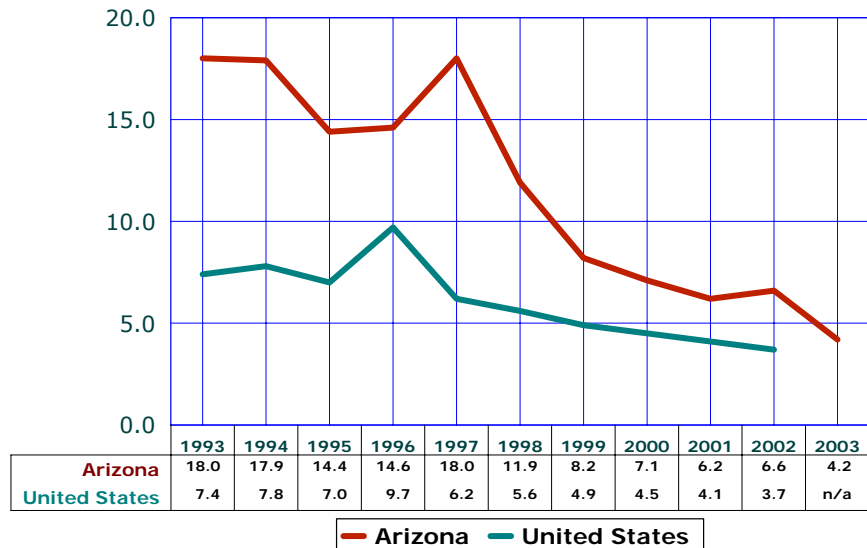
Relative to their peers nationally, Arizona adolescents 15-19 years old were more likely to be fatally assaulted by firearms in each year from 1994 to 2002 (Figure 7-11). In 1995, the firearm homicide rate for Arizona adolescents was 2.1 greater than the rate for their peers nationally. In 2003, the Arizona rate for adolescents 15-19 years old exceeded the latest U.S. rate by a mere 13 percent.



*The latest year for which the U.S. data are available.

Figure 7-12
Firearm Related Death Rates Associated with
Suicide Among Adolescents 15-19 Years Old,
Arizona 1993-2003 and United States 1993-2002*

Relative to their peers nationally, Arizona adolescents 15-19 years old were more likely to kill themselves using a firearm in each year from 1993 to 2002 (Figure 7-12). Nationally, the rate of firearm suicides among adolescents 15-19 years old dropped by 61.9 percent between 1996 and 2002. In Arizona, the 2003 rate of 4.2 firearm suicides per 100,000 adolescents 15-19 years old was 76.7 percent than the peak rate of 18.0/100,000 recorded in 1997.



*The latest year for which the U.S. data are available. The 2001 firearm-suicide rate for Arizona is from the CDC/ National Center of Injury Prevention and Control web site at http://webappa.cdc.gov/sasweb/ncipc/mortrate10_sy.html

**TABLE 7-1
DEATH RATES^a BY AGE GROUP AND YEAR FOR INJURY BY FIREARMS,
ARIZONA RESIDENTS, 1993-2003**

Age Group	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Under 5 ^b	0.3	1.2	0.9	0.6	0.0	0.9	0.3	0.0	0.3	0.7	0.5
5-14	5.3	2.5	4.1	2.4	2.2	2.7	1.1	1.0	1.9	1.3	0.7
15-19	39.5	43.9	45.3	36.7	37.3	26.2	22.6	19.6	16.8	21.9	14.1
20-44	28.1	34.0	35.4	28.7	29.0	29.5	23.7	20.9	22.6	24.4	21.6
45-64	17.8	20.7	19.5	17.8	16.4	18.7	18.2	15.8	15.4	17.6	16.4
65 and Over	26.9	22.7	23.9	19.3	19.1	20.4	19.9	21.4	19.0	21.1	16.8
Total, all ages	21.1	23.3	24.1	19.8	19.6	19.8	16.9	15.3	15.5	17.2	14.8

a Number of deaths by firearms per 100,000 population in specified age group.

b 0-4 years old.

