

**Injury Deaths and Hospitalizations
in Pennsylvania
2005-2009**



ACKNOWLEDGMENTS

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EXECUTIVE SUMMARY

INJURY IN PENNSYLVANIA

Injury is a serious public health problem in Pennsylvania and across the nation. Injuries can lead to premature death and disability and represent a significant financial burden to the health care system. In 2009, unintentional injury was the leading cause of death among children and adults ages 1 through 44. Unintentional injuries ranked as the fifth leading cause of death overall for Pennsylvanians in 2009, contributing to 5,441 deaths. Among white males, unintentional injury was the third leading cause of death. Rates of injury death increased five percent from 2005 to 2008 and decreased five percent from 2008 to 2009, resulting in no net change over the five-year period.

Although unintentional injuries account for the majority of the injury burden, a substantial number of deaths – especially among males – are intentional (comprising suicide and homicide). In 2009, intentional injuries represented the second and third leading causes of death among Pennsylvanians ages 15 through 29. Homicide was the third leading cause of death among black males overall, while suicide was the eighth leading cause of death among white males overall. Firearms were the most common mechanism of suicide and homicide in 2009, as in previous years.

Mortality statistics alone do not convey the full impact of injury. In 2009, Pennsylvania hospitals reported 146,390 discharges of residents with injury-related admissions, corresponding to a rate of 1,020.4 hospitalizations per 100,000 persons or an average of over 400 persons per day. One quarter of all injury hospitalizations were to white females age 70 or older, highlighting the prevalence of falls among the elderly. Total charges for hospitalized injury discharges in Pennsylvania in 2009 exceeded \$7.46 billion. Nearly half of these charges, over \$3.44 billion, were billed to Medicare.

Every 3¹/₂ minutes a Pennsylvania resident enters hospital care due to preventable injury. The leading causes of hospitalized injury were falls, poisonings and motor vehicle accidents. Over 85 percent of injuries were reported as unintentional. One group with very high injury hospitalization rates were persons age 85 and over, with an overall rate of 7,925.1 injury hospitalizations per 100,000 persons in 2009. Rates of injury hospitalization have remained largely stable from 2005 to 2009. Unintentional poisoning hospitalizations showed the greatest increase in rate over the five-year period, while hospitalizations for motor vehicle traffic injury showed the greatest decrease in rate. The decrease in motor vehicle traffic injury was especially rapid from 2007 to 2009.

2005-2009 COMBINED INJURY REPORT

This report describes Pennsylvania's injury burden from 2005 to 2009, using Vital Statistics from Pennsylvania Vital Records and Hospital Discharge Data (HDD) compiled by the Pennsylvania Health Care Cost Containment Council (PHC4). The report updates information in the Combined Injury Report for 2004-2008.

Readers and users of this report should use caution when interpreting many of the findings in this report, because of incomplete E-coding and the injury definition used. Relative rates, or the magnitude of differences within each table, are useful and valid for comparisons. However, absolute numbers may not always reflect the exact quantitative

burden on Pennsylvania's population. Confidence intervals and significance test results have been provided throughout to assist with data interpretation. For more background on how rates were calculated and compared, please see the Technical Notes.

The Pennsylvania Violence and Injury Prevention Program use data in this report to perform trend analysis and track progress of the state against national indices. Local providers of injury interventions should find this information useful for program planning, prioritization and comparisons among counties. Programs can target populations at highest risk for injury, such as pedestrian and bicycle safety programs for urban youth, suicide prevention programs for persons age 15 to 39 or drug take-back programs in specific counties that have a higher prevalence of poisoning hospitalizations or deaths.

Findings from this report demonstrate that injuries remain an important and costly public health problem in the Commonwealth of Pennsylvania. It is our hope that this report and those to follow will lead to better identification of state and local injury problems, provide better quantification and comparisons to other health risks and, thus, serve as justification for expanded, enhanced and targeted prevention efforts. Indeed, we can prevent many injuries, once we take the time to identify the risk factors: injuries occur to high risk individuals, occur in high risk places and involve high risk activities. These numbers indeed point the way.

Injury Deaths 2005-2009

INJURY DEATHS: ALL INJURIES

In 2009, among Pennsylvania residents, there were 7,847 deaths due to injury. On average, one resident died every 67 minutes.

Injury Definition

Injury includes both unintentional injuries and self-inflicted or assault injuries (violence).

- Unintentional injuries, or accidents, occur by chance; however, one can reduce the risk of injury by taking proper precautions.
- Violence, in contrast, entails premeditated harm against oneself (suicide) or against another person (homicide).

Most injury deaths in PA are unintentional.

HIGHLIGHTS

- *Age-adjusted rates have generally been **stable** over 2005 to 2009.*
- *Most common demographic is **white males**, ages 15 to 59.*
- *Of all Pennsylvania counties, **Philadelphia** shows the highest rate.*

Trends Over Time

- The age-adjusted injury death rate increased from 2005 to 2008, from 58.0 to 60.9 deaths per 100,000 population. Rates then decreased to 57.8 deaths per 100,000 population in 2009.
- Males showed significantly higher age-adjusted injury death rates than females over 2005 to 2009 (rates were 83.5 and 33.9, respectively, in 2009).
- Black males showed significantly higher age-adjusted injury death rates than white males over 2005 to 2009 (rates were 114.8 and 81.1, respectively, in 2009).

Demographic Trends

- White males accounted for over half of all injury deaths in 2005 to 2009.
- Males showed significantly higher injury death rates than females for all age groups.
- Among males, blacks showed significantly higher injury death rates for ages less than 75, while whites showed significantly higher rates for ages 85 and older.
- Among females, blacks showed significantly higher injury death rates for ages less than 10, while whites showed significantly higher rates for ages 80 and older.

Regional Trends

- The Southwest Health District showed the highest age-specific injury death rates, while the North Central Health District showed the lowest rates. However, other districts showed high rates for certain age groups.
- Fifteen counties showed age-adjusted injury death rates for 2005 to 2009 that were significantly higher than the comparable state rate. Most counties were rural.

SUMMARY TABLE: ALL INJURY DEATHS

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES, MECHANISM BY INTENT OR BRAIN INJURY, PENNSYLVANIA RESIDENTS, 2005-2009

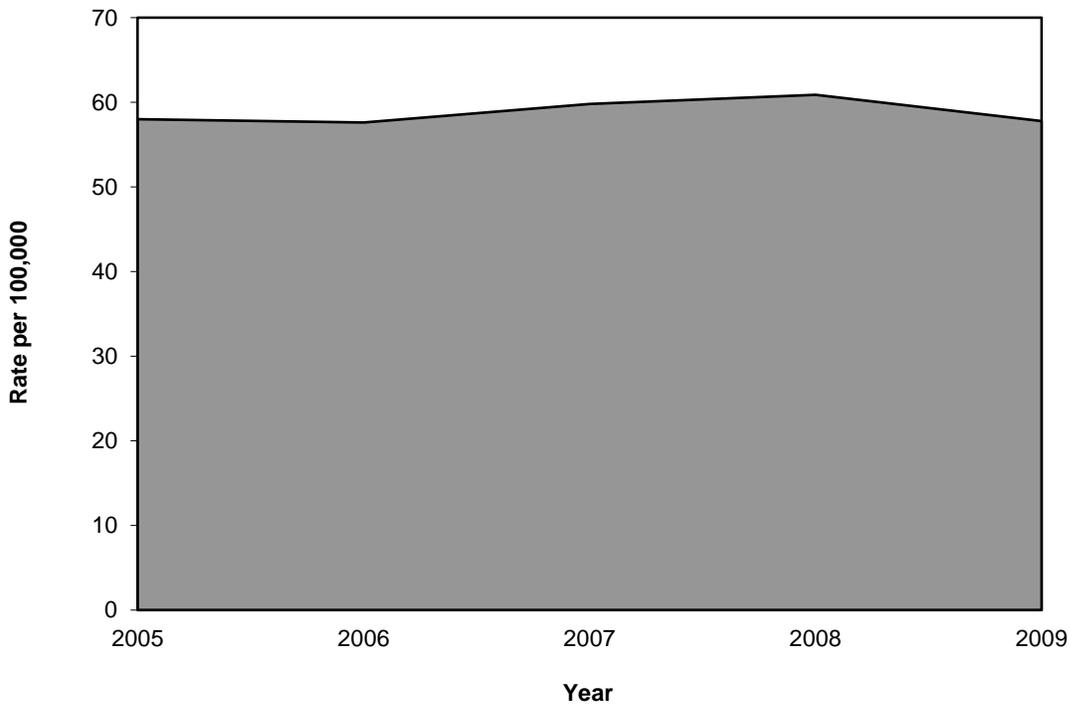
Injury Mechanism	Unintentional		Self-Inflicted		Assault		Undetermined		Total (All Intent)		95% CI (for total rate)	TBI No.
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
Fall	5,644	7.2	121	0.2	4	NA	15	NA	5,784	7.4	(7.2 - 7.6)	3,293
→ On same level	1,659	2.1	0		0		0		1,659	2.1	(2.0 - 2.2)	902
→ One level to another	1,624	2.2	121	0.2	4	NA	15	NA	1,764	2.4	(2.3 - 2.5)	1,053
→ Unspecified	2,361	3.0	0		0		0		2,361	3.0	(2.9 - 3.1)	1,338
Poisoning	7,649	12.6	1,235	1.9	28	0.0	457	0.7	9,369	15.3	(15.0 - 15.6)	47
→ Drug	7,259	12.0	901	1.4	27	0.0	422	0.7	8,609	14.1	(13.8 - 14.4)	40
→ Non-Drug	390	0.6	334	0.5	1	NA	35	0.1	760	1.2	(1.1 - 1.3)	7
Motor Vehicle Traffic	7,404	11.5	8	NA	8	NA	2	NA	7,422	11.5	(11.3 - 11.8)	2,598
→ MVT Occupant	1,401	2.2	8	NA	8	NA	2	NA	1,419	2.2	(2.1 - 2.3)	490
→ MVT Motorcyclist	963	1.6	0		0		0		963	1.6	(1.5 - 1.7)	380
→ MVT Pedal Cyclist	73	0.1	0		0		0		73	0.1	(0.1 - 0.2)	36
→ MVT Pedestrian	751	1.1	0		0		0		751	1.1	(1.1 - 1.2)	227
→ MVT Other	6	NA	0		0		0		6	NA		4
→ MVT Unspecified	4,210	6.5	0		0		0		4,210	6.5	(6.3 - 6.7)	1,461
All Pedal Cyclist	103	0.2	0		0		0		103	0.2	(0.1 - 0.2)	55
All Pedestrian	952	1.5	0		0		0		952	1.5	(1.4 - 1.5)	281
Other Transport	246	0.4	0		0		0		246	0.4	(0.3 - 0.4)	91
Firearm	137	0.2	3,781	5.8	2,665	4.4	36	0.1	6,678	10.6	(10.3 - 10.8)	4,004
Drowning	480	0.8	74	0.1	4	NA	57	0.1	615	1.0	(0.9 - 1.1)	6
Suffocation	1,622	2.2	1,763	2.8	104	0.2	33	0.1	3,522	5.3	(5.1 - 5.4)	12
Fire/Flames	810	1.2	38	0.1	39	0.1	36	0.1	923	1.4	(1.3 - 1.5)	6
Hot Object/Scald	18	NA	0		0		0		18	NA		0
Cut/Pierce	44	0.1	144	0.2	324	0.5	6	NA	518	0.8	(0.7 - 0.9)	30
Struck By/Against	174	0.3	1	NA	32	0.1	0		207	0.3	(0.3 - 0.4)	106
Machinery	183	0.3	0		0		0		183	0.3	(0.2 - 0.3)	43
Overexertion	1	NA	0		0		0		1	NA		0
Nat/Env. Causes	236	0.3	0		0		0		236	0.3	(0.3 - 0.4)	6
→ Bites and Stings	34	0.1	0		0		0		34	0.1	(0.0 - 0.1)	5
Other Spec./NEC	520	1	126	0	128	0	41	0	819	1	(1.1 - 1.3)	274
Unspecified	1,626	2.1	24	0.0	243	0.4	81	0.1	1,974	2.6	(2.5 - 2.7)	504
Total: All Mechanisms	27,025	40.2	7,315	11.4	3,579	5.9	764	1.2	38,746	58.8	(58.2 - 59.4)	11,093

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. See Technical Notes.

INJURY DEATHS: ALL INJURIES

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES PENNSYLVANIA RESIDENTS, 2005-2009

Year	No.	Rate
2005	7,589	58.0
2006	7,437	57.6
2007	7,812	59.8
2008	8,061	60.9
2009	7,847	57.8



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2005-2009

Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2005	59.0	51.1	57.1	60.0	54.6	58.8
2006	54.7	51.9	57.8	61.3	53.1	56.3
2007	62.4	50.9	61.3	62.4	55.2	59.3
2008	62.1	52.6	62.7	60.6	57.7	63.9
2009	57.0	51.4	55.2	58.0	56.5	61.7

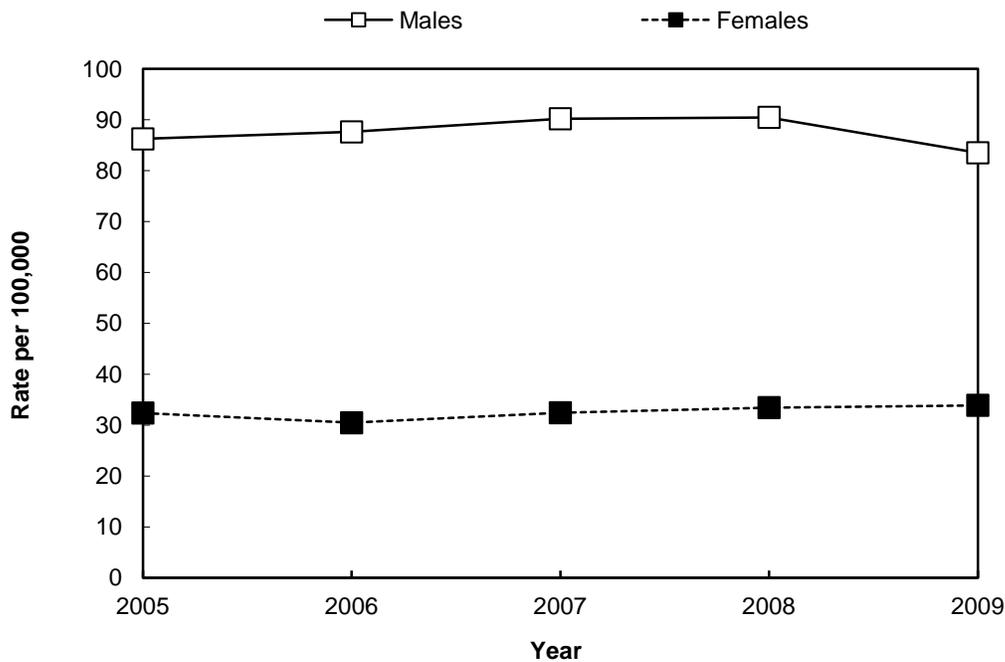
NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2005-2009 based on ICD-10 codes. See Technical Notes.

INJURY DEATHS: ALL INJURIES

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX PENNSYLVANIA RESIDENTS, 2005-2009

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2005	5,191	86.3 *	2005	2,398	32.4
2006	5,187	87.6 *	2006	2,250	30.5
2007	5,409	90.2 *	2007	2,403	32.4
2008	5,524	90.5 *	2008	2,537	33.5
2009	5,221	83.5 *	2009	2,626	33.9

* denotes a statistically significant difference between groups at level of $p = .05$



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2005-2009

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2005	85.7	87.4	2005	31.0	36.2 *
2006	89.1	83.7	2006	28.8	35.0 *
2007	90.8	88.7	2007	32.0	33.7
2008	90.3	90.9	2008	32.7	35.4
2009	82.8	85.4	2009	32.4	38.3 *

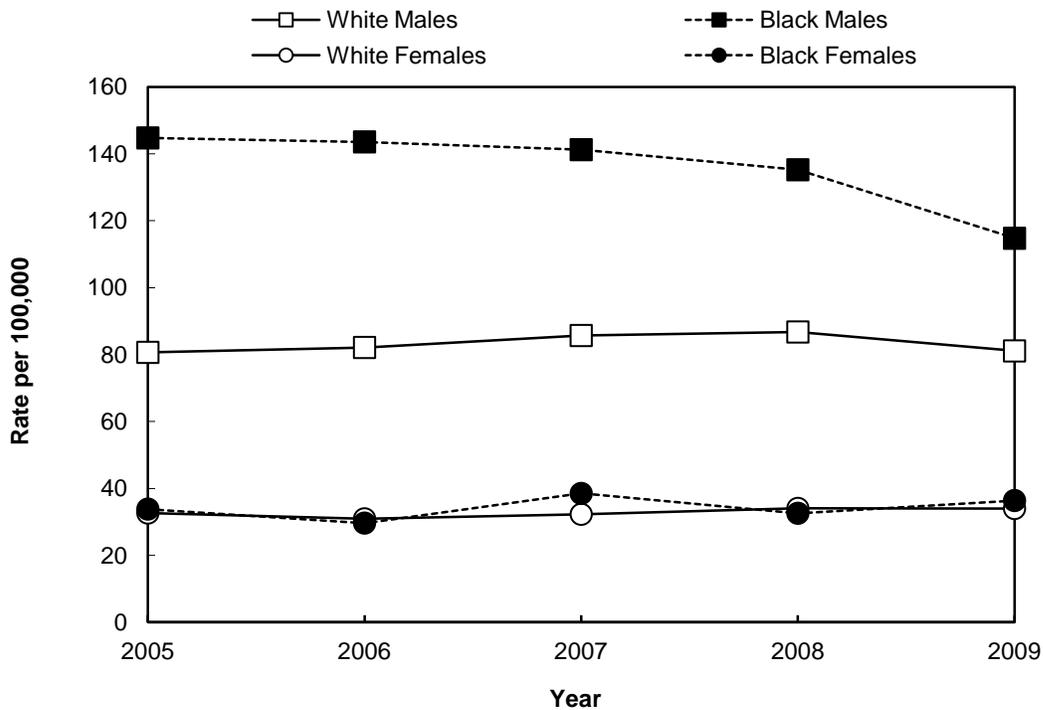
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY DEATHS: ALL INJURIES

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX AND RACE OR ETHNICITY PENNSYLVANIA RESIDENTS, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	4,267	864	2,150	225	174	52
2006	4,232	884	2,020	201	220	44
2007	4,482	872	2,114	262	226	41
2008	4,620	849	2,282	228	214	45
2009	4,421	736	2,340	257	170	45



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	80.7	144.7 *	32.7	33.8	76.6	25.0
2006	82.1	143.6 *	30.9	29.7	86.1	21.0
2007	85.7	141.2 *	32.3	38.5 *	92.0	15.3
2008	86.8	135.2 *	34.0	32.6	83.8	19.1
2009	81.1	114.8 *	34.0	36.4	61.9	16.4

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Hispanics may be of any race. Hispanic numbers include whites, blacks and others of Hispanic ethnicity. Therefore, Hispanics must not be compared to whites or blacks, as the groups are not mutually exclusive.

INJURY DEATHS: ALL INJURIES

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2005-2009

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL	
	No.	Rate								
TOTAL	38,746	62.1	26,532	87.6	12,214	38.1	27,640	61.2	11,106	64.7
< 5	513	13.9	305	16.2	208	11.6	350	12.7	163	17.6
5-9	177	4.6	116	5.9	61	3.3	120	4.3	57	5.8
10-14	276	6.8	194	9.4	82	4.1	168	5.6	108	10.1
15-19	1,963	42.3	1,501	64.2	462	20.1	1,400	42.0	563	43.1
20-24	3,360	76.5	2,728	122.4	632	29.2	2,489	78.9	871	70.1
25-29	2,864	78.2	2,335	124.7	529	29.5	2,106	77.1	758	81.3
30-34	2,342	62.4	1,822	96.6	520	27.9	1,685	61.2	657	65.9
35-39	2,615	63.9	1,934	95.0	681	33.1	1,880	62.7	735	67.2
40-44	3,150	70.5	2,273	102.7	877	38.9	2,277	69.7	873	72.5
45-49	3,481	75.3	2,502	109.7	979	41.8	2,540	75.6	941	74.5
50-54	2,981	67.3	2,219	102.4	762	33.7	2,186	68.4	795	64.6
55-59	2,166	55.0	1,575	82.6	591	29.1	1,557	55.3	609	54.2
60-64	1,486	45.3	1,073	68.8	413	24.0	1,020	44.1	466	48.3
65-69	1,221	46.4	840	69.8	381	26.7	813	44.3	408	51.4
70-74	1,322	59.1	843	86.4	479	38.0	866	55.2	456	68.1
75-79	1,871	98.8	1,110	144.3	761	67.6	1,285	96.3	586	104.7
80-84	2,508	176.3	1,350	252.4	1,158	130.4	1,737	171.5	771	188.2
85 +	4,437	328.3	1,799	446.1	2,638	278.2	3,153	325.5	1,284	335.5

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY DEATHS: ALL INJURIES

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2005-2009

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
TOTAL	22,022	84.6	4,205	132.9	10,906	39.7	1,173	33.5	1,231	43.5		
< 5	206	13.5	91	35.4	*	144	9.9	58	23.2	*	46	14.3
5-9	82	5.2	33	12.6	*	41	2.7	19	7.5	*	12	4.2
10-14	143	8.4	46	16.3	*	63	3.9	18	6.6		15	5.5
15-19	1,007	52.2	478	155.0	*	405	21.3	49	16.2	*	76	27.0
20-24	2,018	109.7	658	223.5	*	529	29.7	92	31.7		179	72.3
25-29	1,763	114.2	529	212.9	*	448	30.6	69	28.0		175	76.5
30-34	1,415	89.6	387	177.2	*	435	28.2	76	33.0		137	64.0
35-39	1,574	90.6	338	158.2	*	579	33.4	90	38.2		148	70.0
40-44	1,928	100.3	316	146.8	*	761	39.3	105	43.1		120	63.1
45-49	2,156	107.1	328	159.8	*	842	41.3	128	53.7	*	97	58.2
50-54	1,879	97.0	319	180.4	*	671	33.8	84	39.2		70	57.7
55-59	1,343	78.0	220	155.9	*	518	28.7	68	37.8		44	46.4
60-64	938	66.1	126	118.5	*	360	23.4	47	33.0		35	54.0
65-69	756	68.4	73	96.2	*	336	26.0	38	35.2		16	35.9
70-74	763	84.8	71	117.7	*	437	38.0	39	41.4		18	57.2
75-79	1,036	144.9	64	145.7		704	68.0	44	57.1		17	74.6
80-84	1,277	256.5	66	218.2		1,103	134.7	48	80.6	*	8	NA
85 +	1,731	463.6	59	241.6	*	2,530	288.9	101	164.1	*	18	121.5

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Hispanics may be of any race; therefore, their rates must not be compared to whites or blacks.

INJURY DEATHS: ALL INJURIES

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2005-2009

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	2,934	63.1	1,852	54.5	4,852	62.2	15,504	62.5	4,710	58.0	8,894	65.5
< 5	52	20.2 +	25	14.2	60	13.9	191	11.9 -	80	16.3	105	14.6
5-9	21	7.6 +	13	7.2	27	5.9	65	4.0	22	4.4	29	3.8
10-14	22	7.3	21	10.7 +	36	7.1	94	5.6 -	43	8.1	60	7.3
15-19	129	36.4	105	33.0 -	235	40.6	855	46.1 +	260	45.3	379	39.6
20-24	222	69.8	149	41.8 -	423	78.8	1,506	85.4 +	382	72.2	678	76.0
25-29	183	70.0	114	65.5	363	82.4	1,251	80.3	326	67.5 -	627	83.9
30-34	173	63.6	111	57.8	269	59.2	995	64.0	269	54.1 -	525	67.4
35-39	189	65.0	111	53.8	339	66.9	1,077	63.9	309	56.8 -	590	68.6
40-44	218	67.8	134	59.5	389	69.8	1,384	76.5 +	345	58.1 -	680	70.6
45-49	260	76.3	140	59.8 -	433	74.9	1,461	79.9 +	370	60.7 -	817	79.1
50-54	256	77.3 +	113	49.6 -	379	67.6	1,227	71.8 +	324	55.5 -	682	67.2
55-59	141	47.2	111	53.6	269	52.9	858	57.8	263	49.6	524	57.6
60-64	123	48.0	90	50.7	182	41.3	557	46.1	181	41.3	353	46.6
65-69	116	54.9	59	39.2	167	47.3	441	46.5	159	44.7	279	45.6
70-74	123	67.2	68	53.7	162	55.0	463	57.8	199	67.8	307	57.0
75-79	156	100.3	130	124.9 +	240	98.2	606	89.8 -	250	104.1	489	102.9
80-84	209	181.2	129	168.1	312	172.9	873	171.2	346	201.3 +	639	173.4
85 +	340	320.4	229	324.7	564	331.4	1,593	322.6	580	369.5 +	1,131	319.7

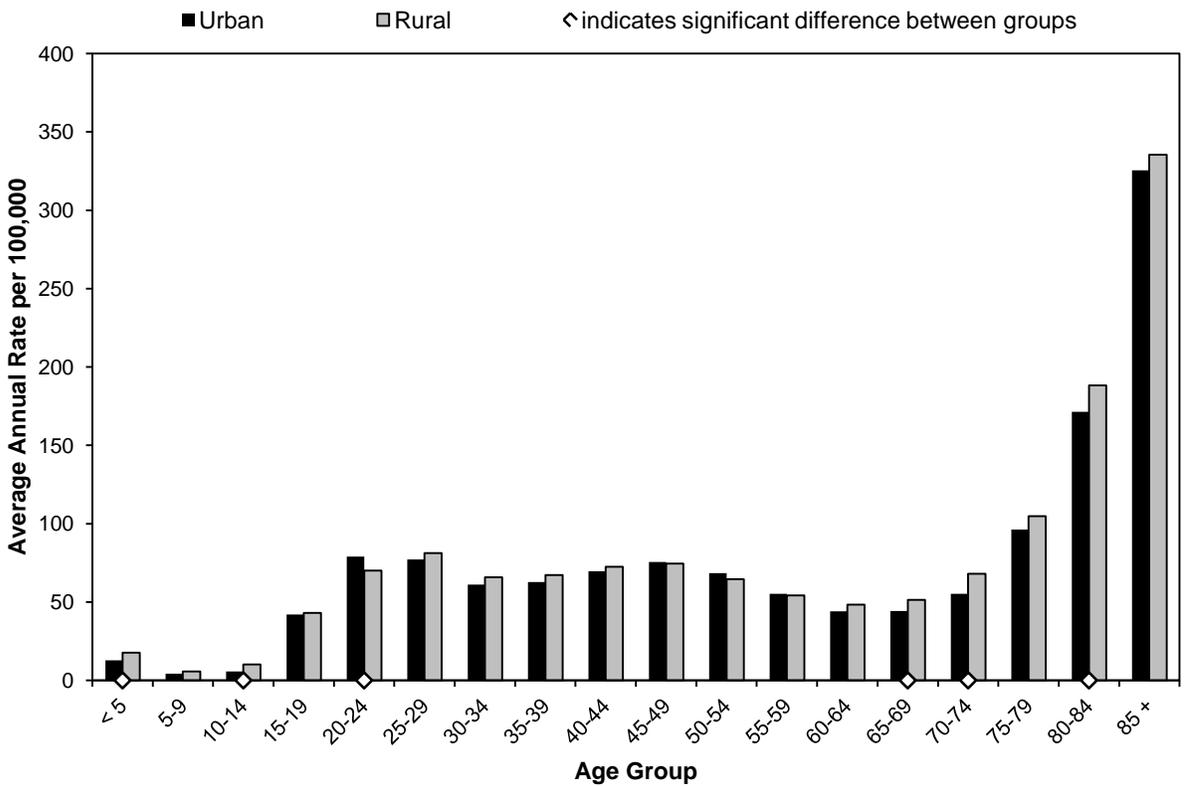
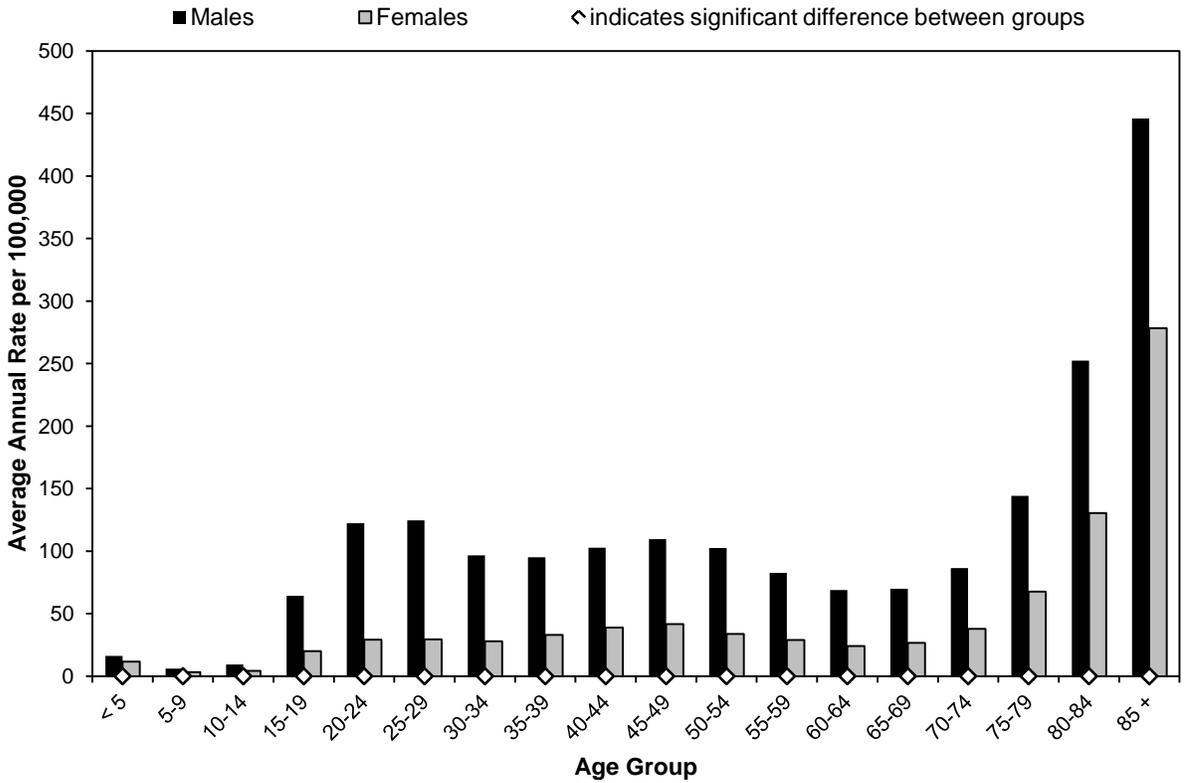
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total.

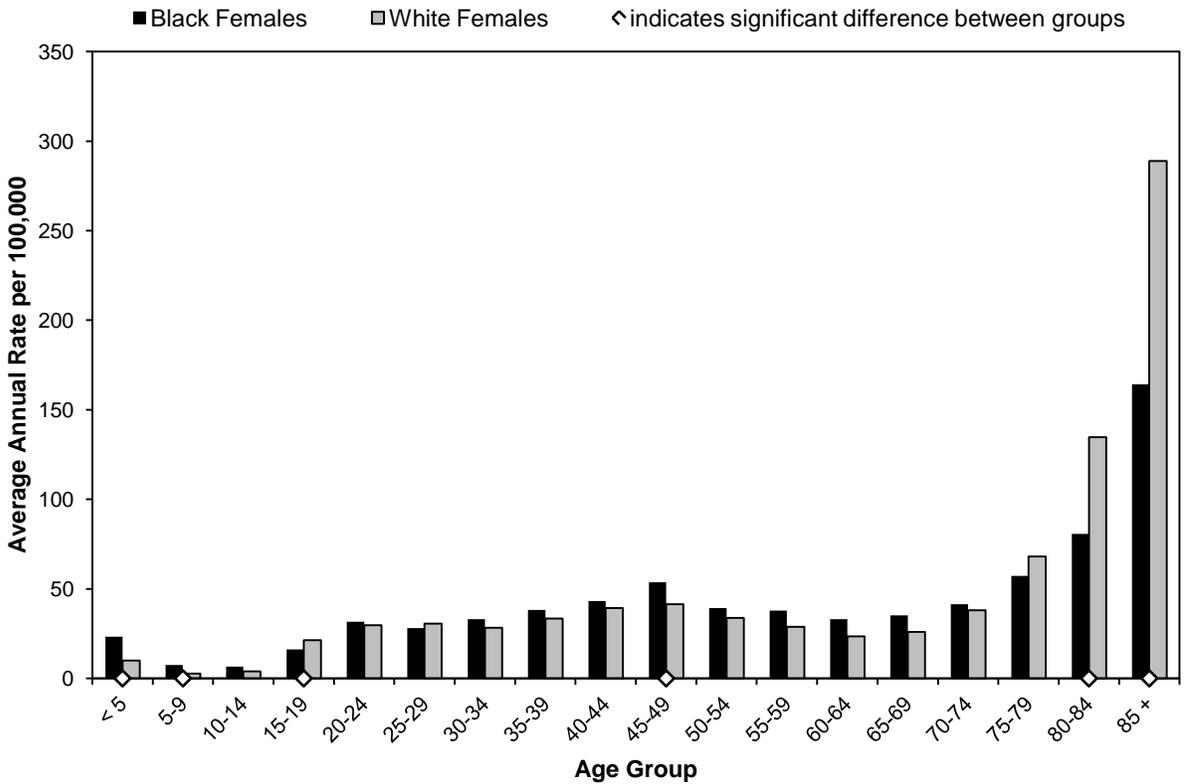
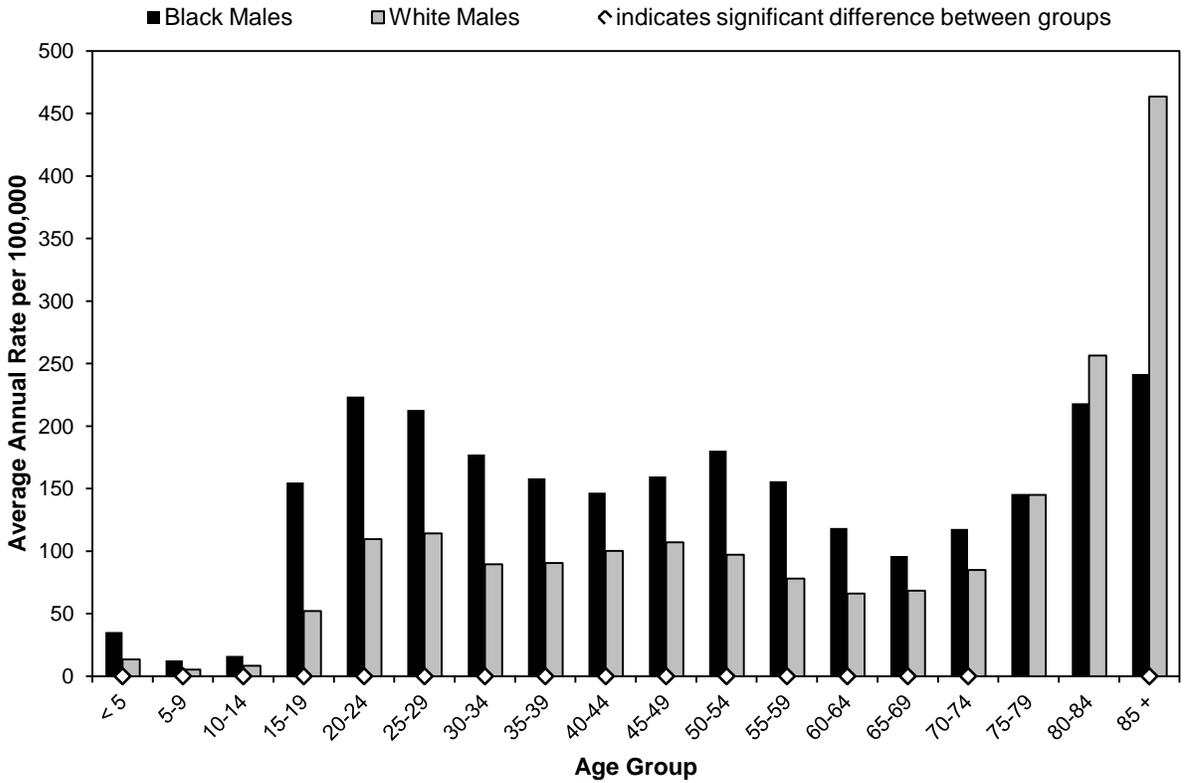
INJURY DEATHS: ALL INJURIES

AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2005-2009



INJURY DEATHS: ALL INJURIES

AVERAGE ANNUAL DEATH RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2005-2009



INJURY DEATHS: ALL INJURIES

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2005-2009

District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
Northeast	4,852	58.8	57.1-60.4	Southeast	15,504	60.4	59.5-61.4 +
Carbon	243	70.0	61.2-78.8 +	Berks	1,130	54.6	51.4-57.8 -
Lackawanna	674	59.9	55.4-64.4	Bucks	1,591	50.9	48.4-53.4 -
Lehigh	1,026	57.0	53.5-60.5	Chester	1,014	42.1	39.5-44.7 -
Luzerne	1,068	64.2	60.4-68.1 +	Delaware	1,772	60.3	57.5-63.1
Monroe	527	64.7	59.1-70.2	Lancaster	1,251	48.7	46.0-51.4 -
Northampton	718	45.8	42.5-49.2 -	Montgomery	1,959	47.0	44.9-49.1 -
Pike	150	50.8	42.7-58.9	Philadelphia	6,226	83.2	81.1-85.3 +
Susquehanna	142	67.2	56.1-78.2	Schuylkill	561	69.7	63.9-75.5 +
Wayne	197	76.5	65.8-87.2 +				
Wyoming	107	78.3	63.5-93.2 +				
North Central	1,852	51.4	49.1-53.8 -	South Central	4,710	55.3	53.7-56.9 -
Bradford	186	58.7	50.2-67.1	Adams	275	53.4	47.1-59.7
Centre	276	44.0	38.8-49.1 -	Bedford	182	71.6	61.2-82.0 +
Clinton	117	61.2	50.1-72.3	Blair	475	69.9	63.7-76.2 +
Columbia	188	55.7	47.8-63.7	Cumberland	528	43.0	39.4-46.7 -
Lycoming	329	51.1	45.6-56.6 -	Dauphin	702	53.2	49.3-57.2 -
Montour	57	63.1	46.7-79.5	Franklin	402	52.9	47.7-58.0 -
Northumberland	293	58.7	52.0-65.4	Fulton	62	79.9	60.0-99.8 +
Potter	67	77.9	59.2-96.5	Huntingdon	148	61.8	51.8-71.7
Snyder	102	51.0	41.1-60.9	Juniata	83	68.9	54.1-83.8
Sullivan	16	NA		Lebanon	318	45.9	40.9-51.0 -
Tioga	114	52.0	42.4-61.5	Mifflin	154	63.8	53.8-73.9
Union	107	46.6	37.8-55.4 -	Perry	146	66.1	55.4-76.9
				York	1,235	57.4	54.2-60.6
Northwest	2,934	59.0	56.9-61.1	Southwest	8,894	60.0	58.7-61.2
Cameron	29	103.3	65.7-141.0 +	Allegheny	3,874	57.9	56.1-59.7
Clarion	125	59.9	49.4-70.5	Armstrong	237	64.6	56.4-72.9
Clearfield	308	68.8	61.1-76.5 +	Beaver	557	58.4	53.5-63.2
Crawford	312	66.4	59.1-73.8	Butler	486	51.2	46.6-55.7 -
Elk	105	58.8	47.5-70.0	Cambria	592	73.8	67.9-79.8 +
Erie	745	50.9	47.2-54.5 -	Fayette	515	67.0	61.3-72.8 +
Forest	23	66.2	39.2-93.3	Greene	152	72.3	60.8-83.8 +
Jefferson	156	66.1	55.7-76.5	Indiana	303	66.0	58.6-73.4
Lawrence	277	55.5	49.0-62.1	Somerset	291	64.9	57.5-72.4
McKean	129	55.7	46.1-65.3	Washington	635	57.0	52.5-61.4
Mercer	391	62.0	55.8-68.1	Westmoreland	1,252	62.6	59.1-66.1
Venango	182	62.4	53.3-71.4				
Warren	152	71.0	59.7-82.3 +	Pennsylvania	38,746	58.8	58.2-59.4

NOTE: Rates based on less than 20 events are unreliable and were not calculated. See Technical Notes.

+/- denotes that the county's rate is significantly higher or lower than the state at the p=.05 level.

