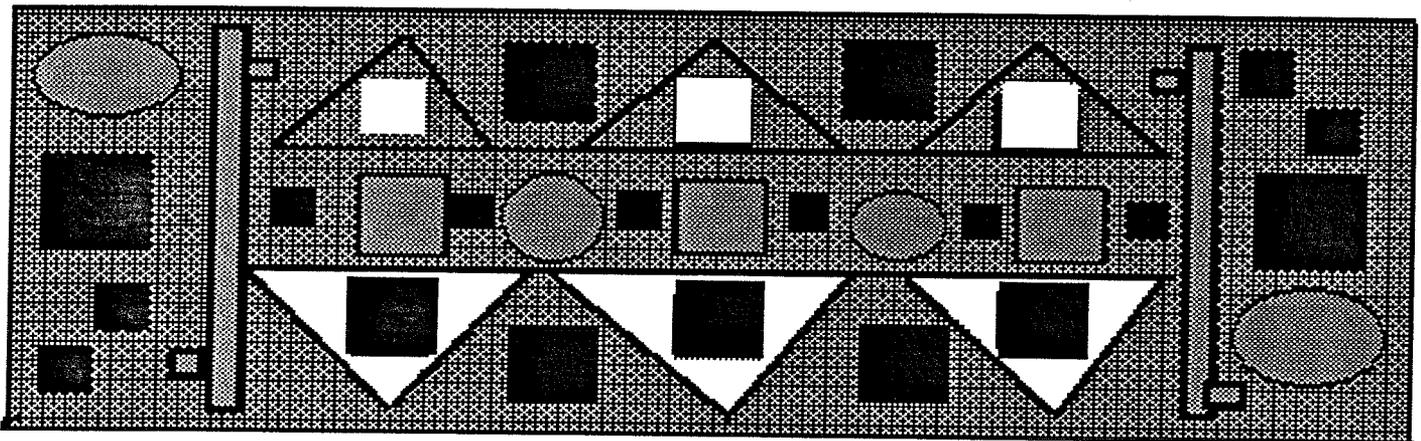


FIREARM -RELATED FATALITIES

Arizona, 1980-1989



ARIZONA DEPARTMENT OF HEALTH SERVICES
Office of Planning and Health Status Monitoring
April 1991

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FIREARM-RELATED FATALITIES, ARIZONA, 1980-1989¹

PURPOSE

This report is the 1989 annual update of information about firearm-related fatalities in Arizona. Its purpose is to provide information to individuals interested in this topic. The data for 1989, the last year of the decade of the 80's, are placed in a temporal context by comparison with the data from the prior nine years of the decade.

METHODS AND SOURCES

In this report, firearm-related fatalities are defined according to the ICD² as an underlying cause of death coded as: E922.0-E922.9 (unintentional or accidental injury caused by firearms), E955.0-E955.4 (suicide by firearms), E960.0-E965.4 (homicide by firearms), E970 (fatal injury due to legal intervention by firearms) or E985.0-E985.4 (firearm-related fatalities which are undetermined whether they were purposely or accidentally inflicted).

Data to determine the number of firearm-related fatalities in Arizona were obtained from the death certificate information entered on the annual mortality tapes of the Arizona Department of Health Services. Projections for the population of Arizona residents, used in rates, are from the Population Statistics Unit in the Arizona Department of Economic Security.³ Data for the United States are from the National Center for Health Statistics, unless otherwise specified.

SELECTED FINDINGS

This section presents some illustrative findings contained in the three figures and 15 tables which comprise the report. It is not intended to be an exhaustive analysis of the tabulated data. When possible, United States data are given in order to provide a comparative context for the Arizona firearm-related mortality statistics.

Firearms rank second, surpassed only by motor vehicles, as the leading cause of injury mortality both nationwide and in Arizona. Each year in the nation, about 15 firearm-related fatalities occur for every 100,000 individuals. In Arizona, annual rates of death by firearms ranged from 15.8 to 18.6 for the years 1980 to 1989 (Table 1).

All except a small fraction of these fatalities are intentionally inflicted. During the ten-year period 1980-1989, 5,615 Arizona residents were killed by firearms. Of these deaths, 195 (or 3.5%) were classified as due to unintentionally inflicted firearm injuries; 3,783 (67.4%) as suicides; 1,517 (27.0%) as homicides; 68 (1.2%) fatal injuries due to legal intervention by firearms; and 52 (0.9%) resulting from injuries undetermined whether accidentally or purposely inflicted (Table 7).

In 1989, firearm fatalities among non-Hispanic whites and Native Americans predominantly resulted from an act of suicide (76.9 and 57.1 percent, respectively). In contrast, the majority of deaths from firearms were incurred in acts of homicide among Blacks (76.7 percent) and Hispanics (47.3 percent; Figure 1, Table 6). Firearm-related

¹ Special gratitude is expressed to Roberta Durfee and Dorothy Reissig for their patience and expertise in typing and formatting this report.

² International Classification of Diseases, Adapted-Ninth Revision; Geneva, World Health Organization, 1977.

³ Baseline Projections, 12/12/86 (data for 1986-1989); Baseline Projections, 10/30/85 (data for 1981-1985); the Bureau of the Census (data for 1980).

fatalities among ethnic minorities occurred at younger ages compared to firearm-related deaths among non-Hispanic whites (Table 6). At least 76 percent of 1989 firearm-related deaths for each ethnic minority group were less than 45 years old, while only 55 percent of firearm-related deaths among white non-Hispanics were this young.

While fourth digit ICD codes are available to identify the type of firearm that was used, the vast majority of weapon types are coded on death certificates as "other and unspecified" (Table 3). However, the proportion of all firearm-related fatalities attributable to handguns increased more than two times from 13.4 percent in 1980 (66 out of 493 deaths) to 31.1 percent in 1989 (203 out of 653).