TABLE 7-2
RATES* OF FIREARM-RELATED DEATHS BY COUNTY OF RESIDENCE AND YEAR,
ARIZONA RESIDENTS, 1993-2003

County	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Apache	6.2	6.1	12.5	27.9	26.0	15.1	10.5	8.6	2.9	21.4	12.7
Cochise	18.5	34.6	22.8	10.5	15.4	21.1	15.3	17.8	16.8	16.1	12.7
Coconino	14.5	17.9	21.0	19.4	12.1	19.3	16.3	12.9	9.3	9.6	10.9
Gila	30.9	25.9	38.4	26.5	21.6	23.4	21.9	19.5	10.2	22.6	14.9
Graham	21.3	17.5	22.3	6.4	12.4	15.0	25.2	3.0	9.0	20.5	5.8
Greenlee	11.8	23.4	35.3	23.1	22.9	22.5	21.7	11.7	36.1	0.0	11.6
La Paz	33.2	32.7	24.2	38.5	31.9	5.2	10.4	15.2	10.1	24.6	0.0
Maricopa	20.8	22.0	24.6	18.8	18.4	18.6	16.3	13.8	16.4	16.9	15.1
Mohave	33.9	31.0	28.5	20.4	18.8	22.5	26.6	33.5	26.0	24.0	22.2
Navajo	22.0	19.3	19.3	17.8	23.4	18.5	9.6	16.4	21.0	13.8	16.4
Pima	19.7	19.5	20.4	18.2	18.8	19.6	17.3	19.0	13.7	17.9	14.8
Pinal	19.2	27.6	23.5	28.5	19.5	26.1	13.3	11.1	14.3	17.2	15.9
Santa Cruz	9.4	18.4	12.1	8.9	13.9	10.9	10.2	7.8	12.6	0.0	9.8
Yavapai	24.7	29.9	28.2	20.7	25.1	25.0	26.3	24.5	17.1	28.3	17.1
Yuma	11.3	21.2	16.3	10.4	14.0	13.7	12.2	8.1	4.3	9.4	6.3
ARIZONA	21.1	23.3	24.1	19.8	19.6	19.8	16.9	15.3	15.5	17.2	14.8

* Number of firearm-related fatalities per 100,000 population in specified group.

**TABLE 7-3
NUMBER OF SUICIDES BY FIREARMS AND TOTAL SUICIDES BY AGE GROUP AND YEAR,
ARIZONA RESIDENTS, 1993-2003**

Age Group	Cause	1993	1994	1995	1996	1997	1998	1999	2000	*2001	2002	2003
5-14	All Suicides	11	9	11	7	7	12	7	6	9	12	8
	# by Firearms	9	4	7	4	3	5	4	1	1	3	4
15-19	All Suicides	58	62	52	56	75	50	36	41	40	39	39
	# by Firearms	46	47	40	45	57	39	28	26	20	26	17
20-44	All Suicides	378	439	454	392	413	425	350	339	257	383	395
	# by Firearms	247	284	277	255	258	256	198	205	141	222	202
45-64	All Suicides	157	165	170	161	160	201	219	194	181	256	219
	# by Firearms	104	109	114	110	105	141	141	127	104	153	141
65 and Over	All Suicides	151	141	170	144	154	156	160	157	113	165	145
	# by Firearms	126	100	132	111	113	128	123	127	92	140	112
All Ages**	Total Suicides	755	816	858	762	810	845	773	737	767	855	807
	# by Firearms	532	544	571	527	537	569	495	486	468	544	476
	% by Firearms	70.5	66.7	66.6	69.2	65.1	67.3	64.0	65.9	61	63.6	57.1

* Caution must be exercised when interpreting the 2001 data. See note below.

** Includes records with unknown or unspecified age.

Note: Before data for 2000, mortality medical information was based on manual coding of an underlying death for each certificate in accordance with WHO rules, and done locally by the Office of Vital Records. Effective with the 2000 data year, cause-of-death data presented in this publication were coded by the National Center for Health Statistics, using computerized procedures of SuperMICAR (Mortality Medical Indexing and Retrieval) and ACME (Automated Classification of Medical Entities) systems. The conversion to computerized coding contributed to at least some of the breaks in comparability over time of cause-of-death statistics for drug-induced deaths, intentional self-harm (suicide), firearm-suicide, and accidental discharge of firearms:

Data year	1999		2000		2001		2002	2003
	unmodified	modified	unmodified	modified	unmodified	modified	2002	2003
Suicide	773	737	737	600	767	807	855	807
Suicide by firearms	495	486	486	358	468	476	544	476
Accidental discharge of firearms	7	11	11	114	6	13	26	13