INJURY DEATHS: ALL INJURIES

TOTAL NUMBER OF INJURY DEATHS AND AVERAGE ANNUAL DEATH RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2005-2009

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	26,532	12,214	38,746	2,929	18.1	8,566	72.5	9,246	70.1	6,633	57.0	11,359	119.1
Northeast	3,277	1,575	4,852	358	18.1	1,055	73.7	1,161	70.7	830	55.0	1,445	116.3
Carbon	174	69	243	8	NA	52	85.5	49	73.6	64	99.8	68	125.8
Lackawanna	467	207	674	45	17.8	164	83.7	154	73.5	115	58.1	196	103.0
Lehigh	661	365	1,026	65	14.7	192	60.1	214	60.6	163	51.6	392	153.5
Luzerne	716	352	1,068	63	17.5	260	90.7	295	90.2	173	57.3	277	96.2
Monroe	353	174	527	69	29.3	110	75.0	145	76.9	94	59.6	109	112.6
Northampton	481	237	718	55	13.9	127	46.1	157	51.2	117	42.8	262	122.0
Pike	106	44	150	12	17.0	31	66.6	41	61.5	39	58.7	26	60.3
Susquehanna	107	35	142	9	NA	41	118.1	33	78.4	22	47.9	37	110.5
Wayne	134	63	197	20	35.4	49	116.9	49	92.5	25	42.8	54	116.6
Wyoming	78	29	107	12	30.8	29	123.1	24	83.2	18	64.6	24	117.3
Southeast	10,885	4,619	15,504	1,205	17.8	3,752	76.9	3,922	73.7	2,642	60.0	3,976	116.0
Berks	782	348	1,130	70	12.4	240	64.6	276	64.1	186	52.0	358	125.8
Bucks	1,077	514	1,591	97	11.9	340	64.7	402	54.6	279	45.2	473	112.5
Chester	674	340	1,014	73	10.6	234	52.6	230	41.2	192	43.0	285	96.9
Delaware	1,188	584	1,772	113	15.0	385	72.5	430	72.9	312	61.6	531	133.1
Lancaster	849	402	1,251	129	18.1	247	51.9	276	54.3	192	44.1	406	112.7
Montgomery	1,234	725	1,959	104	10.3	353	50.6	440	49.8	294	40.5	768	133.6
Philadelphia	4,700	1,526	6,226	573	27.6	1,843	108.7	1,719	118.5	1,099	93.6	987	103.0
Schuylkill	381	180	561	46	28.5	110	81.7	149	89.9	88	63.6	168	123.3

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	26,532	12,214	38,746	2,929	18.1	8,566	72.5	9,246	70.1	6,633	57.0	11,359	119.1
North Central	1,247	605	1,852	164	18.8	374	51.8	385	57.9	314	51.3	615	116.4
Bradford	134	52	186	19	23.9	41	78.4	44	68.1	31	51.1	51	98.8
Centre	185	91	276	19	9.9	65	29.9	58	46.9	56	53.4	78	98.5
Clinton	81	36	117	5	NA	29	80.5	27	77.8	22	65.8	34	109.1
Columbia	135	53	188	14	16.3	32	46.3	40	67.6	33	56.9	69	131.2
Lycoming	196	133	329	27	18.6	55	48.8	68	56.5	60	53.4	119	123.8
Montour	40	17	57	8	NA	12	85.6	12	64.9	11	60.0	14	87.0
Northumberland	198	95	293	24	22.5	61	80.3	62	63.6	44	47.8	102	118.9
Potter	47	20	67	8	NA	22	160.6	9	NA	8	NA	20	130.4
Snyder	67	35	102	15	28.9	15	37.5	21	55.4	10	29.2	41	151.2
Sullivan	10	6	16	0	NA	1	NA	2	NA	6	NA	7	NA
Tioga	74	40	114	16	28.1	15	42.3	22	58.5	22	55.9	39	109.8
Union	80	27	107	9	NA	26	50.7	20	41.2	11	30.7	41	134.1
South Central	3,153	1,557	4,710	405	19.3	977	64.7	1,024	58.6	768	49.5	1,534	125.9
Adams	201	74	275	28	20.5	66	69.9	65	59.7	41	43.6	75	105.5
Bedford	115	67	182	19	30.9	38	90.1	43	81.4	25	50.8	57	131.5
Blair	313	162	475	29	18.6	89	78.4	113	88.5	70	56.8	174	158.9
Cumberland	368	160	528	44	15.1	113	49.2	113	48.1	93	44.3	164	94.9
Dauphin	476	226	702	61	18.4	170	73.9	141	49.0	135	53.4	195	110.2
Franklin	268	134	402	34	18.2	74	56.9	78	55.1	66	49.9	149	127.9
Fulton	44	18	62	5	NA	13	95.8	14	89.5	9	NA	21	176.2
Huntingdon	87	61	148	18	34.1	31	66.8	32	64.4	22	50.3	45	126.5
Juniata	63	20	83	10	32.5	16	79.2	18	75.3	13	58.3	26	135.0
Lebanon	203	115	318	29	18.0	63	50.9	56	43.6	60	49.8	110	104.0
Mifflin	102	52	154	18	29.6	32	82.3	28	60.0	21	48.3	55	132.8
Perry	105	41	146	10	16.4	29	71.7	54	108.4	14	30.5	39	136.1
York	808	427	1,235	100	18.3	243	62.9	269	56.2	199	49.7	424	148.4

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	26,532	12,214	38,746	2,929	18.1	8,566	72.5	9,246	70.1	6,633	57.0	11,359	119.1
Northwest	1,987	947	2,934	224	18.9	578	67.9	667	70.0	520	58.7	944	122.4
Cameron	22	7	29	3	NA	3	NA	10	196.9	3	NA	10	188.1
Clarion	92	33	125	9	NA	32	81.7	28	74.4	19	51.2	37	110.7
Clearfield	212	96	308	24	26.3	65	86.8	67	72.6	52	64.0	100	138.3
Crawford	221	91	312	25	21.1	61	76.9	68	77.3	58	66.5	100	140.2
Elk	82	23	105	5	NA	24	94.3	21	57.4	22	68.5	33	109.7
Erie	508	237	745	54	14.3	142	49.8	177	62.1	142	56.6	230	114.3
Forest	13	10	23	2	NA	2	NA	4	NA	3	NA	12	214.2
Jefferson	102	54	156	22	39.8	30	76.2	34	73.4	22	49.4	48	117.2
Lawrence	173	104	277	19	16.5	50	65.8	66	71.6	53	60.1	88	103.7
McKean	91	38	129	4	NA	28	70.5	32	67.5	24	59.9	41	110.8
Mercer	243	148	391	28	18.4	77	76.3	86	73.2	72	64.2	128	122.4
Venango	122	60	182	14	20.4	40	88.3	34	60.5	29	50.9	65	136.6
Warren	106	46	152	15	30.2	24	73.1	40	93.1	21	48.1	52	140.7
Southwest	5,983	2,911	8,894	573	17.5	1,830	75.7	2,087	73.1	1,559	58.1	2,845	121.2
Allegheny	2,673	1,201	3,874	256	17.2	817	73.2	919	71.6	707	59.7	1,175	112.6
Armstrong	153	84	237	15	17.5	43	80.1	64	87.2	26	37.0	89	139.9
Beaver	370	187	557	37	18.1	123	85.0	110	59.8	94	52.8	193	121.1
Butler	304	182	486	39	15.9	110	67.8	103	51.1	82	47.3	152	114.7
Cambria	401	191	592	39	23.3	120	93.5	150	100.3	99	68.0	184	133.7
Fayette	346	169	515	32	18.7	112	91.9	128	83.4	88	58.7	155	122.0
Greene	92	60	152	15	33.1	44	111.5	30	69.6	27	66.6	36	120.5
Indiana	219	84	303	15	13.0	58	62.5	62	76.2	63	77.6	105	152.4
Somerset	197	94	291	20	23.3	54	75.9	48	56.8	50	65.8	119	164.5
Washington	418	217	635	35	14.0	125	67.4	154	72.5	112	54.2	209	117.3
Westmoreland	810	442	1,252	70	16.8	224	74.2	319	82.1	211	55.9	428	127.9

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY DEATHS: ALL INJURIES

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2005-2009

BLACK POPULATION BY COUNTY				WHITE POPULATION BY COUNTY				HISPANIC POPULATION BY COUNTY			
County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)
Allegheny	817	102.5	95.5-109.6 +	Allegheny	3,024	51.5	49.7-53.3 -	Berks	126	54.6	45.1-64.1
Chester	85	57.4	45.2-69.6 -	Chester	918	42.4	39.6-45.1 -	Lancaster	68	43.2	32.9-53.4
Dauphin	143	65.7	54.9-76.4 -	Dauphin	551	51.4	47.1-55.7 -	Lehigh	110	54.5	44.3-64.6
Delaware	325	65.4	58.3-72.5 -	Delaware	1,422	60.8	57.6-63.9 +	Philadelphia	539	75.1	68.7-81.4 +
Montgomery	150	44.9	37.8-52.1 -	Montgomery	1,764	48.6	46.4-50.9 -				
Philadelphia	3,162	94.8	91.5-98.1 +	Philadelphia	2,910	79.8	76.9-82.7 +				
Pennsylvania	5,378	81.5	79.3-83.7	Pennsylvania	32,928	56.8	56.2-57.5	Pennsylvania	1,231	48.9	46.1-51.6

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2005-2009

Select Counties	Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+		
		Male	Female			All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.
Allegheny	Black	13.3%	638	179	817	21.1%	137	49.2	276	162.1	190	123.7	127	103.6	87	96.3
	White	83.2%	2,010	1,014	3,024	78.1%	117	10.3	524	58.9	722	66.4	576	55.5	1,085	115.4
Chester	Black	6.2%	64	21	85	8.4%	8	NA	30	85.0	15	50.8	20	91.3	12	79.0
	White	89.7%	602	316	918	90.5%	65	10.7	198	51.0	213	42.4	171	41.4	271	99.2
Dauphin	Black	17.8%	104	39	143	20.4%	21	26.6	55	117.1	31	63.9	21	60.7	15	78.2
	White	77.5%	365	186	551	78.5%	40	17.5	113	66.1	107	47.3	111	52.6	180	116.4
Delaware	Black	18.1%	258	67	325	18.3%	43	25.8	129	104.3	73	68.8	38	57.3	41	106.3
	White	76.4%	913	509	1,422	80.2%	69	12.9	247	66.1	352	78.8	269	64.3	485	138.2
Montgomery	Black	8.7%	107	43	150	7.7%	22	22.4	39	51.1	48	59.8	20	37.0	21	70.2
	White	84.6%	1,099	665	1,764	90.0%	79	9.6	308	54.5	383	51.9	263	41.4	731	138.5
Philadelphia	Black	45.8%	2,497	665	3,162	50.8%	430	39.3	1,044	141.7	794	119.2	533	103.9	359	100.2
	White	46.9%	2,092	818	2,910	46.7%	124	15.2	749	93.5	888	130.0	549	93.0	600	106.4
Pennsylvania	Black	10.7%	4,205	1,173	5,378	13.9%	792	36.2	1,811	118.5	1,305	96.5	864	89.9	603	95.0
	White	85.9%	22,022	10,906	32,928	85.0%	2,091	15.8	6,608	67.7	7,840	68.9	5,709	54.9	10,673	121.8

INJURY DEATHS: UNINTENTIONAL FALLS

In 2009, among Pennsylvania residents, there were 1,329 deaths due to unintentional falls. On average, one resident died every seven hours.

Injury Definition

Unintentional falls include:

- slips, trips and stumbles on same level
- falls due to collision with another person
- falls down stairs, off a toilet, bed or chair, or another fall from one level to another.

The type of fall often varies by age and gender.

Falls involving intentionally jumping off or being pushed from a high place are *not* included.

HIGHLIGHTS

- *Age-adjusted rates have generally been **increasing** over 2005 to 2009.*
- *Most common demographic is residents age **80 and older**.*
- *Of all Pennsylvania counties, **York and Lehigh** show the highest rates.*

Trends Over Time

- The age-adjusted death rate for unintentional falls increased by 30 percent from 2005 to 2008, from 6.1 to 8.0 deaths per 100,000 population. The rate stayed constant in 2009.
- Males showed significantly higher age-adjusted falls death rates than females over 2005 to 2009 (rates were 10.3 and 6.2, respectively, in 2009).
- White males and females showed higher age-adjusted falls death rates than black males and females over 2005 to 2009.

Demographic Trends

- Males showed significantly higher falls death rates than females for ages 40 and older.
- White males and females showed significantly higher falls death rates than black males and females for ages 80 and older.
- Ages 80 and older accounted for over half of all falls deaths. While males showed the higher rates in this age group; females (esp. white females) represent the majority of falls deaths in this age group. This reflects disparities in underlying population.

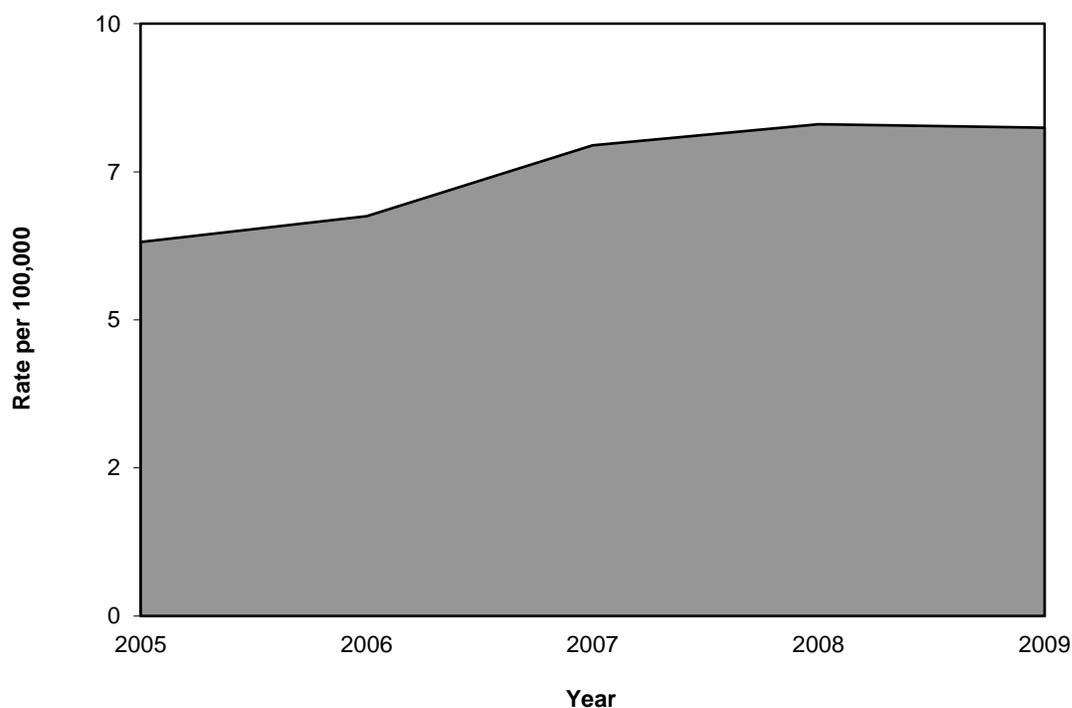
Regional Trends

- The South Central Health District showed the highest age-specific falls death rates, while the Northwest Health District showed the lowest rates.
- Nine counties showed age-adjusted falls death rates for 2005 to 2009 that were significantly higher than the comparable state rate: Blair, Bucks, Cambria, Delaware, Lehigh, Montgomery, Somerset, Westmoreland and York. Most counties were urban.

INJURY DEATHS: UNINT. FALLS

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES PENNSYLVANIA RESIDENTS, 2005-2009

Year	No.	Rate
2005	943	6.1
2006	953	6.5
2007	1,153	7.6
2008	1,266	8.0
2009	1,329	7.9



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2005-2009

Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2005	4.9	5.6	6.2	6.3	6.3	6.0
2006	6.3	5.3	5.6	6.1	7.7	7.2
2007	6.8	7.3	7.4	8.1	8.2	7.1
2008	6.0	7.4	7.7	7.2	8.6	9.7
2009	7.3	5.9	6.3	8.3	8.9	8.4

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population.

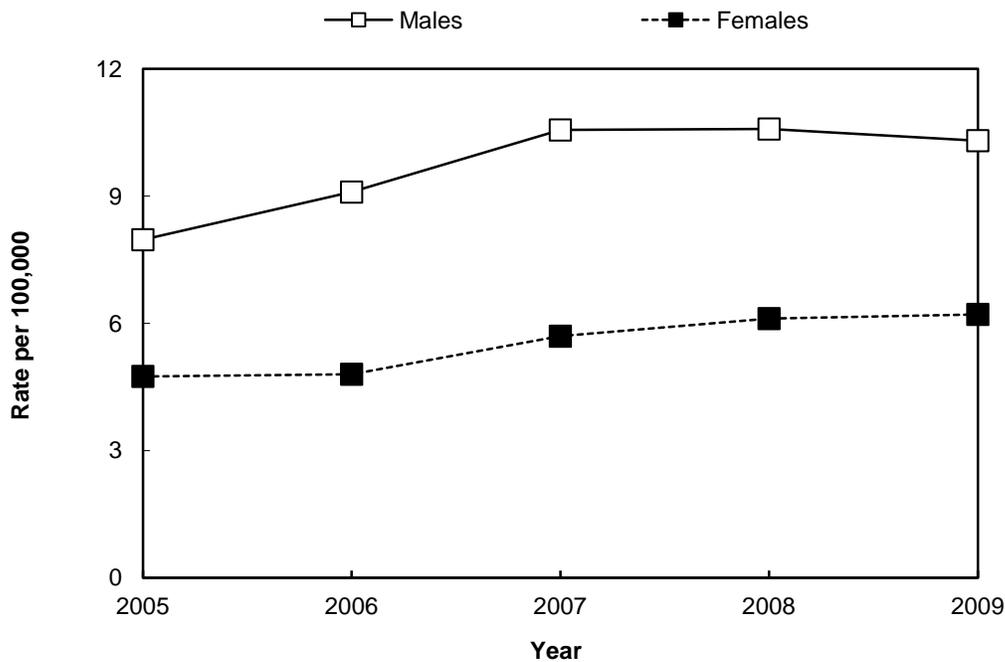
Rates are per 100,000. Data for 2005-2009 based on ICD-10 codes. See Technical Notes.

INJURY DEATHS: UNINT. FALLS

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX PENNSYLVANIA RESIDENTS, 2005-2009

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2005	466	8.0 *	2005	477	4.8
2006	493	9.1 *	2006	460	4.8
2007	598	10.6 *	2007	555	5.7
2008	641	10.6 *	2008	625	6.1
2009	660	10.3 *	2009	669	6.2

** denotes a statistically significant difference between groups at level of $p = .05$*



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2005-2009

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2005	7.7	8.6	2005	4.9	4.2
2006	9.3	8.7	2006	4.8	4.7
2007	11.3	8.8	2007	5.6	5.9
2008	10.7	10.2	2008	6.2	6.0
2009	10.4	10.0	2009	6.3	6.0

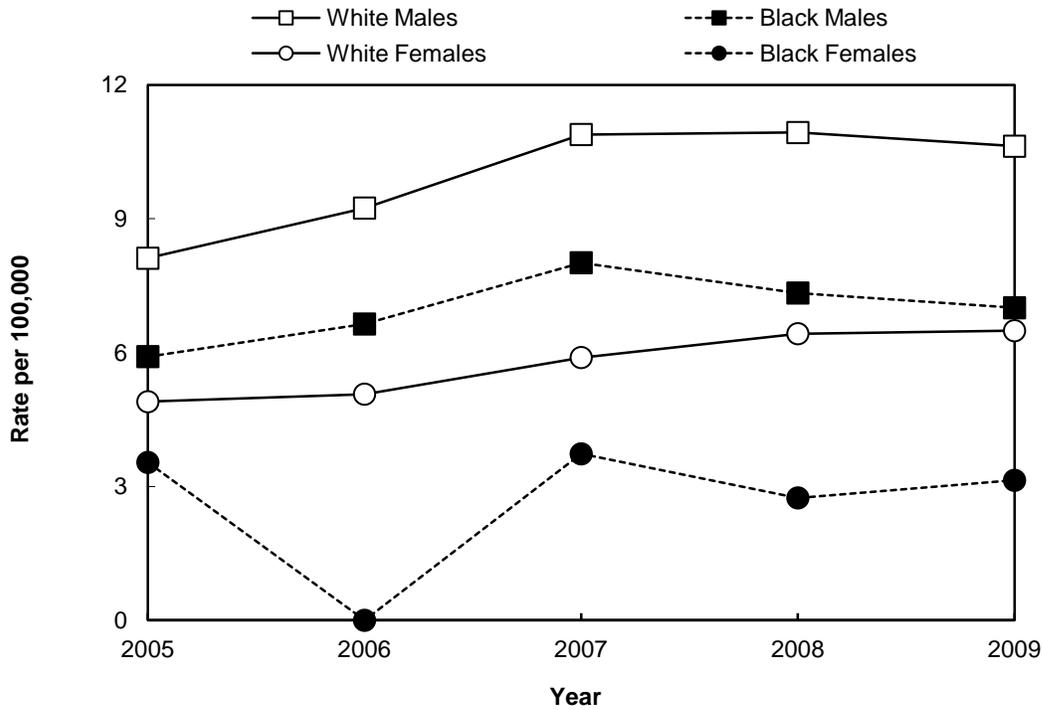
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY DEATHS: UNINT. FALLS

**TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES BY SEX AND RACE OR ETHNICITY
PENNSYLVANIA RESIDENTS, 2005-2009**

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	436	24	454	22	1	3
2006	455	29	446	13	7	2
2007	563	32	529	25	14	1
2008	603	36	602	20	8	5
2009	623	31	644	22	6	3



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	8.1	5.9	4.9	3.5	NA	NA
2006	9.2	6.6	5.1	NA	NA	NA
2007	10.9	8.0	5.9	3.7 *	NA	NA
2008	10.9	7.3 *	6.4	2.7 *	NA	NA
2009	10.6	7.0 *	6.5	3.1 *	NA	NA

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Hispanics may be of any race. Hispanic numbers include whites, blacks and others of Hispanic ethnicity. Therefore, Hispanics must not be compared to whites or blacks, as the groups are not mutually exclusive.

INJURY DEATHS: UNINT. FALLS

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2005-2009

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL	
	No.	Rate								
TOTAL	5,644	9.1	2,858	9.4	2,786	8.7	4,087	9.0	1,557	9.1
< 5	14	0.4	8	NA	6	NA	8	NA	6	NA
5-9	4	NA	2	NA	2	NA	3	NA	1	NA
10-14	2	NA	0	NA	2	NA	2	NA	0	NA
15-19	15	0.3	11	0.5	4	NA	14	0.4	1	NA
20-24	33	0.8	22	1.0	11	0.5	25	0.8	8	NA
25-29	31	0.8	26	1.4	5	NA	25	0.9	6	NA
30-34	26	0.7	18	1.0	8	NA	16	0.6	10	1.0
35-39	42	1.0	37	1.8	5	NA	28	0.9	14	1.3
40-44	92	2.1	72	3.3	20	0.9	66	2.0	26	2.2
45-49	136	2.9	104	4.6	32	1.4	103	3.1	33	2.6
50-54	156	3.5	121	5.6	35	1.5	111	3.5	45	3.7
55-59	197	5.0	143	7.5	54	2.7	146	5.2	51	4.5
60-64	209	6.4	136	8.7	73	4.2	143	6.2	66	6.8
65-69	262	10.0	162	13.5	100	7.0	198	10.8	64	8.1
70-74	345	15.4	199	20.4	146	11.6	226	14.4	119	17.8
75-79	687	36.3	365	47.4	322	28.6	494	37.0	193	34.5
80-84	1,149	80.8	576	107.7	573	64.5	819	80.8	330	80.5
85 +	2,242	165.9	854	211.8	1,388	146.4	1,659	171.3	583	152.3

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY DEATHS: UNINT. FALLS

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2005-2009

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	2,680	10.3	152	4.8	2,675	9.7	102	2.9	50	1.8
< 5	6	NA	2	NA	4	NA	1	NA	2	NA
5-9	0	NA	2	NA	2	NA	0	NA	0	NA
10-14	0	NA	0	NA	2	NA	0	NA	0	NA
15-19	11	0.6	0	NA	4	NA	0	NA	0	NA
20-24	21	1.1	1	NA	9	NA	2	NA	2	NA
25-29	22	1.4	2	NA	4	NA	1	NA	5	NA
30-34	16	1.0	2	NA	6	NA	2	NA	0	NA
35-39	31	1.8	6	NA	4	NA	1	NA	2	NA
40-44	64	3.3	4	NA	19	1.0	1	NA	2	NA
45-49	96	4.8	6	NA	26	1.3	6	NA	4	NA
50-54	101	5.2	17	9.6	34	1.7	1	NA	2	NA
55-59	118	6.9	24	17.0	45	2.5	9	NA	5	NA
60-64	123	8.7	13	12.2	70	4.6	3	NA	4	NA
65-69	151	13.7	10	13.2	94	7.3	6	NA	1	NA
70-74	186	20.7	12	19.9	133	11.6	12	12.7	4	NA
75-79	349	48.8	11	25.0	304	29.4	15	19.5	8	NA
80-84	551	110.7	22	72.7	554	67.7	16	26.9	2	NA
85 +	832	222.8	18	73.7	1,361	155.4	26	42.3	7	NA

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Hispanics may be of any race; therefore, their rates must not be compared to whites or blacks.

INJURY DEATHS: UNINT. FALLS

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2005-2009

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	387	8.3	259	7.6	665	8.5	2,074	8.4	761	9.4	1,498	11.0
< 5	0	NA	2	NA	2	NA	6	NA	2	NA	2	NA
5-9	1	NA	0	NA	1	NA	2	NA	0	NA	0	NA
10-14	0	NA	0	NA	1	NA	1	NA	0	NA	0	NA
15-19	0	NA	0	NA	1	NA	8	NA	3	NA	3	NA
20-24	3	NA	0	NA	6	NA	14	0.8	2	NA	8	NA
25-29	1	NA	1	NA	2	NA	12	0.8	9	NA	6	NA
30-34	0	NA	2	NA	2	NA	9	NA	6	NA	7	NA
35-39	2	NA	4	NA	3	NA	16	0.9	9	NA	8	NA
40-44	4	NA	4	NA	9	NA	39	2.2	13	2.2	23	2.4
45-49	9	NA	3	NA	11	1.9	61	3.3	17	2.8	35	3.4
50-54	14	4.2	7	NA	22	3.9	60	3.5	21	3.6	32	3.2
55-59	14	4.7	8	NA	21	4.1	81	5.5	17	3.2	56	6.2
60-64	13	5.1	17	9.6	32	7.3	68	5.6	28	6.4	51	6.7
65-69	26	12.3	8	NA	33	9.3	100	10.6	29	8.1	66	10.8
70-74	27	14.8	14	11.1	42	14.3	126	15.7	47	16.0	89	16.5
75-79	56	36.0	38	36.5	77	31.5	218	32.3	97	40.4	201	42.3 +
80-84	83	72.0	58	75.6	146	80.9	400	78.4	160	93.1	302	82.0
85 +	134	126.3 -	93	131.9 -	253	148.6	853	172.7	300	191.1 +	609	172.1

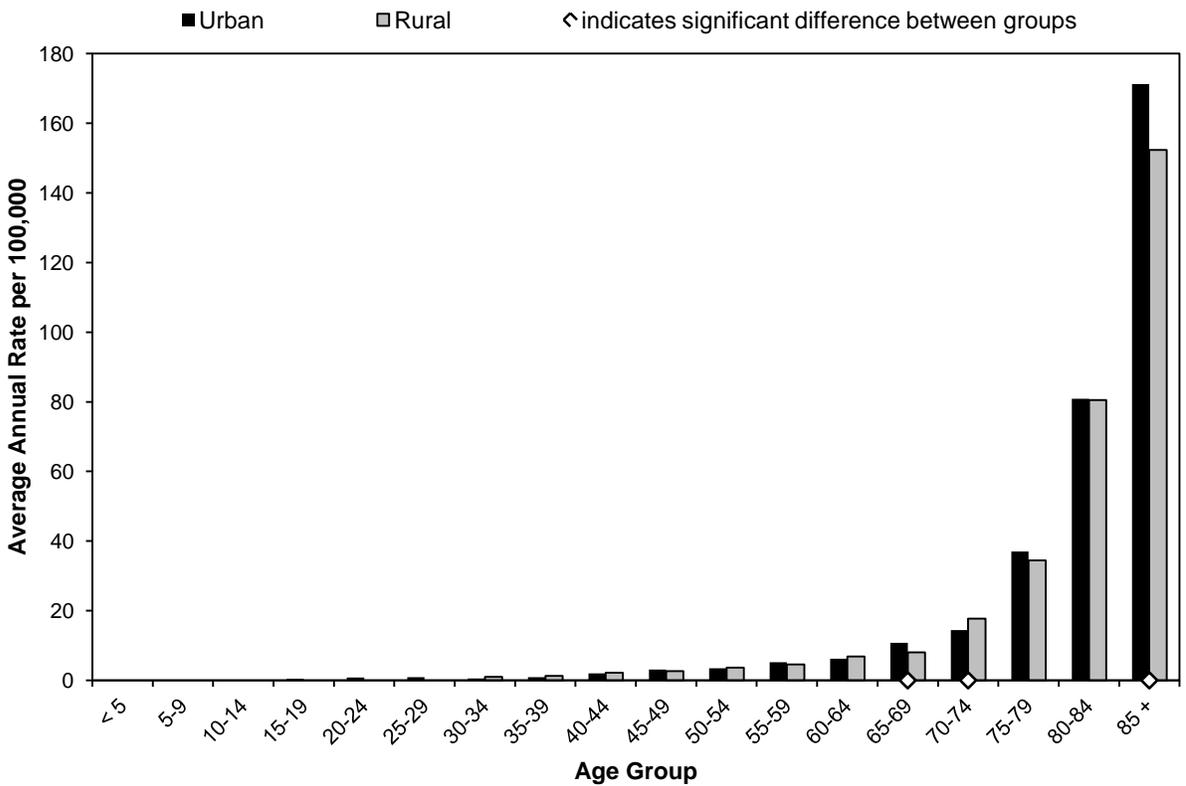
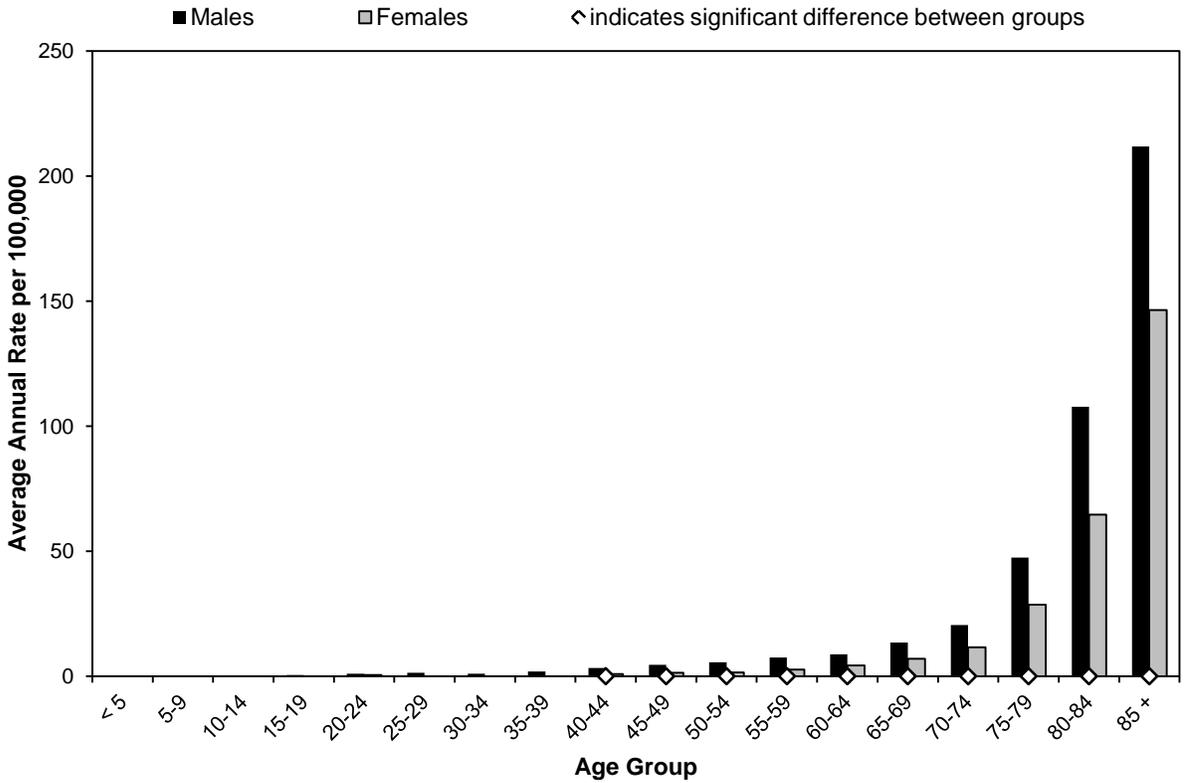
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total.

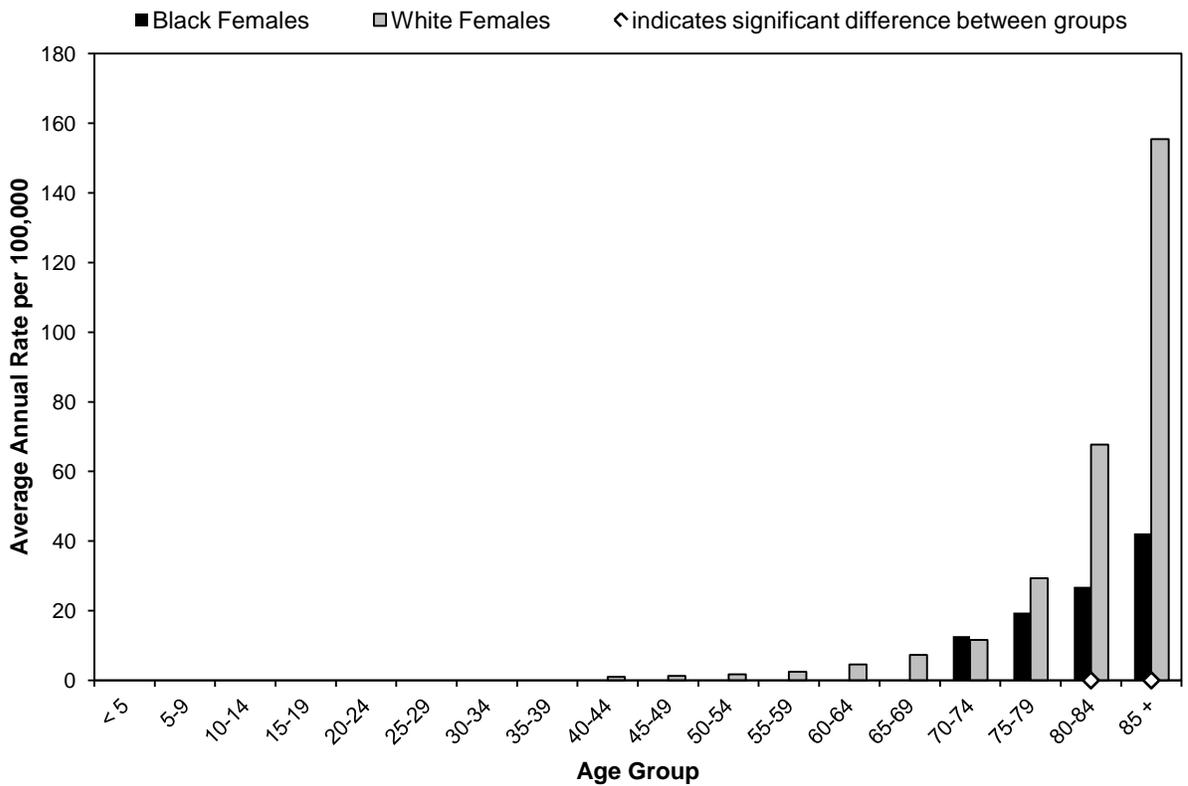
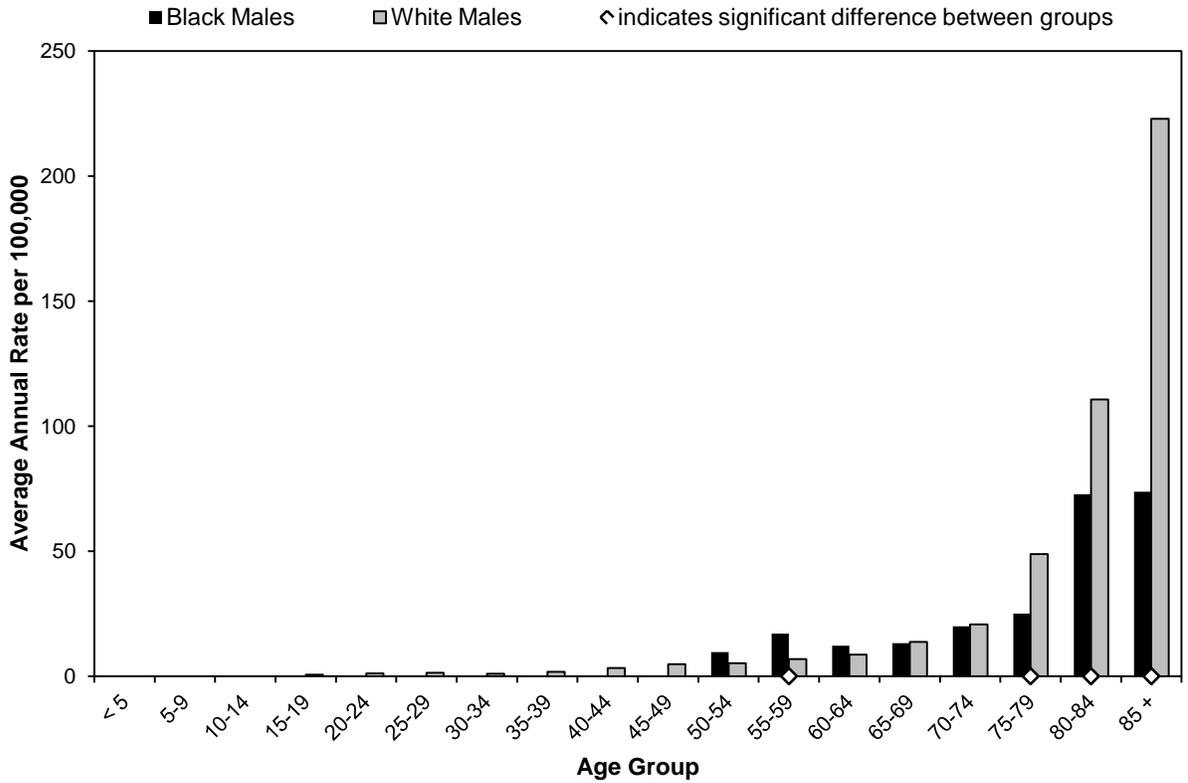
INJURY DEATHS: UNINT. FALLS

AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2005-2009



INJURY DEATHS: UNINT. FALLS

AVERAGE ANNUAL DEATH RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2005-2009



INJURY DEATHS: UNINT. FALLS

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2005-2009

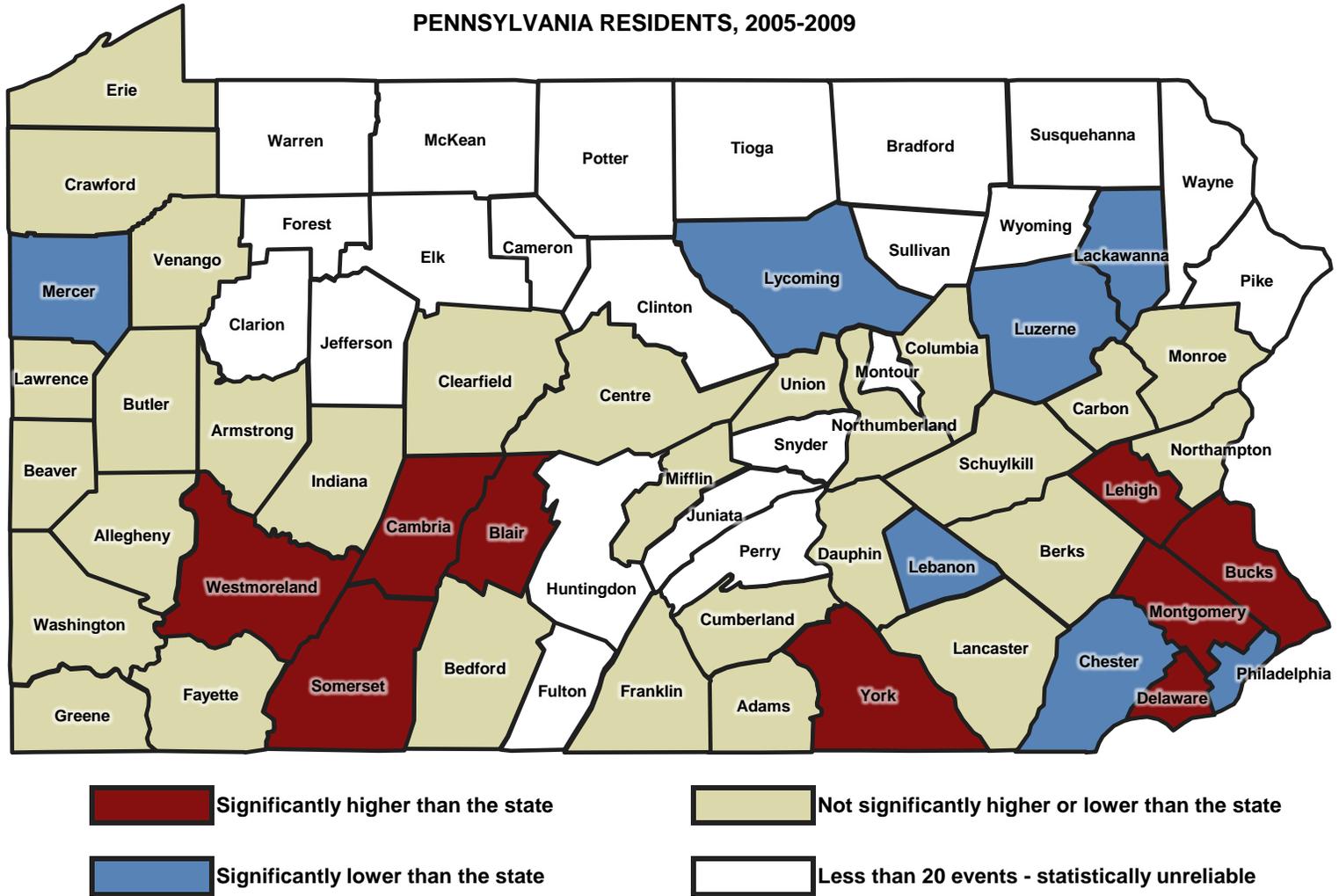
District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
Northeast	665	6.6	6.1-7.1	Southeast	2,074	7.2	6.9-7.5
Carbon	35	8.2	5.5-10.9	Berks	172	7.4	6.3-8.5
Lackawanna	81	5.2	4.1-6.4 -	Bucks	279	8.8	7.8-9.9 +
Lehigh	225	10.9	9.5-12.4 +	Chester	136	5.9	4.9-6.9 -
Luzerne	98	4.4	3.5-5.2 -	Delaware	305	8.9	7.9-9.9 +
Monroe	43	6.0	4.2-7.8	Lancaster	178	6.3	5.4-7.2
Northampton	128	7.1	5.9-8.3	Montgomery	442	9.2	8.4-10.1 +
Pike	11	NA		Philadelphia	471	5.7	5.2-6.3 -
Susquehanna	17	NA		Schuylkill	91	8.5	6.8-10.3
Wayne	18	NA					
Wyoming	9	NA					
North Central	259	6.2	5.5-7.0 -	South Central	761	7.9	7.4-8.5
Bradford	19	NA		Adams	40	7.2	5.0-9.5
Centre	43	7.0	4.9-9.1	Bedford	21	6.2	3.6-8.9
Clinton	16	NA		Blair	93	10.7	8.5-12.8 +
Columbia	33	8.1	5.3-10.9	Cumberland	83	6.3	5.0-7.7
Lycoming	32	4.2	2.8-5.7 -	Dauphin	90	6.0	4.8-7.2
Montour	12	NA		Franklin	76	8.4	6.5-10.3
Northumberland	50	7.3	5.3-9.3	Fulton	6	NA	
Potter	6	NA		Huntingdon	18	NA	
Snyder	14	NA		Juniata	10	NA	
Sullivan	2	NA		Lebanon	35	4.3	2.9-5.7 -
Tioga	10	NA		Mifflin	23	7.6	4.5-10.6
Union	22	9.4	5.5-13.4	Perry	14	NA	
				York	252	11.2	9.8-12.6 +
Northwest	387	6.3	5.6-6.9 -	Southwest	1,498	7.7	7.3-8.0
Cameron	3	NA		Allegheny	658	7.4	6.8-7.9
Clarion	10	NA		Armstrong	35	7.0	4.7-9.3
Clearfield	34	6.0	4.0-8.0	Beaver	78	6.2	4.8-7.5
Crawford	35	6.4	4.3-8.5	Butler	64	6.0	4.5-7.5
Elk	13	NA		Cambria	107	9.2	7.4-10.9 +
Erie	129	7.7	6.4-9.1	Fayette	70	6.7	5.1-8.2
Forest	3	NA		Greene	21	8.3	4.7-11.8
Jefferson	16	NA		Indiana	44	7.3	5.2-9.5
Lawrence	48	7.2	5.2-9.2	Somerset	70	11.5	8.8-14.2 +
McKean	17	NA		Washington	104	7.4	6.0-8.8
Mercer	36	4.1	2.8-5.5 -	Westmoreland	247	9.3	8.2-10.5 +
Venango	29	7.9	5.0-10.7				
Warren	14	NA		Pennsylvania	5,644	7.2	7.0-7.4

NOTE: Rates based on less than 20 events are unreliable and were not calculated. See Technical Notes.

+/- denotes that the county's rate is significantly higher or lower than the state at the p=.05 level.

INJURY DEATHS: UNINT. FALLS

AGE-ADJUSTED DEATH RATES BY COUNTY,
WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE
PENNSYLVANIA RESIDENTS, 2005-2009



NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. See Technical Notes.