In any given year between 1980 and 1988, all annual firearm-related death rates among teenagers 15-19 years of age were higher in Arizona than nationwide (Figure 2; Table 15). The average number of approximately 15 teenage homicides by firearms per year in Arizona during 1980-1989 (Table 2) was greater than in each of the eight industrialized countries of Canada, Sweden, Australia, Germany, France, Japan, England and Wales.⁴

Simultaneously, in any given year since 1980, annual firearm-related suicide deaths among teenagers 15-19 years of age were at least 42 percent higher in Arizona than nationwide (Table 15). A recent comparison ranked 43 states better than Arizona in violent death rates among adolescents 15-19 years old.⁵

During 1980-1983, the age group at highest risk of death from firearms were 20-44 year olds (Table 1). Between 1984 and 1989 annual firearm-related death rates among the elderly (65 years and older) were higher (with the exception of 1988) than those among young adults 20-44 years old. A majority of persons 65 years and older killed by firearms (Table 2) were suicide victims (122 out of 128 deaths by firearms, or 95.3 percent) while one out of three firearm-related deaths among young adults (111 among 324 deaths) were from injuries purposely inflicted by another person.

The 1989 mortality rate from firearms among males (30/100,000) was 5.6 times greater than the rate of 5.4/100,000 for females (Table 8). Among males the firearm mortality curve by age was bimodal (Figure 3), reaching the first peak at ages 15-19 years (38.9/100,000, tapering off to 31.8/100,000 at ages 45-64 and rising to a second peak among the elderly 65 years and older (61.3/100,000). The highest female firearm death rate was for 45-64 year olds (8.5/100,000).

Residents of the urban regions of the state (Maricopa and Pima counties) had a 10.5 percent lower rate of death by firearms than their rural counterparts (Table 9). However 75 out of every 100 people who died from firearms were urban residents.

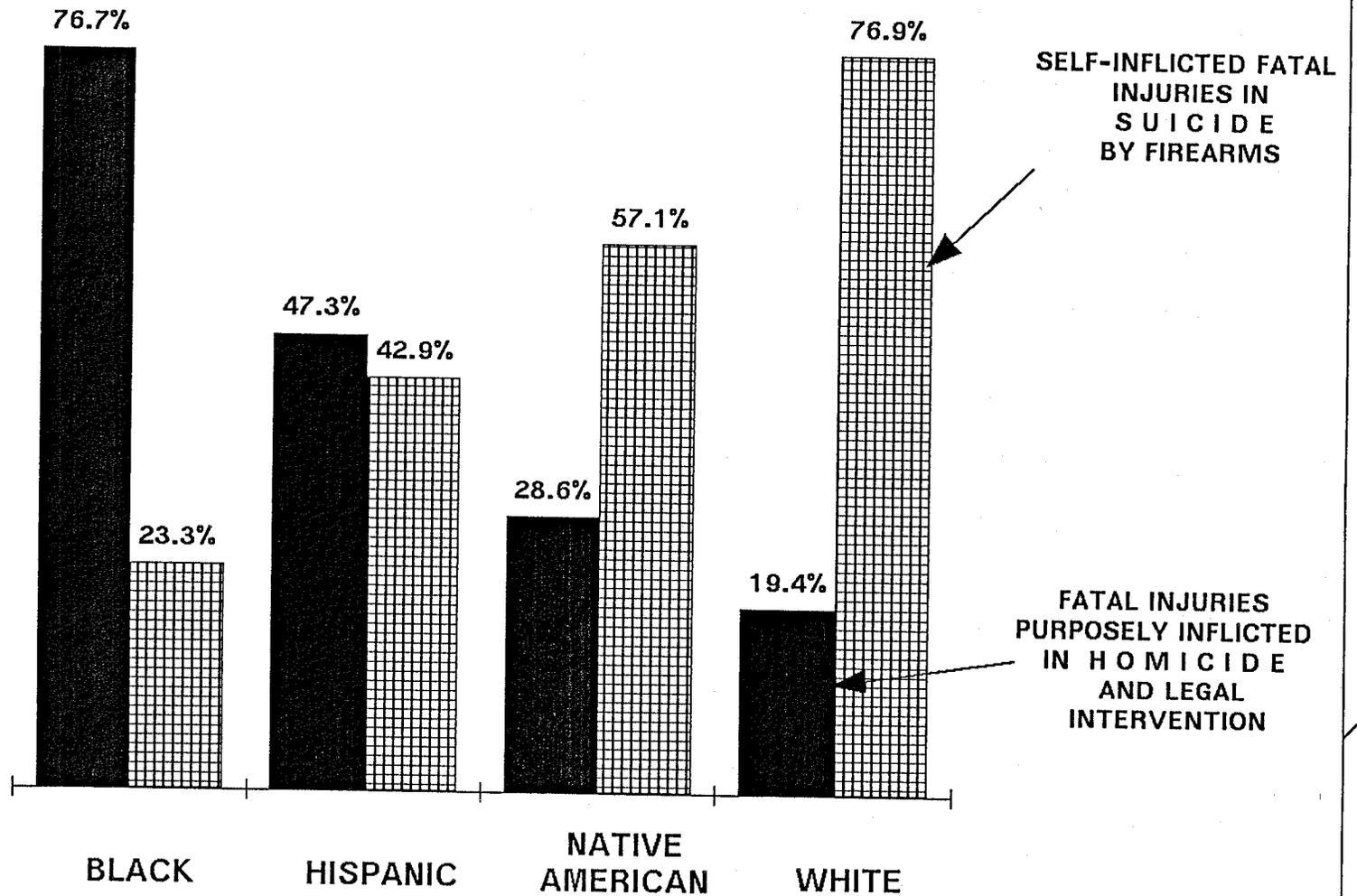
Rural residents were overrepresented among fatal firearm-inflicted injuries during legal intervention, accounting for 61.5 percent of those deaths (Table 9). The rate of death by firearms varied in 1989 from a low of 9.7/100,000 in Santa Cruz county to 76.1/100,000 in La Paz county (Table 10).