Unprecedented decline in 2001 in the number of suicides and the equally unprecedented increase in the number of firearm deaths classified as accidental obviously are associated. Approximately 100 firearm fatalities, that would have been classified as suicides had the manual coding system been in place, were classified as accidents in 2001 because the "manner of death" was not indicated and the automated coding system defaulted to accidental injury. Table 3-1 provides two data columns for 2001: unmodified and modified for the misclassification of the underlying cause of death. The majority of firearm suicides misclassified as accidents were White non-Hispanic males. The numbers and rates used in the "modified" column for 2001 are from the WISQARS site at http://webappa.cdc.gov/sasweb/ncipc/mortrate10_sy.html

**TABLE 7-4
NUMBER OF HOMICIDES BY FIREARMS AND TOTAL HOMICIDES BY AGE GROUP AND YEAR,
ARIZONA RESIDENTS, 1993-2003**

Age Group	Cause	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Under 5	All Homicides	12	22	19	12	9	13	12	9	11	14	20
	# By Firearms	0	2	3	1	0	1	1	0	1	2	2
5-14	All Homicides	15	7	15	18	10	16	5	6	18	7	1
	# by Firearms	13	4	11	10	8	10	4	5	10	6	1
15-19	All Homicides	61	73	93	75	60	55	55	53	49	58	48
	# by Firearms	42	61	77	57	51	44	44	41	38	49	35
20-44	All Homicides	247	299	334	290	305	313	293	234	317	302	294
	# by Firearms	160	224	241	205	212	229	204	173	233	240	224
45-64	All Homicides	38	54	62	62	62	54	68	65	56	79	87
	# by Firearms	18	36	38	38	33	26	38	38	28	41	44
65 and Older	All Homicides	23	27	19	17	21	13	22	26	14	12	16
	# by Firearms	13	19	8	8	6	6	12	13	6	4	5
All ages ^a	Total Homicides	398	486	548	476	468	468	457	394	467	478	480
	# by Firearms	247	349	383	320	310	318	303	271	318	346	319
	% by Firearms	62.1	71.8	69.9	67.2	66.2	67.9	66.3	68.6	68.1	72.4	66.4

^a May include records with unknown or unspecified age.

**TABLE 7-5
NUMBER OF FIREARM-RELATED UNINTENTIONAL FATALITIES AND ALL UNINTENTIONAL INJURY DEATHS
BY AGE GROUP AND YEAR, ARIZONA RESIDENTS, 1993-2003**

Age Group	Cause	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Under 5	All Unintentional Injury Deaths	84	98	88	87	80	83	75	68	85	67	63
	# Firearm-related	1	2	0	0	0	1	0	0	0	1	0
5-14	All Unintentional Injury Deaths	78	61	87	76	83	56	50	63	69	51	67
	# Firearm-related	8	3	6	2	4	2	0	1	3	2	0
15-19	All Unintentional Injury Deaths	125	115	147	142	114	131	122	132	143	144	140
	# Firearm-related	10	2	4	4	2	2	0	1	NA	5	3
20-44	All Unintentional Injury Deaths	693	811	877	899	875	908	858	706	932	850	896
	# Firearm-related	13	10	18	6	6	10	7	5	NA	9	4
45-64	All Unintentional Injury Deaths	266	327	319	348	380	412	469	457	491	548	540
	# Firearm-related	1	4	0	0	4	1	0	2	NA	3	2
65 and Older	All Unintentional Injury Deaths	438	464	451	523	560	577	603	652	696	752	750
	# Firearm-related	0	1	0	0	1	0	0	2	NA	6	4
All Ages ^a	Total Unintentional Injury Deaths	1,686	1,879	1,973	2,092	2,106	2,182	2,192	2,087	2,430	2,416	2,466
	# Firearm-related	33	22	28	12	17	16	7	11	6	26	13
	% Firearm-related	2.0	1.2	1.4	0.6	0.8	0.9	0.3	0.5	0.2	1.1	0.5

^a May include records with unknown or unspecified age.
See footnote to Table 7-3.