INJURY DEATHS: UNINT. FALLS

TOTAL NUMBER OF INJURY DEATHS AND AVERAGE ANNUAL DEATH RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2005-2009

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	2,858	2,786	5,644	35	0.2	90	0.8	270	2.0	562	4.8	4,685	49.1
Northeast	329	336	665	5	NA	10	0.7	23	1.4	75	5.0	551	44.3
Carbon	24	11	35	0	NA	0	NA	0	NA	9	NA	25	46.3
Lackawanna	42	39	81	0	NA	1	NA	1	NA	12	6.1	67	35.2
Lehigh	92	133	225	2	NA	1	NA	8	NA	15	4.7	199	77.9
Luzerne	56	42	98	1	NA	2	NA	5	NA	20	6.6	70	24.3
Monroe	19	24	43	2	NA	2	NA	3	NA	4	NA	32	33.1
Northampton	65	63	128	0	NA	2	NA	3	NA	6	NA	117	54.5
Pike	6	5	11	0	NA	0	NA	0	NA	4	NA	7	NA
Susquehanna	8	9	17	0	NA	0	NA	1	NA	2	NA	14	41.8
Wayne	10	8	18	0	NA	2	NA	1	NA	2	NA	13	28.1
Wyoming	7	2	9	0	NA	0	NA	1	NA	1	NA	7	NA
Southeast	1,064	1,010	2,074	17	0.3	35	0.7	116	2.2	209	4.7	1,697	49.5
Berks	98	74	172	2	NA	4	NA	7	NA	20	5.6	139	48.9
Bucks	124	155	279	2	NA	3	NA	13	1.8	14	2.3	247	58.7
Chester	77	59	136	0	NA	3	NA	8	NA	17	3.8	108	36.7
Delaware	151	154	305	4	NA	3	NA	15	2.5	26	5.1	257	64.4
Lancaster	100	78	178	4	NA	3	NA	11	2.2	16	3.7	144	40.0
Montgomery	205	237	442	3	NA	3	NA	13	1.5	23	3.2	400	69.6
Philadelphia	263	208	471	2	NA	15	0.9	40	2.8	82	7.0	332	34.7
Schuylkill	46	45	91	0	NA	1	NA	9	NA	11	8.0	70	51.4

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	2,858	2,786	5,644	35	0.2	90	0.8	270	2.0	562	4.8	4,685	49.1
North Central	130	129	259	2	NA	3	NA	11	1.7	32	5.2	211	39.9
Bradford	8	11	19	0	NA	0	NA	3	NA	1	NA	15	29.1
Centre	18	25	43	1	NA	1	NA	2	NA	7	NA	32	40.4
Clinton	8	8	16	0	NA	0	NA	0	NA	1	NA	15	48.1
Columbia	18	15	33	0	NA	1	NA	1	NA	5	NA	26	49.5
Lycoming	11	21	32	0	NA	0	NA	1	NA	3	NA	28	29.1
Montour	7	5	12	0	NA	0	NA	0	NA	3	NA	9	NA
Northumberland	32	18	50	0	NA	0	NA	2	NA	8	NA	40	46.6
Potter	2	4	6	0	NA	0	NA	1	NA	0	NA	5	NA
Snyder	7	7	14	0	NA	0	NA	0	NA	1	NA	13	47.9
Sullivan	1	1	2	0	NA	0	NA	0	NA	0	NA	2	NA
Tioga	6	4	10	0	NA	0	NA	0	NA	1	NA	9	NA
Union	12	10	22	1	NA	1	NA	1	NA	2	NA	17	55.6
South Central	370	391	761	5	NA	17	1.1	39	2.2	66	4.3	633	52.0
Adams	23	17	40	0	NA	4	NA	2	NA	4	NA	30	42.2
Bedford	9	12	21	0	NA	0	NA	1	NA	3	NA	17	39.2
Blair	50	43	93	0	NA	1	NA	1	NA	11	8.9	80	73.1
Cumberland	40	43	83	0	NA	1	NA	12	5.1	7	NA	62	35.9
Dauphin	41	49	90	1	NA	2	NA	5	NA	15	5.9	67	37.9
Franklin	40	36	76	1	NA	2	NA	4	NA	4	NA	65	55.8
Fulton	4	2	6	0	NA	1	NA	0	NA	0	NA	5	NA
Huntingdon	5	13	18	0	NA	0	NA	0	NA	2	NA	16	45.0
Juniata	5	5	10	0	NA	0	NA	1	NA	0	NA	9	NA
Lebanon	18	17	35	0	NA	2	NA	0	NA	3	NA	30	28.4
Mifflin	14	9	23	0	NA	2	NA	0	NA	2	NA	19	45.9
Perry	6	8	14	0	NA	0	NA	3	NA	0	NA	11	38.4
York	115	137	252	3	NA	2	NA	10	2.1	15	3.7	222	77.7

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	2,858	2,786	5,644	35	0.2	90	0.8	270	2.0	562	4.8	4,685	49.1
Northwest	211	176	387	1	NA	4	NA	15	1.6	41	4.6	326	42.3
Cameron	2	1	3	0	NA	0	NA	0	NA	0	NA	3	NA
Clarion	6	4	10	0	NA	0	NA	0	NA	1	NA	9	NA
Clearfield	21	13	34	0	NA	0	NA	2	NA	3	NA	29	40.1
Crawford	19	16	35	0	NA	0	NA	3	NA	5	NA	27	37.8
Elk	9	4	13	0	NA	0	NA	1	NA	2	NA	10	33.2
Erie	70	59	129	0	NA	2	NA	4	NA	14	5.6	109	54.2
Forest	1	2	3	0	NA	0	NA	0	NA	0	NA	3	NA
Jefferson	8	8	16	1	NA	1	NA	0	NA	2	NA	12	29.3
Lawrence	26	22	48	0	NA	1	NA	2	NA	8	NA	37	43.6
McKean	6	11	17	0	NA	0	NA	0	NA	2	NA	15	40.5
Mercer	20	16	36	0	NA	0	NA	1	NA	0	NA	35	33.5
Venango	14	15	29	0	NA	0	NA	2	NA	2	NA	25	52.5
Warren	9	5	14	0	NA	0	NA	0	NA	2	NA	12	32.5
Southwest	754	744	1,498	5	NA	21	0.9	66	2.3	139	5.2	1,267	54.0
Allegheny	330	328	658	1	NA	12	1.1	27	2.1	63	5.3	555	53.2
Armstrong	18	17	35	0	NA	0	NA	2	NA	3	NA	30	47.2
Beaver	44	34	78	0	NA	1	NA	5	NA	11	6.2	61	38.3
Butler	29	35	64	0	NA	2	NA	5	NA	7	NA	50	37.7
Cambria	57	50	107	0	NA	1	NA	6	NA	8	NA	92	66.9
Fayette	30	40	70	0	NA	0	NA	4	NA	4	NA	62	48.8
Greene	9	12	21	0	NA	1	NA	0	NA	2	NA	18	60.2
Indiana	24	20	44	0	NA	0	NA	1	NA	6	NA	37	53.7
Somerset	35	35	70	0	NA	0	NA	1	NA	5	NA	64	88.5
Washington	55	49	104	2	NA	0	NA	5	NA	9	NA	88	49.4
Westmoreland	123	124	247	2	NA	4	NA	10	2.6	21	5.6	210	62.7

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY DEATHS: UNINT. FALLS

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2005-2009

BLACK POPULATION BY COUNTY				WHITE POPULATION BY COUNTY				HISPANIC POPULATION BY COUNTY			
County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)
Allegheny	36	4.6	3.1-6.2	Allegheny	621	7.7	7.1-8.3	Berks	5	NA	
Chester	4	NA		Chester	131	6.2	5.1-7.2 -	Lancaster	1	NA	
Dauphin	9	NA		Dauphin	81	6.2	4.9-7.6	Lehigh	6	NA	
Delaware	20	5.9	3.3-8.5	Delaware	281	9.4	8.3-10.5 +	Philadelphia	21	5.2	2.9-7.4
Montgomery	13	NA		Montgomery	421	9.6	8.7-10.5 +				
Philadelphia	138	4.5	3.7-5.2	Philadelphia	324	6.8	6.1-7.5				
Pennsylvania	254	4.6	4.0-5.1	Pennsylvania	5,355	7.5	7.3-7.7	Pennsylvania	50	3.6	2.6-4.6

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2005-2009

Select Counties	Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+		
		Male	Female			All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.
County and Race	Cty. Pop.															
Allegheny	Black	13.3%	18	18	36	5.5%	0	NA	0	NA	4	NA	12	9.8	20	22.1
	White	83.2%	312	309	621	94.4%	1	NA	12	1.3	23	2.1	51	4.9	534	56.8
Chester	Black	6.2%	3	1	4	2.9%	0	NA	1	NA	0	NA	1	NA	2	NA
	White	89.7%	74	57	131	96.3%	0	NA	2	NA	8	NA	16	3.9	105	38.4
Dauphin	Black	17.8%	5	4	9	10.0%	0	NA	1	NA	1	NA	3	NA	4	NA
	White	77.5%	36	45	81	90.0%	1	NA	1	NA	4	NA	12	5.7	63	40.7
Delaware	Black	18.1%	11	9	20	6.6%	0	NA	0	NA	1	NA	4	NA	15	38.9
	White	76.4%	136	145	281	92.1%	4	NA	3	NA	13	2.9	21	5.0	240	68.4
Montgomery	Black	8.7%	9	4	13	2.9%	1	NA	0	NA	1	NA	4	NA	7	NA
	White	84.6%	192	229	421	95.2%	2	NA	3	NA	12	1.6	18	2.8	386	73.1
Philadelphia	Black	45.8%	82	56	138	29.3%	1	NA	6	NA	14	2.1	35	6.8	82	22.9
	White	46.9%	172	152	324	68.8%	1	NA	8	NA	25	3.7	47	8.0	243	43.1
Pennsylvania	Black	10.7%	152	102	254	4.5%	5	NA	10	0.7	24	1.8	67	7.0	148	23.3
	White	85.9%	2,680	2,675	5,355	94.9%	29	0.2	78	0.8	240	2.1	491	4.7	4,515	51.5

INJURY DEATHS: ALL POISONING

In 2009, among Pennsylvania residents, there were 2,069 deaths due to poisoning. On average, one resident died every five hours.

Injury Definition

Poisoning includes:

- accidental and intentional drug overdose
- misuse or abuse of prescription drugs
- exposure to gases like carbon monoxide
- ingestion of toxic foodstuffs (including alcohol poisoning) or other substances.

Drug poisonings account for 92 percent of all poisoning deaths in PA.

HIGHLIGHTS

- *Age-adjusted rates have generally been **increasing** over time.*
- *Most common demographic is **white males** ages 20 to 54.*
- *Of Pennsylvania counties, **Philadelphia and Cambria** show the highest rates.*

Trends Over Time

- Age-adjusted death rates for poisoning increased by 19 percent from 2005 to 2009, from 14.0 to 16.7 deaths per 100,000 population.
- Males showed significantly higher age-adjusted poisoning death rates than females over 2005 to 2009 (rates were 22.1 and 11.3, respectively, in 2009).
- Urban males showed significantly higher age-adjusted poisoning death rates than rural males over 2005 to 2009 (rates were 23.3 and 19.2, respectively, in 2009).

Demographic Trends

- White males ages 20 to 54 comprised half of all poisoning deaths in 2005 to 2009.
- Among ages 20 to 29, white males and females showed significantly higher poisoning death rates than black males and females.
- Among ages 40 to 74, black males showed significantly higher poisoning death rates than white males.

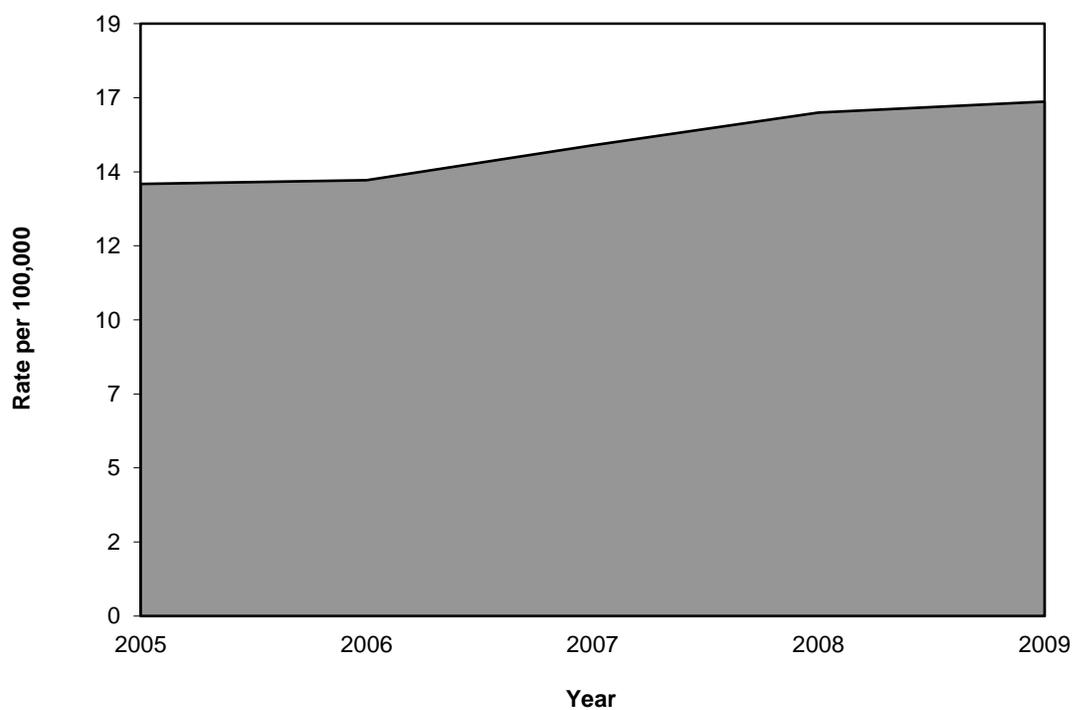
Regional Trends

- The Southeast Health District showed the highest age-specific poisoning death rates, while the North Central and South Central Health Districts showed the lowest rates.
- Six counties showed age-adjusted poisoning death rates for 2005 to 2009 that were significantly higher than the comparable state rate: Allegheny, Cambria, Delaware, Lackawanna, Luzerne and Philadelphia counties. Most counties were urban.

INJURY DEATHS: ALL POISONING

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES PENNSYLVANIA RESIDENTS, 2005-2009

Year	No.	Rate
2005	1,711	14.0
2006	1,708	14.1
2007	1,884	15.3
2008	1,997	16.3
2009	2,069	16.7



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2005-2009

Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2005	12.8	6.7	12.4	16.2	9.8	15.8
2006	12.0	6.7	12.7	18.3	8.5	13.3
2007	14.6	8.0	15.5	17.0	10.9	16.6
2008	13.5	8.2	17.5	18.3	11.8	18.0
2009	14.5	10.9	17.1	18.5	12.0	18.2

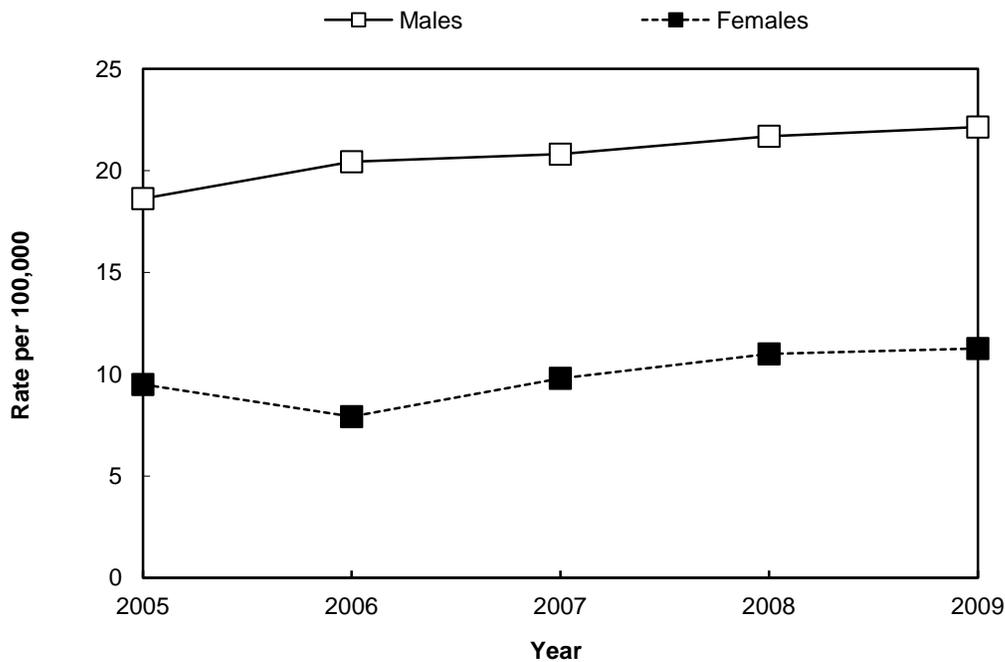
NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2005-2009 based on ICD-10 codes. See Technical Notes.

INJURY DEATHS: ALL POISONING

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX PENNSYLVANIA RESIDENTS, 2005-2009

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2005	1,118	18.6 *	2005	593	9.5
2006	1,218	20.4 *	2006	490	7.9
2007	1,260	20.8 *	2007	624	9.8
2008	1,308	21.7 *	2008	689	11.0
2009	1,351	22.1 *	2009	718	11.3

** denotes a statistically significant difference between groups at level of $p = .05$*



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2005-2009

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2005	20.6	13.7 *	2005	9.5	9.4
2006	22.7	14.7 *	2006	8.2	7.3
2007	22.2	17.2 *	2007	10.3	8.5
2008	23.4	17.3 *	2008	11.7	9.1 *
2009	23.3	19.2 *	2009	11.4	11.1

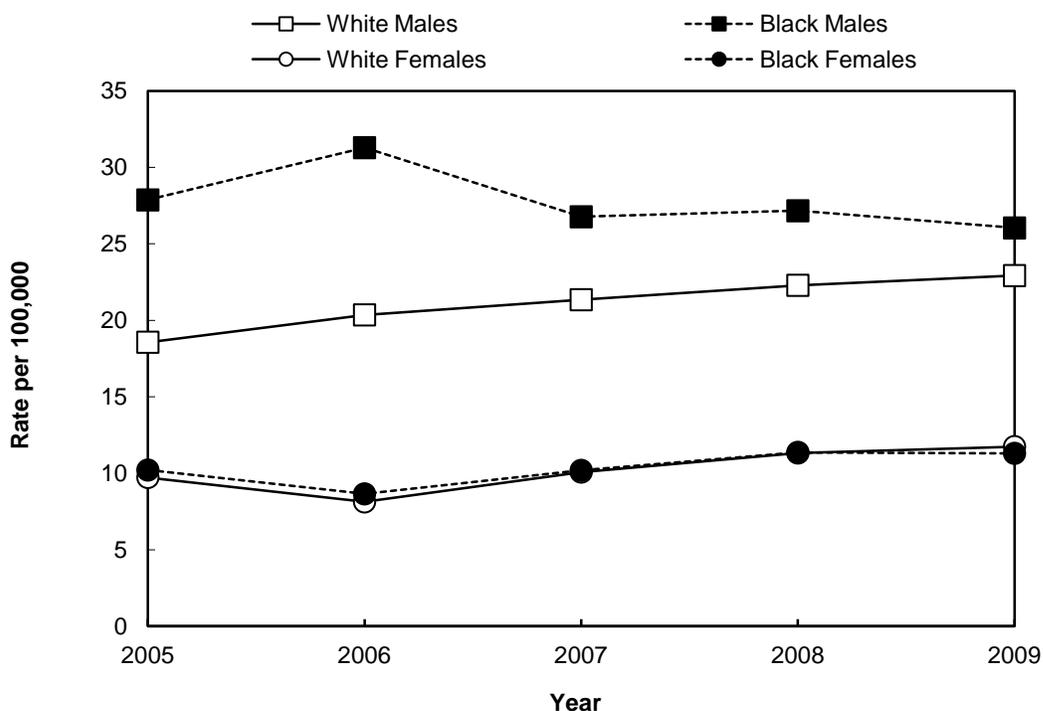
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY DEATHS: ALL POISONING

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX AND RACE OR ETHNICITY PENNSYLVANIA RESIDENTS, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	958	156	525	66	41	17
2006	1,038	174	431	56	71	14
2007	1,102	152	551	67	54	10
2008	1,146	154	608	76	51	16
2009	1,190	149	640	75	46	13



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	18.6	27.9 *	9.7	10.2	18.3	NA
2006	20.4	31.3 *	8.1	8.7	28.0	NA
2007	21.3	26.8	10.1	10.2	21.0	NA
2008	22.3	27.2	11.3	11.4	20.6	NA
2009	22.9	26.0	11.7	11.3	16.9	NA

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Hispanics may be of any race. Hispanic numbers include whites, blacks and others of Hispanic ethnicity. Therefore, Hispanics must not be compared to whites or blacks, as the groups are not mutually exclusive.

INJURY DEATHS: ALL POISONING

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2005-2009

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	9,369	15.0	6,255	20.7	3,114	9.7	7,252	16.0	2,117	12.3
< 5	23	0.6	10	0.5	13	0.7	16	0.6	7	NA
5-9	3	NA	2	NA	1	NA	2	NA	1	NA
10-14	11	0.3	9	NA	2	NA	8	NA	3	NA
15-19	236	5.1	168	7.2	68	3.0	168	5.0	68	5.2
20-24	829	18.9	619	27.8	210	9.7	629	20.0	200	16.1
25-29	976	26.6	747	39.9	229	12.8	730	26.7	246	26.4
30-34	884	23.6	645	34.2	239	12.8	666	24.2	218	21.9
35-39	1,027	25.1	676	33.2	351	17.1	776	25.9	251	23.0
40-44	1,350	30.2	866	39.1	484	21.4	1,066	32.6	284	23.6
45-49	1,518	32.8	955	41.9	563	24.0	1,187	35.3	331	26.2
50-54	1,184	26.8	777	35.9	407	18.0	956	29.9	228	18.5
55-59	635	16.1	404	21.2	231	11.4	530	18.8	105	9.3
60-64	251	7.7	150	9.6	101	5.9	200	8.6	51	5.3
65-69	110	4.2	59	4.9	51	3.6	75	4.1	35	4.4
70-74	73	3.3	38	3.9	35	2.8	55	3.5	18	2.7
75-79	100	5.3	51	6.6	49	4.4	71	5.3	29	5.2
80-84	64	4.5	34	6.4	30	3.4	48	4.7	16	3.9
85 +	93	6.9	43	10.7	50	5.3	68	7.0	25	6.5

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY DEATHS: ALL POISONING

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2005-2009

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	5,434	20.9	785	24.8	2,755	10.0	340	9.7	333	11.8
< 5	7	NA	3	NA	9	NA	3	NA	3	NA
5-9	1	NA	1	NA	0	NA	1	NA	0	NA
10-14	7	NA	2	NA	2	NA	0	NA	0	NA
15-19	162	8.4	5	NA	66	3.5	2	NA	4	NA
20-24	591	32.1	17	5.8	197	11.1	12	4.1	29	11.7
25-29	703	45.6	37	14.9	208	14.2	20	8.1	48	21.0
30-34	578	36.6	65	29.8	206	13.3	31	13.5	38	17.8
35-39	597	34.4	73	34.2	303	17.5	46	19.5	55	26.0
40-44	752	39.1	112	52.0	418	21.6	61	25.0	60	31.5
45-49	828	41.1	125	60.9	491	24.1	70	29.3	40	24.0
50-54	607	31.3	168	95.0	354	17.8	51	23.8	30	24.7
55-59	304	17.7	98	69.4	207	11.5	22	12.2	17	17.9
60-64	103	7.3	47	44.2	89	5.8	12	8.4	4	NA
65-69	48	4.3	11	14.5	49	3.8	2	NA	2	NA
70-74	27	3.0	11	18.2	35	3.0	0	NA	2	NA
75-79	44	6.2	7	NA	44	4.2	4	NA	1	NA
80-84	32	6.4	1	NA	29	3.5	1	NA	0	NA
85 +	42	11.2	1	NA	48	5.5	2	NA	0	NA

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Hispanics may be of any race; therefore, their rates must not be compared to whites or blacks.

INJURY DEATHS: ALL POISONING

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2005-2009

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	609	13.1	263	7.7	1,131	14.5	4,336	17.5	852	10.5	2,178	16.0
< 5	2	NA	0	NA	3	NA	9	NA	3	NA	6	NA
5-9	1	NA	0	NA	0	NA	2	NA	0	NA	0	NA
10-14	0	NA	0	NA	3	NA	4	NA	1	NA	3	NA
15-19	16	4.5	6	NA	30	5.2	104	5.6	28	4.9	52	5.4
20-24	50	15.7	29	8.1 -	98	18.3	377	21.4 +	83	15.7	192	21.5
25-29	62	23.7	27	15.5 -	132	30.0	424	27.2	108	22.4	223	29.8
30-34	65	23.9	24	12.5 -	124	27.3	407	26.2 +	82	16.5 -	182	23.4
35-39	57	19.6	23	11.2 -	134	26.4	479	28.4 +	90	16.5 -	244	28.4
40-44	75	23.3 -	46	20.4 -	155	27.8	671	37.1 +	104	17.5 -	299	31.0
45-49	110	32.3	38	16.2 -	187	32.3	691	37.8 +	122	20.0 -	370	35.8
50-54	89	26.9	28	12.3 -	125	22.3 -	558	32.7 +	94	16.1 -	290	28.6
55-59	30	10.0 -	17	8.2 -	66	13.0	312	21.0 +	57	10.8 -	153	16.8
60-64	15	5.9	8	NA	23	5.2	127	10.5 +	24	5.5	54	7.1
65-69	12	5.7	4	NA	12	3.4	45	4.7	18	5.1	19	3.1
70-74	4	NA	2	NA	10	3.4	30	3.7	10	3.4	17	3.2
75-79	6	NA	6	NA	10	4.1	39	5.8	9	NA	30	6.3
80-84	5	NA	2	NA	7	NA	21	4.1	9	NA	20	5.4
85 +	9	NA	3	NA	12	7.1	35	7.1	10	6.4	24	6.8

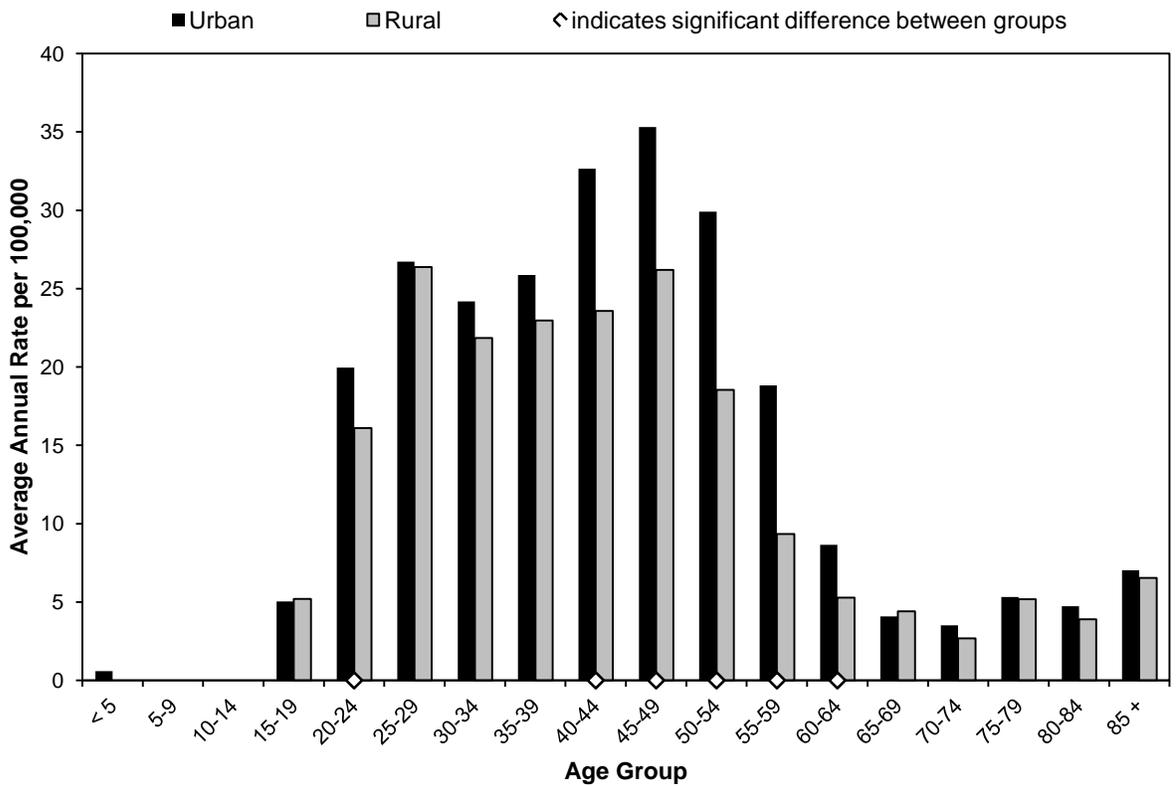
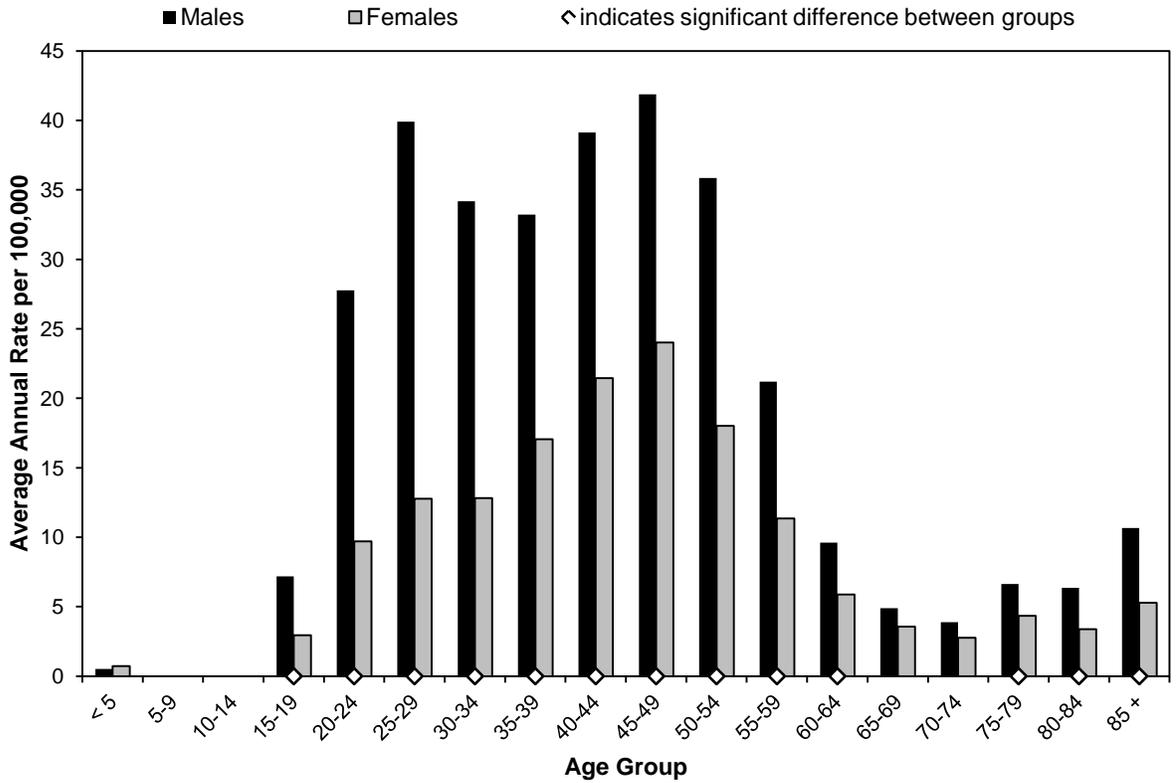
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total.

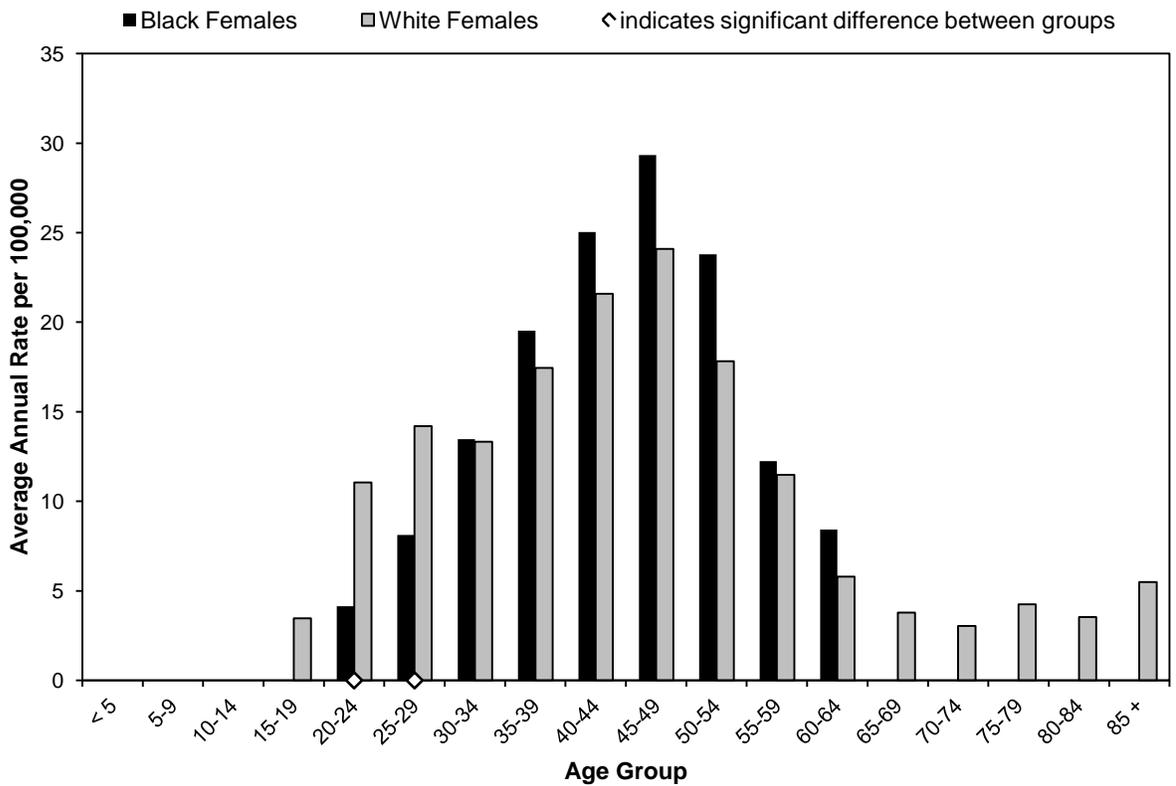
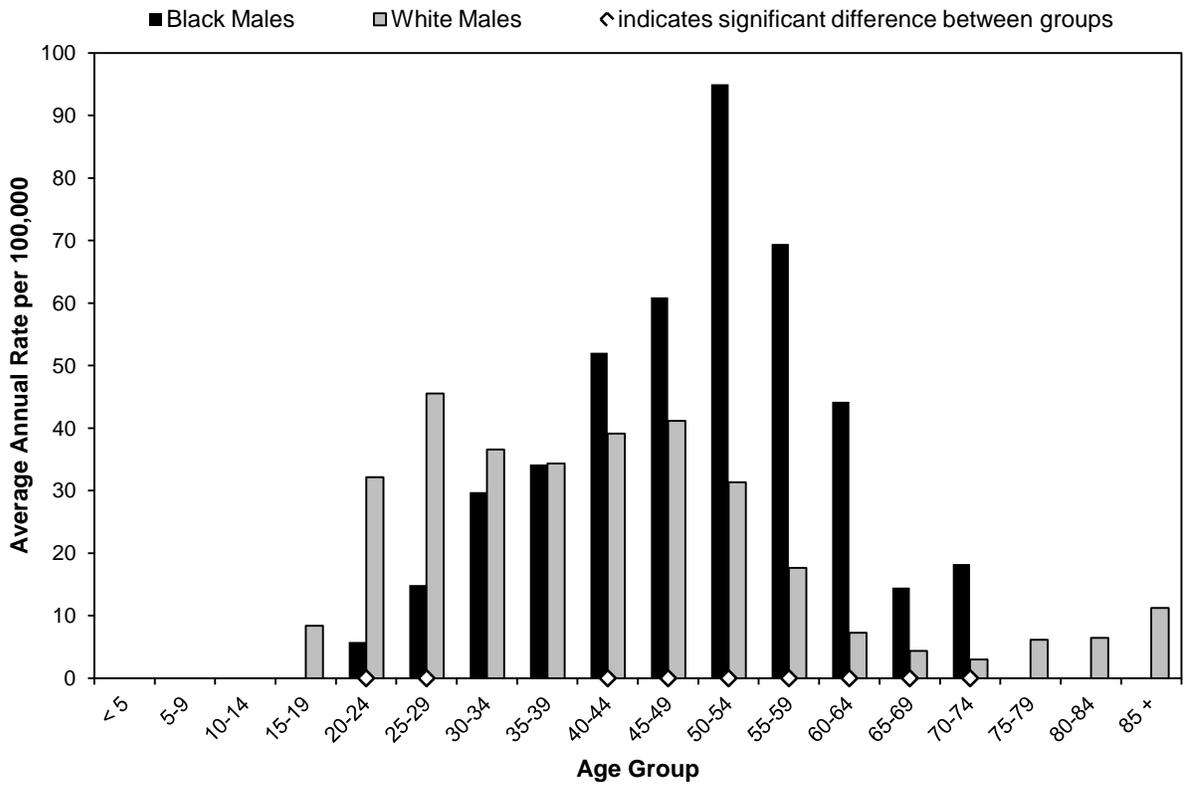
INJURY DEATHS: ALL POISONING

AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2005-2009



INJURY DEATHS: ALL POISONING

AVERAGE ANNUAL DEATH RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2005-2009



INJURY DEATHS: ALL POISONING

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2005-2009

District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
Northeast	1,131	15.0	14.2-15.9	Southeast	4,336	17.7	17.1-18.2 +
Carbon	54	17.6	12.9-22.3	Berks	233	12.0	10.4-13.5 -
Lackawanna	190	19.3	16.5-22.0 +	Bucks	464	15.3	13.9-16.7
Lehigh	219	13.4	11.6-15.2	Chester	254	10.3	9.1-11.6 -
Luzerne	277	18.7	16.5-20.9 +	Delaware	569	20.7	19.0-22.4 +
Monroe	136	16.9	14.0-19.7	Lancaster	227	9.5	8.2-10.7 -
Northampton	157	10.7	9.1-12.4 -	Montgomery	522	13.6	12.4-14.7 -
Pike	29	10.6	6.7-14.5 -	Philadelphia	1,933	27.6	26.3-28.8 +
Susquehanna	23	13.0	7.7-18.3	Schuylkill	134	18.5	15.3-21.6
Wayne	29	11.2	7.1-15.3				
Wyoming	17	NA					
North Central	263	8.1	7.1-9.0 -	South Central	852	10.6	9.9-11.3 -
Bradford	22	7.5	4.3-10.6 -	Adams	53	10.9	8.0-13.8 -
Centre	50	8.3	6.0-10.6 -	Bedford	32	13.9	9.1-18.7
Clinton	17	NA		Blair	104	17.5	14.1-20.8
Columbia	32	10.7	7.0-14.4 -	Cumberland	97	8.4	6.7-10.0 -
Lycoming	42	7.0	4.9-9.1 -	Dauphin	124	9.7	8.0-11.4 -
Montour	12	NA		Franklin	61	8.7	6.5-10.9 -
Northumberland	47	11.2	8.0-14.4 -	Fulton	10	NA	
Potter	11	NA		Huntingdon	19	NA	
Snyder	8	NA		Juniata	12	NA	
Sullivan	2	NA		Lebanon	61	9.8	7.4-12.3 -
Tioga	11	NA		Mifflin	28	12.5	7.8-17.1
Union	9	NA		Perry	19	NA	
				York	232	11.0	9.6-12.4 -
Northwest	609	13.5	12.4-14.5 -	Southwest	2,178	16.4	15.7-17.1 +
Cameron	5	NA		Allegheny	1,101	18.0	16.9-19.1 +
Clarion	18	NA		Armstrong	49	16.0	11.5-20.4
Clearfield	57	14.0	10.4-17.7	Beaver	115	13.6	11.1-16.0
Crawford	58	13.6	10.1-17.2	Butler	97	11.2	9.0-13.5 -
Elk	19	NA		Cambria	182	26.4	22.6-30.3 +
Erie	178	12.9	11.0-14.8 -	Fayette	103	15.4	12.4-18.3
Forest	2	NA		Greene	35	16.8	11.2-22.3
Jefferson	17	NA		Indiana	51	13.5	9.8-17.2
Lawrence	67	15.2	11.5-18.8	Somerset	34	9.3	6.2-12.5 -
McKean	22	10.2	5.9-14.5 -	Washington	112	11.3	9.2-13.4 -
Mercer	105	18.6	15.1-22.2	Westmoreland	299	17.1	15.1-19.0
Venango	36	14.9	10.1-19.8				
Warren	25	12.8	7.8-17.8	Pennsylvania	9,369	15.3	15.0-15.6

NOTE: Rates based on less than 20 events are unreliable and were not calculated. See Technical Notes.

+/- denotes that the county's rate is significantly higher or lower than the state at the p=.05 level.