Sixty-seven of every 100 suicide deaths in Arizona (Table 12) and forty-eight of every 100 murders (Table 13) involved firearms in 1989. However, firearms accounted for less than 2 percent (Table 14) of 1989 fatal unintentional injuries in Arizona. Injuries purposely inflicted by oneself or another person accounted for 96 of every 100 firearm fatalities from 1980 to 1989 (Table 7).

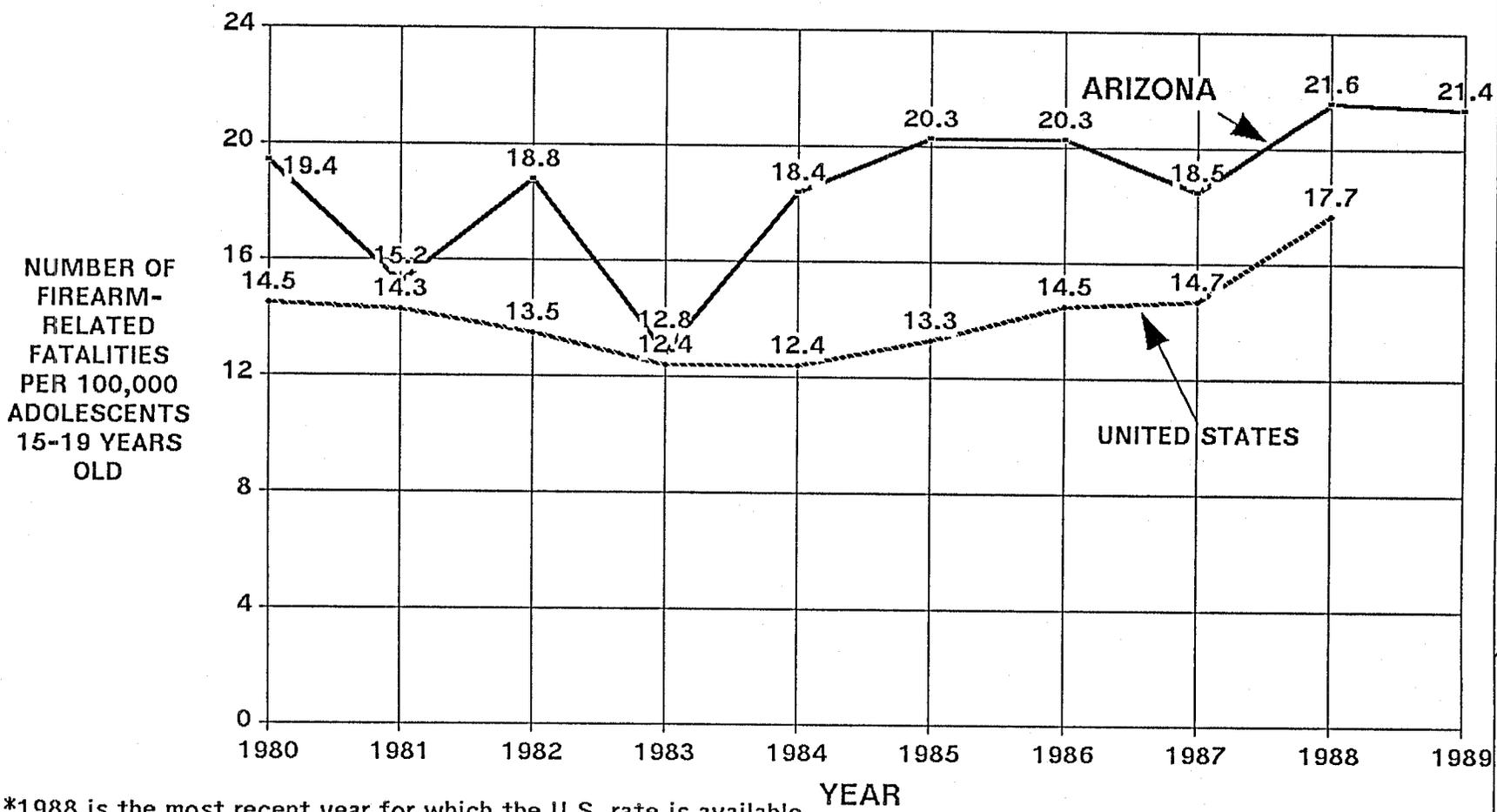
⁴ Fingerhut, L.A. and Kleinman, J.C. Firearm mortality among children and youth. Advance data from vital and health statistics; no. 178. Hyattsville, Maryland: National Center for Health Statistics. 1989.

⁵ KIDS COUNT DATA BOOK. STATE PROFILES OF CHILD WELL-BEING, Washington, D.C.: The Center for the Study of Social Policy, 1991.