TABLE 7-6
FIREARM-RELATED DEATH RATES^a ASSOCIATED WITH HOMICIDE, SUICIDE AND UNINTENTIONAL INJURY
AMONG ADOLESCENTS 15-19 YEARS OLD, ARIZONA RESIDENTS, 1993-2003 AND
UNITED STATES, 1993-2002^b

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
ARIZONA											
HOMICIDE, total	23.9	27.9	33.4	24.4	19.0	16.8	16.2	14.4	12.9	14.8	11.9
By firearms	16.4	23.3	27.7	18.5	16.1	13.4	12.9	11.1	10.0	12.5	8.7
By all other means	7.5	4.6	5.7	5.9	2.9	3.4	3.3	3.3	2.9	2.3	3.2
SUICIDE, total	22.7	23.7	18.7	18.2	23.7	15.2	10.6	11.1	10.5	9.9	9.7
By firearms	18.0	17.9	14.4	14.6	18.0	11.9	8.2	7.1	5.3	6.6	4.2
By all other means	4.7	5.8	4.3	3.6	5.7	3.3	2.4	4.0	5.2	3.3	5.5
UNINTENTIONAL INJURY, total	48.9	43.9	52.8	46.1	35.7	39.9	35.8	35.9	37.6	36.7	34.7
By firearms	3.5	0.8	1.4	1.3	0.6	0.6	0.0	0.3	1.6	1.3	0.7
By all other means	45.4	43.1	51.4	44.8	35.1	39.3	35.8	35.6	36.0	35.4	30.8
UNITED STATES											
HOMICIDE, total	20.7	20.1	18.1	15.5	13.6	11.7	10.6	9.6	9.4	9.3	N/A
By firearms	18.0	17.9	15.6	13.3	11.7	9.6	8.7	7.8	7.5	7.7	N/A
By all other means	2.7	2.2	2.5	2.2	1.9	2.1	1.9	1.8	1.9	1.6	N/A
SUICIDE, total	10.9	11.1	10.5	9.7	9.5	8.9	8.2	8.2	8.0	7.4	N/A
By firearms	7.4	7.8	7.0	6.2	6.0	5.6	4.9	4.5	4.1	3.7	N/A
By all other means	3.5	3.3	3.5	3.5	3.5	3.3	3.3	3.7	3.9	3.8	N/A

a. Number of deaths per 100,000 persons 15-19 years old.

b. Data for 1993: Injury Mortality: National Summary of Injury Mortality Data 1987-1993.

National Center for Injury Prevention and Control CDC. June 1996; Data for 1994-1997 are from the National Center for Injury Prevention and Control web site at <http://www.cdc.gov/ncipc/wisqars/>. 2002 is the latest year for which the U.S. data are available.

**TABLE 7-7
NUMBER OF FIREARM-RELATED FATALITIES BY INTENT*, AGE GROUP AND YEAR,
ARIZONA RESIDENTS, 1993-2003**

	1993	1994	1995	1996	1997	1998	1999	2000	*2001	2002	2003
<5	Accident	1	2	0	0	0	1	0	0	1	0
	Homicide	0	2	3	1	2	1	1	0	1	2
	Undetermined	0	0	0	1	0	1	0	0	0	0
	Total	1	4	3	2	2	3	3	1	1	3
		8	3	6	2	4	2	0	1	3	2
5-14	Accident	9	4	7	4	3	5	4	1	3	4
	Suicide	13	4	11	10	6	10	4	5	10	6
	Homicide	1	4	1	0	0	1	0	1	1	1
	Undetermined	0	0	0	0	0	0	0	0	0	0
	Total	31	15	25	16	13	19	8	8	15	11
15-19	Accident	10	2	4	4	2	2	0	1	6	3
	Suicide	46	47	40	45	57	39	28	26	20	26
	Homicide	42	61	77	57	51	44	44	41	38	49
	Undetermined	3	4	1	4	4	1	1	3	0	5
	Total	101	115	126	113	118	86	77	72	64	86
20-44	Accident	13	10	18	6	6	10	7	5	42	9
	Suicide	247	284	277	255	258	256	198	205	141	222
	Homicide	160	224	241	205	212	229	204	173	233	240
	Undetermined	6	6	9	3	7	6	5	2	11	6
	Total	433	531	555	480	497	513	429	391	438	488
45-64	Accident	1	4	0	0	4	1	0	2	33	3
	Suicide	104	109	114	110	105	141	141	127	104	153
	Homicide	18	36	38	38	33	26	38	38	28	41
	Undetermined	1	2	0	1	1	3	0	2	4	2
	Total	126	152	155	151	146	175	180	169	170	201
65+	Accident	0	1	0	0	1	0	0	2	30	6
	Suicide	126	100	132	111	113	128	123	127	92	140
	Homicide	13	19	8	8	6	6	12	13	6	4
	Undetermined	0	0	0	0	2	1	1	1	2	0
	Total	139	120	140	119	122	135	137	143	131	150
Unknown	Suicide	0	0	1	2	1	0	1	0	0	0
	Homicide	1	3	5	1	0	2	0	1	2	4
	Undetermined	0	0	0	0	0	0	0	1	0	0
	Total	1	3	6	3	1	2	1	2	2	4
		33	22	28	12	17	16	7	11	114	26
TOTAL	Accident	532	544	571	527	537	569	495	486	358	544
	Suicide	247	349	383	320	310	318	303	271	318	346
	Homicide	11	16	11	9	14	13	7	10	18	13
	Undetermined	9	9	17	16	21	17	21	7	13	14
	Total	832	940	1,010	884	899	933	833	785	821	943