INJURY DEATHS: ALL POISONING

TOTAL NUMBER OF INJURY DEATHS AND AVERAGE ANNUAL DEATH RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2005-2009

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	6,255	3,114	9,369	273	1.7	2,689	22.8	3,895	29.5	2,070	17.8	440	4.6
Northeast	733	398	1,131	36	1.8	354	24.7	476	29.0	214	14.2	51	4.1
Carbon	39	15	54	2	NA	16	26.3	21	31.5	14	21.8	1	NA
Lackawanna	121	69	190	6	NA	69	35.2	78	37.2	30	15.2	7	NA
Lehigh	149	70	219	5	NA	61	19.1	93	26.3	46	14.6	14	5.5
Luzerne	184	93	277	4	NA	102	35.6	116	35.5	50	16.6	5	NA
Monroe	83	53	136	9	NA	38	25.9	58	30.8	25	15.9	6	NA
Northampton	96	61	157	6	NA	40	14.5	62	20.2	36	13.2	13	6.1
Pike	16	13	29	2	NA	6	NA	14	21.0	4	NA	3	NA
Susquehanna	16	7	23	0	NA	12	34.6	10	23.8	1	NA	0	NA
Wayne	19	10	29	1	NA	3	NA	16	30.2	7	NA	2	NA
Wyoming	10	7	17	1	NA	7	NA	8	NA	1	NA	0	NA
Southeast	2,979	1,357	4,336	119	1.8	1,208	24.8	1,841	34.6	997	22.6	170	5.0
Berks	149	84	233	7	NA	58	15.6	108	25.1	46	12.9	14	4.9
Bucks	316	148	464	23	2.8	156	29.7	183	24.8	84	13.6	18	4.3
Chester	168	86	254	12	1.7	77	17.3	93	16.7	62	13.9	10	3.4
Delaware	382	187	569	18	2.4	166	31.3	221	37.5	145	28.6	18	4.5
Lancaster	142	85	227	5	NA	57	12.0	100	19.7	47	10.8	18	5.0
Montgomery	340	182	522	22	2.2	161	23.1	212	24.0	101	13.9	26	4.5
Philadelphia	1,387	546	1,933	27	1.3	498	29.4	857	59.1	494	42.1	57	6.0
Schuylkill	95	39	134	5	NA	35	26.0	67	40.4	18	13.0	9	NA

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	6,255	3,114	9,369	273	1.7	2,689	22.8	3,895	29.5	2,070	17.8	440	4.6
North Central	153	110	263	6	NA	80	11.1	107	16.1	53	8.7	17	3.2
Bradford	12	10	22	0	NA	9	NA	6	NA	6	NA	1	NA
Centre	32	18	50	2	NA	11	5.1	20	16.2	15	14.3	2	NA
Clinton	8	9	17	0	NA	5	NA	8	NA	3	NA	1	NA
Columbia	20	12	32	1	NA	12	17.3	11	18.6	4	NA	4	NA
Lycoming	22	20	42	0	NA	8	NA	17	14.1	12	10.7	5	NA
Montour	4	8	12	0	NA	4	NA	6	NA	2	NA	0	NA
Northumberland	30	17	47	0	NA	18	23.7	21	21.6	6	NA	2	NA
Potter	6	5	11	1	NA	6	NA	4	NA	0	NA	0	NA
Snyder	5	3	8	1	NA	1	NA	3	NA	2	NA	1	NA
Sullivan	1	1	2	0	NA	0	NA	1	NA	1	NA	0	NA
Tioga	6	5	11	1	NA	2	NA	6	NA	2	NA	0	NA
Union	7	2	9	0	NA	4	NA	4	NA	0	NA	1	NA
South Central	541	311	852	32	1.5	273	18.1	316	18.1	175	11.3	56	4.6
Adams	32	21	53	2	NA	15	15.9	23	21.1	10	10.6	3	NA
Bedford	17	15	32	1	NA	11	26.1	12	22.7	7	NA	1	NA
Blair	71	33	104	2	NA	38	33.5	40	31.3	21	17.0	3	NA
Cumberland	64	33	97	5	NA	33	14.4	28	11.9	25	11.9	6	NA
Dauphin	79	45	124	6	NA	40	17.4	43	14.9	29	11.5	6	NA
Franklin	42	19	61	5	NA	17	13.1	17	12.0	13	9.8	9	NA
Fulton	6	4	10	0	NA	3	NA	4	NA	1	NA	2	NA
Huntingdon	9	10	19	0	NA	9	NA	5	NA	3	NA	2	NA
Juniata	7	5	12	0	NA	4	NA	5	NA	2	NA	1	NA
Lebanon	42	19	61	3	NA	18	14.5	24	18.7	11	9.1	5	NA
Mifflin	19	9	28	1	NA	8	NA	9	NA	5	NA	5	NA
Perry	9	10	19	1	NA	5	NA	9	NA	3	NA	1	NA
York	144	88	232	6	NA	72	18.6	97	20.2	45	11.2	12	4.2

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	6,255	3,114	9,369	273	1.7	2,689	22.8	3,895	29.5	2,070	17.8	440	4.6
Northwest	399	210	609	19	1.6	177	20.8	242	25.4	134	15.1	36	4.7
Cameron	3	2	5	0	NA	2	NA	2	NA	1	NA	0	NA
Clarion	15	3	18	0	NA	7	NA	6	NA	3	NA	2	NA
Clearfield	37	20	57	2	NA	20	26.7	23	24.9	9	NA	3	NA
Crawford	39	19	58	1	NA	19	24.0	22	25.0	10	11.5	6	NA
Elk	16	3	19	0	NA	9	NA	7	NA	3	NA	0	NA
Erie	109	69	178	1	NA	38	13.3	80	28.1	46	18.3	13	6.5
Forest	2	0	2	0	NA	1	NA	1	NA	0	NA	0	NA
Jefferson	13	4	17	0	NA	8	NA	6	NA	3	NA	0	NA
Lawrence	43	24	67	5	NA	15	19.7	28	30.4	16	18.1	2	NA
McKean	17	5	22	0	NA	7	NA	7	NA	7	NA	1	NA
Mercer	66	39	105	8	NA	29	28.7	34	28.9	29	25.9	5	NA
Venango	22	14	36	1	NA	19	41.9	10	17.8	4	NA	2	NA
Warren	17	8	25	1	NA	3	NA	16	37.3	3	NA	2	NA
Southwest	1,450	728	2,178	61	1.9	597	24.7	913	32.0	497	18.5	110	4.7
Allegheny	770	331	1,101	24	1.6	263	23.6	456	35.5	305	25.8	53	5.1
Armstrong	26	23	49	2	NA	17	31.7	21	28.6	5	NA	4	NA
Beaver	68	47	115	5	NA	37	25.6	38	20.7	26	14.6	9	NA
Butler	60	37	97	5	NA	37	22.8	36	17.8	13	7.5	6	NA
Cambria	121	61	182	8	NA	52	40.5	83	55.5	33	22.7	6	NA
Fayette	71	32	103	2	NA	35	28.7	49	31.9	10	6.7	7	NA
Greene	20	15	35	2	NA	11	27.9	12	27.8	9	NA	1	NA
Indiana	37	14	51	1	NA	15	16.2	22	27.0	10	12.3	3	NA
Somerset	26	8	34	1	NA	17	23.9	11	13.0	3	NA	2	NA
Washington	65	47	112	2	NA	34	18.3	45	21.2	25	12.1	6	NA
Westmoreland	186	113	299	9	NA	79	26.2	140	36.0	58	15.4	13	3.9

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY DEATHS: ALL POISONING

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2005-2009

BLACK POPULATION BY COUNTY				WHITE POPULATION BY COUNTY				HISPANIC POPULATION BY COUNTY			
County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)
Allegheny	155	20.9	17.6-24.2	Allegheny	940	18.4	17.3-19.6 +	Berks	33	14.0	9.2-18.7
Chester	17	NA		Chester	237	10.8	9.4-12.2 -	Lancaster	11	NA	
Dauphin	18	NA		Dauphin	104	10.5	8.5-12.6 -	Lehigh	30	14.3	9.2-19.4
Delaware	53	10.8	7.9-13.6 -	Delaware	512	24.8	22.7-27.0 +	Philadelphia	167	23.2	19.7-26.7 +
Montgomery	37	10.8	7.3-14.3 -	Montgomery	481	15.0	13.7-16.3				
Philadelphia	711	22.9	21.2-24.6 +	Philadelphia	1,210	36.0	34.0-38.0 +				
Pennsylvania	1,125	18.3	17.2-19.3	Pennsylvania	8,189	15.6	15.3-16.0	Pennsylvania	333	13.1	11.7-14.5

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2005-2009

Select Counties	Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+		
		Male	Female			All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.
County and Race	Cty. Pop.															
Allegheny	Black	13.3%	103	52	155	14.1%	2	NA	21	12.3	63	41.0	63	51.4	6	NA
	White	83.2%	662	278	940	85.4%	22	1.9	238	26.8	393	36.1	240	23.1	47	5.0
Chester	Black	6.2%	11	6	17	6.7%	0	NA	4	NA	5	NA	7	NA	1	NA
	White	89.7%	157	80	237	93.3%	12	2.0	73	18.8	88	17.5	55	13.3	9	NA
Dauphin	Black	17.8%	5	13	18	14.5%	2	NA	3	NA	7	NA	6	NA	0	NA
	White	77.5%	73	31	104	83.9%	4	NA	37	21.6	35	15.5	22	10.4	6	NA
Delaware	Black	18.1%	38	15	53	9.3%	3	NA	11	8.9	21	19.8	17	25.6	0	NA
	White	76.4%	341	171	512	90.0%	15	2.8	152	40.7	200	44.8	127	30.4	18	5.1
Montgomery	Black	8.7%	25	12	37	7.1%	2	NA	7	NA	17	21.2	8	NA	3	NA
	White	84.6%	314	167	481	92.1%	20	2.4	153	27.1	193	26.2	93	14.6	22	4.2
Philadelphia	Black	45.8%	508	203	711	36.8%	7	NA	94	12.8	314	47.1	268	52.3	28	7.8
	White	46.9%	871	339	1,210	62.6%	20	2.5	401	50.0	536	78.5	225	38.1	28	5.0
Pennsylvania	Black	10.7%	785	340	1,125	12.0%	17	0.8	182	11.9	487	36.0	398	41.4	40	6.3
	White	85.9%	5,434	2,755	8,189	87.4%	254	1.9	2,483	25.5	3,389	29.8	1,664	16.0	398	4.5

INJURY DEATHS: MOTOR VEHICLE TRAFFIC ACCIDENTS

In 2009, among Pennsylvania residents, there were 1,261 deaths due to motor vehicle traffic (MVT) accidents. On average, one resident died every seven hours.

Injury Definition

Motor vehicle traffic accidents include any accident involving a motor vehicle that originates, terminates or occurs on a public highway.

A “public highway” is defined as the entire width between property lines of land open to the public for purposes of moving persons or property.

If unspecified, an accident involving motor vehicles is assumed to be a traffic accident.

HIGHLIGHTS

- *Age-adjusted rates have generally been **decreasing** over 2005 to 2009.*
- *Most common demographic is **white males**, ages 15 to 29.*
- *Of all Pennsylvania counties, **Juniata and Wyoming** show the highest rates.*

Trends Over Time

- Age-adjusted death rates for MVT injury have decreased 25 percent from 2005 to 2009.
- Age-adjusted MVT death rates decreased 12 percent from 2005 to 2007, from 13.0 to 11.5 deaths per 100,000 population. Rates then dropped another 16 percent from 2008 to 2009, to 9.6 deaths per 100,000 population – the lowest rate in over ten years.
- Males showed significantly higher age-adjusted MVT death rates than females over 2005 to 2009 (rates were 13.8 and 5.7, respectively, in 2009).
- Rural males and females showed significantly higher age-adjusted MVT death rates than urban males and females over 2005 to 2009.

Demographic Trends

- Males showed significantly higher MVT death rates than females for ages 5 and older.
- Among males, blacks showed higher MVT death rates for ages less than 5, while whites showed significantly higher MVT death rates for ages 15 to 29.
- Rural populations showed significantly higher MVT death rates than urban populations for ages 10 and older.

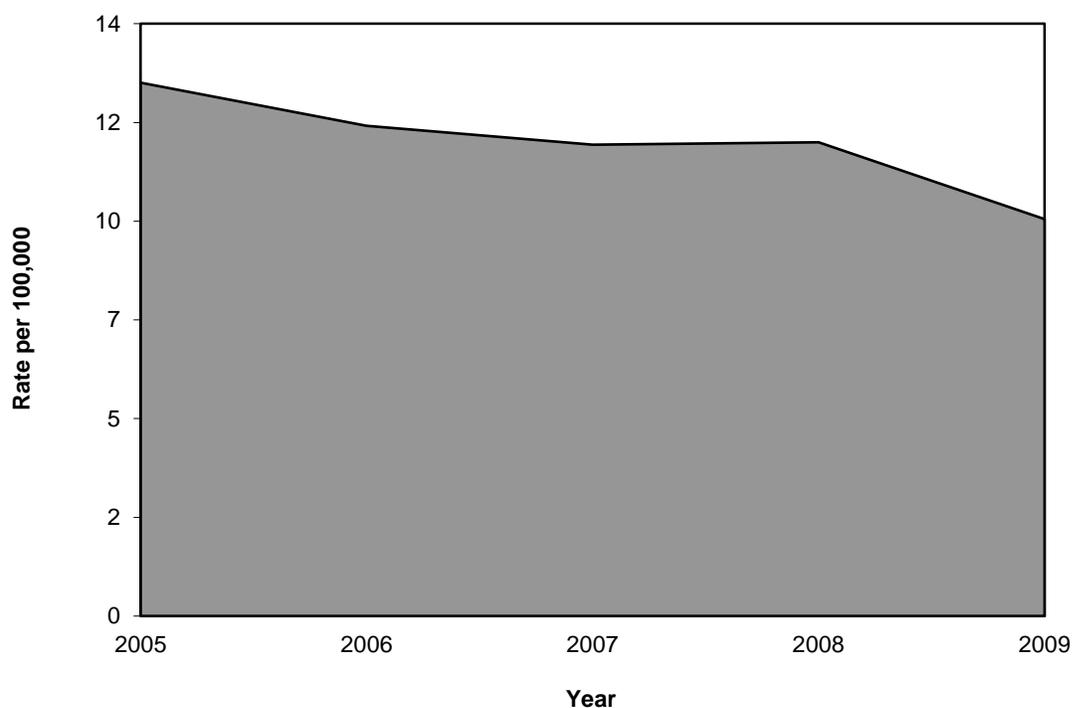
Regional Trends

- The Northwest Health District showed the highest age-specific MVT death rates, while the Southeast Health District showed the lowest rates.
- Thirty-four counties showed age-adjusted MVT death rates that were significantly higher than the comparable state rate for 2005 to 2009. Most counties were rural.

INJURY DEATHS: MOTOR VEHICLE TRAFFIC

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES PENNSYLVANIA RESIDENTS, 2005-2009

Year	No.	Rate
2005	1,667	13.0
2006	1,513	11.9
2007	1,479	11.5
2008	1,484	11.5
2009	1,261	9.6



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2005-2009

Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2005	15.9	18.6	14.8	9.7	17.0	13.2
2006	14.2	17.2	15.6	9.3	16.1	10.4
2007	16.3	13.6	13.3	9.2	14.6	10.7
2008	15.9	16.0	13.4	8.5	15.0	11.4
2009	12.9	12.1	10.8	7.3	12.8	9.8

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population.

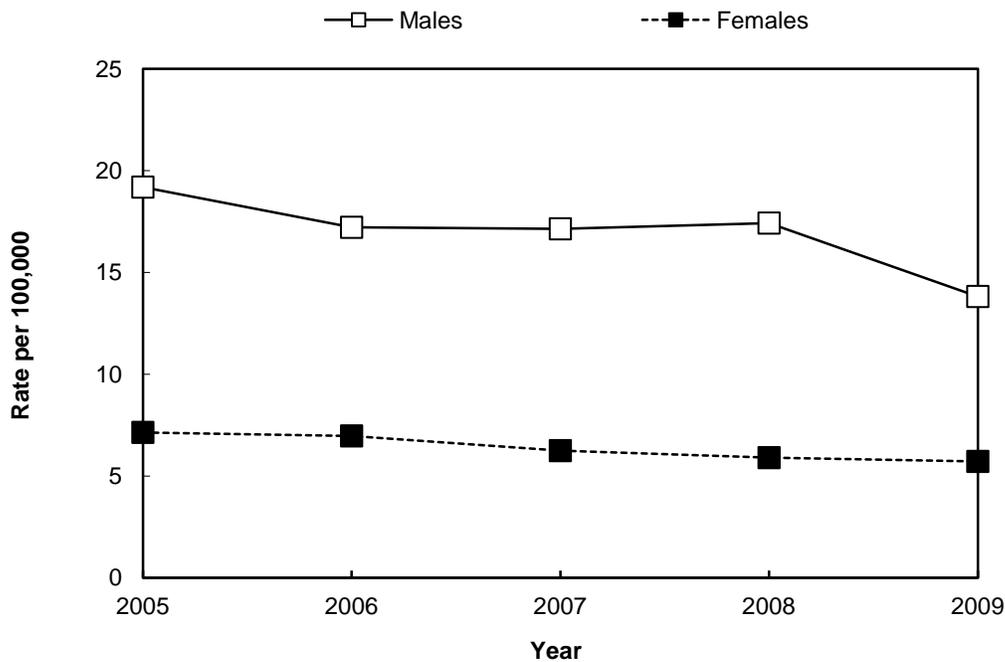
Rates are per 100,000. Data for 2005-2009 based on ICD-10 codes. See Technical Notes.

INJURY DEATHS: MOTOR VEHICLE TRAFFIC

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX PENNSYLVANIA RESIDENTS, 2005-2009

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2005	1,172	19.2 *	2005	495	7.1
2006	1,036	17.2 *	2006	477	7.0
2007	1,054	17.1 *	2007	425	6.2
2008	1,077	17.4 *	2008	407	5.9
2009	865	13.8 *	2009	396	5.7

* denotes a statistically significant difference between groups at level of $p = .05$



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2005-2009

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2005	15.4	28.9 *	2005	5.9	10.6 *
2006	14.6	24.0 *	2006	5.5	10.8 *
2007	14.5	24.0 *	2007	5.1	9.4 *
2008	14.5	24.8 *	2008	4.7	9.2 *
2009	11.4	20.0 *	2009	4.4	9.3 *

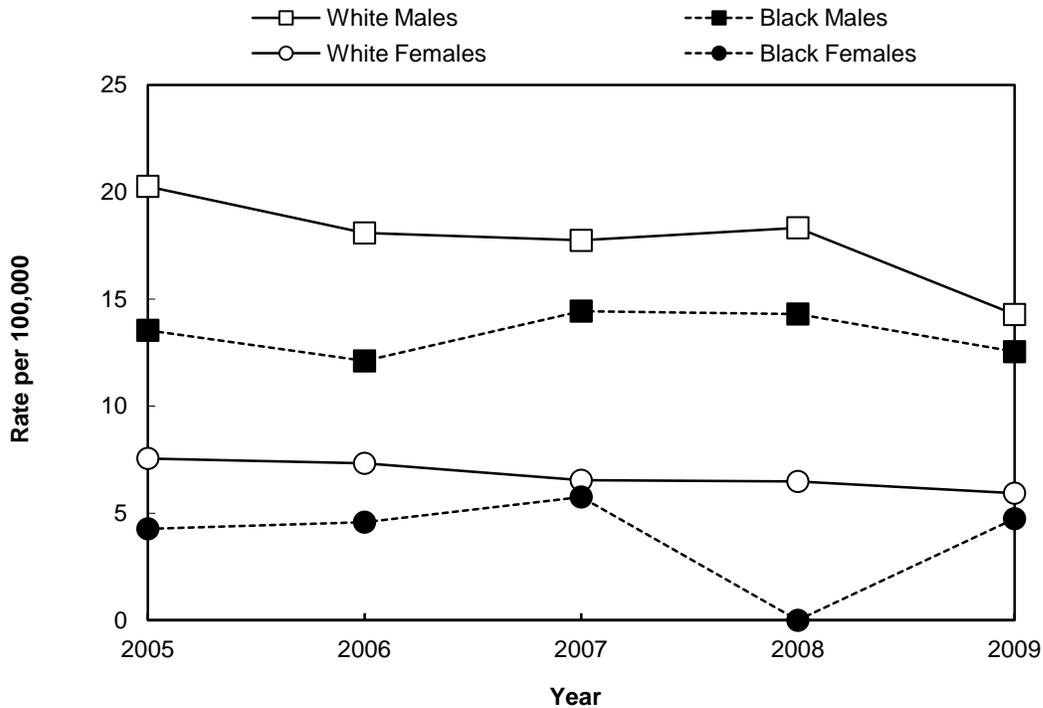
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY DEATHS: MOTOR VEHICLE TRAFFIC

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX AND RACE OR ETHNICITY PENNSYLVANIA RESIDENTS, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	1,074	82	456	29	31	10
2006	939	76	433	31	52	13
2007	943	96	380	41	36	7
2008	976	88	383	16	52	6
2009	770	81	357	33	17	10



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	20.3	13.5 *	7.6	4.3 *	12.7	NA
2006	18.1	12.1 *	7.3	4.6 *	19.1	NA
2007	17.7	14.4	6.5	5.8	13.4	NA
2008	18.3	14.3	6.5	NA	16.8	NA
2009	14.3	12.5	5.9	4.7	NA	NA

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Hispanics may be of any race. Hispanic numbers include whites, blacks and others of Hispanic ethnicity. Therefore, Hispanics must not be compared to whites or blacks, as the groups are not mutually exclusive.

INJURY DEATHS: MOTOR VEHICLE TRAFFIC

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2005-2009

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	7,404	11.9	5,204	17.2	2,200	6.9	4,387	9.7	3,017	17.6
< 5	71	1.9	40	2.1	31	1.7	48	1.7	23	2.5
5-9	53	1.4	35	1.8	18	1.0	32	1.1	21	2.1
10-14	94	2.3	62	3.0	32	1.6	48	1.6	46	4.3
15-19	780	16.8	518	22.2	262	11.4	451	13.5	329	25.2
20-24	1,041	23.7	826	37.1	215	9.9	653	20.7	388	31.2
25-29	669	18.3	520	27.8	149	8.3	394	14.4	275	29.5
30-34	429	11.4	327	17.3	102	5.5	249	9.0	180	18.0
35-39	503	12.3	377	18.5	126	6.1	295	9.8	208	19.0
40-44	523	11.7	371	16.8	152	6.7	289	8.8	234	19.4
45-49	555	12.0	409	17.9	146	6.2	333	9.9	222	17.6
50-54	452	10.2	340	15.7	112	5.0	265	8.3	187	15.2
55-59	411	10.4	296	15.5	115	5.7	248	8.8	163	14.5
60-64	309	9.4	217	13.9	92	5.4	160	6.9	149	15.5
65-69	265	10.1	181	15.0	84	5.9	150	8.2	115	14.5
70-74	268	12.0	157	16.1	111	8.8	159	10.1	109	16.3
75-79	330	17.4	178	23.1	152	13.5	194	14.5	136	24.3
80-84	342	24.0	190	35.5	152	17.1	215	21.2	127	31.0
85 +	308	22.8	159	39.4	149	15.7	204	21.1	104	27.2

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY DEATHS: MOTOR VEHICLE TRAFFIC

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2005-2009

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	4,702	18.1	423	13.4	2,009	7.3	150	4.3	234	8.3
< 5	28	1.8	10	3.9	22	1.5	9	NA	10	3.1
5-9	27	1.7	8	NA	17	1.1	1	NA	2	NA
10-14	52	3.1	8	NA	26	1.6	6	NA	5	NA
15-19	461	23.9	51	16.5	249	13.1	9	NA	24	8.5
20-24	731	39.7	80	27.2	198	11.1	14	4.8	40	16.1
25-29	470	30.5	44	17.7	129	8.8	16	6.5	33	14.4
30-34	284	18.0	35	16.0	89	5.8	9	NA	24	11.2
35-39	332	19.1	39	18.3	112	6.5	8	NA	32	15.1
40-44	341	17.7	24	11.2	140	7.2	11	4.5	16	8.4
45-49	363	18.0	43	20.9	132	6.5	13	5.4	15	9.0
50-54	319	16.5	17	9.6	100	5.0	10	4.7	8	NA
55-59	276	16.0	18	12.8	100	5.5	13	7.2	6	NA
60-64	201	14.2	12	11.3	84	5.5	5	NA	6	NA
65-69	166	15.0	10	13.2	76	5.9	5	NA	4	NA
70-74	145	16.1	8	NA	104	9.0	5	NA	3	NA
75-79	169	23.6	7	NA	140	13.5	9	NA	2	NA
80-84	181	36.4	6	NA	147	18.0	4	NA	2	NA
85 +	155	41.5	3	NA	144	16.4	3	NA	2	NA

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Hispanics may be of any race; therefore, their rates must not be compared to whites or blacks.

INJURY DEATHS: MOTOR VEHICLE TRAFFIC

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2005-2009

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	718	15.4	554	16.3	1,094	14.0	2,238	9.0	1,239	15.2	1,561	11.5
< 5	7	NA	3	NA	12	2.8	27	1.7	8	NA	14	1.9
5-9	6	NA	5	NA	10	2.2	17	1.0	9	NA	6	NA
10-14	10	3.3	10	5.1 +	9	NA	27	1.6	19	3.6	19	2.3
15-19	60	16.9	66	20.7	123	21.2 +	251	13.5 -	148	25.8 +	132	13.8 -
20-24	90	28.3	74	20.8	172	32.1 +	333	18.9 -	181	34.2 +	191	21.4
25-29	69	26.4 +	48	27.6 +	95	21.6	196	12.6 -	101	20.9	160	21.4 +
30-34	42	15.4	38	19.8 +	43	9.5	128	8.2 -	70	14.1	108	13.9 +
35-39	48	16.5 +	32	15.5	75	14.8	132	7.8 -	98	18.0 +	118	13.7
40-44	62	19.3 +	44	19.5 +	76	13.6	154	8.5 -	95	16.0 +	92	9.6
45-49	58	17.0 +	34	14.5	94	16.3 +	172	9.4 -	80	13.1	117	11.3
50-54	56	16.9 +	26	11.4	58	10.4	130	7.6 -	79	13.5 +	103	10.2
55-59	25	8.4	40	19.3 +	54	10.6	126	8.5 -	63	11.9	103	11.3
60-64	37	14.5 +	23	13.0	47	10.7	73	6.0 -	45	10.3	84	11.1
65-69	34	16.1 +	13	8.6	47	13.3	73	7.7 -	44	12.4	54	8.8
70-74	24	13.1	18	14.2	40	13.6	84	10.5	49	16.7 +	53	9.8
75-79	25	16.1	36	34.6 +	53	21.7	95	14.1 -	51	21.2	70	14.7
80-84	37	32.1	21	27.4	41	22.7	120	23.5	53	30.8	70	19.0 -
85 +	28	26.4	23	32.6	45	26.4	100	20.3	45	28.7	67	18.9

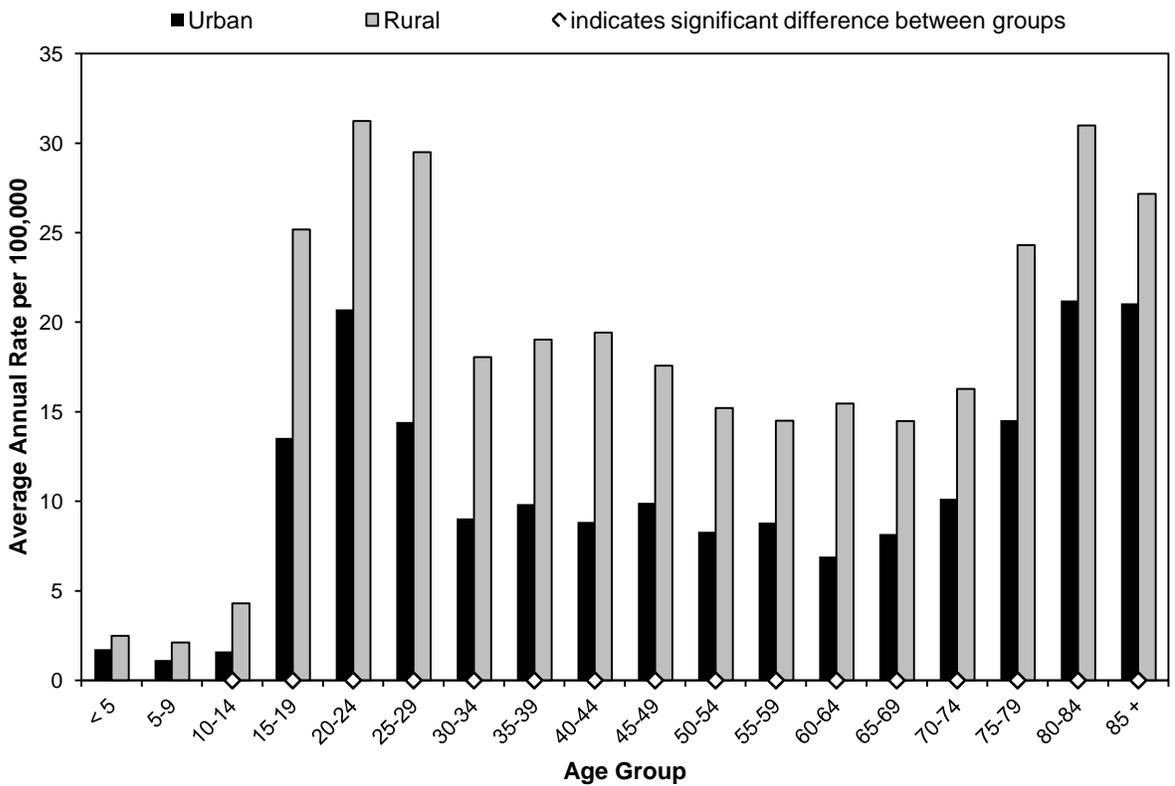
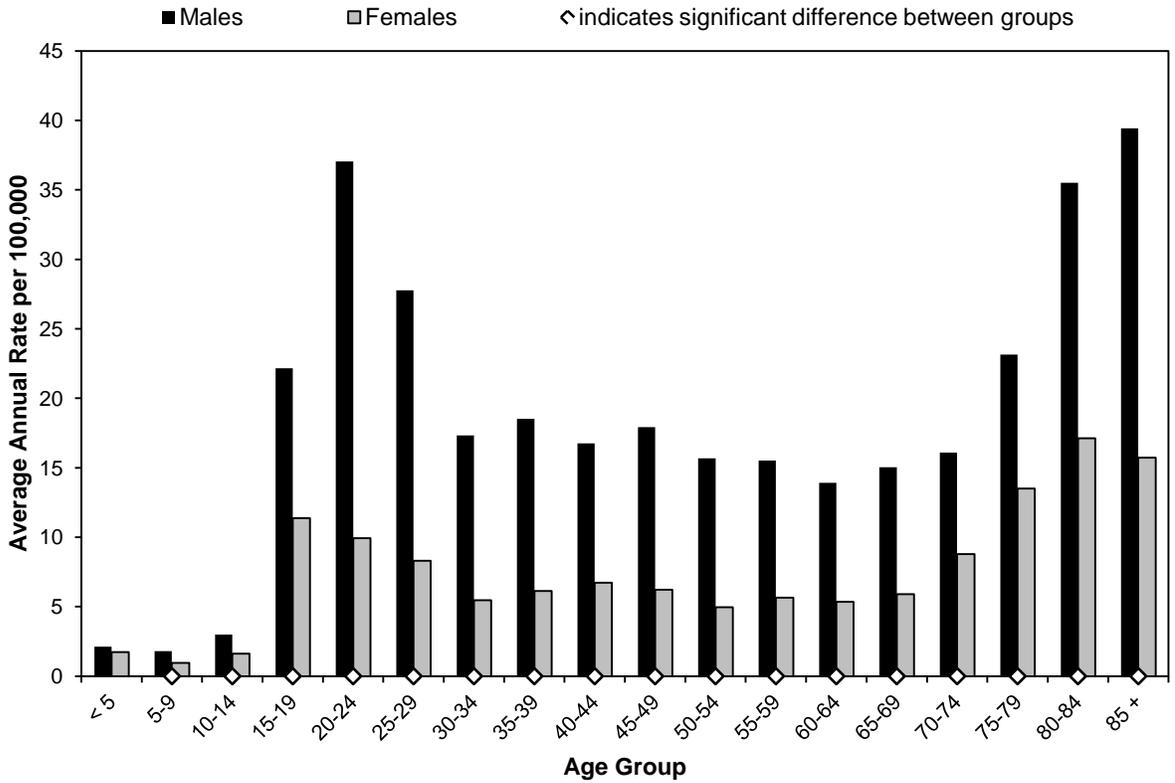
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total.

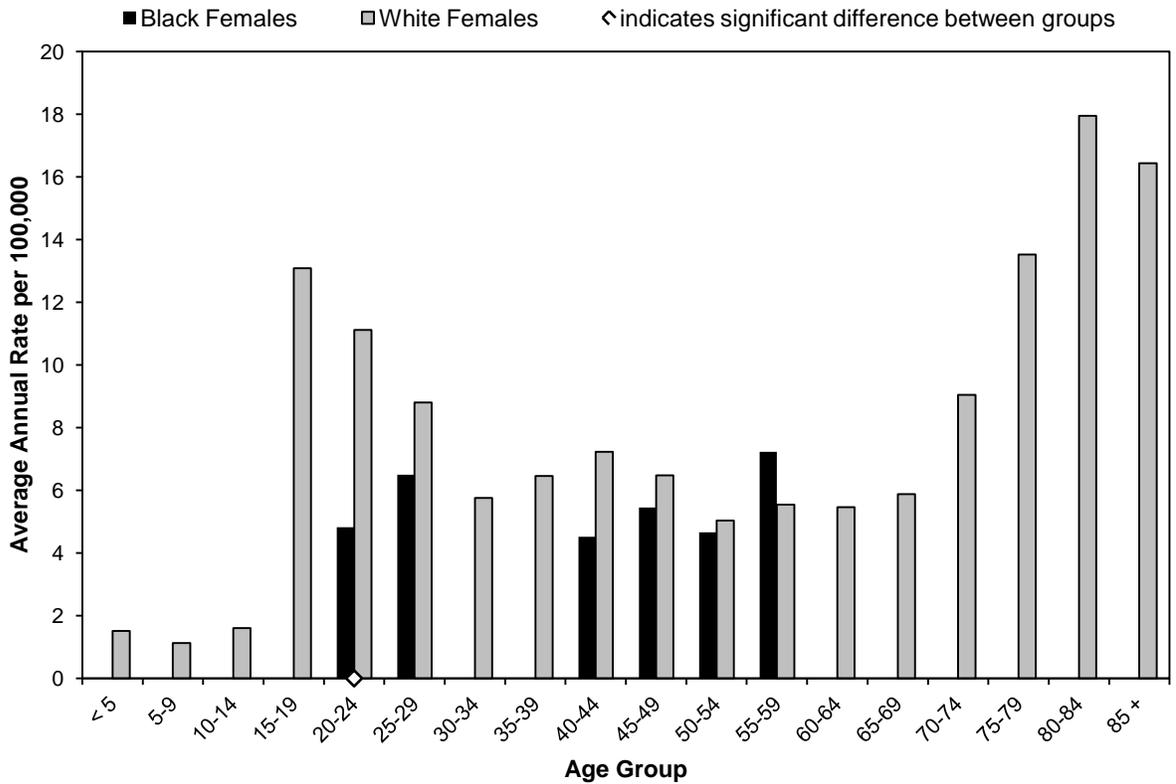
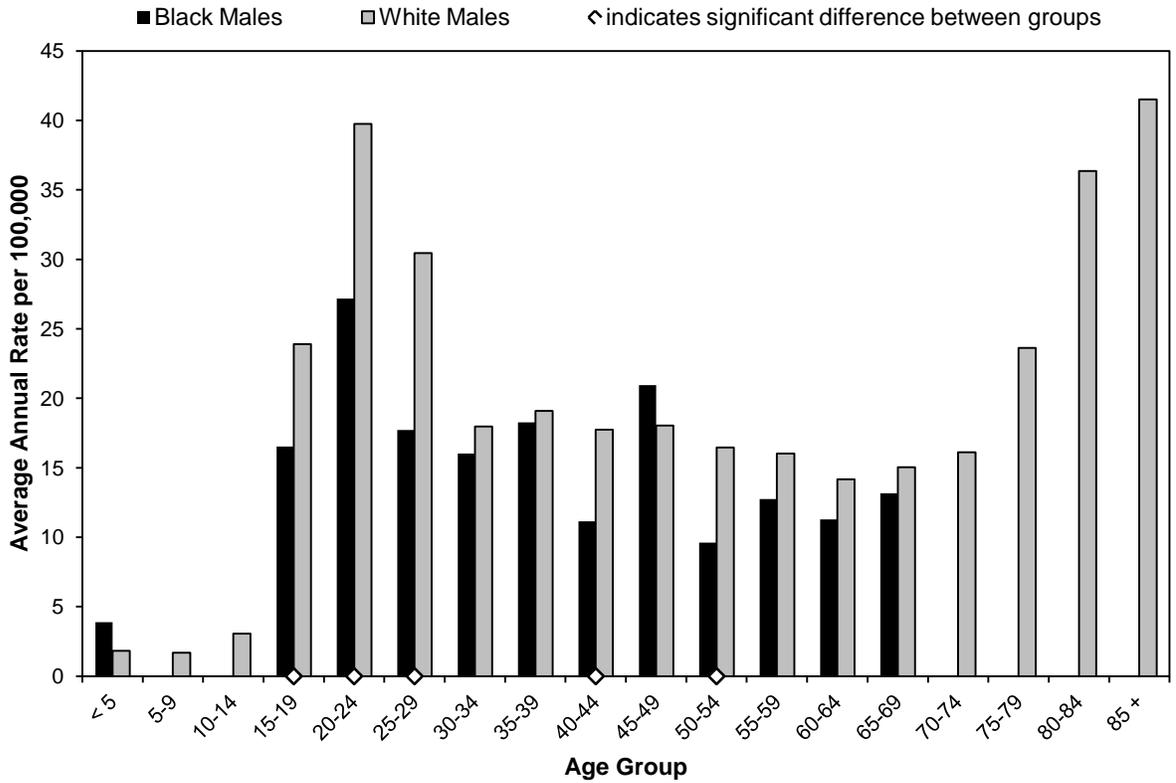
INJURY DEATHS: MOTOR VEHICLE TRAFFIC

AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2005-2009



INJURY DEATHS: MOTOR VEHICLE TRAFFIC

AVERAGE ANNUAL DEATH RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2005-2009



INJURY DEATHS: MOTOR VEHICLE TRAFFIC

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2005-2009

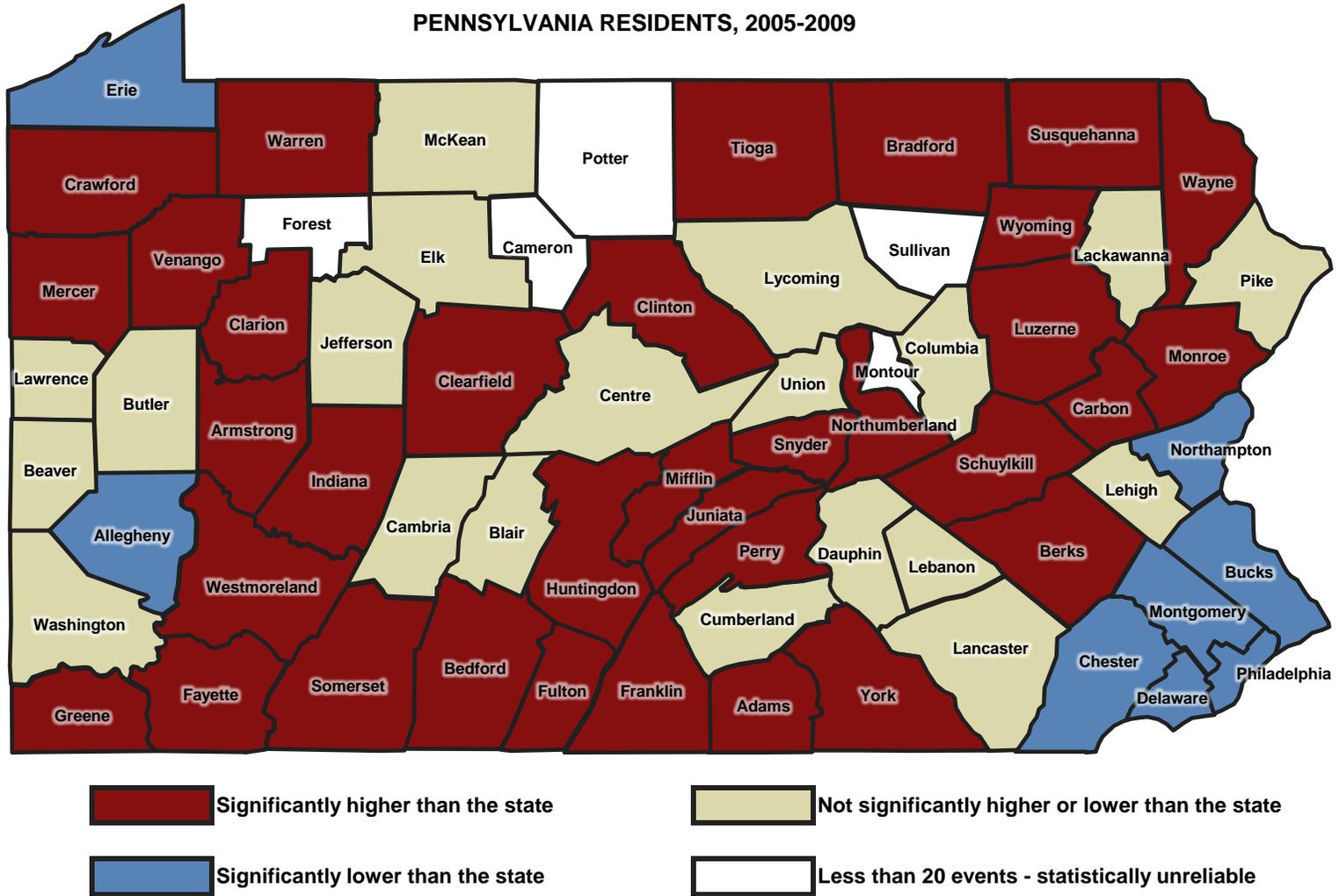
District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
Northeast	1,094	13.6	12.8-14.4 +	Southeast	2,238	8.8	8.4-9.1 -
Carbon	61	18.3	13.7-22.9 +	Berks	276	13.7	12.0-15.3 +
Lackawanna	123	11.2	9.3-13.2	Bucks	264	8.6	7.6-9.7 -
Lehigh	188	10.8	9.3-12.3	Chester	207	8.7	7.5-9.8 -
Luzerne	221	13.6	11.8-15.4 +	Delaware	171	5.8	5.0-6.7 -
Monroe	169	20.0	17.0-23.0 +	Lancaster	331	13.1	11.7-14.5
Northampton	147	9.5	8.0-11.1 -	Montgomery	271	7.0	6.1-7.8 -
Pike	43	16.0	11.2-20.7	Philadelphia	566	7.5	6.9-8.1 -
Susquehanna	43	21.2	14.8-27.5 +	Schuylkill	152	19.8	16.7-23.0 +
Wayne	59	24.9	18.6-31.3 +				
Wyoming	40	29.2	20.1-38.2 +				
North Central	554	15.5	14.2-16.8 +	South Central	1,239	15.0	14.2-15.9 +
Bradford	49	16.4	11.8-21.0 +	Adams	96	18.8	15.0-22.5 +
Centre	84	12.9	10.1-15.6	Bedford	52	21.8	15.9-27.7 +
Clinton	40	21.7	15.0-28.4 +	Blair	91	14.1	11.2-17.0
Columbia	51	15.2	11.1-19.4	Cumberland	127	10.2	8.4-12.0
Lycoming	93	14.5	11.6-17.4	Dauphin	166	13.1	11.1-15.1
Montour	14	NA		Franklin	122	16.9	13.9-19.9 +
Northumberland	85	18.3	14.4-22.2 +	Fulton	20	26.7	15.0-38.4 +
Potter	16	NA		Huntingdon	53	23.0	16.8-29.2 +
Snyder	36	19.1	12.9-25.4 +	Juniata	34	29.7	19.7-39.7 +
Sullivan	6	NA		Lebanon	80	11.8	9.2-14.4
Tioga	44	20.9	14.7-27.1 +	Mifflin	46	20.0	14.2-25.8 +
Union	36	15.4	10.4-20.4	Perry	53	24.9	18.2-31.6 +
				York	299	14.2	12.6-15.8 +
Northwest	718	15.0	13.9-16.1 +	Southwest	1,561	11.1	10.6-11.7
Cameron	7	NA		Allegheny	435	6.8	6.1-7.4 -
Clarion	49	23.5	16.9-30.1 +	Armstrong	58	15.9	11.8-20.0 +
Clearfield	92	22.2	17.6-26.7 +	Beaver	113	12.9	10.6-15.3
Crawford	83	18.2	14.3-22.1 +	Butler	123	13.3	11.0-15.7
Elk	29	17.0	10.8-23.2	Cambria	108	14.4	11.7-17.2
Erie	137	9.5	7.9-11.0 -	Fayette	161	22.4	18.9-25.8 +
Forest	8	NA		Greene	38	18.4	12.5-24.2 +
Jefferson	35	15.9	10.6-21.2	Indiana	71	16.4	12.6-20.2 +
Lawrence	50	10.9	7.9-13.9	Somerset	71	17.5	13.4-21.6 +
McKean	37	16.3	11.0-21.6	Washington	118	11.1	9.1-13.1
Mercer	91	15.3	12.1-18.4 +	Westmoreland	265	14.8	13.0-16.6 +
Venango	49	17.9	12.9-22.9 +				
Warren	51	24.7	17.9-31.5 +	Pennsylvania	7,404	11.5	11.2-11.8

NOTE: Rates based on less than 20 events are unreliable and were not calculated. See Technical Notes.