FIGURE 1.
PERCENT FIREARM-RELATED FATALITIES IN EACH ETHNIC GROUP ATTRIBUTED TO SELF-INFLICTED INJURIES IN SUICIDE AND TO INJURIES PURPOSELY INFLICTED IN HOMICIDE AND LEGAL INTERVENTION, ARIZONA, 1989



**FIGURE 2.
FIREARM-RELATED DEATH RATES AMONG ADOLESCENTS 15-19 YEARS OLD,
ARIZONA AND UNITED STATES*, 1980-1989**



**FIGURE 3.
FIREARM-RELATED DEATH RATES BY GENDER AND AGE GROUP, ARIZONA,
1989**

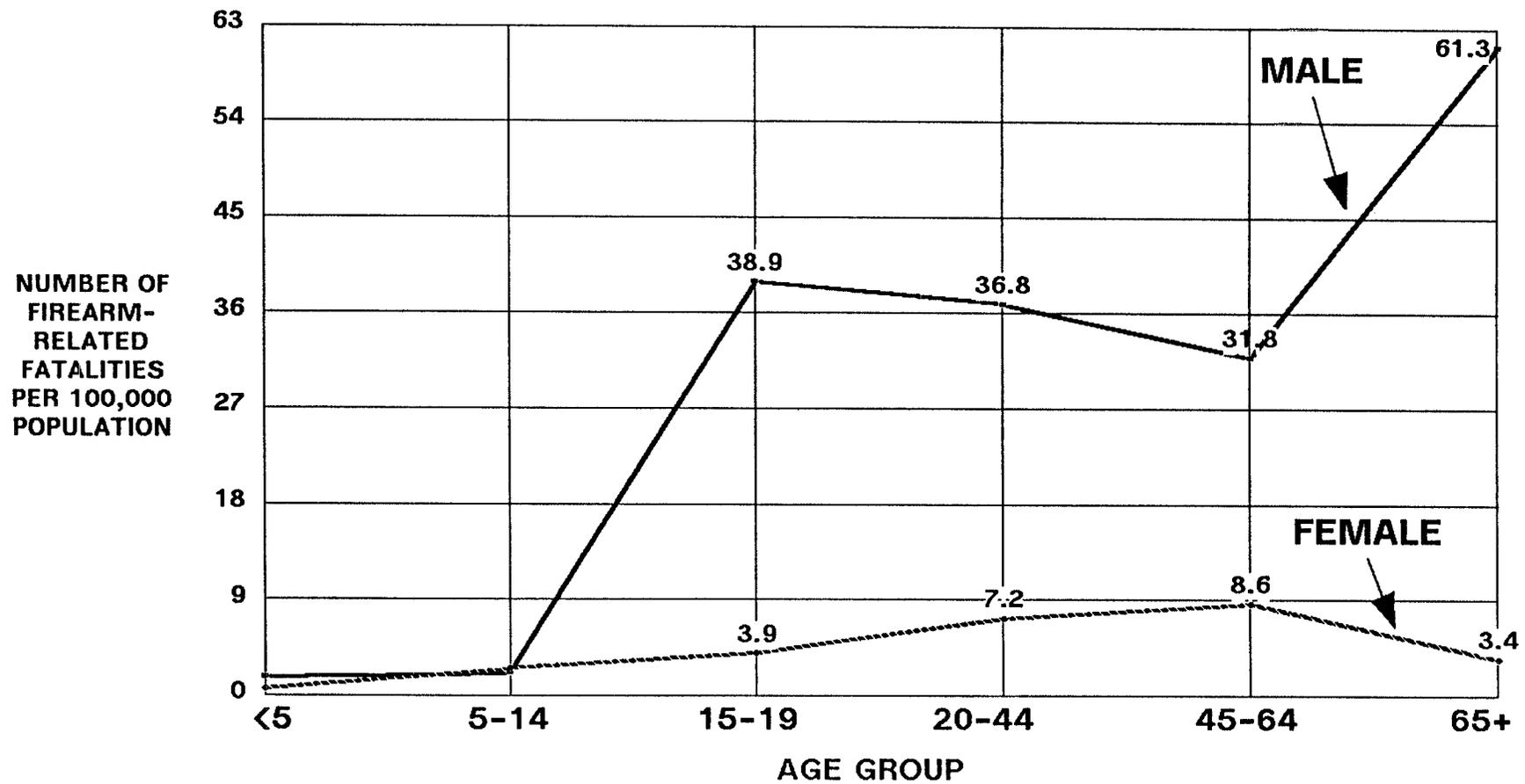


TABLE 1
RATE^a OF DEATHS BY FIREARMS BY AGE GROUP AND YEAR,
ARIZONA, 1980-1989

<u>Age Group</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>
Under 5 ^b	1.4	1.7	1.2	.4	.7	1.8	.3	.3	1.2	1.2
5-14	2.8	2.1	2.0	1.8	2.6	2.5	2.0	2.5	1.8	2.3
15-19	19.4	15.2	18.8	12.8	18.4	20.3	20.3	18.5	21.6	21.4
20-44	26.3	26.4	23.9	21.8	21.9	18.4	25.3	23.9	25.3	22.2
45-64	19.3	22.7	18.4	18.9	21.5	23.3	17.4	24.1	20.2	20.0
65 and Over	21.5	20.1	23.0	21.7	27.2	20.7	26.1	26.6	25.3	28.1
Total	18.1	18.3	17.2	15.8	16.8	17.2	18.1	18.5	18.6	17.5

^a Number of deaths by firearms per 100,000 population in specified age group.
^b 0 - 4 years old.