* Caution must be exercised when interpreting the 2001 data. See footnote to Table 7-3.

**TABLE 7-8
NUMBER OF FIREARM-RELATED FATALITIES BY RACE/ETHNICITY AND YEAR,
ARIZONA RESIDENTS, 1993-2003**

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
White non-Hispanic	576	590	647	545	552	606	492	489	500	601	491
Hispanic or Latino	170	215	251	238	235	221	240	207	235	256	245
Black or African American	45	75	63	46	60	55	51	43	43	37	48
American Indian or Alaska Native	35	52	40	51	45	45	35	31	33	42	43
Asian or Pacific Islander	6	7	5	2	7	5	7	11	7	5	3
Other/Unknown	0	1	4	2	0	1	8	4	3	2	4
Total	832	940	1,010	884	899	933	833	785	821	943	834

TABLE 7-9
NUMBER OF FIREARM-RELATED FATALITIES BY RACE/ETHNICITY, GENDER AND YEAR,
ARIZONA RESIDENTS, 1993-2003

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
White non-Hispanic	Male	476	491	539	445	451	505	414	418	503	408
	Female	100	99	108	100	101	84	75	82	98	83
	Total	576	590	647	545	552	606	489	500	601	491
Hispanic or Latino	Male	149	189	219	222	220	196	187	210	233	216
	Female	21	26	32	16	15	25	20	25	23	29
	Total	170	215	251	238	235	221	207	235	256	245
Black or African American	Male	39	66	56	39	56	47	37	37	37	45
	Female	6	9	7	7	4	8	9	6	0	3
	Total	45	75	63	46	60	55	51	43	43	48
American Indian or Alaska Native	Male	30	43	33	40	40	37	27	31	33	40
	Female	5	9	7	11	5	8	4	2	9	3
	Total	35	52	40	51	45	45	31	33	42	43
Asian or Pacific Islander	Male	4	6	3	2	6	4	7	6	4	1
	Female	2	1	2	0	1	1	4	1	1	2
	Total	6	7	5	2	7	5	11	7	5	3
Other/Unknown	Male	0	1	4	2	0	1	3	3	2	4
	Female	0	0	0	0	0	0	1	0	0	0
	Total	0	1	4	2	0	1	4	3	2	4
TOTAL	Male	698	796	854	750	773	790	675	705	812	714
	Female	134	144	156	134	126	143	110	116	131	120
	Total	832	940	1,010	884	899	933	785	821	943	834

**TABLE 7-10
NUMBER OF FIREARM-RELATED FATALITIES BY CAUSE AND GENDER, BY YEAR,
ARIZONA RESIDENTS, 1993-2003**

	1993	1994	1995	1996	1997	1998	1999	2000	*2001	2002	2003
Male											
Accident	27	21	27	12	14	14	7	9	98	23	8
Suicide	459	467	480	450	463	490	430	432	311	466	414
Homicide	194	285	321	263	268	259	234	218	268	298	267
Undetermined	10	14	9	9	10	11	7	9	16	12	13
Legal intervention	8	9	17	16	18	16	21	7	12	13	12
Total	698	796	854	750	773	790	699	675	705	812	714
Female											
Accident	6	1	1	0	3	2	0	2	16	3	5
Suicide	73	77	91	77	74	79	65	54	47	78	62
Homicide	53	64	62	57	42	59	69	53	50	48	52
Undetermined	1	2	2	0	4	2	0	1	2	1	1
Legal intervention	1	0	0	0	3	1	0	0	1	1	0
Total	134	144	156	134	126	143	134	110	116	131	120
TOTAL											
Accident	33	22	28	12	17	16	7	11	114	26	13
Suicide	532	544	571	527	537	569	495	486	358	544	476
Homicide	247	349	383	320	310	318	303	271	318	346	319
Undetermined	11	16	11	9	14	13	7	10	18	13	14
Legal intervention	9	9	17	16	21	17	21	7	13	14	12
Total	832	940	1,010	884	899	933	833	785	821	943	834

* Caution must be exercised when interpreting the 2001 data. See footnote to Table 7-3.