+/- denotes that the county's rate is significantly higher or lower than the state at the p=.05 level.

INJURY DEATHS: MOTOR VEHICLE TRAFFIC

AGE-ADJUSTED DEATH RATES BY COUNTY,
WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE
PENNSYLVANIA RESIDENTS, 2005-2009



NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. See Technical Notes.

INJURY DEATHS: MOTOR VEHICLE TRAFFIC

TOTAL NUMBER OF INJURY DEATHS AND AVERAGE ANNUAL DEATH RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2005-2009

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	5,204	2,200	7,404	998	6.2	2,139	18.1	1,581	12.0	1,172	10.1	1,513	15.9
Northeast	759	335	1,094	154	7.8	310	21.7	245	14.9	159	10.5	226	18.2
Carbon	36	25	61	5	NA	15	24.7	15	22.5	12	18.7	14	25.9
Lackawanna	93	30	123	14	5.5	38	19.4	26	12.4	21	10.6	24	12.6
Lehigh	127	61	188	25	5.6	49	15.3	42	11.9	18	5.7	54	21.1
Luzerne	155	66	221	23	6.4	69	24.1	51	15.6	34	11.3	44	15.3
Monroe	115	54	169	36	15.3	38	25.9	38	20.2	25	15.9	32	33.1
Northampton	100	47	147	23	5.8	31	11.3	33	10.8	22	8.0	38	17.7
Pike	30	13	43	3	NA	19	40.8	10	15.0	8	NA	3	NA
Susquehanna	37	6	43	5	NA	16	46.1	10	23.8	8	NA	4	NA
Wayne	38	21	59	13	23.0	19	45.3	13	24.5	3	NA	11	23.8
Wyoming	28	12	40	7	NA	16	67.9	7	NA	8	NA	2	NA
Southeast	1,590	648	2,238	322	4.8	657	13.5	458	8.6	329	7.5	472	13.8
Berks	210	66	276	33	5.8	82	22.1	64	14.9	43	12.0	54	19.0
Bucks	177	87	264	37	4.6	75	14.3	51	6.9	44	7.1	57	13.6
Chester	142	65	207	34	4.9	78	17.5	31	5.6	28	6.3	36	12.2
Delaware	121	50	171	18	2.4	43	8.1	31	5.3	32	6.3	47	11.8
Lancaster	236	95	331	54	7.6	101	21.2	70	13.8	39	9.0	67	18.6
Montgomery	188	83	271	35	3.5	77	11.0	63	7.1	31	4.3	65	11.3
Philadelphia	409	157	566	90	4.3	160	9.4	119	8.2	88	7.5	109	11.4
Schuylkill	107	45	152	21	13.0	41	30.4	29	17.5	24	17.4	37	27.2

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	5,204	2,200	7,404	998	6.2	2,139	18.1	1,581	12.0	1,172	10.1	1,513	15.9
North Central	395	159	554	84	9.6	160	22.2	110	16.5	89	14.5	111	21.0
Bradford	36	13	49	8	NA	16	30.6	11	17.0	6	NA	8	NA
Centre	59	25	84	10	5.2	26	12.0	20	16.2	11	10.5	17	21.5
Clinton	31	9	40	1	NA	16	44.4	10	28.8	9	NA	4	NA
Columbia	42	9	51	8	NA	13	18.8	11	18.6	9	NA	10	19.0
Lycoming	57	36	93	13	9.0	20	17.8	18	14.9	17	15.1	25	26.0
Montour	12	2	14	2	NA	7	NA	4	NA	1	NA	0	NA
Northumberland	62	23	85	14	13.1	22	29.0	16	16.4	14	15.2	19	22.1
Potter	13	3	16	3	NA	8	NA	1	NA	3	NA	1	NA
Snyder	25	11	36	10	19.3	9	NA	9	NA	2	NA	6	NA
Sullivan	3	3	6	0	NA	1	NA	0	NA	3	NA	2	NA
Tioga	28	16	44	11	19.3	9	NA	5	NA	9	NA	10	28.2
Union	27	9	36	4	NA	13	25.3	5	NA	5	NA	9	NA
South Central	870	369	1,239	184	8.8	352	23.3	273	15.6	187	12.0	242	19.9
Adams	75	21	96	17	12.4	30	31.8	22	20.2	15	16.0	12	16.9
Bedford	33	19	52	11	17.9	13	30.8	10	18.9	8	NA	10	23.1
Blair	68	23	91	9	NA	24	21.1	21	16.4	12	9.7	25	22.8
Cumberland	96	31	127	20	6.9	44	19.1	25	10.6	19	9.1	19	11.0
Dauphin	107	59	166	18	5.4	52	22.6	33	11.5	27	10.7	36	20.3
Franklin	84	38	122	18	9.6	34	26.1	26	18.4	14	10.6	29	24.9
Fulton	14	6	20	3	NA	5	NA	7	NA	3	NA	2	NA
Huntingdon	34	19	53	11	20.8	16	34.5	14	28.2	3	NA	9	NA
Juniata	28	6	34	6	NA	9	NA	8	NA	5	NA	6	NA
Lebanon	53	27	80	15	9.3	19	15.3	12	9.3	16	13.3	18	17.0
Mifflin	30	16	46	8	NA	10	25.7	11	23.6	7	NA	10	24.1
Perry	41	12	53	6	NA	13	32.1	23	46.2	3	NA	8	NA
York	207	92	299	42	7.7	83	21.5	61	12.7	55	13.7	58	20.3

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	5,204	2,200	7,404	998	6.2	2,139	18.1	1,581	12.0	1,172	10.1	1,513	15.9
Northwest	491	227	718	83	7.0	201	23.6	168	17.6	118	13.3	148	19.2
Cameron	5	2	7	3	NA	0	NA	2	NA	0	NA	2	NA
Clarion	37	12	49	4	NA	18	46.0	11	29.2	6	NA	10	29.9
Clearfield	58	34	92	15	16.4	26	34.7	19	20.6	18	22.2	14	19.4
Crawford	52	31	83	8	NA	19	24.0	21	23.9	17	19.5	18	25.2
Elk	21	8	29	3	NA	8	NA	5	NA	6	NA	7	NA
Erie	96	41	137	13	3.5	47	16.5	34	11.9	18	7.2	25	12.4
Forest	4	4	8	2	NA	0	NA	2	NA	1	NA	3	NA
Jefferson	22	13	35	7	NA	8	NA	12	25.9	2	NA	6	NA
Lawrence	31	19	50	4	NA	14	18.4	11	11.9	12	13.6	9	NA
McKean	28	9	37	2	NA	8	NA	11	23.2	7	NA	9	NA
Mercer	61	30	91	9	NA	24	23.8	21	17.9	14	12.5	23	22.0
Venango	36	13	49	8	NA	16	35.3	7	NA	11	19.3	7	NA
Warren	40	11	51	5	NA	13	39.6	12	27.9	6	NA	15	40.6
Southwest	1,099	462	1,561	171	5.2	459	19.0	327	11.5	290	10.8	314	13.4
Allegheny	297	138	435	41	2.8	122	10.9	86	6.7	80	6.8	106	10.2
Armstrong	44	14	58	6	NA	10	18.6	16	21.8	6	NA	20	31.4
Beaver	84	29	113	11	5.4	40	27.6	23	12.5	16	9.0	23	14.4
Butler	72	51	123	13	5.3	41	25.3	20	9.9	24	13.8	25	18.9
Cambria	82	26	108	12	7.2	33	25.7	24	16.0	18	12.4	21	15.3
Fayette	115	46	161	18	10.5	46	37.7	36	23.5	35	23.4	26	20.5
Greene	21	17	38	5	NA	14	35.5	6	NA	7	NA	6	NA
Indiana	59	12	71	6	NA	20	21.6	15	18.4	19	23.4	11	16.0
Somerset	49	22	71	12	14.0	15	21.1	12	14.2	18	23.7	14	19.4
Washington	85	33	118	14	5.6	32	17.2	27	12.7	25	12.1	20	11.2
Westmoreland	191	74	265	33	7.9	86	28.5	62	16.0	42	11.1	42	12.5

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY DEATHS: MOTOR VEHICLE TRAFFIC

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2005-2009

BLACK POPULATION BY COUNTY				WHITE POPULATION BY COUNTY				HISPANIC POPULATION BY COUNTY			
County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)
Allegheny	81	10.5	8.2-12.8	Allegheny	350	6.3	5.7-7.0 -	Berks	19	NA	
Chester	17	NA		Chester	185	8.6	7.4-9.9 -	Lancaster	24	12.7	7.6-17.8
Dauphin	27	12.5	7.8-17.2	Dauphin	138	13.9	11.6-16.2	Lehigh	18	NA	
Delaware	31	6.3	4.1-8.5	Delaware	136	5.8	4.8-6.8 -	Philadelphia	75	10.3	8.0-12.6
Montgomery	32	9.1	5.9-12.2	Montgomery	226	6.9	6.0-7.8 -				
Philadelphia	257	7.7	6.7-8.6	Philadelphia	273	7.3	6.4-8.2 -				
Pennsylvania	573	8.6	7.9-9.3	Pennsylvania	6,711	12.1	11.8-12.4	Pennsylvania	234	8.8	7.6-9.9

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2005-2009

Select Counties	Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+		
		Male	Female			All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.
County and Race	Cty. Pop.															
Allegheny	Black	13.3%	57	24	81	18.6%	11	3.9	32	18.8	17	11.1	9	NA	12	13.3
	White	83.2%	237	113	350	80.5%	30	2.6	88	9.9	68	6.3	70	6.7	94	10.0
Chester	Black	6.2%	13	4	17	8.2%	1	NA	10	28.3	3	NA	1	NA	2	NA
	White	89.7%	125	60	185	89.4%	33	5.4	64	16.5	27	5.4	27	6.5	34	12.4
Dauphin	Black	17.8%	19	8	27	16.3%	3	NA	12	25.5	6	NA	4	NA	2	NA
	White	77.5%	87	51	138	83.1%	15	6.5	40	23.4	27	11.9	22	10.4	34	22.0
Delaware	Black	18.1%	24	7	31	18.1%	5	NA	10	8.1	11	10.4	3	NA	2	NA
	White	76.4%	95	41	136	79.5%	13	2.4	32	8.6	18	4.0	29	6.9	44	12.5
Montgomery	Black	8.7%	21	11	32	11.8%	5	NA	8	NA	14	17.5	3	NA	2	NA
	White	84.6%	158	68	226	83.4%	29	3.5	68	12.0	45	6.1	24	3.8	60	11.4
Philadelphia	Black	45.8%	187	70	257	45.4%	49	4.5	81	11.0	67	10.1	32	6.2	28	7.8
	White	46.9%	197	76	273	48.2%	33	4.1	68	8.5	49	7.2	50	8.5	73	12.9
Pennsylvania	Black	10.7%	423	150	573	7.7%	102	4.7	198	13.0	138	10.2	75	7.8	60	9.4
	White	85.9%	4,702	2,009	6,711	90.6%	882	6.7	1,901	19.5	1,420	12.5	1,080	10.4	1,427	16.3

INJURY DEATHS: FIREARM-RELATED

In 2009, among Pennsylvania residents, there were 1,336 deaths due to firearm-related injuries and violence. On average, one resident died every seven hours.

Injury Definition

Firearm-related injury includes:

- suicide by firearm
- homicide by firearm
- injury from accidental discharge
- injury from legal intervention or police action.

Firearms include handguns, shotguns and rifles.

Violence (suicide and homicide) accounts for over 95 percent of all firearm-related deaths in PA.

HIGHLIGHTS

- *Age-adjusted rates have generally been **stable** over 2005 to 2009.*
- *Most common demographic is **white males** ages 20 to 54.*
- *Of all Pennsylvania counties, **Philadelphia** shows the highest rate.*

Trends Over Time

- Age-adjusted death rates for firearm-related injury remained stable from 2005 to 2009. The age-adjusted firearms death rate in 2009 was 10.3 deaths per 100,000 population.
- Males showed significantly higher age-adjusted firearm death rates than females over 2005 to 2009 (rates were 18.4 and 2.8, respectively, in 2009).
- Black males showed significantly higher age-adjusted firearm death rates than white males over 2005 to 2009 (rates were 42.6 and 15.0, respectively, in 2009).

Demographic Trends

- Males showed significantly higher firearm death rates than females for all age groups.
- Among males, blacks showed significantly higher firearm death rates for ages 10 to 49. Among females, blacks showed significantly higher rates for ages 15 to 29.
- Urban populations showed significantly higher firearm death rates for ages under 40, while rural populations showed higher rates for ages 40 and older.

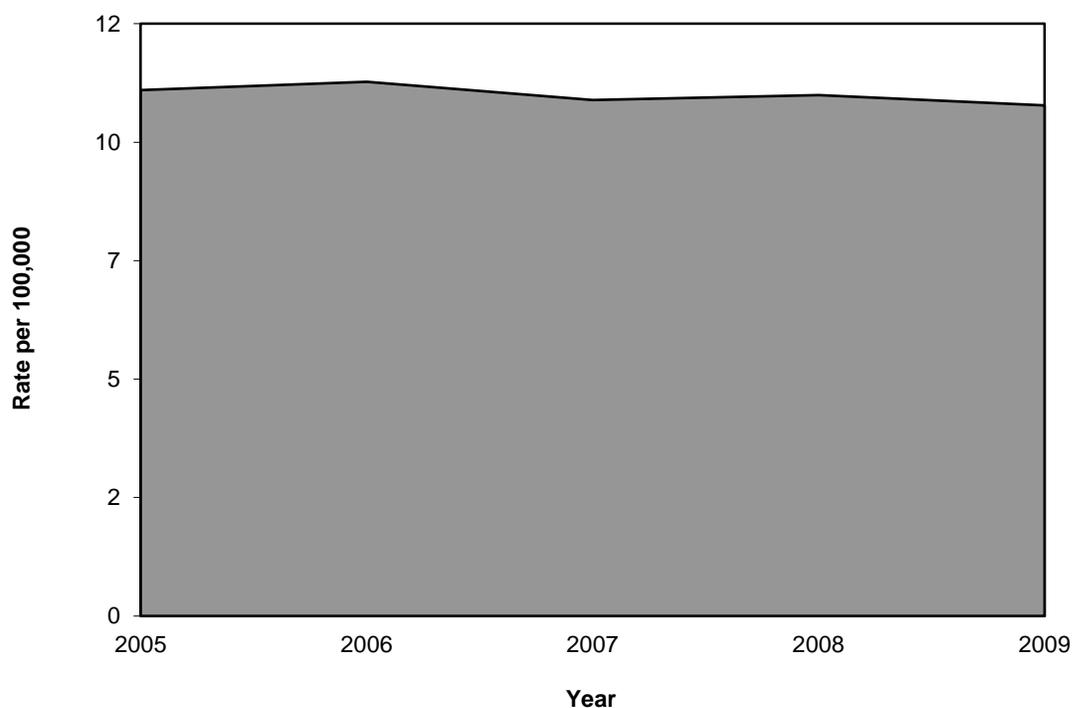
Regional Trends

- The Southeast Health District generally showed the highest age-specific firearm death rates, while the North Central Health District showed the lowest rates. However, the Northwest Health District showed the highest rates among ages 70 and older.
- Two counties showed age-adjusted firearm death rates in 2005 to 2009 that were significantly higher than the comparable state rate: Allegheny and Philadelphia.

INJURY DEATHS: FIREARM-RELATED

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES PENNSYLVANIA RESIDENTS, 2005-2009

Year	No.	Rate
2005	1,338	10.7
2006	1,361	10.8
2007	1,308	10.5
2008	1,335	10.6
2009	1,336	10.3



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2005-2009

Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2005	9.5	6.4	9.9	12.9	8.3	9.7
2006	8.4	7.2	8.3	13.2	8.2	11.0
2007	8.5	8.2	9.1	12.8	7.8	9.7
2008	8.4	8.0	9.0	12.1	8.7	11.1
2009	9.5	7.5	7.8	11.2	10.0	11.3

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population.

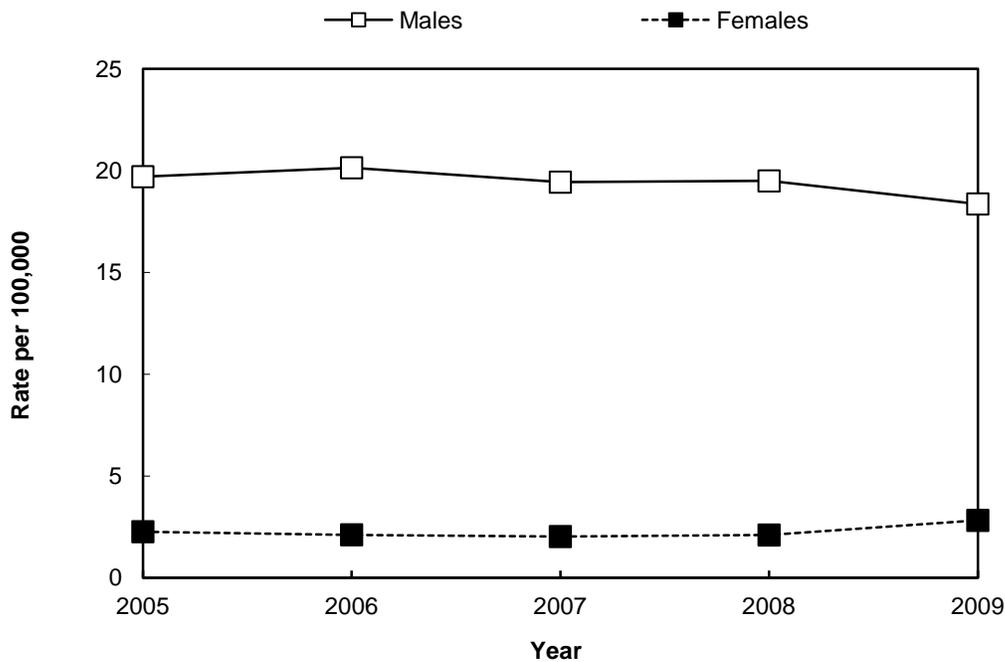
Rates are per 100,000. Data for 2005-2009 based on ICD-10 codes. See Technical Notes.

INJURY DEATHS: FIREARM-RELATED

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX PENNSYLVANIA RESIDENTS, 2005-2009

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2005	1,195	19.7 *	2005	143	2.3
2006	1,227	20.1 *	2006	134	2.1
2007	1,181	19.4 *	2007	127	2.0
2008	1,199	19.5 *	2008	136	2.1
2009	1,152	18.4 *	2009	184	2.8

** denotes a statistically significant difference between groups at level of $p = .05$*



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2005-2009

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2005	21.2	15.7 *	2005	2.3	2.1
2006	22.2	14.8 *	2006	2.0	2.4
2007	20.8	15.9 *	2007	2.1	1.7
2008	20.7	16.3 *	2008	2.0	2.4
2009	19.2	16.1	2009	2.7	3.3

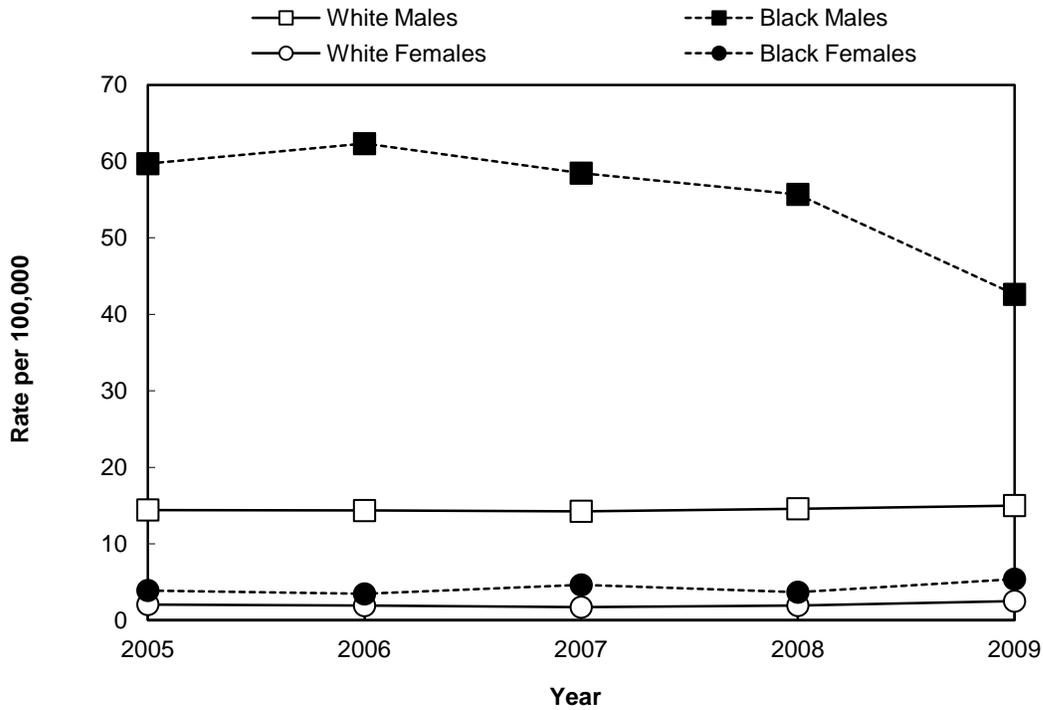
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY DEATHS: FIREARM-RELATED

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX AND RACE OR ETHNICITY PENNSYLVANIA RESIDENTS, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	779	401	113	27	55	8
2006	766	445	106	25	58	2
2007	758	412	94	32	70	6
2008	793	397	109	27	48	4
2009	826	317	143	40	59	6



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	14.4	59.7 *	2.1	3.9	22.6	NA
2006	14.3	62.3 *	1.9	3.5	18.5	NA
2007	14.3	58.5 *	1.7	4.6 *	23.8	NA
2008	14.6	55.7 *	1.9	3.7	16.0	NA
2009	15.0	42.6 *	2.5	5.4 *	18.8	NA

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Hispanics may be of any race. Hispanic numbers include whites, blacks and others of Hispanic ethnicity. Therefore, Hispanics must not be compared to whites or blacks, as the groups are not mutually exclusive.

INJURY DEATHS: FIREARM-RELATED

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2005-2009

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	6,678	10.7	5,954	19.7	724	2.3	5,093	11.3	1,585	9.2
< 5	12	0.3	10	0.5	2	NA	8	NA	4	NA
5-9	14	0.4	8	NA	6	NA	11	0.4	3	NA
10-14	35	0.9	27	1.3	8	NA	26	0.9	9	NA
15-19	576	12.4	539	23.1	37	1.6	511	15.3	65	5.0
20-24	919	20.9	847	38.0	72	3.3	801	25.4	118	9.5
25-29	723	19.7	664	35.5	59	3.3	618	22.6	105	11.3
30-34	604	16.1	527	27.9	77	4.1	486	17.7	118	11.8
35-39	546	13.3	471	23.1	75	3.6	423	14.1	123	11.3
40-44	531	11.9	461	20.8	70	3.1	382	11.7	149	12.4
45-49	559	12.1	485	21.3	74	3.2	385	11.5	174	13.8
50-54	555	12.5	485	22.4	70	3.1	384	12.0	171	13.9
55-59	391	9.9	337	17.7	54	2.7	263	9.3	128	11.4
60-64	281	8.6	240	15.4	41	2.4	201	8.7	80	8.3
65-69	218	8.3	197	16.4	21	1.5	141	7.7	77	9.7
70-74	185	8.3	169	17.3	16	1.3	108	6.9	77	11.5
75-79	218	11.5	207	26.9	11	1.0	144	10.8	74	13.2
80-84	178	12.5	154	28.8	24	2.7	113	11.2	65	15.9
85 +	131	9.7	124	30.7	7	NA	86	8.9	45	11.8

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY DEATHS: FIREARM-RELATED

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2005-2009

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
TOTAL	3,922	15.1	1,972	62.3	565	2.1	151	4.3	316	11.2		
< 5	7	NA	3	NA	2	NA	0	NA	1	NA		
5-9	6	NA	2	NA	4	NA	2	NA	1	NA		
10-14	15	0.9	11	3.9	*	6	NA	2	NA	1	NA	
15-19	158	8.2	379	122.9	*	20	1.1	16	5.3	*	27	9.6
20-24	325	17.7	505	171.5	*	35	2.0	36	12.4	*	83	33.5
25-29	263	17.0	389	156.6	*	38	2.6	20	8.1	*	54	23.6
30-34	278	17.6	247	113.1	*	58	3.8	17	7.4		48	22.4
35-39	313	18.0	154	72.1	*	55	3.2	20	8.5	*	35	16.6
40-44	357	18.6	97	45.1	*	60	3.1	10	4.1		21	11.0
45-49	409	20.3	69	33.6	*	61	3.0	12	5.0		16	9.6
50-54	433	22.4	50	28.3		62	3.1	8	NA		12	9.9
55-59	312	18.1	22	15.6		51	2.8	2	NA		5	NA
60-64	228	16.1	12	11.3		36	2.3	4	NA		7	NA
65-69	190	17.2	6	NA		20	1.5	1	NA		2	NA
70-74	165	18.3	4	NA		15	1.3	1	NA		2	NA
75-79	197	27.5	9	NA		11	1.1	0	NA		1	NA
80-84	146	29.3	8	NA		24	2.9	0	NA		0	NA
85 +	119	31.9	5	NA		7	NA	0	NA		0	NA

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Hispanics may be of any race; therefore, their rates must not be compared to whites or blacks.

INJURY DEATHS: FIREARM-RELATED

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2005-2009

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	434	9.3	261	7.7	708	9.1	3,106	12.5	714	8.8	1,455	10.7
< 5	0	NA	2	NA	2	NA	3	NA	1	NA	4	NA
5-9	1	NA	0	NA	0	NA	7	NA	1	NA	5	NA
10-14	0	NA	2	NA	3	NA	15	0.9	5	NA	10	1.2
15-19	15	4.2 -	12	3.8 -	33	5.7 -	358	19.3 +	37	6.4 -	121	12.6
20-24	35	11.0 -	17	4.8 -	73	13.6 -	562	31.9 +	60	11.3 -	172	19.3
25-29	20	7.7 -	17	9.8 -	64	14.5 -	415	26.6 +	67	13.9 -	140	18.7
30-34	37	13.6	20	10.4 -	42	9.2 -	306	19.7 +	59	11.9 -	140	18.0
35-39	34	11.7	22	10.7	67	13.2	257	15.2 +	60	11.0	106	12.3
40-44	40	12.4	16	7.1 -	67	12.0	228	12.6	72	12.1	108	11.2
45-49	36	10.6	29	12.4	57	9.9	228	12.5	70	11.5	139	13.5
50-54	49	14.8	25	11.0	85	15.2	207	12.1	67	11.5	122	12.0
55-59	33	11.0	27	13.0	56	11.0	138	9.3	50	9.4	87	9.6
60-64	29	11.3	16	9.0	35	7.9	108	8.9	32	7.3	61	8.1
65-69	16	7.6	10	6.6	32	9.1	65	6.9	32	9.0	63	10.3
70-74	31	16.9 +	10	7.9	20	6.8	53	6.6	26	8.9	45	8.3
75-79	25	16.1	16	15.4	34	13.9	60	8.9 -	29	12.1	54	11.4
80-84	18	15.6	13	16.9	24	13.3	55	10.8	26	15.1	42	11.4
85 +	15	14.1	7	NA	14	8.2	39	7.9	20	12.7	36	10.2

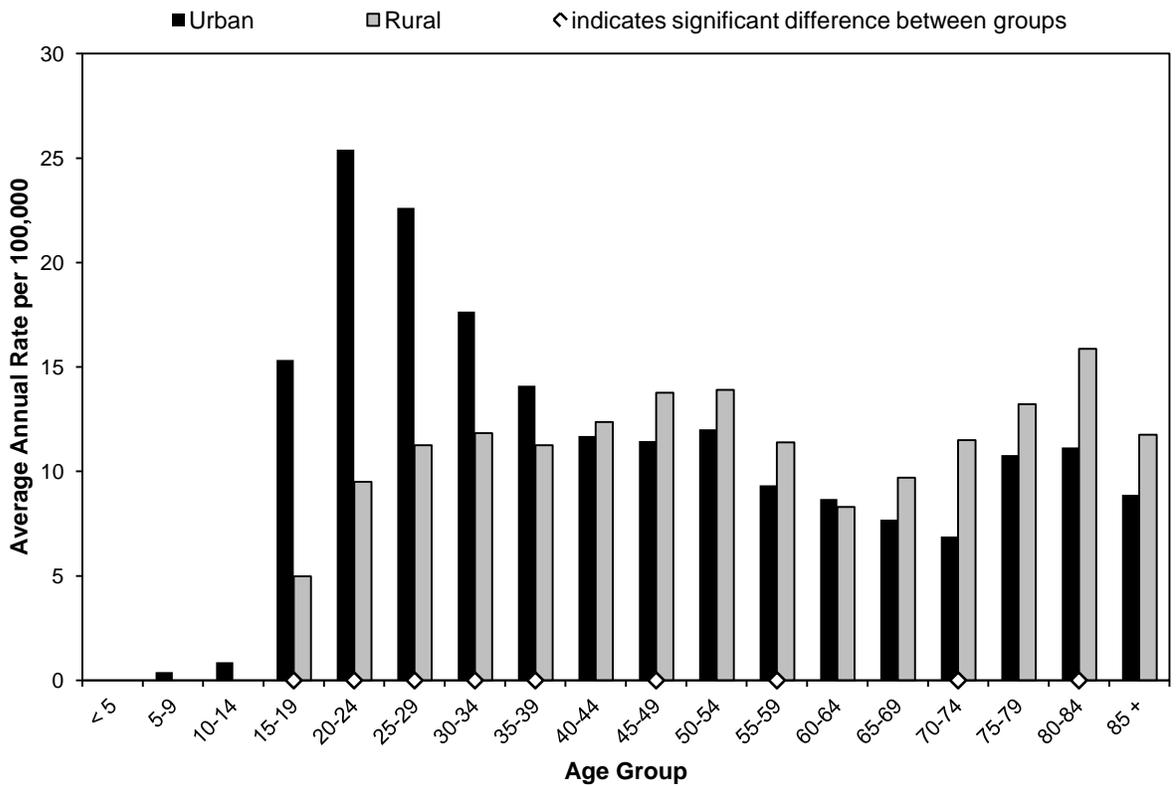
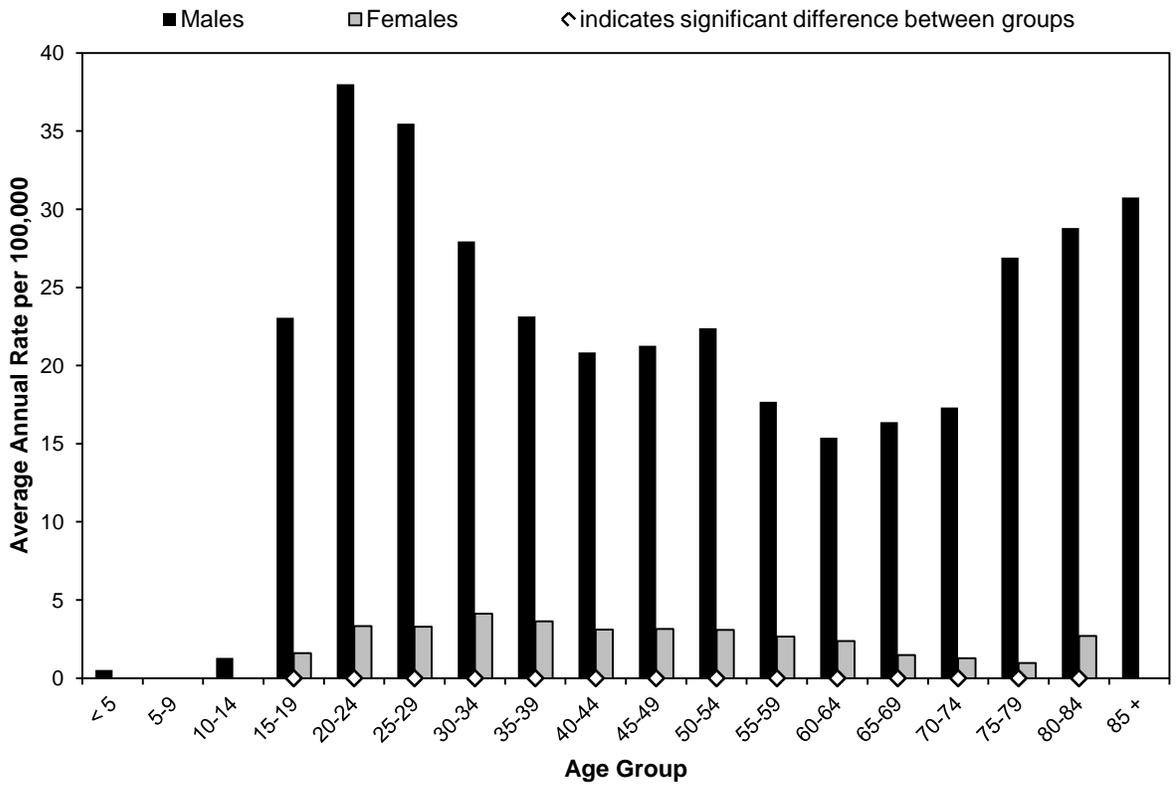
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total.

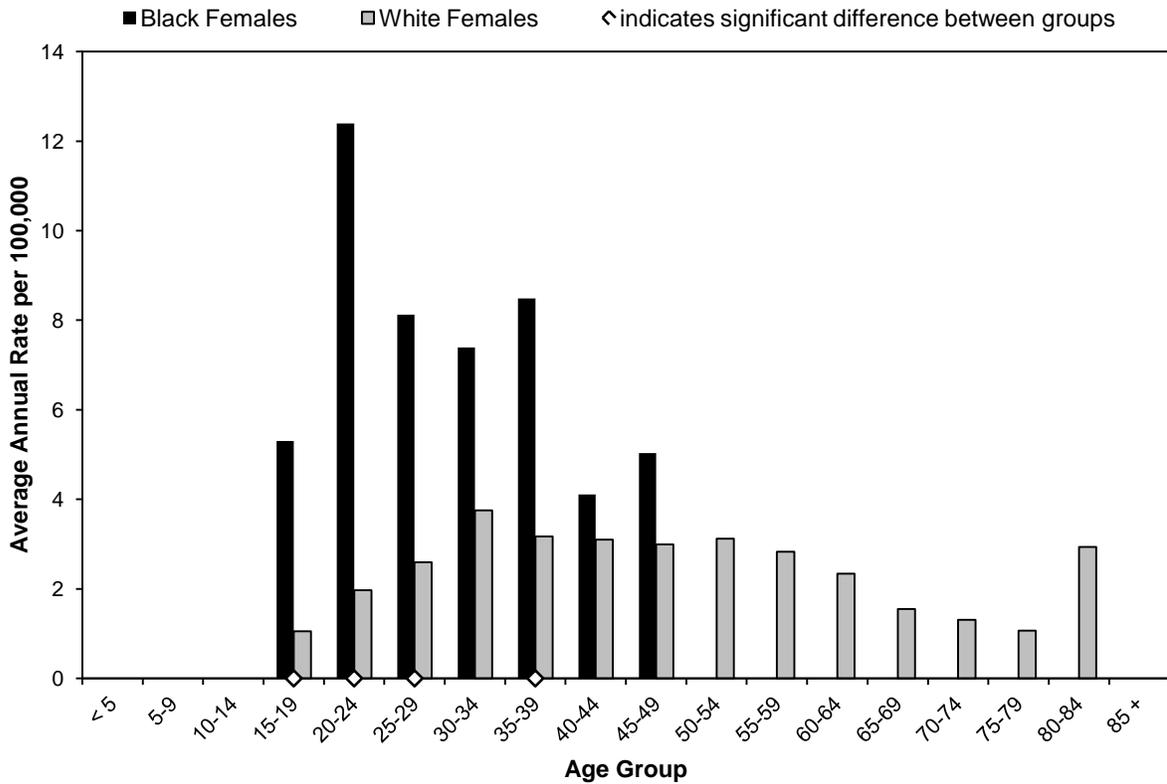
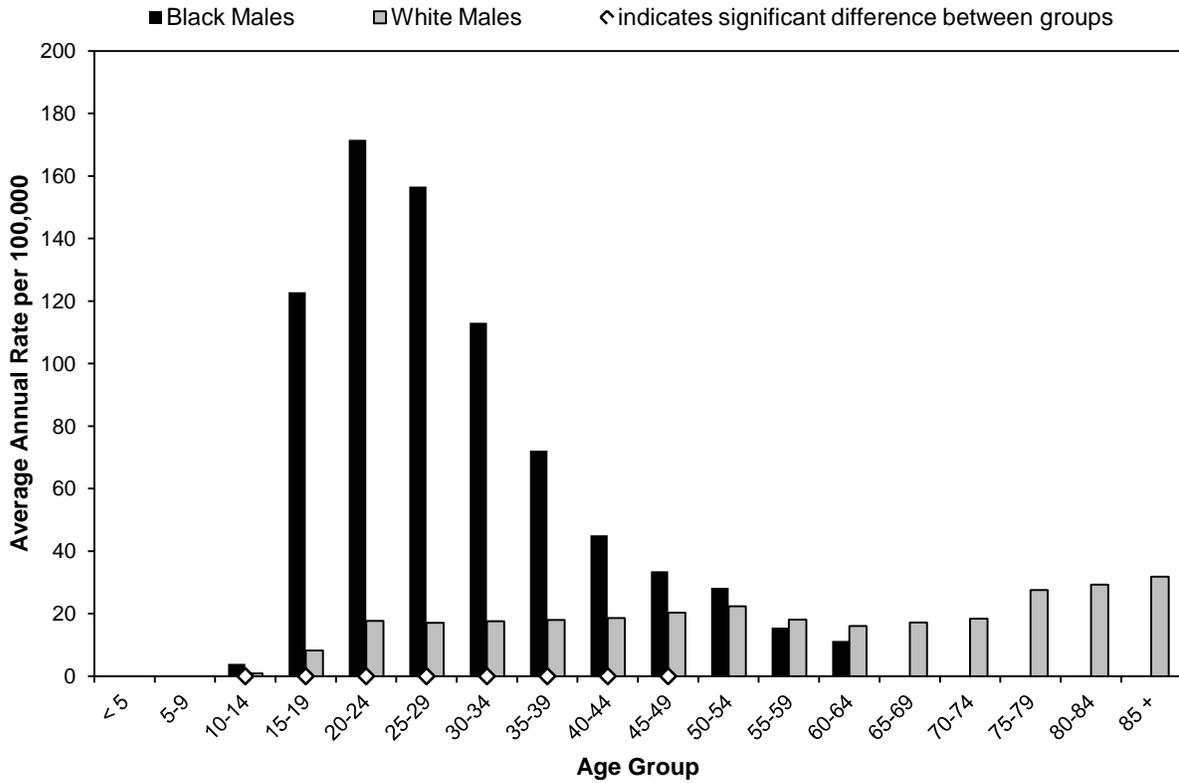
INJURY DEATHS: FIREARM-RELATED

AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2005-2009



INJURY DEATHS: FIREARM-RELATED

AVERAGE ANNUAL DEATH RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2005-2009



INJURY DEATHS: FIREARM-RELATED

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2005-2009

District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
Northeast	708	8.8	8.2-9.5 -	Southeast	3,106	12.5	12.0-12.9 +
Carbon	33	8.8	5.8-11.8	Berks	199	9.9	8.5-11.3
Lackawanna	91	8.1	6.4-9.8 -	Bucks	220	6.7	5.8-7.6 -
Lehigh	138	8.0	6.7-9.3 -	Chester	143	5.8	4.8-6.7 -
Luzerne	171	10.9	9.3-12.5	Delaware	295	10.5	9.3-11.7
Monroe	78	9.1	7.1-11.2	Lancaster	156	6.2	5.3-7.2 -
Northampton	108	7.2	5.9-8.6 -	Montgomery	212	5.3	4.6-6.0 -
Pike	19	NA		Philadelphia	1,808	23.2	22.1-24.3 +
Susquehanna	17	NA		Schuylkill	73	9.4	7.2-11.6
Wayne	39	14.7	10.1-19.3				
Wyoming	14	NA					
North Central	261	7.5	6.6-8.4 -	South Central	714	8.6	8.0-9.2 -
Bradford	35	10.4	7.0-13.9	Adams	32	6.4	4.2-8.7 -
Centre	41	6.3	4.4-8.3 -	Bedford	30	11.9	7.7-16.2
Clinton	13	NA		Blair	64	10.2	7.7-12.7
Columbia	28	9.0	5.7-12.4	Cumberland	84	7.1	5.6-8.6 -
Lycoming	45	7.3	5.2-9.5 -	Dauphin	134	10.5	8.7-12.3
Montour	6	NA		Franklin	54	7.6	5.5-9.6 -
Northumberland	31	6.6	4.3-8.9 -	Fulton	11	NA	
Potter	13	NA		Huntingdon	17	NA	
Snyder	10	NA		Juniata	11	NA	
Sullivan	4	NA		Lebanon	45	6.9	4.9-8.9 -
Tioga	26	12.2	7.5-16.9	Mifflin	20	9.1	5.1-13.1
Union	9	NA		Perry	26	11.6	7.1-16.0
				York	186	8.7	7.4-9.9 -
Northwest	434	8.9	8.0-9.7 -	Southwest	1,455	10.6	10.0-11.1
Cameron	7	NA		Allegheny	747	12.3	11.4-13.1 +
Clarion	24	12.9	7.8-18.1	Armstrong	40	11.6	8.0-15.1
Clearfield	50	10.9	7.8-13.9	Beaver	101	11.5	9.3-13.8
Crawford	49	10.5	7.5-13.4	Butler	74	7.8	6.1-9.6 -
Elk	21	11.1	6.4-15.9	Cambria	66	8.8	6.7-10.9
Erie	94	6.5	5.2-7.8 -	Fayette	54	7.2	5.3-9.1 -
Forest	2	NA		Greene	18	NA	
Jefferson	34	13.8	9.2-18.5	Indiana	53	11.8	8.6-14.9
Lawrence	39	8.5	5.8-11.1	Somerset	45	10.6	7.5-13.7
McKean	21	9.3	5.3-13.2	Washington	96	8.8	7.0-10.5
Mercer	46	7.7	5.5-9.9 -	Westmoreland	161	8.3	7.0-9.6 -
Venango	23	7.4	4.4-10.4				
Warren	24	11.6	7.0-16.3	Pennsylvania	6,678	10.6	10.3-10.8

NOTE: Rates based on less than 20 events are unreliable and were not calculated. See Technical Notes.

+/- denotes that the county's rate is significantly higher or lower than the state at the p=.05 level.