TABLE 2

**NUMBER OF FIREARM-RELATED FATALITIES
BY CAUSE,^a AGE GROUP AND YEAR, ARIZONA, 1980-1989**

<u>Age Group</u>	<u>Cause</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>
Under 5,	All Deaths by Firearms	3	4	3	1	2	5	1	1	4	4
	Unintentional Injury	2	2	0	0	2	2	1	0	3	1
	Homicide	1	2	3	1	0	3	0	1	1	3
5-14,	All Deaths by Firearms	12	9	9	8	12	12	10	13	10	13
	Suicide	3	1	2	3	1	1	3	6	2	3
	Unintentional Injury	6	5	3	4	3	5	5	5	1	4
	Homicide	3	3	4	1	6	6	2	2	7	5
	Undetermined	0	0	0	0	2	0	0	0	0	1
15-19,	All Deaths by Firearms	49	37	45	30	43	48	50	46	55	55
	Suicide	27	19	25	19	18	33	27	32	32	30
	Unintentional Injury	5	7	1	2	6	3	4	1	5	7
	Homicide	22	11	19	8	17	12	18	10	17	15
	Legal Intervention	0	0	0	1	0	0	0	1	0	3
	Undetermined	1	0	0	0	2	0	1	2	1	0
20-44,	All Deaths by Firearms	264	280	264	249	262	230	334	327	357	324
	Suicide	150	165	152	155	165	142	204	205	211	198
	Unintentional Injury	11	5	11	2	10	8	11	7	6	13
	Homicide	99	100	90	86	79	75	111	107	127	101
	Legal Intervention	3	7	6	5	6	4	3	5	7	10
	Undetermined	1	3	5	1	2	1	5	3	6	2
45-64,	All Deaths by Firearms	98	118	97	101	118	131	101	143	124	127
	Suicide	69	81	77	81	93	104	79	118	92	96
	Unintentional Injury	2	0	0	0	0	4	1	1	1	1
	Homicide	27	36	19	20	23	20	19	24	29	27
	Legal Intervention	0	1	1	0	0	1	2	0	1	0
	Undetermined	0	0	0	0	2	2	0	0	1	3
65 and Over,	All Deaths by Firearms	66	65	78	77	101	81	105	112	111	128
	Suicide	56	58	72	67	95	72	97	101	101	122
	Unintentional Injury	1	0	1	2	2	0	0	0	0	0
	Homicide	8	7	5	8	4	9	7	11	9	6
	Undetermined	1	0	0	0	0	0	1	0	1	0
All Ages, ^b	Total Deaths by Firearms	493	515	498	469	518	549	608	643	669	653
	Suicide	299	325	329	327	357	384	410	462	441	449
	Unintentional Injury	27	19	16	10	23	22	22	14	16	26
	Homicide	161	160	141	125	124	135	163	155	195	158
	Legal Intervention	3	8	7	6	6	5	6	6	8	13
	Undetermined	3	3	5	1	8	3	7	6	9	7

^a ICD codes: 922.0-922.9 (unintentional injury), 955.0-955.4 (suicide), 965.0-965.4 (homicide), 970 (injury due to legal

^b Includes records with unknown or unspecified age.

TABLE 3
NUMBER OF FIREARM-RELATED FATALITIES BY TYPE OF FIREARM^a AND YEAR,
ARIZONA, 1980-1989

	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>
<i>Hand Gun</i>	66	80	73	85	83	77	109	141	171	203
<i>Shotgun</i>	50	46	33	26	34	51	38	37	51	45
<i>Hunting Rifle</i>	14	22	22	14	12	8	6	20	24	24
<i>Military Firearm</i>	0	0	0	0	0	0	0	3	2	0
<i>Other and Unspecified</i>	363	367	370	344	389	413	455	442	421	381
<i>Total, All Firearms</i>	493	515	498	569	518	459	608	643	669	653

^a *Defined according to the ICD as an underlying cause of death with the codes E922.0, E955.0 (hand gun), E922.1, E955.1, E965.1, E985.1 (shotgun), E922.2, E955.2, E962.2, E985.2 (hunting rifle), E922.3, E955.3, E965.3, E985.3 (military firearm), E922.8, E922.9, E955.4, E965.4, E985.4 and E970 (other and unspecified firearms).*

TABLE 4
NUMBER AND PERCENT DISTRIBUTION OF FIREARM-RELATED FATALITIES BY
ETHNIC GROUP AND YEAR, ARIZONA, 1980-1989

<u>Ethnic Group</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>TOTAL</u>	
											<u>Number</u>	<u>Percent</u>
White ^a	357	373	365	354	397	422	452	478	494	507	4,199	74.8
Hispanic	78	82	69	57	64	78	96	103	95	91	813	14.5
Black	27	25	22	21	18	22	25	26	35	30	251	4.5
Native American	28	32	40	29	31	26	30	34	35	21	306	5.4
Other Race	3	3	2	8	8	1	5	2	10	4	46	0.8
Total, All Ethnic Groups	493	515	498	469	518	549	608	643	669	653	5,615	100.0

^a Non-Hispanic.

TABLE 5
NUMBER OF FIREARM-RELATED FATALITIES BY ETHNIC GROUP
AND GENDER BY YEAR, ARIZONA, 1980-1989

	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>
Total, White ^a	357	373	365	354	397	422	452	478	494	507
Male	287	287	292	273	324	338	359	391	407	428
Female	70	84	73	81	73	84	93	87	87	79
Total, Black	27	25	22	21	18	22	25	26	35	30
Male	23	22	19	20	18	17	21	20	30	26
Female	4	3	3	1	0	5	4	6	5	4
Total, Native American	28	32	40	29	31	26	30	34	35	21
Male	24	28	32	25	27	25	25	28	28	20
Female	4	4	8	4	4	1	5	6	7	1
Total, Hispanic	78	82	69	57	64	78	96	103	95	91
Male	73	71	57	50	58	65	82	86	82	74
Female	5	11	12	7	6	13	14	17	13	17
Total, All Ethnic Groups ^b	493	515	498	469	518	549	608	643	669	653
Male	410	411	402	375	434	445	492	527	555	551
Female	83	104	96	94	84	104	116	116	114	102

^a Non-Hispanic.

^b Includes records with other and unspecified race.