**TABLE 7-11
NUMBER OF DEATHS BY FIREARMS, BY COUNTY OF RESIDENCE AND YEAR,
ARIZONA RESIDENTS, 1993-2003**

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Apache	4	4	8	18	17	10	7	6	2	15	9
Cochise	19	36	25	12	18	25	19	21	20	20	16
Coconino	15	19	23	22	14	23	20	15	11	12	14
Gila	13	11	17	12	10	11	11	10	6	12	8
Graham	6	5	7	2	4	5	9	1	3	7	2
Greenlee	1	2	3	2	2	2	2	1	3	0	1
Maricopa	475	515	597	496	501	521	474	423	524	558	513
Mohave	37	35	36	26	25	31	38	52	42	40	38
Navajo	18	16	16	15	20	16	9	16	21	14	17
Pima	141	143	152	142	150	160	146	160	118	159	135
Pinal	24	35	32	41	29	40	22	20	27	33	32
Santa Cruz	3	6	4	3	5	4	4	3	5	0	4
Yavapai	29	36	36	28	35	36	41	41	30	51	32
Yuma	13	25	20	13	18	18	17	13	7	16	11
La Paz	5	5	4	7	6	1	2	3	2	5	0
Unknown	29	47	30	45	45	30	12	0	0	1	2
Total	832	940	1,010	884	899	933	833	785	821	943	834

**TABLE 7-12
NUMBER OF FIREARM-RELATED DEATHS BY 5-YEAR AGE GROUP AND YEAR,
ARIZONA RESIDENTS, 1993-2003**

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<1	0	1	1	0	0	1	0	0	0	0	0
1-4	1	3	2	2	2	2	1	0	1	3	2
5-9	4	1	3	6	4	3	1	5	5	3	1
10-14	27	14	22	10	9	16	7	3	10	8	5
15-19	101	115	126	113	118	86	77	72	64	86	57
20-24	101	153	124	113	117	143	96	110	120	139	131
25-29	103	111	122	98	124	105	108	74	97	104	81
30-34	95	103	110	92	83	93	81	72	81	87	83
35-39	68	90	105	93	84	86	78	62	77	81	72
40-44	66	74	94	84	89	86	66	73	63	77	78
45-49	47	58	61	57	63	73	58	60	67	66	57
50-54	25	35	43	44	42	44	44	47	48	60	61
55-59	30	26	31	32	22	34	44	44	30	42	41
60-64	24	33	20	18	19	24	34	18	25	33	34
65-69	33	24	33	24	23	22	21	32	20	35	25
70-74	37	35	32	26	33	30	26	38	34	29	25
75-79	26	31	32	30	32	42	41	28	33	36	24
80-84	27	13	30	16	23	22	35	23	27	27	26
85-89	11	8	9	17	10	15	12	18	9	19	17
90-94	4	7	3	6	1	4	0	4	7	4	5
95-99	1	2	0	0	0	0	2	0	1	0	1
100+	0	0	1	0	0	0	0	0	0	0	0
Unknown	1	3	6	3	1	2	1	2	2	4	8
Total	832	940	1,010	884	899	933	833	785	821	943	834

**TABLE 7-13
NUMBER OF DEATHS BY FIREARMS, BY INTENT AND AGE GROUP, AND RATES* OF FIREARM-RELATED
FATALITIES IN URBAN AND RURAL AREAS, ARIZONA RESIDENTS, 2003**