INJURY DEATHS: FIREARM-RELATED

TOTAL NUMBER OF INJURY DEATHS AND AVERAGE ANNUAL DEATH RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2005-2009

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	5,954	724	6,678	637	3.9	2,246	19.0	1,636	12.4	1,227	10.5	930	9.8
Northeast	620	88	708	38	1.9	179	12.5	191	11.6	176	11.7	124	10.0
Carbon	30	3	33	0	NA	6	NA	3	NA	15	23.4	9	NA
Lackawanna	81	10	91	2	NA	20	10.2	22	10.5	24	12.1	23	12.1
Lehigh	123	15	138	11	2.5	46	14.4	29	8.2	34	10.8	18	7.0
Luzerne	146	25	171	7	NA	41	14.3	64	19.6	36	11.9	23	8.0
Monroe	68	10	78	7	NA	18	12.3	23	12.2	22	14.0	8	NA
Northampton	93	15	108	8	NA	31	11.3	23	7.5	22	8.0	24	11.2
Pike	18	1	19	0	NA	2	NA	9	NA	5	NA	3	NA
Susquehanna	14	3	17	2	NA	2	NA	4	NA	5	NA	4	NA
Wayne	34	5	39	0	NA	11	26.2	11	20.8	9	NA	8	NA
Wyoming	13	1	14	1	NA	2	NA	3	NA	4	NA	4	NA
Southeast	2,804	302	3,106	383	5.7	1,283	26.3	713	13.4	453	10.3	272	7.9
Berks	175	24	199	14	2.5	56	15.1	51	11.8	41	11.5	37	13.0
Bucks	190	30	220	11	1.4	41	7.8	61	8.3	65	10.5	42	10.0
Chester	118	25	143	6	NA	37	8.3	43	7.7	38	8.5	19	6.5
Delaware	268	27	295	34	4.5	119	22.4	63	10.7	44	8.7	35	8.8
Lancaster	139	17	156	18	2.5	39	8.2	38	7.5	35	8.0	25	6.9
Montgomery	180	32	212	8	NA	53	7.6	57	6.5	53	7.3	41	7.1
Philadelphia	1,669	139	1,808	288	13.9	918	54.2	379	26.1	161	13.7	61	6.4
Schuylkill	65	8	73	4	NA	20	14.9	21	12.7	16	11.6	12	8.8

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	5,954	724	6,678	637	3.9	2,246	19.0	1,636	12.4	1,227	10.5	930	9.8
North Central	234	27	261	16	1.8	54	7.5	67	10.1	68	11.1	56	10.6
Bradford	32	3	35	2	NA	5	NA	9	NA	11	18.1	8	NA
Centre	38	3	41	2	NA	10	4.6	9	NA	14	13.4	6	NA
Clinton	13	0	13	2	NA	5	NA	2	NA	3	NA	1	NA
Columbia	25	3	28	2	NA	1	NA	11	18.6	6	NA	8	NA
Lycoming	39	6	45	2	NA	10	8.9	13	10.8	12	10.7	8	NA
Montour	6	0	6	0	NA	1	NA	1	NA	2	NA	2	NA
Northumberland	26	5	31	1	NA	12	15.8	6	NA	5	NA	7	NA
Potter	12	1	13	1	NA	3	NA	3	NA	3	NA	3	NA
Snyder	9	1	10	1	NA	2	NA	2	NA	2	NA	3	NA
Sullivan	4	0	4	0	NA	0	NA	1	NA	2	NA	1	NA
Tioga	22	4	26	3	NA	4	NA	7	NA	7	NA	5	NA
Union	8	1	9	0	NA	1	NA	3	NA	1	NA	4	NA
South Central	622	92	714	44	2.1	186	12.3	202	11.6	149	9.6	133	10.9
Adams	28	4	32	2	NA	8	NA	9	NA	4	NA	9	NA
Bedford	25	5	30	0	NA	7	NA	12	22.7	2	NA	9	NA
Blair	55	9	64	3	NA	14	12.3	23	18.0	14	11.4	10	9.1
Cumberland	73	11	84	6	NA	18	7.8	24	10.2	16	7.6	20	11.6
Dauphin	121	13	134	9	NA	49	21.3	29	10.1	28	11.1	19	10.7
Franklin	47	7	54	2	NA	8	NA	20	14.1	13	9.8	11	9.4
Fulton	11	0	11	0	NA	3	NA	3	NA	2	NA	3	NA
Huntingdon	13	4	17	2	NA	2	NA	6	NA	5	NA	2	NA
Juniata	10	1	11	1	NA	2	NA	3	NA	4	NA	1	NA
Lebanon	39	6	45	2	NA	16	12.9	10	7.8	10	8.3	7	NA
Mifflin	17	3	20	3	NA	7	NA	3	NA	5	NA	2	NA
Perry	21	5	26	0	NA	5	NA	13	26.1	3	NA	5	NA
York	162	24	186	14	2.6	47	12.2	47	9.8	43	10.7	35	12.3

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	5,954	724	6,678	637	3.9	2,246	19.0	1,636	12.4	1,227	10.5	930	9.8
Northwest	385	49	434	16	1.3	92	10.8	110	11.5	111	12.5	105	13.6
Cameron	6	1	7	0	NA	0	NA	4	NA	2	NA	1	NA
Clarion	21	3	24	0	NA	5	NA	10	26.6	6	NA	3	NA
Clearfield	46	4	50	1	NA	8	NA	11	11.9	12	14.8	18	24.9
Crawford	45	4	49	3	NA	8	NA	13	14.8	13	14.9	12	16.8
Elk	20	1	21	0	NA	3	NA	5	NA	7	NA	6	NA
Erie	88	6	94	4	NA	25	8.8	21	7.4	26	10.4	18	8.9
Forest	2	0	2	0	NA	0	NA	0	NA	0	NA	2	NA
Jefferson	30	4	34	0	NA	8	NA	7	NA	7	NA	12	29.3
Lawrence	34	5	39	3	NA	11	14.5	10	10.9	8	NA	7	NA
McKean	19	2	21	1	NA	6	NA	3	NA	4	NA	7	NA
Mercer	38	8	46	2	NA	10	9.9	14	11.9	14	12.5	6	NA
Venango	17	6	23	0	NA	2	NA	7	NA	6	NA	8	NA
Warren	19	5	24	2	NA	6	NA	5	NA	6	NA	5	NA
Southwest	1,289	166	1,455	140	4.3	452	18.7	353	12.4	270	10.1	240	10.2
Allegheny	680	67	747	98	6.6	289	25.9	158	12.3	113	9.5	89	8.5
Armstrong	35	5	40	1	NA	7	NA	19	25.9	5	NA	8	NA
Beaver	87	14	101	6	NA	34	23.5	22	12.0	19	10.7	20	12.5
Butler	64	10	74	6	NA	16	9.9	23	11.4	16	9.2	13	9.8
Cambria	60	6	66	3	NA	18	14.0	16	10.7	16	11.0	13	9.4
Fayette	47	7	54	4	NA	13	10.7	14	9.1	9	NA	14	11.0
Greene	15	3	18	1	NA	6	NA	2	NA	6	NA	3	NA
Indiana	45	8	53	4	NA	12	12.9	12	14.7	14	17.2	11	16.0
Somerset	36	9	45	2	NA	10	14.1	11	13.0	11	14.5	11	15.2
Washington	78	18	96	5	NA	21	11.3	27	12.7	21	10.2	22	12.4
Westmoreland	142	19	161	10	2.4	26	8.6	49	12.6	40	10.6	36	10.8

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY DEATHS: FIREARM-RELATED

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2005-2009

BLACK POPULATION BY COUNTY				WHITE POPULATION BY COUNTY				HISPANIC POPULATION BY COUNTY			
County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)
Allegheny	371	43.9	39.4-48.4 +	Allegheny	371	6.7	6.1-7.4 -	Berks	30	10.4	6.7-14.1
Chester	19	NA		Chester	123	5.5	4.5-6.5 -	Lancaster	18	NA	
Dauphin	47	20.3	14.5-26.1 -	Dauphin	84	7.9	6.2-9.6	Lehigh	26	8.0	4.9-11.1
Delaware	145	25.2	21.1-29.2	Delaware	148	6.5	5.4-7.5 -	Philadelphia	170	19.7	16.8-22.7 +
Montgomery	32	8.8	5.8-11.9 -	Montgomery	178	5.1	4.3-5.8 -				
Philadelphia	1,326	37.4	35.3-39.4 +	Philadelphia	443	12.4	11.2-13.5 +				
Pennsylvania	2,123	29.2	27.9-30.4	Pennsylvania	4,487	8.0	7.8-8.2	Pennsylvania	316	10.8	9.6-12.0

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2005-2009

Select Counties	Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+		
		Male	Female			All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.
County and Race	Cty. Pop.															
Allegheny	Black	13.3%	346	25	371	49.7%	84	30.2	209	122.8	59	38.4	14	11.4	5	NA
	White	83.2%	330	41	371	49.7%	14	1.2	76	8.5	98	9.0	99	9.5	84	8.9
Chester	Black	6.2%	15	4	19	13.3%	2	NA	11	31.2	2	NA	4	NA	0	NA
	White	89.7%	102	21	123	86.0%	4	NA	26	6.7	41	8.2	33	8.0	19	7.0
Dauphin	Black	17.8%	44	3	47	35.1%	6	NA	31	66.0	6	NA	3	NA	1	NA
	White	77.5%	74	10	84	62.7%	3	NA	17	9.9	22	9.7	24	11.4	18	11.6
Delaware	Black	18.1%	136	9	145	49.2%	24	14.4	93	75.2	23	21.7	3	NA	2	NA
	White	76.4%	130	18	148	50.2%	10	1.9	25	6.7	40	9.0	40	9.6	33	9.4
Montgomery	Black	8.7%	28	4	32	15.1%	4	NA	18	23.6	7	NA	2	NA	1	NA
	White	84.6%	150	28	178	84.0%	4	NA	35	6.2	49	6.6	51	8.0	39	7.4
Philadelphia	Black	45.8%	1,238	88	1,326	73.3%	260	23.7	746	101.2	236	35.4	62	12.1	22	6.1
	White	46.9%	395	48	443	24.5%	27	3.3	150	18.7	131	19.2	97	16.4	38	6.7
Pennsylvania	Black	10.7%	1,972	151	2,123	31.8%	415	19.0	1,214	79.5	362	26.8	98	10.2	34	5.4
	White	85.9%	3,922	565	4,487	67.2%	218	1.6	997	10.2	1,255	11.0	1,122	10.8	894	10.2

INJURY DEATHS: ALL UNINTENTIONAL INJURIES

In 2009, among Pennsylvania residents, there were 5,441 deaths due to unintentional injury. On average, one resident died every 97 minutes.

Injury Definition

Unintentional injury is negatively defined to include all events in which there is not a deliberate intent to cause harm to oneself or another person.

Injuries are not coded unintentional if the intent is unknown; these are instead coded “undetermined.”

Leading mechanisms of unintentional injury include motor vehicle accidents, poisoning and falls. These three mechanisms account for over 75 percent of all unintentional injury deaths in PA.

HIGHLIGHTS

- *Age-adjusted rates have generally been **stable** over 2005 to 2009.*
- *Most common demographic is **white males**, ages 20 to 54.*
- *Of all Pennsylvania counties, **Wyoming** and **Cambria** show the highest rates.*

Trends Over Time

- The age-adjusted injury death rate increased from 2005 to 2008, from 39.8 to 41.9 deaths per 100,000 population. Rates then decreased to 39.1 deaths per 100,000 population in 2009.
- Males showed significantly higher age-adjusted death rates than females over 2005 to 2009 (rates were 53.5 and 25.9, respectively, in 2009).
- Rural males and females showed significantly higher age-adjusted death rates than urban males and females over 2005 to 2009.

Demographic Trends

- Males showed significantly higher death rates for unintentional injury for all groups.
- Black males and females showed significantly higher death rates than white males and females for ages less than 10 and ages 45 to 59.
- White males and females showed significantly higher death rates than black males and females for ages 15 to 29 and ages 85 and older.
- Rural populations showed higher death rates than urban populations for all age groups. Rural rates were significantly higher for ages less than 45 and ages 60 to 84.

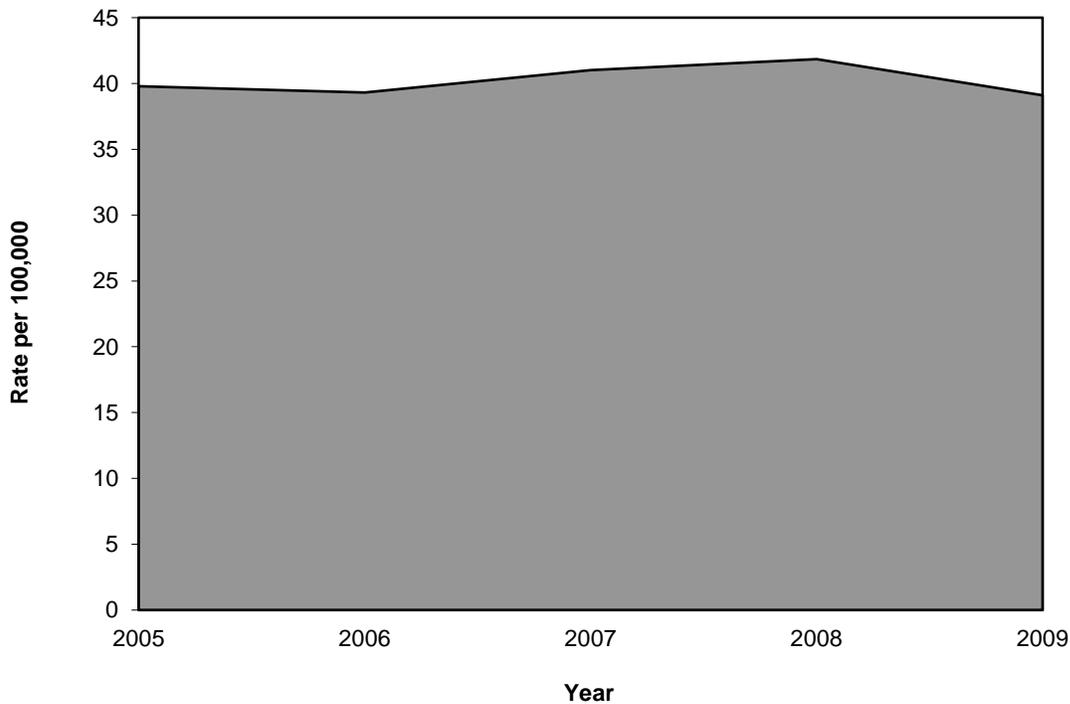
Regional Trends

- The Southwest Health District generally showed the highest age-specific death rates for unintentional injury, while the Southeast Health District showed the lowest rates.
- Twenty-two counties showed age-adjusted death rates for 2005 to 2009 that were significantly higher than the comparable state rate. Most counties were rural.

INJURY DEATHS: ALL UNINTENTIONAL

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES PENNSYLVANIA RESIDENTS, 2005-2009

Year	No.	Rate
2005	5,314	39.8
2006	5,143	39.3
2007	5,458	41.0
2008	5,669	41.9
2009	5,441	39.1



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2005-2009

Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2005	43.2	40.8	39.1	38.2	40.7	41.8
2006	39.5	38.3	40.3	39.3	39.1	39.3
2007	47.3	36.2	43.6	39.5	41.3	41.9
2008	46.0	39.3	45.2	38.3	42.0	45.4
2009	41.6	36.8	38.5	37.0	38.4	43.6

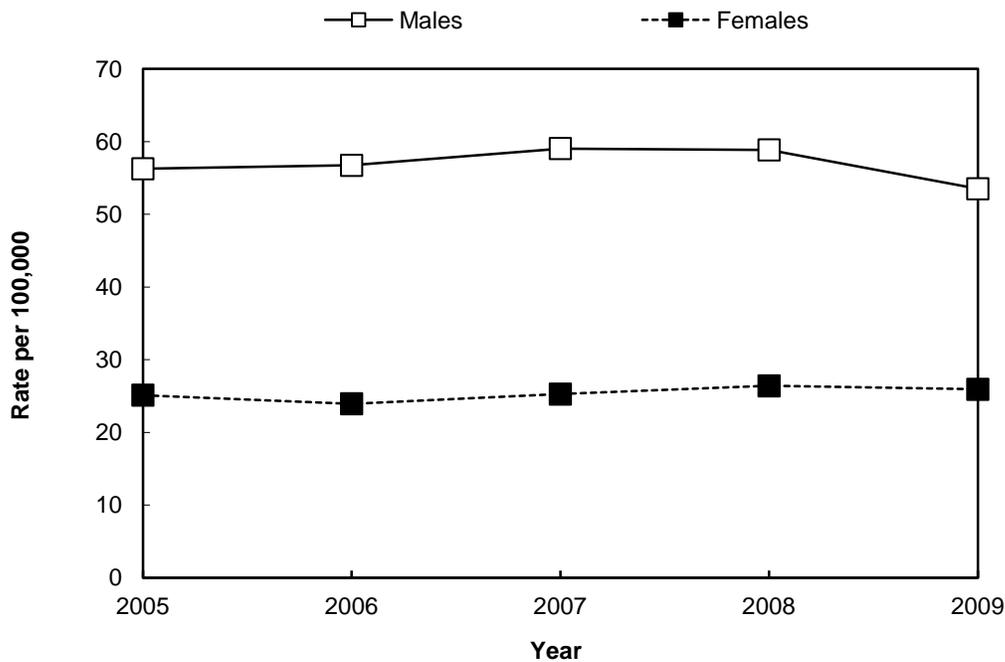
NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2005-2009 based on ICD-10 codes. See Technical Notes.

INJURY DEATHS: ALL UNINTENTIONAL

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX PENNSYLVANIA RESIDENTS, 2005-2009

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2005	3,377	56.3 *	2005	1,937	25.1
2006	3,306	56.7 *	2006	1,837	23.9
2007	3,516	59.1 *	2007	1,942	25.3
2008	3,592	58.9 *	2008	2,077	26.4
2009	3,340	53.5 *	2009	2,101	25.9

** denotes a statistically significant difference between groups at level of $p = .05$*



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2005-2009

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2005	52.8	64.9 *	2005	23.5	29.6 *
2006	55.2	60.5	2006	22.0	29.2 *
2007	57.3	63.6 *	2007	24.0	28.6 *
2008	56.5	65.1 *	2008	25.3	29.3 *
2009	51.2	59.5 *	2009	24.4	30.4 *

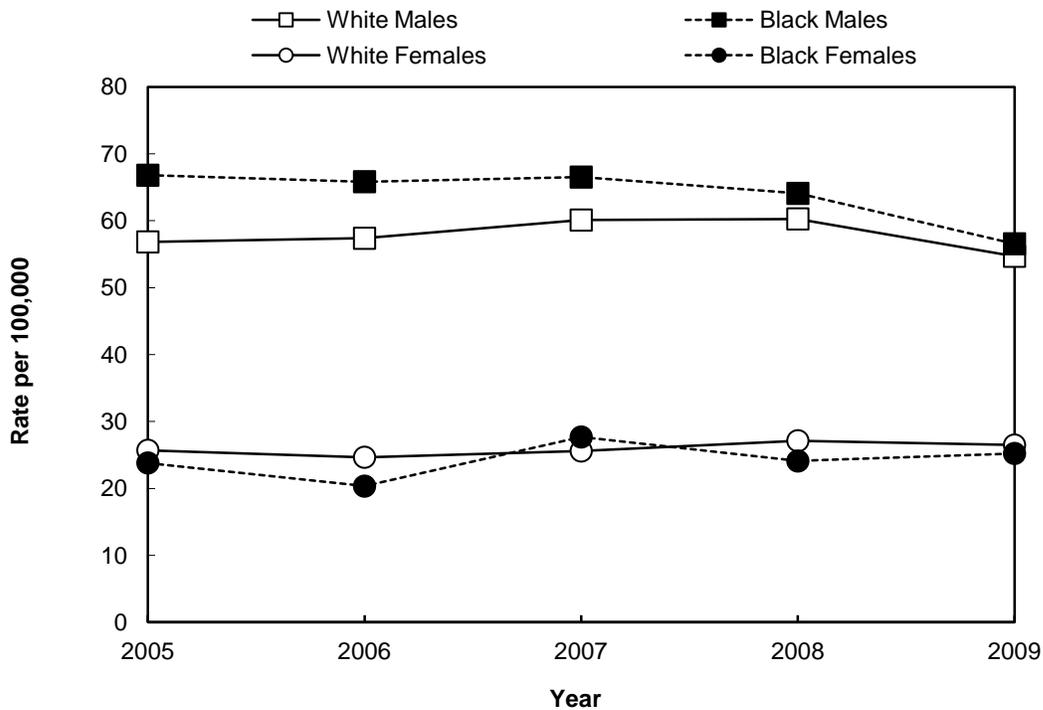
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY DEATHS: ALL UNINTENTIONAL

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX AND RACE OR ETHNICITY PENNSYLVANIA RESIDENTS, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	2,995	353	1,766	156	90	30
2006	2,918	349	1,680	135	136	30
2007	3,128	362	1,739	188	122	27
2008	3,205	356	1,891	166	127	28
2009	2,976	323	1,910	176	76	27



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	56.8	66.8 *	25.7	23.8	39.5	15.8
2006	57.4	65.8	24.7	20.3	56.1	16.0
2007	60.1	66.5	25.6	27.7	55.1	9.5
2008	60.3	64.1	27.1	24.1	51.2	12.4
2009	54.7	56.6	26.5	25.2	29.1	10.7

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Hispanics may be of any race. Hispanic numbers include whites, blacks and others of Hispanic ethnicity. Therefore, Hispanics must not be compared to whites or blacks, as the groups are not mutually exclusive.

INJURY DEATHS: ALL UNINTENTIONAL

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2005-2009

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	27,025	43.3	17,131	56.6	9,894	30.8	18,579	41.1	8,446	49.2
< 5	381	10.4	227	12.1	154	8.6	252	9.2	129	13.9
5-9	151	4.0	102	5.2	49	2.6	98	3.5	53	5.3
10-14	185	4.6	130	6.3	55	2.8	101	3.4	84	7.8
15-19	1,168	25.2	818	35.0	350	15.2	710	21.3	458	35.1
20-24	2,024	46.1	1,578	70.8	446	20.6	1,362	43.2	662	53.3
25-29	1,750	47.8	1,369	73.1	381	21.3	1,182	43.3	568	60.9
30-34	1,365	36.4	1,016	53.9	349	18.7	919	33.4	446	44.7
35-39	1,594	38.9	1,130	55.5	464	22.5	1,089	36.3	505	46.2
40-44	1,993	44.6	1,386	62.6	607	26.9	1,417	43.4	576	47.8
45-49	2,277	49.2	1,582	69.4	695	29.7	1,638	48.7	639	50.6
50-54	1,836	41.5	1,340	61.8	496	22.0	1,325	41.5	511	41.6
55-59	1,392	35.3	986	51.7	406	20.0	992	35.2	400	35.6
60-64	963	29.4	674	43.2	289	16.8	631	27.3	332	34.4
65-69	887	33.7	560	46.5	327	22.9	588	32.0	299	37.7
70-74	1,044	46.7	620	63.5	424	33.6	680	43.4	364	54.3
75-79	1,562	82.4	847	110.1	715	63.5	1,065	79.8	497	88.8
80-84	2,236	157.2	1,135	212.2	1,101	124.0	1,543	152.3	693	169.1
85 +	4,211	311.6	1,625	403.0	2,586	272.7	2,985	308.2	1,226	320.3

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY DEATHS: ALL UNINTENTIONAL

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2005-2009

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
TOTAL	15,222	58.5	1,743	55.1	8,986	32.7	821	23.5	693	24.5		
< 5	162	10.6	61	23.7	*	112	7.7	38	15.2	*	31	9.7
5-9	75	4.7	27	10.3	*	35	2.3	14	5.5	*	11	3.8
10-14	105	6.2	22	7.8		44	2.7	10	3.7		12	4.4
15-19	740	38.4	68	22.0	*	332	17.4	14	4.6	*	34	12.1
20-24	1,442	78.4	111	37.7	*	408	22.9	34	11.7	*	75	30.3
25-29	1,254	81.3	97	39.0	*	335	22.9	38	15.4	*	89	38.9
30-34	901	57.0	104	47.6		301	19.5	43	18.7		68	31.8
35-39	982	56.5	136	63.7		405	23.3	51	21.6		91	43.0
40-44	1,218	63.4	152	70.6		525	27.1	76	31.2		79	41.5
45-49	1,376	68.4	198	96.4	*	591	29.0	101	42.3	*	61	36.6
50-54	1,104	57.0	226	127.8	*	431	21.7	61	28.5		39	32.2
55-59	814	47.3	165	116.9	*	344	19.1	58	32.3	*	28	29.5
60-64	569	40.1	100	94.1	*	250	16.3	34	23.9		19	29.3
65-69	495	44.8	58	76.4	*	288	22.3	33	30.6		9	NA
70-74	554	61.6	58	96.1	*	387	33.7	34	36.1		11	35.0
75-79	787	110.1	52	118.4		664	64.1	42	54.5		14	61.4
80-84	1,074	215.7	54	178.5		1,051	128.4	44	73.9	*	6	NA
85 +	1,565	419.1	53	217.0	*	2,483	283.5	96	156.0	*	16	108.0

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Hispanics may be of any race; therefore, their rates must not be compared to whites or blacks.

INJURY DEATHS: ALL UNINTENTIONAL

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2005-2009

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	2,202	47.4	1,404	41.3	3,465	44.4	10,011	40.4	3,459	42.6	6,484	47.8
< 5	41	16.0 +	19	10.8	45	10.4	139	8.7 -	61	12.4	76	10.6
5-9	19	6.9 +	13	7.2 +	26	5.7	50	3.1	20	4.0	23	3.0
10-14	18	6.0	18	9.2 +	24	4.8	54	3.2 -	33	6.2	38	4.6
15-19	101	28.5	86	27.0	177	30.6 +	391	21.1 -	196	34.1 +	217	22.7
20-24	160	50.3	121	34.0 -	283	52.7 +	755	42.8 -	281	53.1 +	424	47.6
25-29	139	53.2	81	46.6	241	54.7 +	646	41.4 -	229	47.4	414	55.4 +
30-34	110	40.4	76	39.6	163	35.9	531	34.1	169	34.0	316	40.6
35-39	118	40.6	67	32.5	211	41.6	602	35.7 -	204	37.5	392	45.6 +
40-44	143	44.5	88	39.1	250	44.9	849	46.9	207	34.9 -	456	47.3
45-49	190	55.7	85	36.3 -	292	50.5	922	50.4	230	37.7 -	558	54.0 +
50-54	174	52.6 +	63	27.6 -	219	39.1	728	42.6	206	35.3 -	446	44.0
55-59	94	31.4	78	37.6	162	31.8	544	36.6	154	29.1 -	360	39.6 +
60-64	83	32.4	65	36.6	117	26.5	334	27.7	118	26.9	246	32.5
65-69	87	41.2	44	29.2	126	35.7	321	33.9	110	30.9	199	32.6
70-74	86	47.0	56	44.2	128	43.5	365	45.6	162	55.2 +	247	45.8
75-79	129	82.9	111	106.6 +	188	76.9	506	75.0 -	213	88.7	415	87.3
80-84	189	163.8	114	148.6	274	151.9	767	150.4	311	180.9 +	581	157.7
85 +	320	301.6	219	310.6	537	315.5	1,506	305.0	553	352.3 +	1,076	304.1

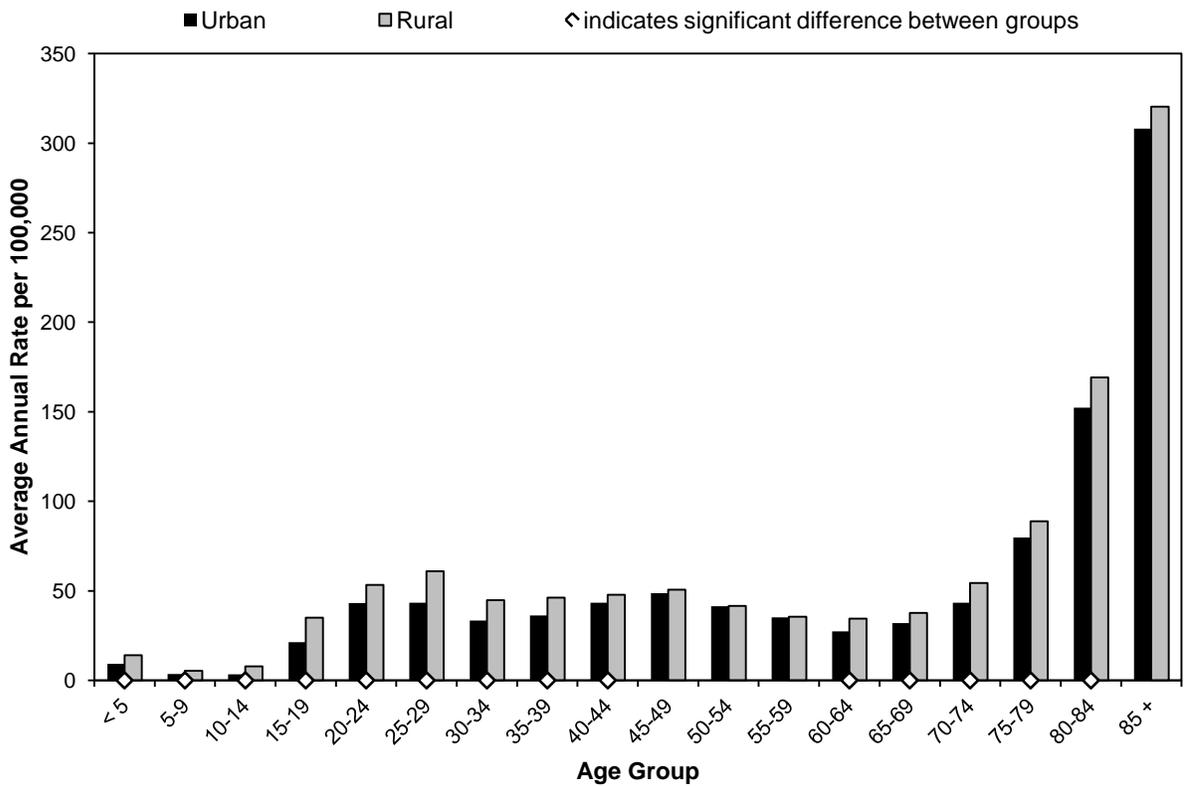
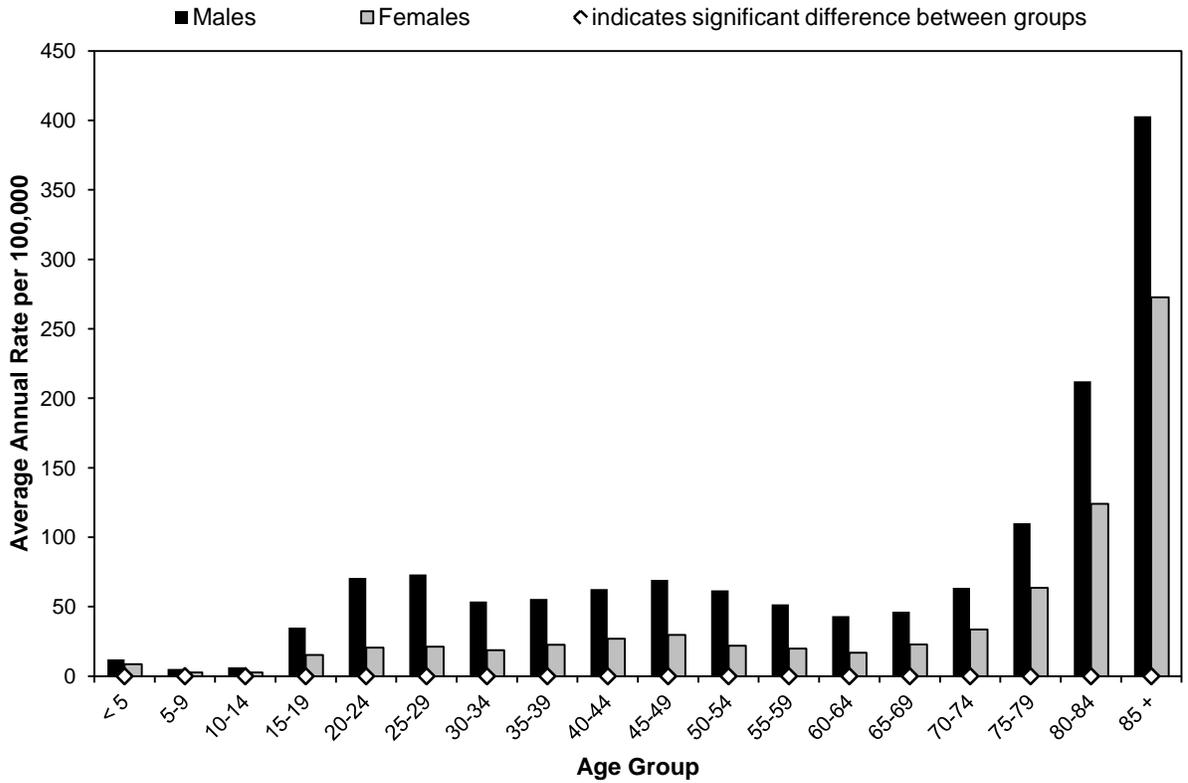
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total.

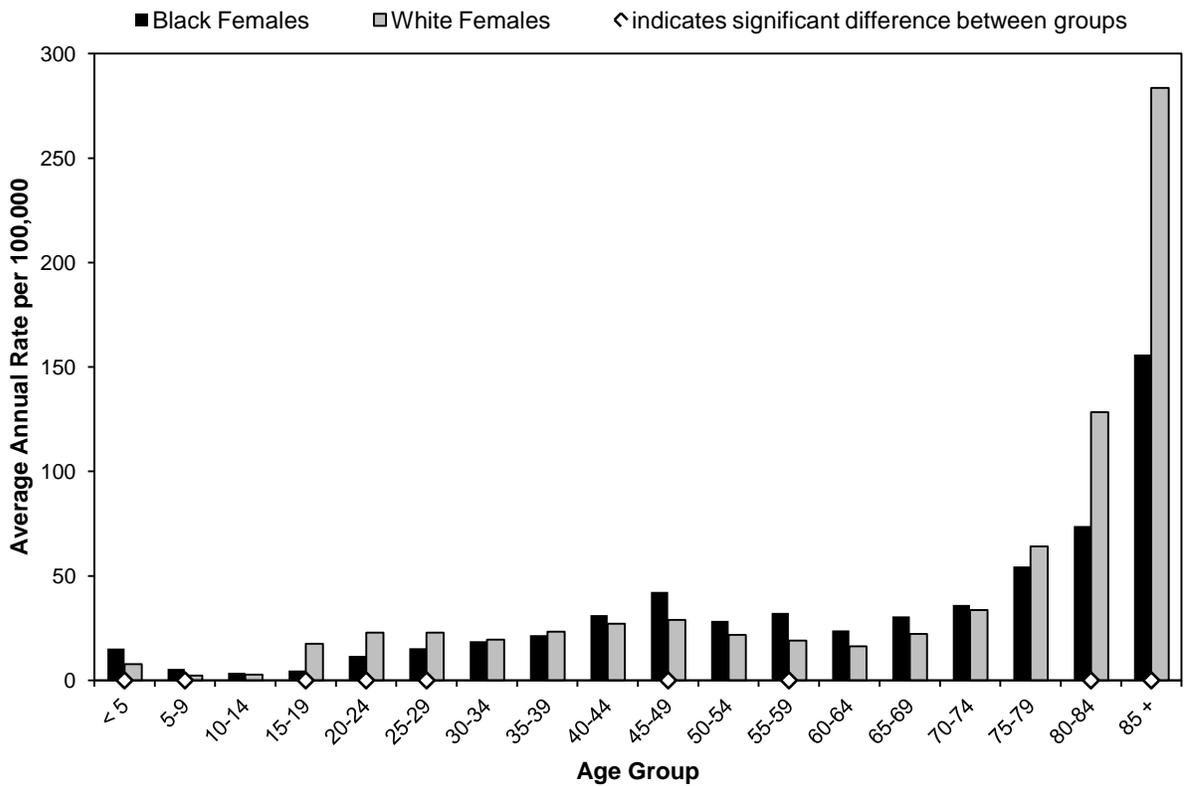
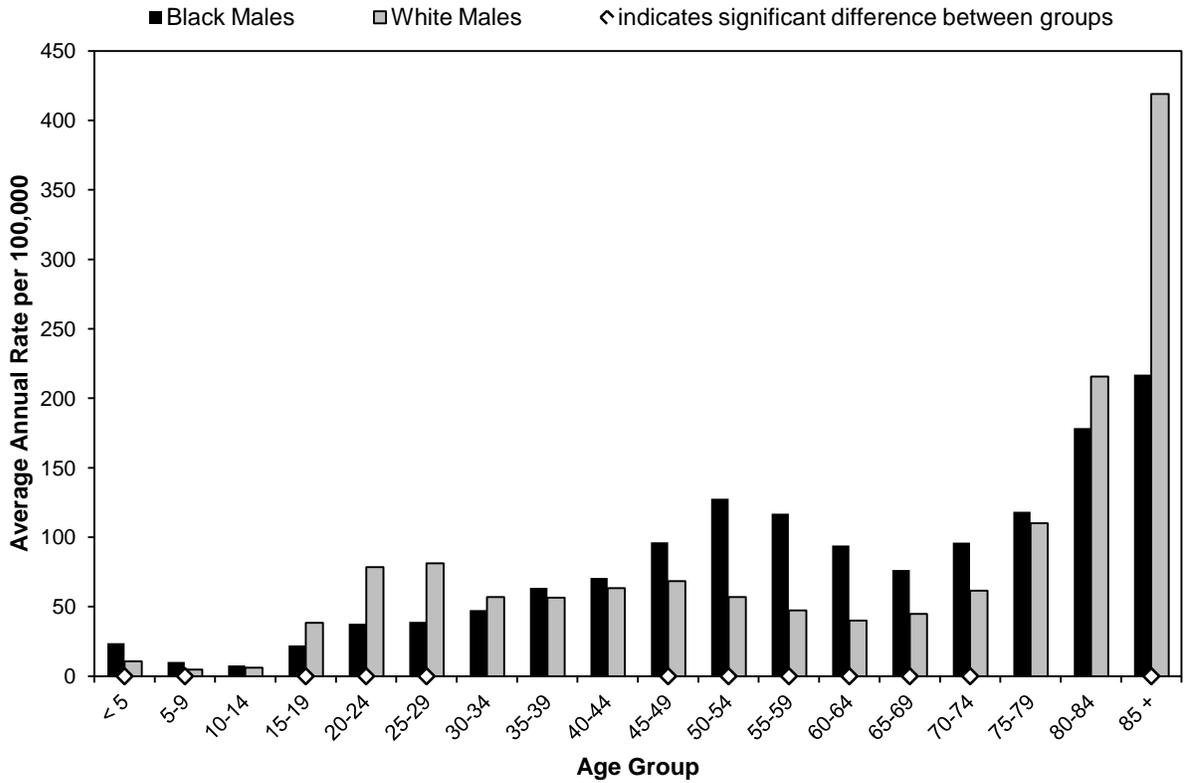
INJURY DEATHS: ALL UNINTENTIONAL

AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS PENNSYLVANIA RESIDENTS, 2005-2009



INJURY DEATHS: ALL UNINTENTIONAL

AVERAGE ANNUAL DEATH RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2005-2009



INJURY DEATHS: ALL UNINTENTIONAL

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2005-2009

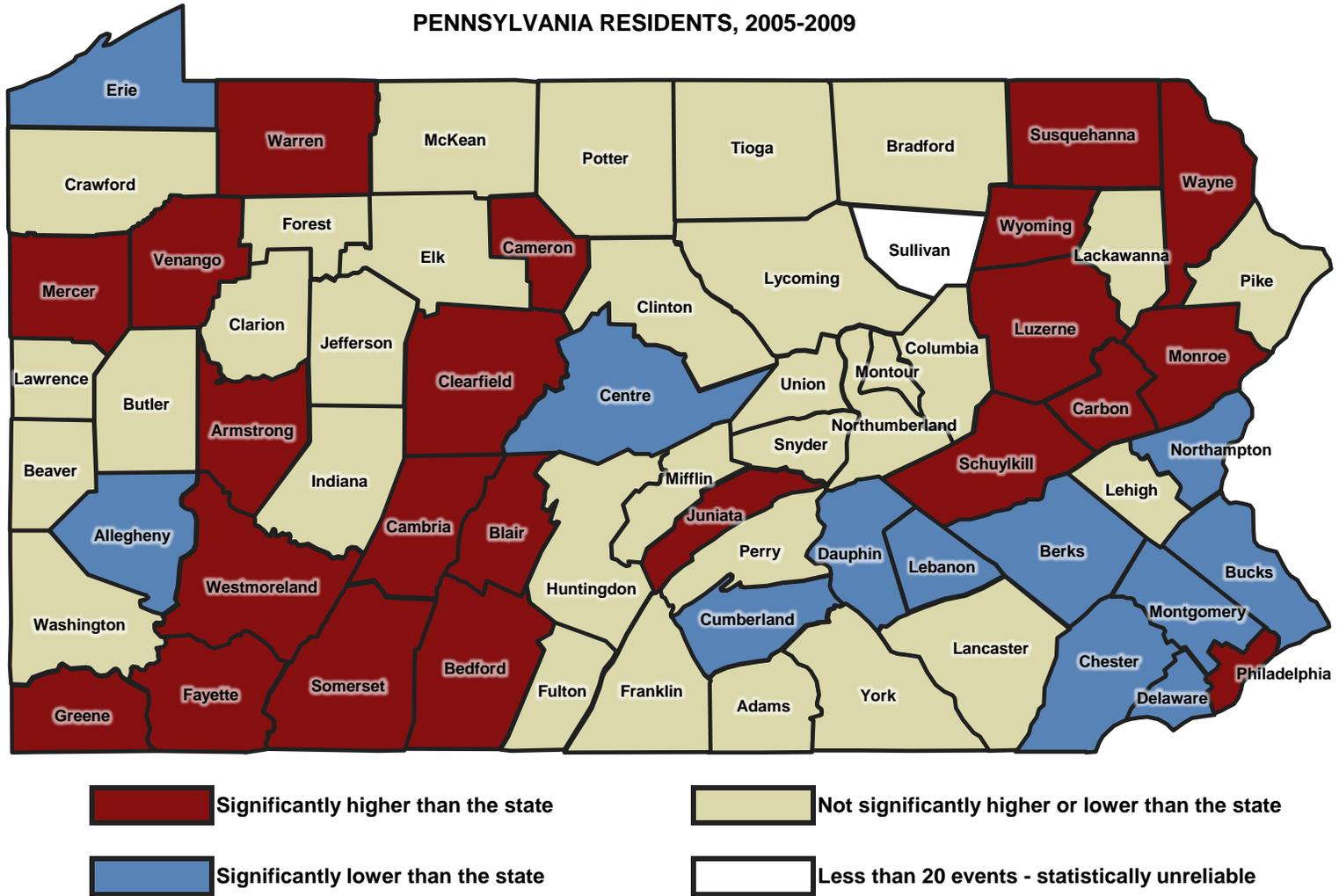
District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
Northeast	3,465	41.3	39.9-42.6	Southeast	10,011	38.4	37.7-39.2 -
Carbon	176	51.2	43.6-58.7 +	Berks	694	32.7	30.3-35.1 -
Lackawanna	490	42.6	38.8-46.3	Bucks	1,099	35.6	33.5-37.7 -
Lehigh	719	39.1	36.2-42.0	Chester	715	30.0	27.8-32.3 -
Luzerne	759	44.3	41.2-47.5 +	Delaware	1,129	37.4	35.2-39.6 -
Monroe	388	48.0	43.3-52.8 +	Lancaster	969	37.5	35.1-39.8
Northampton	485	30.2	27.5-32.9 -	Montgomery	1,436	34.0	32.2-35.8 -
Pike	111	38.4	31.3-45.5	Philadelphia	3,543	47.9	46.3-49.5 +
Susquehanna	110	50.7	41.2-60.2 +	Schuylkill	426	51.8	46.9-56.7 +
Wayne	145	57.0	47.8-66.3 +				
Wyoming	82	59.9	46.9-72.9 +				
North Central	1,404	38.1	36.1-40.1	South Central	3,459	40.2	38.9-41.6
Bradford	127	40.1	33.1-47.0	Adams	212	40.7	35.2-46.1
Centre	204	32.3	27.9-36.8 -	Bedford	142	55.9	46.7-65.1 +
Clinton	92	46.3	36.8-55.8	Blair	368	52.9	47.5-58.3 +
Columbia	145	41.8	35.0-48.6	Cumberland	374	29.9	26.9-33.0 -
Lycoming	247	37.1	32.5-41.7	Dauphin	480	36.0	32.8-39.2 -
Montour	43	48.0	33.6-62.3	Franklin	305	39.4	35.0-43.9
Northumberland	238	46.6	40.7-52.5	Fulton	44	55.9	39.4-72.4
Potter	45	50.8	36.0-65.7	Huntingdon	117	49.0	40.1-57.9
Snyder	83	41.5	32.6-50.4	Juniata	69	57.0	43.6-70.5 +
Sullivan	11	NA		Lebanon	230	32.7	28.4-36.9 -
Tioga	84	37.3	29.3-45.3	Mifflin	120	47.8	39.3-56.4
Union	85	37.1	29.2-44.9	Perry	107	49.2	39.9-58.5
				York	891	41.3	38.6-44.0
Northwest	2,202	43.5	41.7-45.3 +	Southwest	6,484	42.4	41.4-43.4 +
Cameron	21	71.8	41.1-102.6 +	Allegheny	2,649	37.9	36.4-39.3 -
Clarion	97	45.0	36.0-53.9	Armstrong	180	47.8	40.8-54.8 +
Clearfield	240	53.6	46.8-60.4 +	Beaver	409	41.7	37.7-45.7
Crawford	222	46.5	40.4-52.7	Butler	360	37.5	33.6-41.4
Elk	81	45.7	35.7-55.6	Cambria	465	56.9	51.7-62.0 +
Erie	533	35.8	32.7-38.8 -	Fayette	415	53.5	48.4-58.7 +
Forest	20	58.1	32.6-83.5	Greene	117	55.4	45.4-65.4 +
Jefferson	115	48.8	39.9-57.7	Indiana	221	46.1	40.0-52.2
Lawrence	205	39.3	33.9-44.7	Somerset	231	50.5	44.0-57.0 +
McKean	99	41.9	33.6-50.1	Washington	462	40.6	36.9-44.3
Mercer	308	47.7	42.4-53.1 +	Westmoreland	975	47.9	44.9-50.9 +
Venango	146	50.0	41.9-58.2 +				
Warren	115	52.8	43.1-62.4 +	Pennsylvania	27,025	40.2	39.7-40.7

NOTE: Rates based on less than 20 events are unreliable and were not calculated. See Technical Notes.