TABLE 6

**NUMBER AND PERCENT DISTRIBUTION OF FIREARM-RELATED FATALITIES
BY CAUSE, AGE GROUP AND ETHNICITY, ARIZONA, 1989**

Ethnic Group	Age Group	Uninten- tional Injury	Suicide	Homicide	Legal Inter- vention	Undeter- mined	T O T A L	
							Number	Percent
White	Under 5	0	0	3	0	0	3	0.6
	5-14	3	2	2	0	1	8	1.6
	15-19	4	19	6	2	0	31	6.1
	20-44	8	165	56	7	1	237	46.7
	45-64	0	88	20	0	2	110	21.7
	65 and Over	0	116	2	0	0	118	23.3
	Total: # ^a	15	390	89	9	4	507	100.0
%	3.0	76.9	17.6	1.8	0.8			
Hispanic	Under 5	0	0	0	0	0	0	0.0
	5-14	1	0	2	0	0	3	3.3
	15-19	2	6	3	1	0	12	13.2
	20-44	4	22	30	0	1	57	62.6
	45-64	1	5	6	0	0	12	13.2
	65 and Over	0	6	0	0	0	6	6.6
	Total: #	8	39	42	1	1	91	100.0
%	8.8	42.9	46.2	1.1	1.1			
Black	Under 5	0	0	0	0	0	0	0.0
	5-14	0	1	1	0	0	2	6.7
	15-19	0	1	6	0	0	7	23.3
	20-44	0	5	12	0	0	17	56.7
	45-64	0	0	0	0	0	0	0.0
	65 and Over	0	0	4	0	0	4	13.3
	Total: #	0	7	23	0	0	30	100.0
%	-	23.3	76.7	-	-			
Native American	Under 5	0	0	0	0	0	0	0.0
	5-14	0	0	0	0	0	0	0.0
	15-19	1	3	0	0	0	4	19.0
	20-44	1	6	2	3	0	12	57.1
	45-64	0	3	1	0	1	5	23.8
	65 and Over	0	0	0	0	0	0	0.0
	Total: #	2	12	3	3	1	21	100.0
%	9.5	57.1	14.3	14.3	4.8			
All Ethnic Groups ^b	Under 5	1	0	3	0	0	4	0.6
	5-14	4	3	5	0	1	13	2.0
	15-19	7	30	15	3	0	55	8.4
	20-44	13	198	101	10	2	324	49.6
	45-64	1	96	27	0	3	127	19.4
	65 and Over	0	122	6	0	0	128	19.6
	Total: #	5	449	158	13	7	653	100.0
%	0.8	68.8	24.2	2.0	1.1			

^a Records with unspecified age are included in the totals for each ethnic group.
^b Total for all ethnic groups includes 2 records with unspecified age and/or ethnic group.

TABLE 7

NUMBER AND PERCENT DISTRIBUTION OF FIREARM-RELATED FATALITIES
BY CAUSE AND GENDER BY YEAR, ARIZONA, 1980-1989

Gender	Cause	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	TOTAL	
												Number	Percent
Male,	Total	410	411	402	375	434	445	492	527	555	551	4,602	100.0
	Unintentional Injury	27	16	13	9	21	18	20	10	12	22	168	3.7
	Suicide	248	260	266	260	303	321	328	384	380	387	3,137	68.2
	Homicide	129	125	111	100	98	100	133	122	147	123	1,188	25.8
	Legal Intervention	3	8	7	6	5	5	6	5	8	13	66	1.4
	Undetermined	3	2	5	0	7	1	5	5	8	6	42	0.9
Female,	Total	83	104	96	94	84	104	116	116	114	102	1,013	100.0
	Unintentional Injury	0	3	3	1	2	4	2	4	4	4	27	2.7
	Suicide	51	65	63	67	54	63	82	78	61	62	646	63.8
	Homicide	32	35	30	25	26	35	30	33	48	35	329	32.5
	Legal Intervention	0	0	0	0	1	0	0	1	0	0	2	0.2
	Undetermined	0	1	0	1	1	2	2	1	1	1	10	1.0
Total,	All Deaths by Firearm	493	515	498	469	518	549	608	643	669	653	5,615	100.0
	Unintentional Injury	27	19	16	10	23	22	22	14	16	26	195	3.5
	Suicide	299	325	329	327	357	384	410	462	441	449	3,783	67.4
	Homicide	161	160	141	125	124	135	163	155	195	158	1,517	27.0
	Legal Intervention	3	8	7	6	6	5	6	6	8	13	68	1.2
	Undetermined	3	3	5	1	8	3	7	6	9	7	52	0.9

TABLE 8

NUMBER OF DEATHS BY FIREARMS AND RATE^a OF FIREARM-RELATED
FATALITIES BY GENDER AND AGE GROUP, ARIZONA, 1989

Age Group	Male		Female		Total	
	Number	Rate	Number	Rate	Number	Rate
Under 5	3	1.7	1	0.6	4	1.2
5-14	6	2.1	7	2.5	13	2.3
15-19	50	38.9	5	3.9	55	21.4
20-44	272	36.8	52	7.2	324	22.2
45-64	99	31.8	28	8.6	127	20.0
65 and Over	119	61.3	9	3.4	128	28.1
Unknown Age	2	-	0	-	2	-
TOTAL	551	30.0	102	5.4	653	17.5

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

TABLE 9

NUMBER OF DEATHS BY FIREARMS BY CAUSE AND AGE GROUP
AND RATES^a OF FIREARM-RELATED FATALITIES IN
URBAN AND RURAL AREAS,^b ARIZONA, 1989