	Accident	Suicide	Homicide	Undetermined	Legal intervention	Total	Rate
Urban							
<5	0	0	2	0	0	2	0.6
5-14	0	2	1	0	0	3	0.4
15-19	2	15	34	1	0	52	15.7
20-44	4	161	209	6	6	386	21.8
45-64	2	98	37	3	3	143	15.1
65+	3	88	4	2	0	97	16.5
Unknown	0	0	8	0	0	8	N/A
Total	11	364	295	12	9	691	14.8
Rate	0.2	7.8	6.3	0.2	0.2	14.8	
Rural							
<5	0	0	0	0	0	0	NA
5-14	0	2	0	1	0	3	2.0
15-19	1	2	1	0	1	5	7.0
20-44	0	41	14	1	2	58	19.9
45-64	0	42	7	0	0	49	21.9
65+	1	24	1	0	0	26	17.9
Total	2	111	23	2	3	141	14.9
Rate	0.2	11.7	2.4	0.2	0.3	14.9	
Total							
<5	0	0	2	0	0	2	0.5
5-14	0	4	1	1	0	6	0.7
15-19	3	17	35	1	1	57	14.1
20-44	4	202	224	7	8	445	21.6
45-64	2	141	44	3	3	193	16.4
65+	4	112	5	2	0	123	16.8
Unknown	0	0	8	0	0	8	N/A
Total	13	476	319	14	12	834	14.8
Rate	0.2	8.5	5.7	0.2	0.2	14.8	

* Number of deaths per 100,000 persons in specified group.

**TABLE 7-14
NUMBER OF FIREARM-RELATED FATALITIES BY INTENT, AGE GROUP AND RACE/ETHNICITY,
ARIZONA RESIDENTS, 2003**

		Accident	Suicide	Homicide	Undetermined	Legal intervention	Total
White non-Hispanic	<5	0	0	1	0	0	1
	5-14	0	3	0	0	0	3
	15-19	0	12	6	0	0	18
	20-44	3	134	43	5	2	187
	45-64	2	128	24	3	3	160
	65+	3	110	5	2	0	120
	Unknown	0	0	2	0	0	2
	Total	8	387	81	10	5	491
	Rate*	0.2	10.7	2.2	0.3	0.1	13.6
Hispanic	5-14	0	0	1	0	0	1
	15-19	0	0	1	0	0	1
	20-44	3	0	23	1	0	27
	45-64	1	45	141	1	4	192
	65+	0	11	12	0	0	23
	Unknown	0	0	1	0	0	1
	Total	4	56	179	2	4	245
		Rate*	0.3	3.9	12.6	0.1	0.3
Black	<5	0	1	0	0	0	1
	15-19	0	0	3	0	0	3
	20-44	0	13	25	0	0	38
	45-64	0	1	4	0	0	5
	Total	0	15	33	0	0	48
		Rate*	0.0	8.1	17.8	0.0	0.0
American Indian	<5	0	0	0	0	0	0
	5-14	0	0	0	1	0	1
	15-19	0	5	3	0	1	9
	20-44	0	9	13	1	2	25
	45-64	0	1	4	0	0	5
	65+	1	2	0	0	0	3
	Total	1	17	20	2	3	43
		Rate*	0.3	5.8	6.8	0.7	1.0
Asian	15-19	0	0	0	0	0	0
	20-44	0	1	2	0	0	3
	45-64	0	0	0	0	0	0
	65+	0	0	0	0	0	0
	Total	0	1	2	0	0	3
		Rate*	0.0	0.8	1.7	0.0	0.0
TOTAL	<5	0	0	2	0	0	2
	5-14	0	4	1	1	0	6
	15-19	3	17	35	1	1	57
	20-44	4	202	224	7	8	445
	45-64	2	141	44	3	3	193
	65+	4	112	5	2	0	123
	Unknown	0	0	8	0	0	8
	Total	13	476	319	14	12	834
		Rate*	0.2	8.5	5.7	0.2	0.2

* Number of firearm death per 100,000 persons in specified group.

Note: Rates based on fewer than 10 deaths are not statistically reliable.

**TABLE 7-15
NUMBER OF DEATHS BY FIREARMS AND RATES^a OF FIREARM-RELATED FATALITIES BY GENDER AND AGE GROUP,
ARIZONA RESIDENTS, 2003**

Age Group	MALE		FEMALE		TOTAL	
	Number	Rate	Number	Rate	Number	Rate
<5	1	0.5	1	0.5	2	0.5
5-14	5	1.2	1	0.2	6	0.7
15-19	47	22.5	10	5.2	57	14.1
20-44	389	36.6	56	5.6	445	21.6
45-64	157	27.6	36	5.9	193	16.4
65+	107	32.9	16	3.9	123	16.8
Unknown	8	NA	0	0.0	8	NA
Total	714	25.4	120	4.3	834	14.8

^a Number of firearm-related fatalities per 100,000 population in specified group.