+/- denotes that the county's rate is significantly higher or lower than the state at the p=.05 level.

INJURY DEATHS: ALL UNINTENTIONAL

AGE-ADJUSTED DEATH RATES BY COUNTY,
WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE
PENNSYLVANIA RESIDENTS, 2005-2009



NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. See Technical Notes.

INJURY DEATHS: ALL UNINTENTIONAL

TOTAL NUMBER OF INJURY DEATHS AND AVERAGE ANNUAL DEATH RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2005-2009

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	17,131	9,894	27,025	1,885	11.7	5,139	43.5	5,864	44.5	4,191	36.0	9,940	104.2
Northeast	2,186	1,279	3,465	272	13.8	687	48.0	753	45.9	498	33.0	1,253	100.8
Carbon	116	60	176	8	NA	33	54.3	41	61.6	35	54.6	57	105.5
Lackawanna	316	174	490	31	12.3	113	57.7	104	49.6	73	36.9	169	88.8
Lehigh	427	292	719	46	10.4	107	33.5	129	36.5	84	26.6	353	138.2
Luzerne	482	277	759	48	13.4	173	60.3	185	56.5	111	36.7	242	84.1
Monroe	242	146	388	56	23.8	78	53.2	103	54.6	58	36.8	93	96.1
Northampton	303	182	485	35	8.8	70	25.4	91	29.7	68	24.9	221	102.9
Pike	69	42	111	12	17.0	25	53.7	26	39.0	26	39.1	22	51.0
Susquehanna	83	27	110	7	NA	30	86.4	23	54.6	16	34.8	34	101.5
Wayne	91	54	145	20	35.4	33	78.7	35	66.0	14	24.0	43	92.8
Wyoming	57	25	82	9	NA	25	106.1	16	55.5	13	46.6	19	92.9
Southeast	6,451	3,560	10,011	634	9.4	1,932	39.6	2,373	44.6	1,606	36.5	3,465	101.1
Berks	452	242	694	43	7.6	128	34.4	129	29.9	95	26.6	299	105.1
Bucks	692	407	1,099	68	8.4	235	44.7	249	33.8	145	23.5	402	95.6
Chester	451	264	715	59	8.6	163	36.6	134	24.0	109	24.4	250	85.0
Delaware	704	425	1,129	53	7.0	198	37.3	238	40.4	177	35.0	463	116.0
Lancaster	618	351	969	98	13.7	180	37.8	203	39.9	123	28.3	365	101.4
Montgomery	860	576	1,436	75	7.5	234	33.5	278	31.5	153	21.1	696	121.1
Philadelphia	2,405	1,138	3,543	202	9.7	714	42.1	1,043	71.9	745	63.4	838	87.5
Schuylkill	269	157	426	36	22.3	80	59.4	99	59.7	59	42.7	152	111.6

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	17,131	9,894	27,025	1,885	11.7	5,139	43.5	5,864	44.5	4,191	36.0	9,940	104.2
North Central	885	519	1,404	136	15.6	278	38.5	240	36.1	206	33.6	544	102.9
Bradford	85	42	127	15	18.9	31	59.3	26	40.2	16	26.4	39	75.6
Centre	126	78	204	16	8.3	45	20.7	38	30.7	34	32.4	71	89.6
Clinton	59	33	92	3	NA	23	63.8	18	51.9	16	47.8	32	102.7
Columbia	95	50	145	12	14.0	28	40.5	24	40.5	23	39.6	58	110.3
Lycoming	138	109	247	22	15.2	39	34.6	37	30.7	40	35.6	109	113.4
Montour	29	14	43	6	NA	10	71.3	9	NA	6	NA	12	74.6
Northumberland	154	84	238	21	19.7	44	57.9	44	45.2	36	39.1	93	108.4
Potter	31	14	45	6	NA	16	116.8	4	NA	3	NA	16	104.3
Snyder	50	33	83	13	25.1	10	25.0	15	39.6	7	NA	38	140.1
Sullivan	6	5	11	0	NA	1	NA	1	NA	4	NA	5	NA
Tioga	51	33	84	14	24.6	11	31.0	12	31.9	13	33.0	34	95.8
Union	61	24	85	8	NA	20	39.0	12	24.7	8	NA	37	121.0
South Central	2,168	1,291	3,459	310	14.8	679	45.0	641	36.7	478	30.8	1,349	110.7
Adams	148	64	212	24	17.6	49	51.9	42	38.5	33	35.1	64	90.0
Bedford	86	56	142	18	29.3	30	71.1	28	53.0	20	40.7	46	106.1
Blair	230	138	368	19	12.2	71	62.6	74	58.0	43	34.9	161	147.0
Cumberland	245	129	374	33	11.3	82	35.7	68	28.9	52	24.8	138	79.9
Dauphin	297	183	480	41	12.4	102	44.3	88	30.6	83	32.8	166	93.8
Franklin	193	112	305	30	16.0	55	42.3	46	32.5	40	30.2	133	114.2
Fulton	29	15	44	4	NA	10	73.7	8	NA	4	NA	18	151.0
Huntingdon	64	53	117	17	32.2	27	58.2	19	38.3	12	27.5	42	118.1
Juniata	50	19	69	9	NA	12	59.4	15	62.7	9	NA	24	124.6
Lebanon	135	95	230	23	14.3	40	32.3	36	28.0	33	27.4	98	92.7
Mifflin	78	42	120	13	21.4	22	56.6	18	38.6	14	32.2	53	128.0
Perry	76	31	107	8	NA	21	51.9	39	78.3	7	NA	32	111.7
York	537	354	891	71	13.0	158	40.9	160	33.4	128	31.9	374	130.9

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	17,131	9,894	27,025	1,885	11.7	5,139	43.5	5,864	44.5	4,191	36.0	9,940	104.2
Northwest	1,388	814	2,202	179	15.1	409	48.0	451	47.3	351	39.6	811	105.2
Cameron	15	6	21	3	NA	2	NA	6	NA	1	NA	9	NA
Clarion	70	27	97	9	NA	24	61.3	19	50.5	12	32.3	33	98.7
Clearfield	153	87	240	22	24.1	54	72.1	47	51.0	37	45.5	80	110.7
Crawford	143	79	222	19	16.0	42	53.0	41	46.6	37	42.4	83	116.4
Elk	59	22	81	4	NA	20	78.6	16	43.7	14	43.6	27	89.7
Erie	337	196	533	37	9.8	88	30.9	116	40.7	90	35.9	202	100.4
Forest	10	10	20	2	NA	1	NA	4	NA	3	NA	10	178.5
Jefferson	65	50	115	21	38.0	20	50.8	23	49.7	15	33.7	36	87.9
Lawrence	115	90	205	11	9.6	30	39.5	44	47.7	40	45.4	79	93.1
McKean	65	34	99	3	NA	17	42.8	26	54.8	19	47.5	34	91.9
Mercer	180	128	308	23	15.1	59	58.5	60	51.1	48	42.8	118	112.8
Venango	97	49	146	13	18.9	35	77.2	22	39.1	22	38.6	54	113.5
Warren	79	36	115	12	24.1	17	51.8	27	62.9	13	29.8	46	124.5
Southwest	4,053	2,431	6,484	354	10.8	1,154	47.7	1,406	49.2	1,052	39.2	2,518	107.3
Allegheny	1,659	990	2,649	116	7.8	424	38.0	596	46.5	478	40.4	1,035	99.2
Armstrong	110	70	180	11	12.9	32	59.6	39	53.2	19	27.1	79	124.2
Beaver	247	162	409	29	14.2	77	53.2	76	41.3	61	34.3	166	104.1
Butler	210	150	360	24	9.8	78	48.1	67	33.2	54	31.2	137	103.4
Cambria	307	158	465	31	18.5	88	68.6	114	76.2	67	46.0	165	119.9
Fayette	264	151	415	26	15.2	87	71.4	100	65.2	65	43.4	137	107.8
Greene	67	50	117	13	28.7	31	78.6	21	48.7	19	46.9	33	110.4
Indiana	152	69	221	8	NA	37	39.9	39	47.9	44	54.2	93	135.0
Somerset	151	80	231	17	19.8	39	54.8	34	40.2	34	44.7	107	147.9
Washington	289	173	462	26	10.4	84	45.3	99	46.6	71	34.4	182	102.2
Westmoreland	597	378	975	53	12.7	177	58.6	221	56.9	140	37.1	384	114.7

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY DEATHS: ALL UNINTENTIONAL

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2005-2009

BLACK POPULATION BY COUNTY				WHITE POPULATION BY COUNTY				HISPANIC POPULATION BY COUNTY			
County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)
Allegheny	364	47.8	42.9-52.8	Allegheny	2,271	37.5	35.9-39.0 -	Berks	53	24.2	17.7-30.8
Chester	57	39.1	28.9-49.2	Chester	651	30.4	28.1-32.8 -	Lancaster	45	29.9	21.2-38.6
Dauphin	76	36.1	28.0-44.3	Dauphin	401	37.2	33.6-40.9	Lehigh	59	33.7	25.1-42.3
Delaware	132	30.6	25.4-35.8 -	Delaware	983	40.8	38.3-43.4	Philadelphia	295	44.1	39.1-49.1 +
Montgomery	99	30.7	24.7-36.8 -	Montgomery	1,307	35.4	33.5-37.4 -				
Philadelphia	1,460	46.0	43.6-48.3 +	Philadelphia	2,011	54.3	52.0-56.7 +				
Pennsylvania	2,564	41.7	40.1-43.3	Pennsylvania	24,208	41.0	40.5-41.6	Pennsylvania	693	28.9	26.8-31.1

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2005-2009

Select Counties	Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+		
		Male	Female			All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.
Allegheny	Black	13.3%	238	126	364	13.7%	35	12.6	58	34.1	97	63.2	97	79.2	77	85.2
	White	83.2%	1,411	860	2,271	85.7%	81	7.2	359	40.4	497	45.7	378	36.4	956	101.7
Chester	Black	6.2%	43	14	57	8.0%	5	NA	19	53.8	9	NA	13	59.4	11	72.4
	White	89.7%	404	247	651	91.0%	54	8.9	140	36.0	123	24.5	96	23.2	238	87.1
Dauphin	Black	17.8%	47	29	76	15.8%	11	14.0	20	42.6	19	39.2	14	40.5	12	62.5
	White	77.5%	247	154	401	83.5%	30	13.1	82	48.0	68	30.1	67	31.8	154	99.6
Delaware	Black	18.1%	90	42	132	11.7%	13	7.8	20	16.2	37	34.9	28	42.2	34	88.2
	White	76.4%	606	377	983	87.1%	40	7.5	174	46.6	198	44.3	147	35.1	424	120.8
Montgomery	Black	8.7%	68	31	99	6.9%	10	10.2	16	21.0	35	43.6	18	33.3	20	66.9
	White	84.6%	774	533	1,307	91.0%	63	7.6	216	38.2	237	32.1	128	20.1	663	125.6
Philadelphia	Black	45.8%	984	476	1,460	41.2%	115	10.5	200	27.1	435	65.3	400	78.0	309	86.2
	White	46.9%	1,371	640	2,011	56.8%	76	9.3	496	61.9	596	87.2	337	57.1	506	89.7
Pennsylvania	Black	10.7%	1,743	821	2,564	9.5%	254	11.6	427	27.9	714	52.8	644	67.0	524	82.5
	White	85.9%	15,222	8,986	24,208	89.6%	1,605	12.1	4,641	47.6	5,097	44.8	3,512	33.8	9,348	106.7

INJURY DEATHS: SUICIDES

In 2009, among Pennsylvania residents, there were 1,601 deaths due to self-inflicted injury (suicides). On average, one resident died every six hours.

Injury Definition

Suicide includes any fatal injury event involving deliberate self-harm.

Leading mechanisms of suicide include firearms, hanging and self-poisoning. These mechanisms account for over 90 percent of all suicides.

Note that this definition does not include attempted suicides or cases where a suicide plan was made but never followed through.

HIGHLIGHTS

- *Age-adjusted rates have generally been **increasing** over 2005 to 2009.*
- *Most common demographic is **white males**, ages 20 to 59.*
- *Of all Pennsylvania counties, **Potter and Carbon** show the highest rates.*

Trends Over Time

- Age-adjusted death rates for suicide increased by 10 percent from 2005 to 2009.
- The age-adjusted suicide rate remained stable from 2005 to 2007 at 11.0 deaths per 100,000 population but increased to 12.1 deaths per 100,000 population in 2009.
- Males showed significantly higher age-adjusted suicide rates than females over 2005 to 2009 (rates were 20.0 and 4.9, respectively, in 2009).
- White males showed significantly higher age-adjusted suicide rates than black males over 2005 to 2009 (rates were 21.4 and 10.8, respectively, in 2009).

Demographic Trends

- White males ages 20 to 59 accounted for over half of all suicides in 2005 to 2009.
- Males showed significantly higher suicide rates than females for all age groups.
- Among males, whites showed significantly higher suicide rates for most ages 25 to 59.
- Urban and rural populations showed similar suicide rates for all age groups.

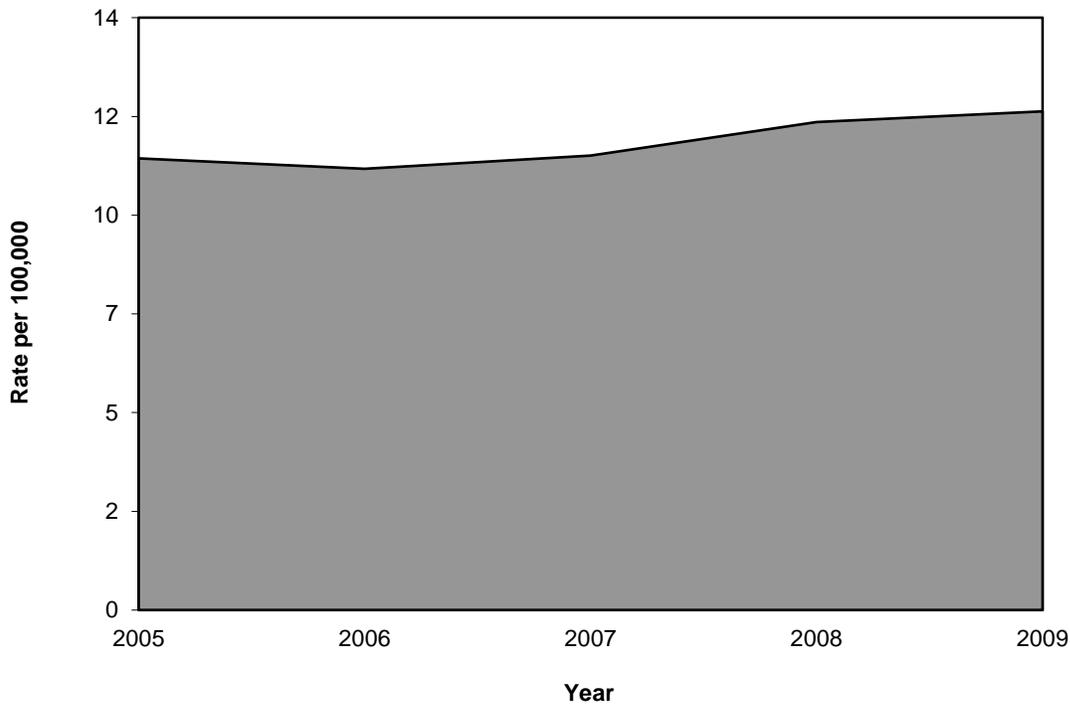
Regional Trends

- The Northeast Health District showed the highest age-specific suicide rates, while the Southeast Health District showed the lowest rates.
- Eight counties showed age-adjusted suicide rates in 2005 to 2009 that were significantly higher than the comparable state rate: Cambria, Indiana, Lackawanna, Luzerne, Carbon, Schuylkill, Bradford, and Potter. Most counties were rural.

INJURY DEATHS: SUICIDES

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES PENNSYLVANIA RESIDENTS, 2005-2009

Year	No.	Rate
2005	1,404	11.0
2006	1,372	10.7
2007	1,416	11.0
2008	1,522	11.9
2009	1,601	12.1



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2005-2009

Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2005	12.5	9.0	14.1	10.0	10.2	11.6
2006	12.3	11.8	13.1	9.4	10.7	11.2
2007	12.6	12.4	12.7	10.1	10.7	11.4
2008	13.2	10.9	13.1	11.3	12.3	11.8
2009	12.4	13.2	12.5	11.2	13.7	12.4

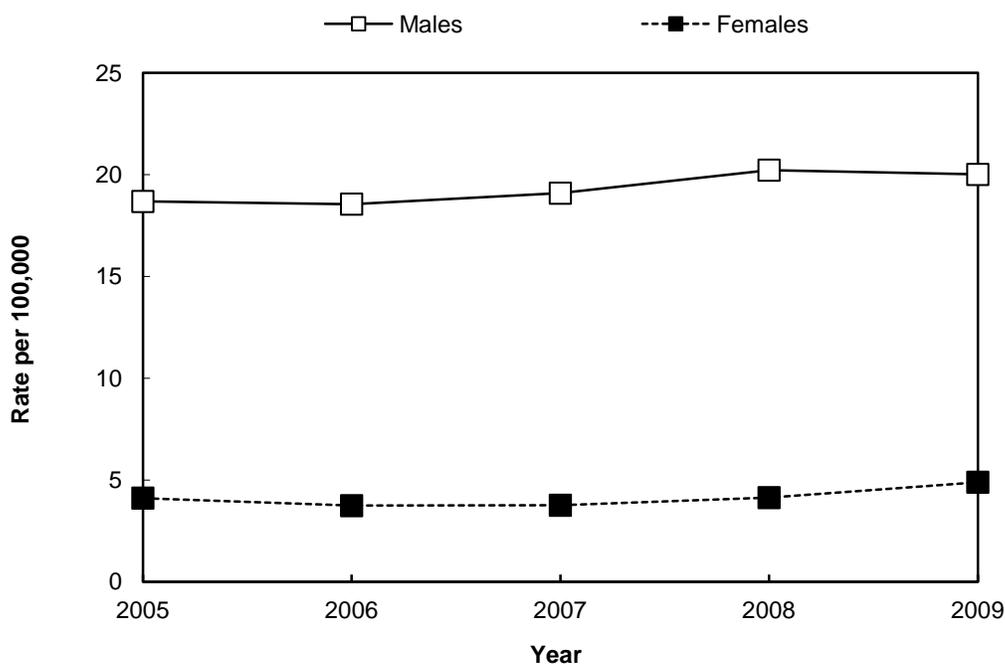
NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2005-2009 based on ICD-10 codes. See Technical Notes.

INJURY DEATHS: SUICIDES

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX PENNSYLVANIA RESIDENTS, 2005-2009

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2005	1,139	18.7 *	2005	265	4.1
2006	1,134	18.6 *	2006	238	3.7
2007	1,166	19.1 *	2007	250	3.8
2008	1,249	20.2 *	2008	273	4.1
2009	1,271	20.0 *	2009	330	4.9

** denotes a statistically significant difference between groups at level of $p = .05$*



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2005-2009

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2005	18.5	19.2	2005	4.1	4.3
2006	18.0	20.0	2006	3.5	4.4
2007	18.2	21.4	2007	4.0	3.1
2008	19.6	21.7	2008	4.0	4.5
2009	19.2	22.4	2009	4.5	6.0

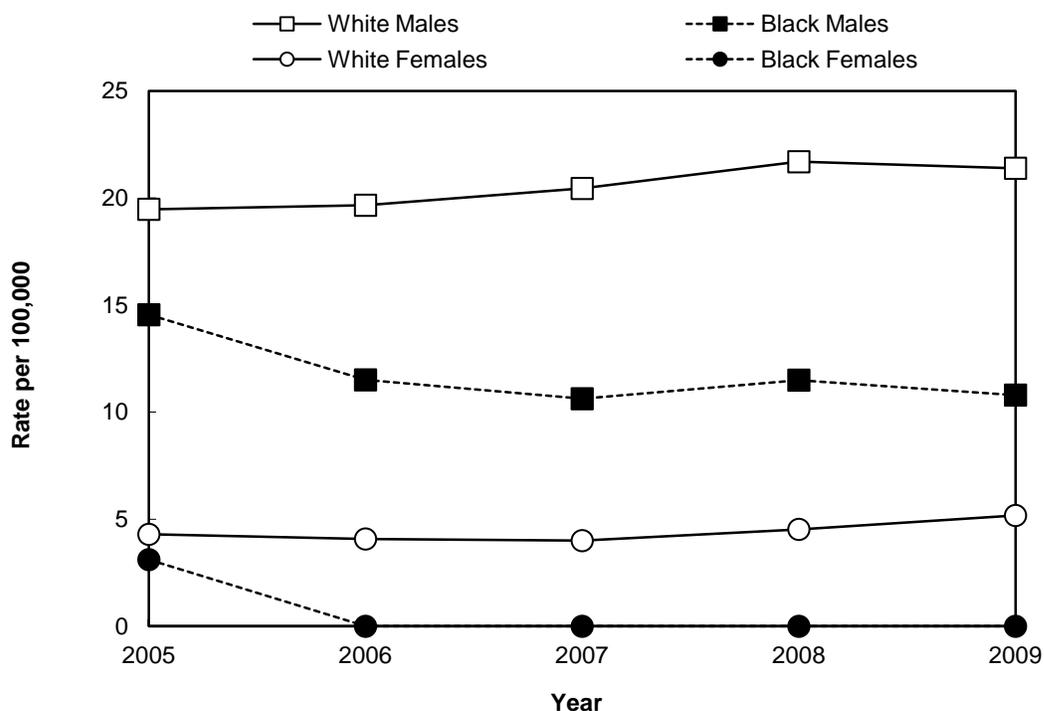
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY DEATHS: SUICIDES

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX AND RACE OR ETHNICITY PENNSYLVANIA RESIDENTS, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	1,047	79	240	21	21	5
2006	1,053	70	223	10	20	6
2007	1,089	63	231	14	32	6
2008	1,170	69	258	12	36	5
2009	1,187	70	302	17	26	3



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	19.5	14.5 *	4.3	3.1	12.0	NA
2006	19.7	11.5 *	4.1	NA	8.8	NA
2007	20.4	10.6 *	4.0	NA	11.9	NA
2008	21.7	11.5 *	4.5	NA	14.0	NA
2009	21.4	10.8 *	5.2	NA	10.7	NA

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Hispanics may be of any race. Hispanic numbers include whites, blacks and others of Hispanic ethnicity. Therefore, Hispanics must not be compared to whites or blacks, as the groups are not mutually exclusive.

INJURY DEATHS: SUICIDES

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2005-2009

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	7,315	11.7	5,959	19.7	1,356	4.2	5,104	11.3	2,211	12.9
< 5	0	NA	0	NA	0	NA	0	NA	0	NA
5-9	0	NA	0	NA	0	NA	0	NA	0	NA
10-14	50	1.2	37	1.8	13	0.7	33	1.1	17	1.6
15-19	272	5.9	211	9.0	61	2.7	188	5.6	84	6.4
20-24	544	12.4	464	20.8	80	3.7	387	12.3	157	12.6
25-29	504	13.8	425	22.7	79	4.4	344	12.6	160	17.2
30-34	512	13.7	418	22.2	94	5.0	346	12.6	166	16.6
35-39	624	15.2	497	24.4	127	6.2	441	14.7	183	16.7
40-44	786	17.6	633	28.6	153	6.8	543	16.6	243	20.2
45-49	885	19.1	701	30.7	184	7.9	625	18.6	260	20.6
50-54	876	19.8	688	31.8	188	8.3	625	19.6	251	20.4
55-59	637	16.2	503	26.4	134	6.6	452	16.0	185	16.5
60-64	422	12.9	336	21.5	86	5.0	306	13.2	116	12.0
65-69	290	11.0	248	20.6	42	2.9	187	10.2	103	13.0
70-74	235	10.5	200	20.5	35	2.8	152	9.7	83	12.4
75-79	273	14.4	242	31.5	31	2.8	186	13.9	87	15.5
80-84	226	15.9	198	37.0	28	3.2	159	15.7	67	16.4
85 +	177	13.1	156	38.7	21	2.2	128	13.2	49	12.8

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY DEATHS: SUICIDES

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2005-2009

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	5,546	21.3	351	11.1	1,254	4.6	74	2.1	160	5.7
< 5	0	NA	0	NA	0	NA	0	NA	0	NA
5-9	0	NA	0	NA	0	NA	0	NA	0	NA
10-14	31	1.8	5	NA	10	0.6	3	NA	3	NA
15-19	188	9.7	21	6.8	48	2.5	11	3.6	10	3.6
20-24	400	21.7	53	18.0	67	3.8	7	NA	18	7.3
25-29	376	24.4	36	14.5	68	4.6	9	NA	23	10.1
30-34	383	24.2	30	13.7	83	5.4	9	NA	20	9.3
35-39	453	26.1	41	19.2	112	6.5	12	5.1	14	6.6
40-44	588	30.6	38	17.7	148	7.6	3	NA	20	10.5
45-49	655	32.5	41	20.0	175	8.6	5	NA	11	6.6
50-54	654	33.8	28	15.8	178	9.0	8	NA	15	12.4
55-59	482	28.0	20	14.2	133	7.4	1	NA	11	11.6
60-64	328	23.1	7	NA	85	5.5	1	NA	7	NA
65-69	239	21.6	7	NA	39	3.0	2	NA	2	NA
70-74	194	21.6	5	NA	33	2.9	2	NA	3	NA
75-79	234	32.7	6	NA	28	2.7	0	NA	1	NA
80-84	189	38.0	9	NA	27	3.3	0	NA	1	NA
85 +	151	40.4	3	NA	20	2.3	1	NA	1	NA

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Hispanics may be of any race; therefore, their rates must not be compared to whites or blacks.

INJURY DEATHS: SUICIDES

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2005-2009

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	606	13.0	389	11.4	1,054	13.5	2,644	10.7	970	11.9	1,652	12.2
< 5	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA
5-9	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA
10-14	3	NA	3	NA	8	NA	17	1.0	7	NA	12	1.5
15-19	21	5.9	17	5.3	33	5.7	92	5.0	46	8.0 +	63	6.6
20-24	45	14.1	23	6.5 -	88	16.4 +	203	11.5	63	11.9	122	13.7
25-29	34	13.0	26	14.9	85	19.3 +	183	11.7 -	62	12.8	114	15.3
30-34	45	16.5	30	15.6	78	17.2 +	177	11.4 -	66	13.3	116	14.9
35-39	58	19.9 +	38	18.4	92	18.2	214	12.7 -	80	14.7	142	16.5
40-44	63	19.6	39	17.3	104	18.7	301	16.6	114	19.2	165	17.1
45-49	57	16.7	48	20.5	115	19.9	330	18.0	119	19.5	216	20.9
50-54	78	23.6	45	19.7	137	24.5 +	322	18.8	101	17.3	193	19.0
55-59	44	14.7	30	14.5	97	19.1	235	15.8	94	17.7	137	15.1
60-64	37	14.5	22	12.4	56	12.7	169	14.0	53	12.1	85	11.2
65-69	28	13.3	15	10.0	34	9.6	92	9.7	45	12.6	76	12.4
70-74	32	17.5 +	11	8.7	28	9.5	80	10.0	34	11.6	50	9.3
75-79	25	16.1	19	18.3	47	19.2 +	83	12.3	32	13.3	67	14.1
80-84	19	16.5	13	16.9	32	17.7	80	15.7	30	17.5	52	14.1
85 +	17	16.0	10	14.2	20	11.8	64	13.0	24	15.3	42	11.9

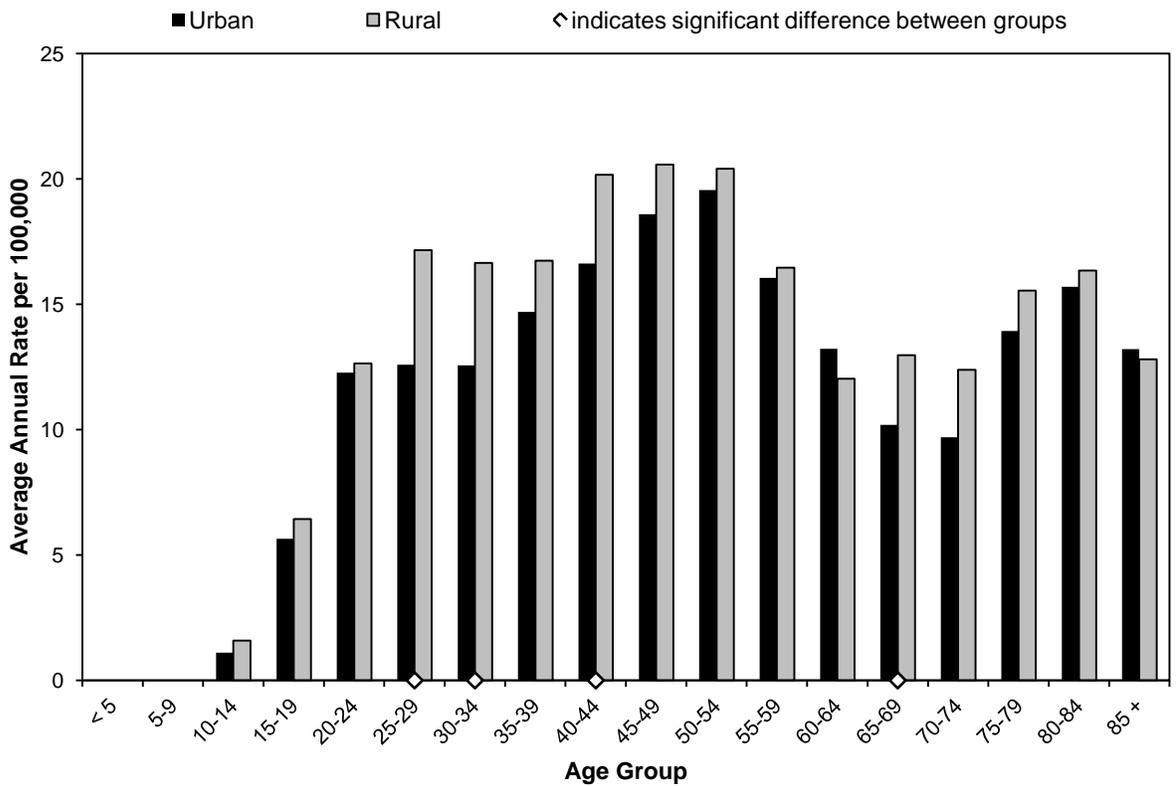
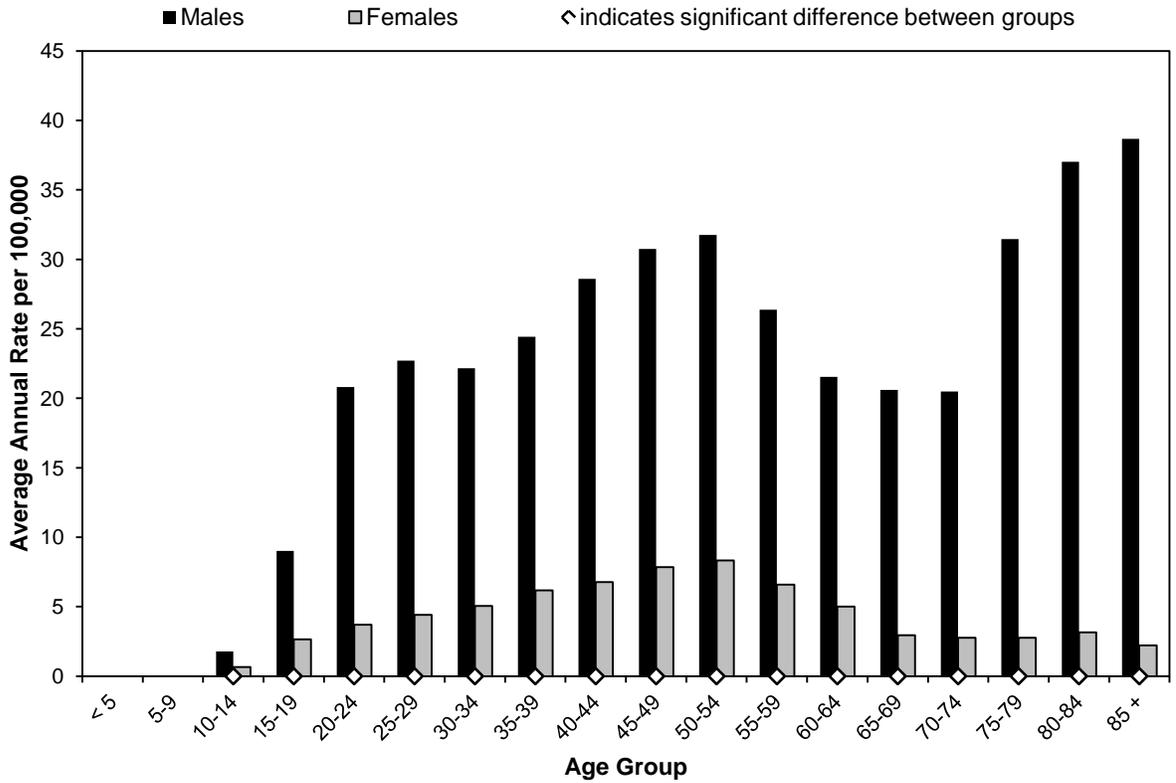
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total.

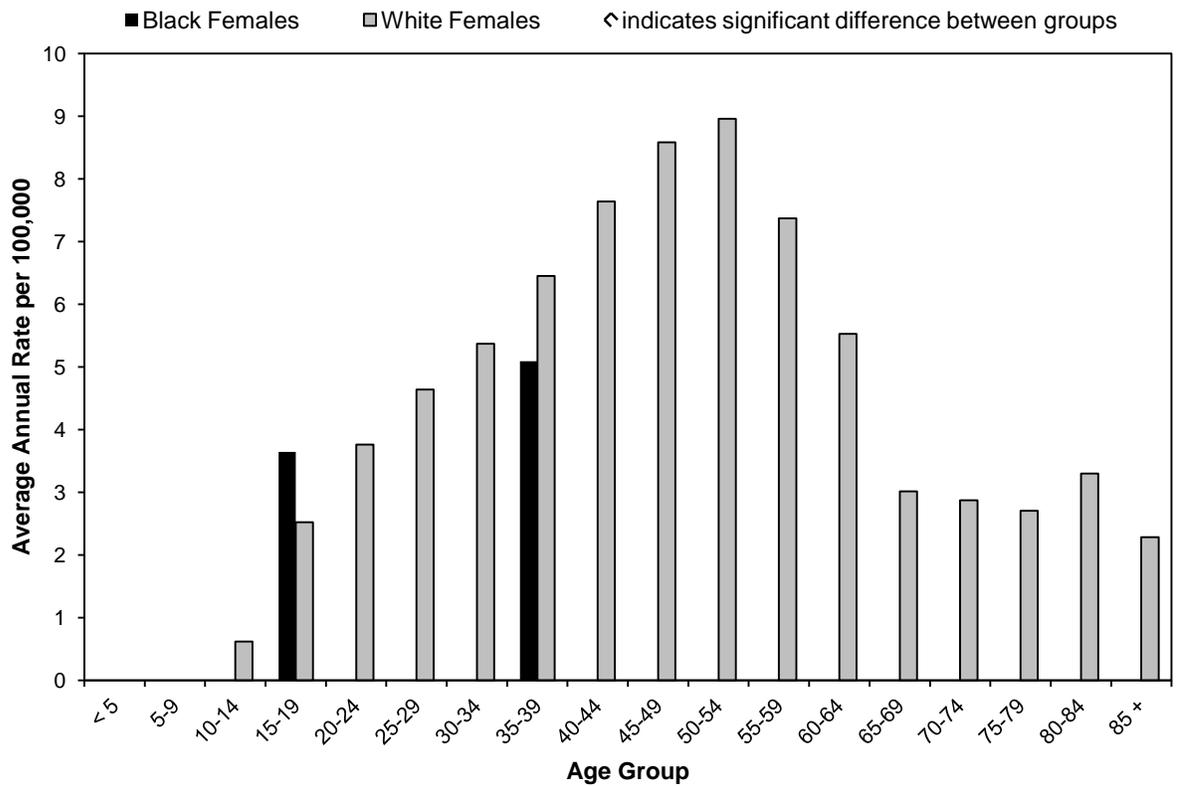
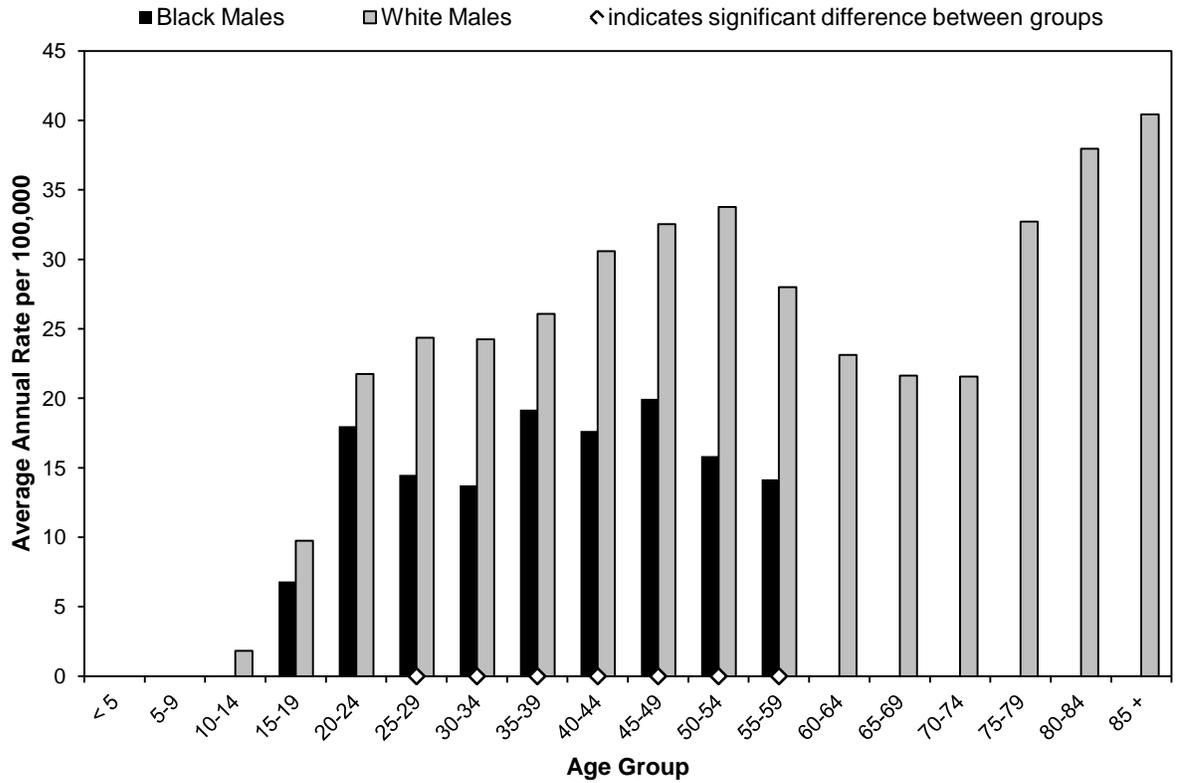
INJURY DEATHS: SUICIDES

AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2005-2009



INJURY DEATHS: SUICIDES

AVERAGE ANNUAL DEATH RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2005-2009



INJURY DEATHS: SUICIDES

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2005-2009

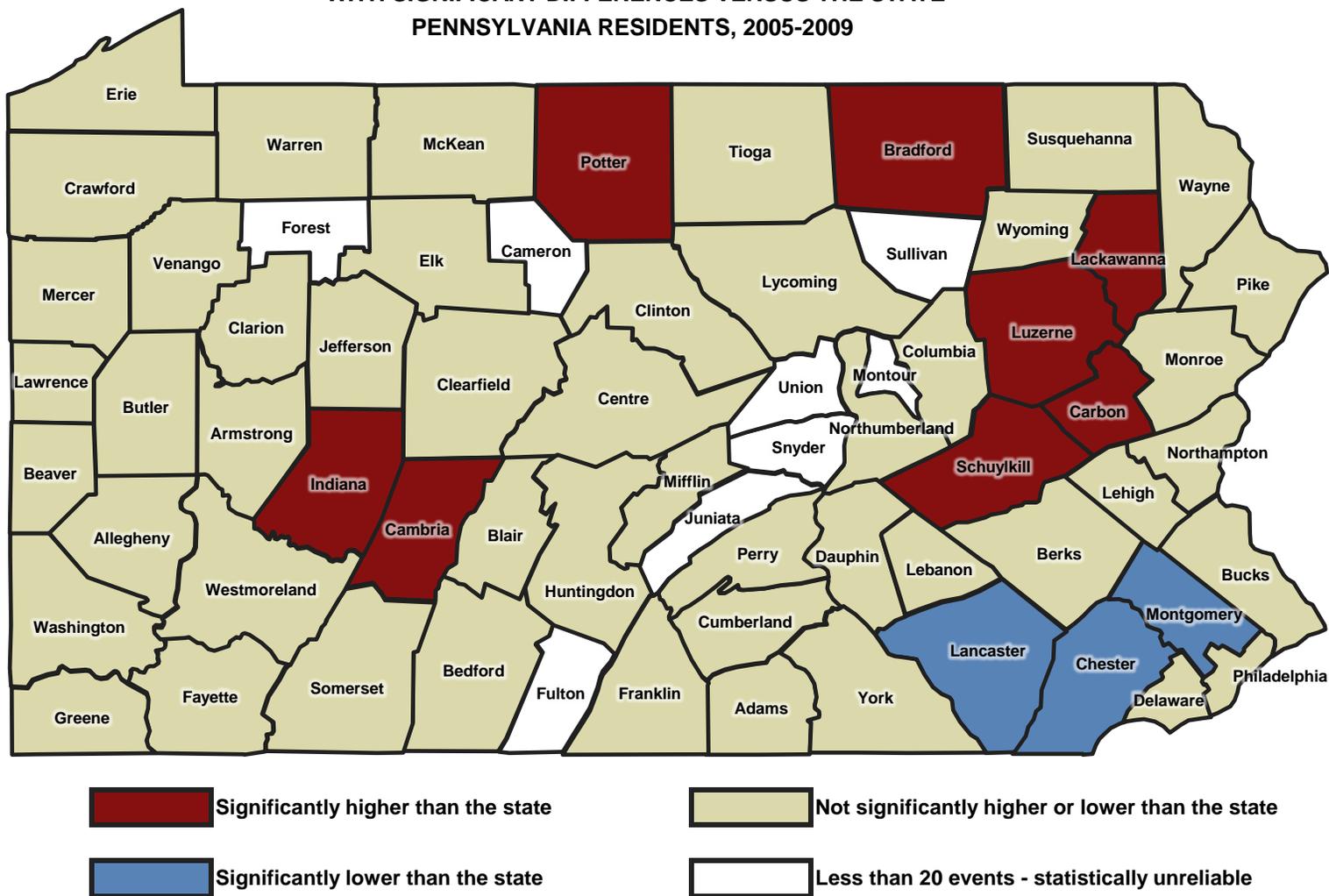
District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
Northeast	1,054	13.1	12.3-13.9 +	Southeast	2,644	10.4	10.0-10.8 -
Carbon	60	16.9	12.6-21.1 +	Berks	230	11.3	9.8-12.7
Lackawanna	159	14.7	12.4-17.0 +	Bucks	388	11.9	10.7-13.1
Lehigh	209	12.0	10.3-13.6	Chester	234	9.4	8.2-10.6 -
Luzerne	231	14.6	12.7-16.5 +	Delaware	328	11.4	10.1-12.6
Monroe	107	12.5	10.2-14.9	Lancaster	204	8.0	6.9-9.1 -
Northampton	162	10.8	9.1-12.5	Montgomery	394	9.6	8.7-10.6 -
Pike	32	10.4	6.8-14.1	Philadelphia	754	10.4	9.6-11.1
Susquehanna	29	14.9	9.4-20.3	Schuylkill	112	14.7	12.0-17.4 +
Wayne	44	16.3	11.5-21.2				
Wyoming	21	15.3	8.8-21.9				
North Central	389	11.4	10.3-12.6	South Central	970	11.5	10.8-12.3
Bradford	51	16.3	11.9-20.8 +	Adams	53	10.6	7.7-13.5
Centre	66	10.7	8.1-13.3	Bedford	37	14.5	9.8-19.2
Clinton	23	13.7	8.1-19.2	Blair	81	12.8	10.0-15.6
Columbia	38	11.9	8.1-15.7	Cumberland	137	11.5	9.6-13.4
Lycoming	66	10.9	8.3-13.5	Dauphin	137	10.2	8.5-11.9
Montour	12	NA		Franklin	81	11.0	8.6-13.4
Northumberland	47	10.3	7.3-13.2	Fulton	13	NA	
Potter	20	24.6	13.8-35.3 +	Huntingdon	28	11.6	7.3-15.8
Snyder	15	NA		Juniata	11	NA	
Sullivan	5	NA		Lebanon	72	10.9	8.4-13.4
Tioga	29	14.3	9.1-19.5	Mifflin	27	12.5	7.8-17.2
Union	17	NA		Perry	34	14.9	9.9-19.8
				York	259	12.0	10.5-13.4
Northwest	606	12.6	11.6-13.6	Southwest	1,652	11.7	11.1-12.2
Cameron	8	NA		Allegheny	698	10.9	10.1-11.7
Clarion	25	12.9	7.8-17.9	Armstrong	49	14.1	10.2-18.0
Clearfield	62	13.9	10.5-17.4	Beaver	108	11.6	9.4-13.8
Crawford	69	14.7	11.2-18.1	Butler	107	11.5	9.3-13.6
Elk	23	12.6	7.4-17.7	Cambria	110	14.8	12.1-17.6 +
Erie	168	11.9	10.1-13.7	Fayette	74	9.8	7.6-12.0
Forest	3	NA		Greene	29	13.9	8.8-18.9
Jefferson	37	15.5	10.5-20.5	Indiana	67	16.0	12.2-19.8 +
Lawrence	57	12.6	9.3-15.8	Somerset	47	11.2	8.0-14.4
McKean	25	11.3	6.8-15.7	Washington	131	12.2	10.1-14.3
Mercer	72	12.3	9.5-15.1	Westmoreland	232	12.2	10.7-13.8
Venango	35	12.0	8.0-16.0				
Warren	22	10.2	5.9-14.4	Pennsylvania	7,315	11.4	11.1-11.6

NOTE: Rates based on less than 20 events are unreliable and were not calculated. See Technical Notes.