<u>Area</u>	<u>Age Group</u>	<u>Uninten- tional Injury</u>	<u>Suicide</u>	<u>Homicide</u>	<u>Legal inter- vention</u>	<u>Undeter- mined</u>	<u>Total, Number Rate</u>	
Urban	Under 5	1	0	1	0	0	2	0.8
	5-14	4	3	5	0	0	12	2.8
	15-19	4	19	14	1	0	38	19.8
	20-44	9	159	87	4	2	261	22.6
	45-64	0	67	21	0	2	90	18.3
	65 and Over	0	79	6	0	0	85	24.6
	Unknown	0	0	1	0	0	1	-
	Total	18	327	135	5	4	489	17.1
	Rate:	0.6	11.4	4.7	0.2	0.1		
Rural	Under 5	0	0	2	0	0	2	2.4
	5-14	0	0	0	0	0	1	0.7
	15-19	3	11	1	2	0	17	26.1
	20-44	4	39	14	6	0	63	20.5
	45-64	1	29	6	0	1	37	25.6
	65 and Over	0	43	0	0	0	43	38.9
	Unknown	0	0	0	0	1	1	-
	Total	8	122	23	8	3	164	19.1
	Rate:	1.4	21.8	4.1	1.4	0.5		
Total	Under 5	1	0	3	0	0	4	1.2
	5-14	4	3	5	0	1	13	2.3
	15-19	7	30	15	3	0	55	21.4
	20-44	13	198	101	10	2	324	22.1
	45-64	1	96	27	0	3	127	20.0
	65 and Over	0	122	6	0	0	128	28.1
	Unknown	0	0	1	0	1	2	-
	Total	26	449	158	13	7	653	17.5
	Rate:	0.7	12.1	4.2	0.3	0.2		

^a Number of firearm-related fatalities per 100,000 population in specified group.
^b Maricopa and Pima counties comprise Arizona's urban areas while the remaining counties represent rural areas.

TABLE 10

**RATE^a OF FIREARM-RELATED DEATHS BY COUNTY OF RESIDENCE AND YEAR
ARIZONA, 1980-1989**

<u>County</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>
Apache	15.4	9.6	9.4	11.0	18.0	8.9	18.2	12.8	21.7	12.1
Cochise	21.0	10.2	12.3	17.6	15.0	11.4	12.3	14.0	15.6	10.5
Coconino	6.7	9.1	17.8	15.0	8.4	16.3	18.0	16.3	9.5	13.3
Gila	29.7	33.9	20.5	12.7	23.4	21.0	15.1	27.4	22.2	31.7
Graham	4.4	21.3	8.4	29.3	25.8	8.9	12.2	12.2	16.3	12.0
Greenlee	-	17.0	17.0	9.1	20.0	11.5	-	41.6	31.5	-
La Paz	NA	NA	NA	29.4	28.5	20.9	21.3	63.6	56.0	76.1
Maricopa	18.0	17.9	17.0	14.8	16.4	16.8	18.2	18.1	17.5	17.2
Mohave	26.9	21.9	17.9	25.0	26.2	26.2	27.1	31.5	29.5	23.9
Navajo	20.7	13.0	20.1	12.9	12.6	13.8	17.6	19.8	14.2	16.4
Pima	17.5	19.9	16.5	16.7	16.9	17.8	18.5	18.1	19.4	16.6
Pinal	28.6	22.3	21.6	15.2	15.0	17.0	25.0	23.3	31.7	16.8
Santa Cruz	-	9.5	22.8	9.0	27.6	18.4	3.6	3.4	9.9	9.7
Yavapai	19.1	27.5	19.9	25.5	20.4	25.0	17.4	25.3	22.5	33.7
Yuma	18.0	25.0	28.4	15.5	18.2	16.6	14.8	11.2	16.4	17.1
ARIZONA	18.1	18.3	17.2	15.8	16.8	17.2	18.1	18.5	18.6	17.5

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

TABLE 11

**NUMBER OF DEATHS BY FIREARMS BY COUNTY OF RESIDENCE AND YEAR,
ARIZONA, 1980-1989**

<u>County</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>
Apache	8	5	5	6	10	5	11	8	14	8
Cochise	18	9	11	16	14	11	12	14	16	11
Coconino	5	7	14	12	7	14	16	15	9	13
Gila	11	13	8	5	9	8	6	11	9	13
Graham	1	5	2	7	6	2	4	3	4	3
Greenlee	0	2	2	1	2	1	0	4	3	0
La Paz ^a	NA	NA	NA	4	4	3	3	9	8	11
Maricopa	272	279	274	246	284	303	347	360	363	371
Mohave	15	13	11	16	18	19	21	25	24	20
Navajo	14	9	14	9	9	13	13	15	11	13
Pima	93	110	93	97	102	111	119	119	133	118
Pinal	26	21	21	15	15	17	26	25	35	19
Santa Cruz	0	2	5	2	6	5	1	1	3	3
Yavapai	13	20	15	20	16	22	16	24	22	34
Yuma	14	20	23	13	16	15	13	10	15	16
ARIZONA	493	515	498	469	518	549	608	643	669	653

^a Included in Yuma County prior to 1983.

TABLE 12
NUMBER OF SUICIDES BY FIREARMS AND TOTAL SUICIDES BY AGE GROUP
AND YEAR, ARIZONA, 1980-1989

<u>Age Group</u>	<u>Cause</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>
5-14	All Suicides	4	3	2	5	6	2	8	7	5	3
	# by Firearms	3	1	2	3	1	1	3	6	2	3
15-19	All Suicides	34	28	36	34	28	41	37	52	47	48
	# by Firearms	21	19	25	19	18	33	27	32	32	30
20-44	All Suicides	230	243	251	262	260	272	324	328	337	328
	# by Firearms	150	165	152	155	165	142	204	205	211	198
45-64	All Suicides	110	113	117	115	117	147	127	168	130	134
	# by Firearms	69	81	77	81	93	104	79	118	92	96
+ 65 and Over	All Suicides	84	75	100	95	120	104	128	131	143	156
	# by Firearms	56	58	72	67	95	72	97	101	101	122
All Ages ^a	Total Suicides	462	464	507	513	533	567	624	687	666	669
	# by Firearms	299	325	329	327	357	384	410	462	441	449
	% by Firearms	64.7	70.0	64.9	63.7	67.0	67.7	65.7	67.2	66.2	67.1

TABLE 13
NUMBER OF HOMICIDES BY FIREARMS AND TOTAL HOMICIDES BY AGE GROUP
AND YEAR, ARIZONA, 1980-1989

<u>Age Group</u>	<u>Cause</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>
Under 5	All Homicides	11	8	12	7	11	11	10	11	16	18
	# by Firearms	1	2	3	1	0	3	0	1	1	3
5-14	All Homicides	8	6	10	4	13	8	5	2	13	6
	# by Firearms	3	3	4	1	6	6	2	2	7	5
15-19	All Homicides	34	16	25	19	27	19	34	20	25	27
	# by Firearms	22	11	19	8	17	12	18	10	17	15
20-44	All Homicides	163	172	154	158	153	154	203	179	206	197
	# by Firearms	99	100	90	86	79	65	111	107	127	101
45-64	All Homicides	46	51	47	40	42	40	45	47	53	54
	# by Firearms	27	36	19	20	23	20	19	24	29	27
65 and Over	All Homicides	23	27	14	20	20	19	29	21	19	22
	# by Firearms	8	7	5	8	4	9	7	11	9	6
All Ages ^a	Total Homicides	288	281	263	253	268	256	254	287	338	327
	# by Firearms	161	180	141	125	124	135	163	155	195	158
	% by Firearms	55.9	56.9	53.6	49.4	56.3	52.7	64.2	54.0	57.7	48.3

^a Includes records with unknown or unspecified age.

TABLE 14

NUMBER OF FIREARM-RELATED FATALITIES AND ALL UNINTENTIONAL INJURY DEATHS BY AGE GROUP AND YEAR, ARIZONA, 1980-89

<u>Age Group</u>	<u>Cause</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>
Under 5	All Unintentional Injury Deaths	84	96	87	70	84	77	103	82	98	99
	# Firearm-related	2	2	0	0	2	2	1	0	3	1
5-14	All Unintentional Injury Deaths	78	73	57	67	63	74	74	73	68	73
	# Firearm-related	6	5	3	4	3	5	5	5	1	4
15-19	All Unintentional Injury Deaths	149	171	128	121	153	155	167	135	148	137
	# Firearm-related	5	7	1	2	6	3	4	1	5	7
20-44	All Unintentional Injury Deaths	527	627	560	511	623	637	699	720	699	633
	# Firearm-related	11	5	11	2	10	8	11	7	6	13
45-64	All Unintentional Injury Deaths	181	244	222	219	202	206	199	235	251	242
	# Firearm-related	2	0	0	0	0	4	1	1	1	1
65 and Over	All Unintentional Injury Deaths	322	323	307	320	349	297	303	313	346	322
	# Firearm-related	0	0	1	2	2	0	0	0	0	0
All Ages ^a	Total Unintentional Injury Deaths	1,523	1,541	1,366	1,310	1,486	1,457	1,563	1,567	1,624	1,512
	# Firearm-related	27	19	16	10	23	22	22	14	16	26
	% Firearm-related	1.8	1.2	1.2	.8	1.5	1.5	1.4	.9	1.0	1.7

^a Includes records with unknown or unspecified age.

TABLE 15

FIREARM-RELATED DEATH RATES^a ASSOCIATED WITH HOMICIDE, SUICIDE AND UNINTENTIONAL INJURY AMONG ADOLESCENTS 15-19 YEARS OLD, ARIZONA AND UNITED STATES, 1980-1989

<u>AREA/CAUSE</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>
ARIZONA, all firearm-related deaths:	19.4	15.2	18.8	12.8	18.4	20.3	20.3	18.5	21.6	21.4
Homicide	8.7	4.5	7.9	3.8	7.3	5.1	7.3	4.4	6.7	7.0
Suicide	8.3	7.8	10.4	8.1	7.7	14.0	11.0	12.8	12.6	11.7
Unintentional injury	2.0	2.9	0.4	0.9	2.6	1.3	1.6	0.4	2.0	2.7
UNITED STATES,^b all firearm-related deaths:	14.5	14.3	13.5	12.4	12.4	13.3	14.5	14.7	17.7	NA
Homicide	7.0	6.8	6.3	5.3	5.4	5.7	6.7	7.0	9.0	NA
Suicide	5.4	5.5	5.5	5.4	5.3	6.0	6.2	6.1	6.9	NA
Unintentional injury	1.8	1.5	1.4	1.4	1.4	1.3	1.3	1.2	1.2	NA

^a Number of deaths per 100,000 population 15-19 years old. Totals for Arizona and the United States include firearm-related fatalities which are undertermined whether they were purposely or unintentionally inflicted.

^b Fingerhut, L.A., Kleinman J.C., Godfrey E., and Rosenberg H. Firearm mortality among children, youth and young adults 1-34 years of age, trends and current status: United States, 1979-88. Monthly vital statistics report; vol. 39, no. 11, suppl. Hyattsville, Maryland: National Center for Health Statistics, 1991.

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*CLOSING THE DECADE: Arizona
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*Abortion Surveillance Report,
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*Suicide Mortality, Arizona,
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*Drug-related Mortality, Arizona,
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*Unintentional Injury Mortality
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