+/- denotes that the county's rate is significantly higher or lower than the state at the p=.05 level.

INJURY DEATHS: SUICIDES

AGE-ADJUSTED DEATH RATES BY COUNTY,
WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE
PENNSYLVANIA RESIDENTS, 2005-2009



NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. See Technical Notes.

INJURY DEATHS: SUICIDES

TOTAL NUMBER OF INJURY DEATHS AND AVERAGE ANNUAL DEATH RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2005-2009

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	5,959	1,356	7,315	322	2.0	1,560	13.2	2,295	17.4	1,935	16.6	1,201	12.6
Northeast	862	192	1,054	41	2.1	251	17.5	311	18.9	290	19.2	161	13.0
Carbon	53	7	60	0	NA	17	28.0	7	NA	25	39.0	11	20.4
Lackawanna	131	28	159	7	NA	44	22.5	43	20.5	39	19.7	26	13.7
Lehigh	161	48	209	8	NA	46	14.4	58	16.4	69	21.8	28	11.0
Luzerne	186	45	231	9	NA	58	20.2	82	25.1	55	18.2	27	9.4
Monroe	87	20	107	7	NA	19	13.0	34	18.0	33	20.9	14	14.5
Northampton	133	29	162	8	NA	35	12.7	48	15.7	36	13.2	35	16.3
Pike	31	1	32	0	NA	6	NA	11	16.5	12	18.1	3	NA
Susquehanna	24	5	29	1	NA	9	NA	10	23.8	6	NA	3	NA
Wayne	38	6	44	0	NA	14	33.4	11	20.8	10	17.1	9	NA
Wyoming	18	3	21	1	NA	3	NA	7	NA	5	NA	5	NA
Southeast	2,122	522	2,644	109	1.6	563	11.5	845	15.9	726	16.5	399	11.6
Berks	196	34	230	8	NA	52	14.0	60	13.9	56	15.7	54	19.0
Bucks	310	78	388	16	2.0	76	14.5	121	16.4	112	18.1	63	15.0
Chester	182	52	234	7	NA	48	10.8	80	14.3	70	15.7	29	9.9
Delaware	254	74	328	20	2.7	61	11.5	106	18.0	92	18.2	48	12.0
Lancaster	181	23	204	10	1.4	43	9.0	55	10.8	60	13.8	35	9.7
Montgomery	289	105	394	13	1.3	71	10.2	132	14.9	117	16.1	61	10.6
Philadelphia	611	143	754	29	1.4	187	11.0	249	17.2	195	16.6	94	9.8
Schuylkill	99	13	112	6	NA	25	18.6	42	25.3	24	17.4	15	11.0

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	5,959	1,356	7,315	322	2.0	1,560	13.2	2,295	17.4	1,935	16.6	1,201	12.6
North Central	321	68	389	20	2.3	79	10.9	125	18.8	97	15.8	68	12.9
Bradford	44	7	51	4	NA	10	19.1	15	23.2	11	18.1	11	21.3
Centre	55	11	66	3	NA	16	7.4	18	14.5	22	21.0	7	NA
Clinton	20	3	23	2	NA	6	NA	8	NA	5	NA	2	NA
Columbia	35	3	38	0	NA	4	NA	14	23.6	10	17.2	10	19.0
Lycoming	46	20	66	1	NA	12	10.7	25	20.8	18	16.0	10	10.4
Montour	10	2	12	1	NA	2	NA	2	NA	5	NA	2	NA
Northumberland	40	7	47	3	NA	13	17.1	16	16.4	7	NA	8	NA
Potter	16	4	20	2	NA	5	NA	5	NA	4	NA	4	NA
Snyder	14	1	15	1	NA	3	NA	5	NA	3	NA	3	NA
Sullivan	4	1	5	0	NA	0	NA	1	NA	2	NA	2	NA
Tioga	22	7	29	2	NA	4	NA	10	26.6	8	NA	5	NA
Union	15	2	17	1	NA	4	NA	6	NA	2	NA	4	NA
South Central	788	182	970	53	2.5	191	12.7	313	17.9	248	16.0	165	13.5
Adams	46	7	53	3	NA	14	14.8	19	17.4	8	NA	9	NA
Bedford	27	10	37	1	NA	7	NA	15	28.4	3	NA	11	25.4
Blair	64	17	81	6	NA	12	10.6	31	24.3	20	16.2	12	11.0
Cumberland	113	24	137	8	NA	26	11.3	40	17.0	39	18.6	24	13.9
Dauphin	108	29	137	6	NA	27	11.7	40	13.9	42	16.6	22	12.4
Franklin	66	15	81	2	NA	17	13.1	23	16.3	25	18.9	14	12.0
Fulton	12	1	13	0	NA	2	NA	3	NA	5	NA	3	NA
Huntingdon	22	6	28	1	NA	3	NA	12	24.2	9	NA	3	NA
Juniata	10	1	11	0	NA	3	NA	3	NA	3	NA	2	NA
Lebanon	60	12	72	4	NA	18	14.5	18	14.0	21	17.4	11	10.4
Mifflin	22	5	27	3	NA	8	NA	8	NA	6	NA	2	NA
Perry	27	7	34	2	NA	7	NA	12	24.1	6	NA	7	NA
York	211	48	259	17	3.1	47	12.2	89	18.6	61	15.2	45	15.8

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	5,959	1,356	7,315	322	2.0	1,560	13.2	2,295	17.4	1,935	16.6	1,201	12.6
Northwest	516	90	606	24	2.0	124	14.6	178	18.7	159	17.9	121	15.7
Cameron	7	1	8	0	NA	1	NA	4	NA	2	NA	1	NA
Clarion	21	4	25	0	NA	5	NA	9	NA	7	NA	4	NA
Clearfield	54	8	62	2	NA	9	NA	19	20.6	15	18.5	17	23.5
Crawford	59	10	69	3	NA	10	12.6	20	22.7	20	22.9	16	22.4
Elk	22	1	23	1	NA	4	NA	5	NA	7	NA	6	NA
Erie	147	21	168	10	2.7	36	12.6	51	17.9	47	18.7	24	11.9
Forest	3	0	3	0	NA	1	NA	0	NA	0	NA	2	NA
Jefferson	35	2	37	1	NA	10	25.4	9	NA	7	NA	10	24.4
Lawrence	49	8	57	3	NA	15	19.7	17	18.4	13	14.7	9	NA
McKean	23	2	25	0	NA	9	NA	5	NA	4	NA	7	NA
Mercer	53	19	72	3	NA	14	13.9	22	18.7	23	20.5	10	9.6
Venango	25	10	35	1	NA	5	NA	12	21.3	7	NA	10	21.0
Warren	18	4	22	0	NA	5	NA	5	NA	7	NA	5	NA
Southwest	1,350	302	1,652	75	2.3	352	14.6	523	18.3	415	15.5	287	12.2
Allegheny	570	128	698	27	1.8	142	12.7	222	17.3	185	15.6	122	11.7
Armstrong	40	9	49	1	NA	10	18.6	21	28.6	7	NA	10	15.7
Beaver	96	12	108	3	NA	23	15.9	29	15.8	29	16.3	24	15.1
Butler	82	25	107	10	4.1	26	16.0	30	14.9	26	15.0	15	11.3
Cambria	84	26	110	7	NA	28	21.8	32	21.4	28	19.2	15	10.9
Fayette	64	10	74	2	NA	18	14.8	22	14.3	16	10.7	16	12.6
Greene	23	6	29	0	NA	12	30.4	8	NA	8	NA	1	NA
Indiana	56	11	67	6	NA	18	19.4	18	22.1	15	18.5	10	14.5
Somerset	39	8	47	2	NA	12	16.9	11	13.0	12	15.8	10	13.8
Washington	102	29	131	6	NA	26	14.0	44	20.7	31	15.0	24	13.5
Westmoreland	194	38	232	11	2.6	37	12.3	86	22.1	58	15.4	40	11.9

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY DEATHS: SUICIDES

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2005-2009

BLACK POPULATION BY COUNTY				WHITE POPULATION BY COUNTY				HISPANIC POPULATION BY COUNTY			
County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)
Allegheny	50	6.7	4.8-8.5	Allegheny	635	11.6	10.7-12.5	Berks	17	NA	
Chester	11	NA		Chester	220	9.8	8.5-11.1 -	Lancaster	12	NA	
Dauphin	14	NA		Dauphin	120	11.1	9.1-13.0	Lehigh	16	NA	
Delaware	27	5.1	3.2-7.0	Delaware	297	13.2	11.7-14.7	Philadelphia	56	8.2	6.0-10.3
Montgomery	15	NA		Montgomery	371	10.6	9.5-11.7 -				
Philadelphia	214	6.6	5.7-7.5	Philadelphia	510	14.4	13.2-15.7 +				
Pennsylvania	425	6.5	5.9-7.1	Pennsylvania	6,800	12.1	11.8-12.4	Pennsylvania	160	6.6	5.5-7.6

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2005-2009

Select Counties	Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+		
		Male	Female			All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.
County and Race	Cty. Pop.															
Allegheny	Black	13.3%	39	11	50	7.2%	5	NA	11	6.5	25	16.3	7	NA	2	NA
	White	83.2%	521	114	635	91.0%	22	1.9	124	13.9	193	17.7	177	17.0	119	12.7
Chester	Black	6.2%	10	1	11	4.7%	1	NA	2	NA	3	NA	4	NA	1	NA
	White	89.7%	169	51	220	94.0%	6	NA	45	11.6	77	15.3	65	15.7	27	9.9
Dauphin	Black	17.8%	12	2	14	10.2%	1	NA	4	NA	5	NA	3	NA	1	NA
	White	77.5%	94	26	120	87.6%	5	NA	22	12.9	33	14.6	39	18.5	21	13.6
Delaware	Black	18.1%	24	3	27	8.2%	2	NA	12	9.7	8	NA	2	NA	2	NA
	White	76.4%	227	70	297	90.5%	18	3.4	46	12.3	97	21.7	90	21.5	46	13.1
Montgomery	Black	8.7%	10	5	15	3.8%	2	NA	5	NA	6	NA	1	NA	1	NA
	White	84.6%	275	96	371	94.2%	11	1.3	63	11.1	125	16.9	114	17.9	58	11.0
Philadelphia	Black	45.8%	179	35	214	28.4%	16	1.5	73	9.9	68	10.2	34	6.6	23	6.4
	White	46.9%	413	97	510	67.6%	10	1.2	103	12.9	173	25.3	157	26.6	67	11.9
Pennsylvania	Black	10.7%	351	74	425	5.8%	40	1.8	144	9.4	140	10.4	65	6.8	35	5.5
	White	85.9%	5,546	1,254	6,800	93.0%	277	2.1	1,377	14.1	2,131	18.7	1,860	17.9	1,154	13.2

INJURY DEATHS: HOMICIDES

In 2009, among Pennsylvania residents, there were 650 deaths due to assault injury (homicides). On average, 12 residents died every week.

Injury Definition

Homicide includes any fatal injury inflicted by another with the intent to cause harm.

Firearms are the leading mechanism of homicide, accounting for nearly 75 percent of all homicides. Other mechanisms include cut/pierce (stabblings) and strangulation.

Note that this definition does not include deaths by legal intervention or acts of warfare.

HIGHLIGHTS

- *Age-adjusted rates have generally been **decreasing** over 2005 to 2009.*
- *Most common demographic is **black males**, ages 15 to 49.*
- *Of all Pennsylvania counties, **Philadelphia** shows the highest rate.*

Trends Over Time

- The age-adjusted homicide rate decreased 14 percent from 2005 to 2009, from 6.2 to 5.3 deaths per 100,000 population.
- Males showed significantly higher age-adjusted homicide rates than females over 2005 to 2009 (rates were 8.3 and 2.2, respectively, in 2009).
- Black males and females showed significantly higher age-adjusted homicide rates than white males and females over 2005 to 2009.

Demographic Trends

- Black males ages 15 to 49 accounted for half of all homicides in 2005 to 2009.
- Males showed significantly higher homicide rates than females among ages 15 to 64.
- Among males and females, blacks showed significantly higher homicide rates than whites for all ages for which rates could be calculated.

Regional Trends

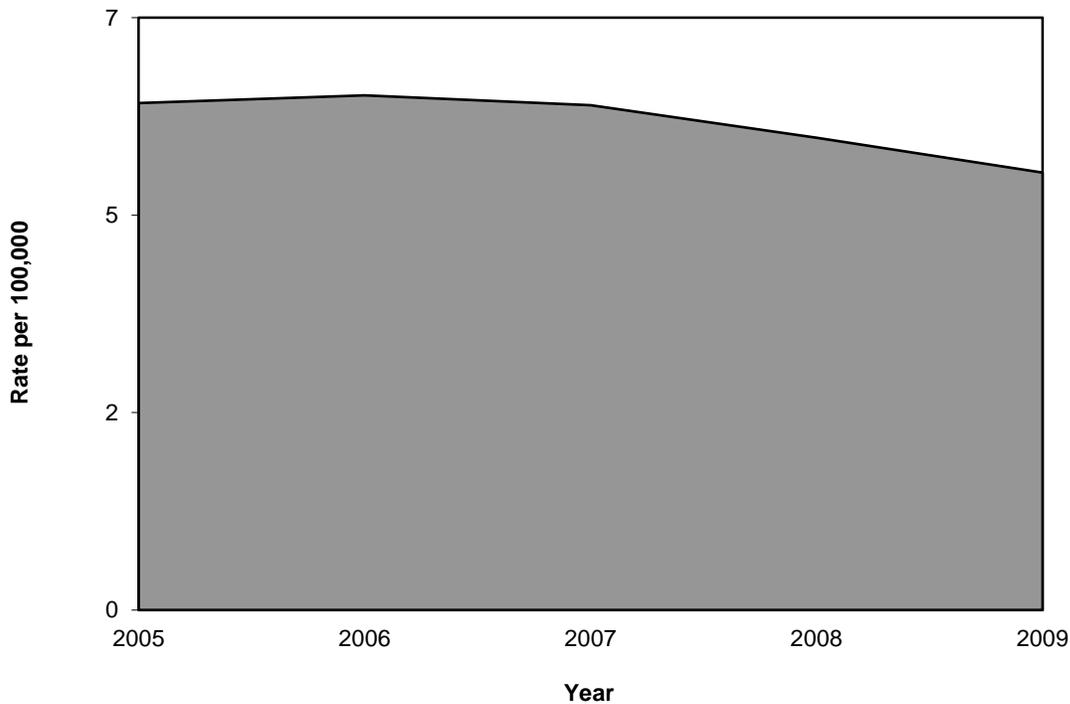
- The Southeast Health District showed the highest age-specific homicide rates, while the South Central Health District showed the lowest rates.
- Three counties showed age-adjusted homicide rates that were significantly higher than the comparable state rate: Allegheny, Delaware and Philadelphia.

Note: Rates were not able to be calculated for most counties in the state, due to a small number of events (i.e., fewer than 20 homicides over 2005 to 2009).

INJURY DEATHS: HOMICIDES

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES PENNSYLVANIA RESIDENTS, 2005-2009

Year	No.	Rate
2005	741	6.2
2006	759	6.3
2007	737	6.1
2008	692	5.7
2009	650	5.3



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2005-2009

Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2005	2.9	NA	3.1	10.2	3.1	4.6
2006	2.3	NA	3.7	10.3	2.3	5.1
2007	NA	NA	3.6	10.1	2.7	4.9
2008	2.2	NA	3.4	8.5	2.7	6.1
2009	NA	NA	3.3	7.8	3.4	4.9

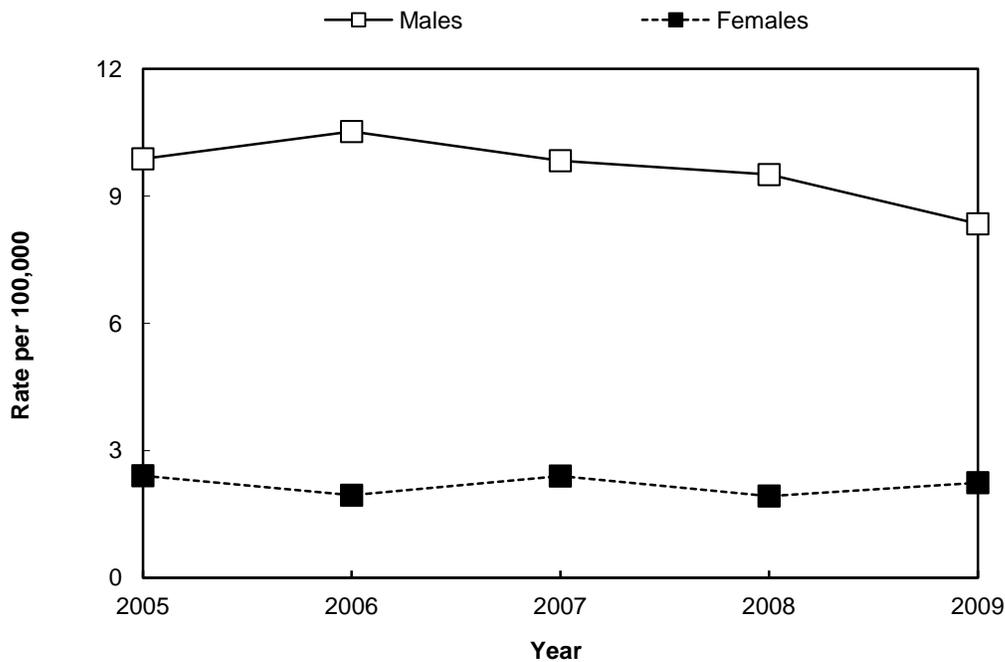
NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2005-2009 based on ICD-10 codes. See Technical Notes.

INJURY DEATHS: HOMICIDES

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX PENNSYLVANIA RESIDENTS, 2005-2009

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2005	591	9.9 *	2005	150	2.4
2006	638	10.5 *	2006	121	1.9
2007	593	9.8 *	2007	144	2.4
2008	570	9.5 *	2008	122	1.9
2009	509	8.3 *	2009	141	2.2

** denotes a statistically significant difference between groups at level of $p = .05$*



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2005-2009

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2005	12.7	2.5 *	2005	2.6	1.9
2006	13.7	2.4 *	2006	2.2	1.2 *
2007	12.8	2.2 *	2007	2.7	1.6 *
2008	11.9	3.3 *	2008	2.2	1.3
2009	10.5	2.7 *	2009	2.5	1.6

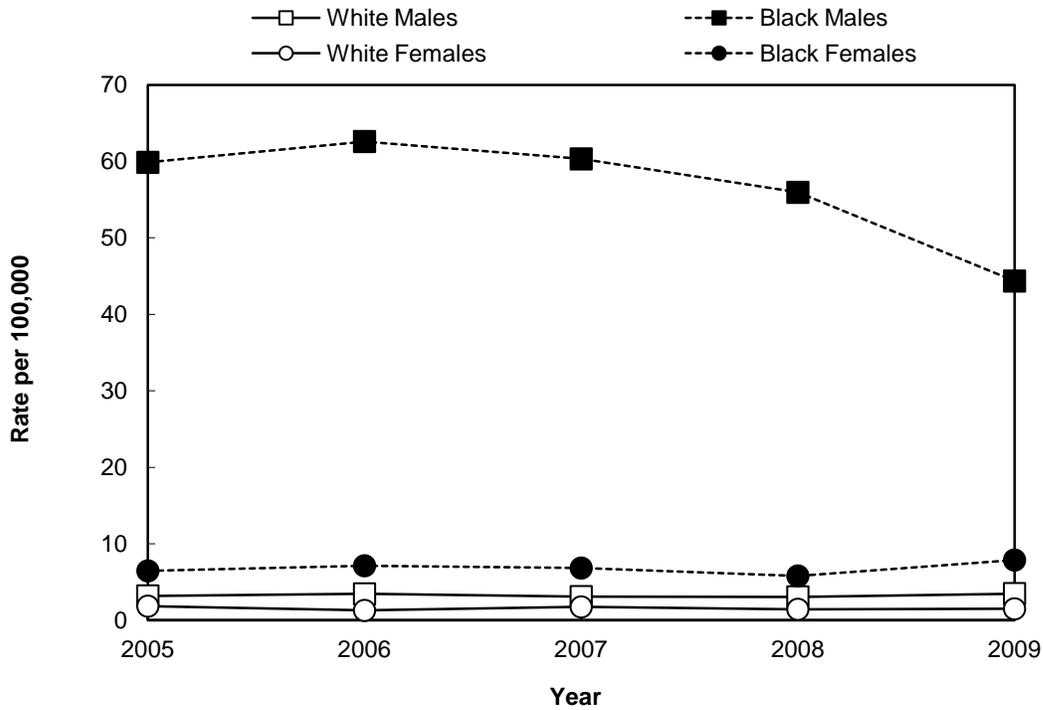
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY DEATHS: HOMICIDES

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX AND RACE OR ETHNICITY PENNSYLVANIA RESIDENTS, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	165	408	101	45	59	13
2006	177	443	68	51	55	6
2007	159	421	91	47	59	8
2008	157	400	79	42	44	10
2009	178	325	81	57	62	13



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	3.2	59.9 *	1.9	6.5 *	22.7	NA
2006	3.5	62.6 *	1.3	7.1 *	17.3	NA
2007	3.1	60.3 *	1.7	6.8 *	21.1	NA
2008	3.1	55.9 *	1.4	5.8 *	15.7	NA
2009	3.5	44.4 *	1.5	7.9 *	20.1	NA

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Hispanics may be of any race. Hispanic numbers include whites, blacks and others of Hispanic ethnicity. Therefore, Hispanics must not be compared to whites or blacks, as the groups are not mutually exclusive.

INJURY DEATHS: HOMICIDES

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2005-2009

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	3,579	5.7	2,901	9.6	678	2.1	3,233	7.2	346	2.0
< 5	103	2.8	57	3.0	46	2.6	77	2.8	26	2.8
5-9	23	0.6	12	0.6	11	0.6	19	0.7	4	NA
10-14	33	0.8	21	1.0	12	0.6	26	0.9	7	NA
15-19	490	10.6	447	19.1	43	1.9	471	14.1	19	1.5
20-24	725	16.5	636	28.5	89	4.1	681	21.6	44	3.5
25-29	541	14.8	491	26.2	50	2.8	517	18.9	24	2.6
30-34	406	10.8	345	18.3	61	3.3	372	13.5	34	3.4
35-39	310	7.6	239	11.7	71	3.5	275	9.2	35	3.2
40-44	264	5.9	192	8.7	72	3.2	225	6.9	39	3.2
45-49	212	4.6	153	6.7	59	2.5	183	5.4	29	2.3
50-54	162	3.7	128	5.9	34	1.5	139	4.3	23	1.9
55-59	81	2.1	52	2.7	29	1.4	64	2.3	17	1.5
60-64	70	2.1	50	3.2	20	1.2	54	2.3	16	1.7
65-69	36	1.4	24	2.0	12	0.8	31	1.7	5	NA
70-74	30	1.3	16	1.6	14	1.1	21	1.3	9	NA
75-79	28	1.5	16	2.1	12	1.1	27	2.0	1	NA
80-84	35	2.5	11	2.1	24	2.7	27	2.7	8	NA
85 +	27	2.0	8	NA	19	2.0	22	2.3	5	NA

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY DEATHS: HOMICIDES

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2005-2009

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
TOTAL	836	3.2	1,997	63.1	420	1.5	242	6.9	329	11.6		
< 5	32	2.1	21	8.2	*	26	1.8	18	7.2	*	13	4.1
5-9	7	NA	5	NA		6	NA	4	NA		1	NA
10-14	5	NA	15	5.3		7	NA	5	NA		0	NA
15-19	64	3.3	380	123.2	*	19	1.0	22	7.3	*	29	10.3
20-24	140	7.6	480	163.0	*	41	2.3	47	16.2	*	76	30.7
25-29	101	6.5	379	152.6	*	28	1.9	21	8.5	*	58	25.3
30-34	96	6.1	246	112.6	*	40	2.6	20	8.7	*	46	21.5
35-39	81	4.7	152	71.2	*	45	2.6	25	10.6	*	35	16.6
40-44	69	3.6	117	54.4	*	45	2.3	24	9.9	*	16	8.4
45-49	70	3.5	79	38.5	*	36	1.8	21	8.8	*	21	12.6
50-54	68	3.5	56	31.7	*	24	1.2	10	4.7	*	13	10.7
55-59	22	1.3	26	18.4	*	20	1.1	8	NA		2	NA
60-64	32	2.3	15	14.1	*	13	0.8	6	NA		9	NA
65-69	15	1.4	7	NA		9	NA	3	NA		3	NA
70-74	9	NA	7	NA		12	1.0	2	NA		3	NA
75-79	10	1.4	6	NA		10	1.0	2	NA		2	NA
80-84	9	NA	2	NA		21	2.6	3	NA		1	NA
85 +	5	NA	3	NA		18	2.1	1	NA		1	NA

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Hispanics may be of any race; therefore, their rates must not be compared to whites or blacks.

INJURY DEATHS: HOMICIDES

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2005-2009

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	98	2.1	50	1.5	258	3.3	2,302	9.3	225	2.8	646	4.8
< 5	8	NA	6	NA	14	3.2	42	2.6	13	2.7	20	2.8
5-9	2	NA	0	NA	1	NA	13	0.8	2	NA	5	NA
10-14	0	NA	0	NA	4	NA	17	1.0	3	NA	9	NA
15-19	7	NA	2	NA	24	4.1 -	345	18.6 +	16	2.8 -	96	10.0
20-24	15	4.7 -	5	NA	42	7.8 -	504	28.6 +	31	5.9 -	128	14.4
25-29	7	NA	6	NA	31	7.0 -	371	23.8 +	32	6.6 -	94	12.6
30-34	13	4.8 -	5	NA	23	5.1 -	252	16.2 +	30	6.0 -	83	10.7
35-39	12	4.1 -	5	NA	28	5.5	197	11.7 +	18	3.3 -	50	5.8
40-44	9	NA	6	NA	25	4.5	161	8.9 +	15	2.5 -	48	5.0
45-49	6	NA	5	NA	16	2.8 -	137	7.5 +	16	2.6 -	32	3.1 -
50-54	4	NA	2	NA	15	2.7	103	6.0 +	12	2.1 -	26	2.6
55-59	3	NA	3	NA	5	NA	46	3.1 +	9	NA	15	1.6
60-64	3	NA	3	NA	6	NA	33	2.7	10	2.3	15	2.0
65-69	1	NA	0	NA	5	NA	22	2.3 +	4	NA	4	NA
70-74	5	NA	1	NA	5	NA	12	1.5	1	NA	6	NA
75-79	2	NA	0	NA	3	NA	13	1.9	5	NA	5	NA
80-84	0	NA	1	NA	6	NA	20	3.9 +	5	NA	3	NA
85 +	1	NA	0	NA	4	NA	12	2.4	3	NA	7	NA

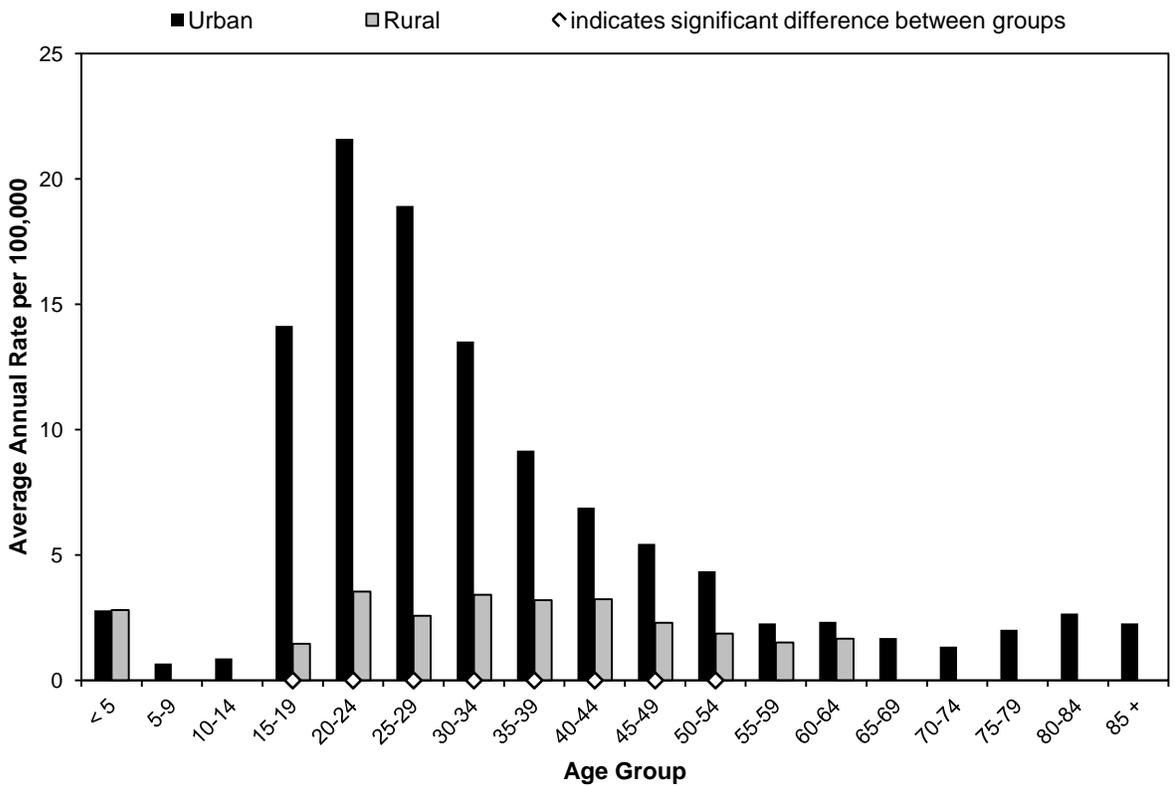
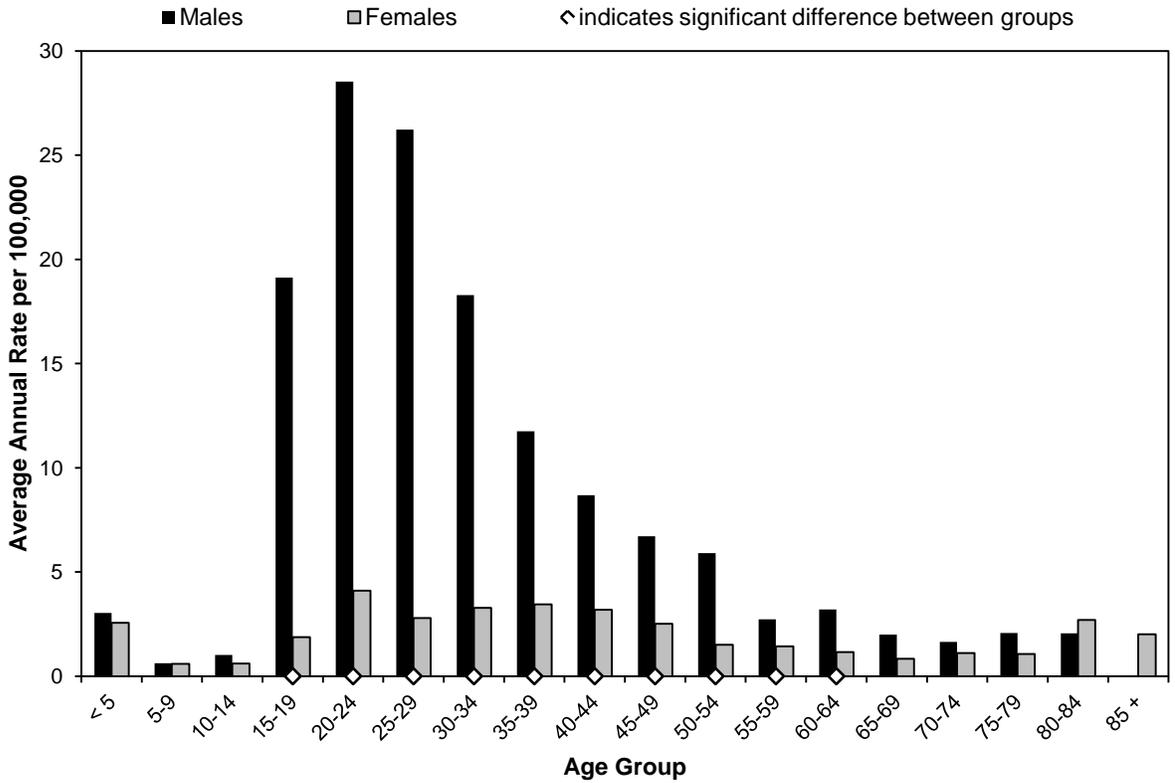
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total.

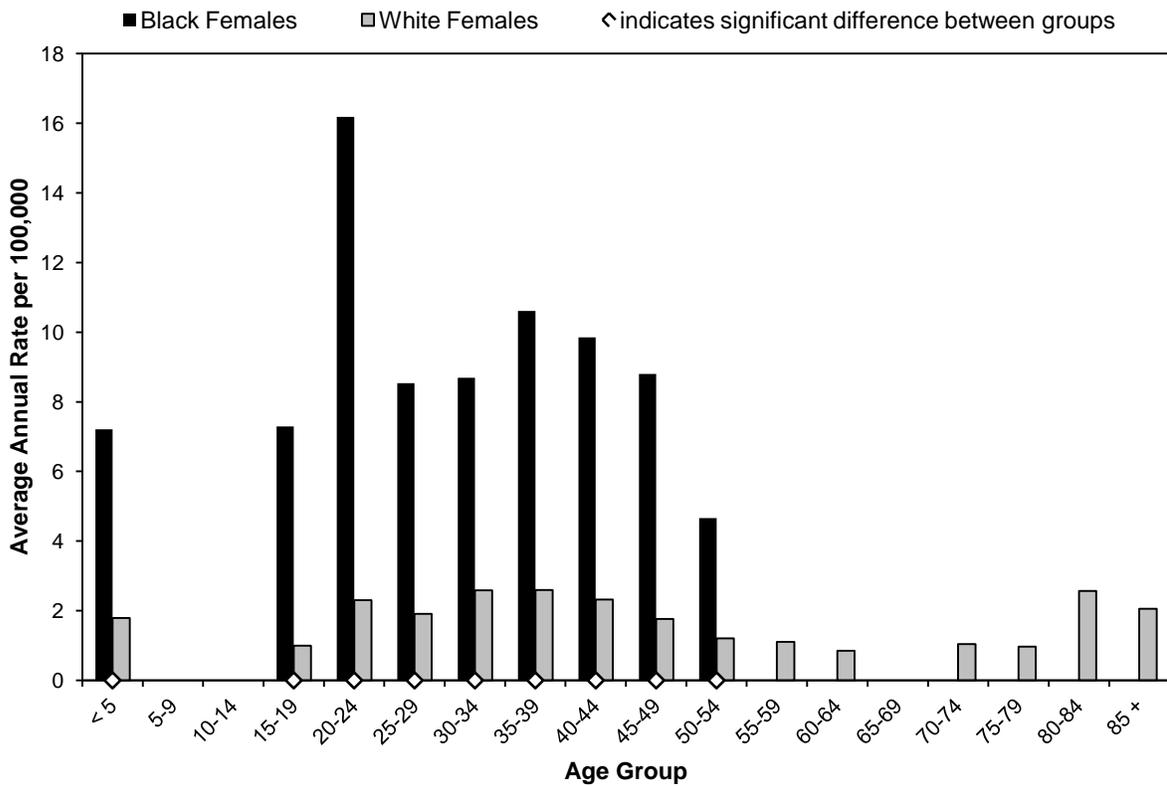
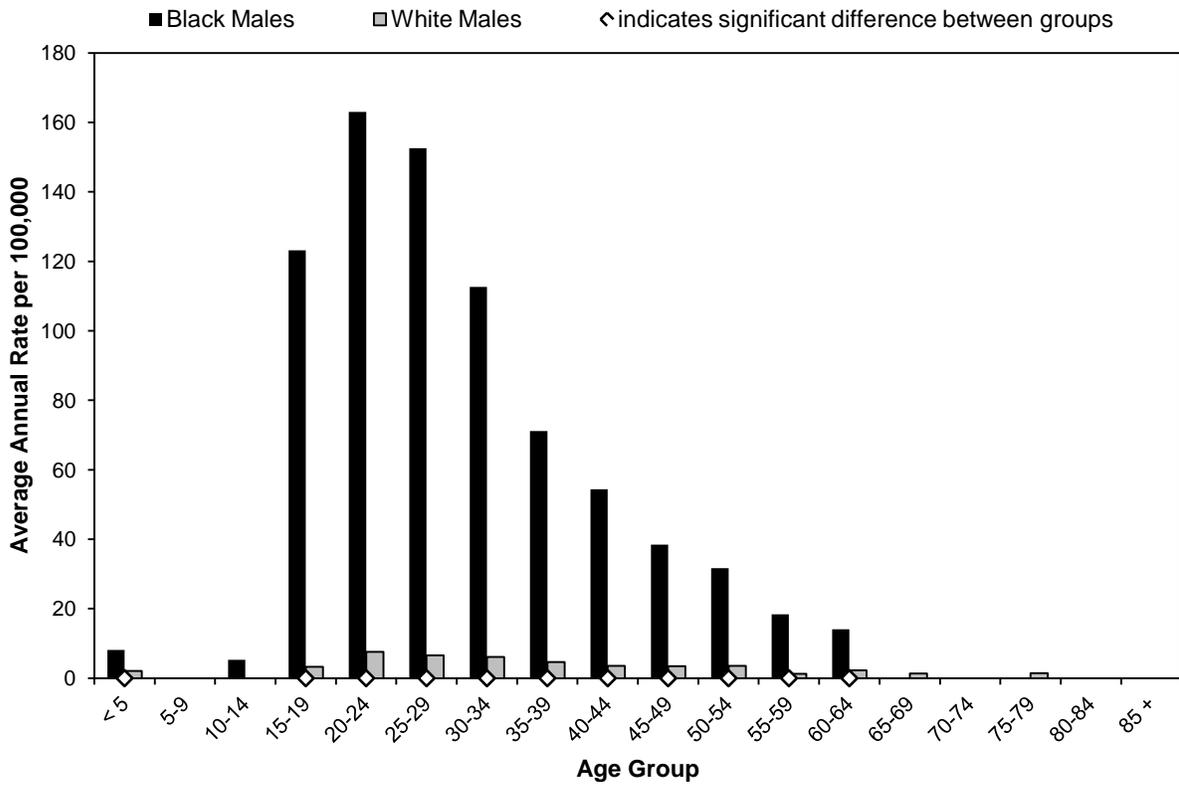
INJURY DEATHS: HOMICIDES

AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2005-2009



INJURY DEATHS: HOMICIDES

AVERAGE ANNUAL DEATH RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2005-2009



INJURY DEATHS: HOMICIDES

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2005-2009

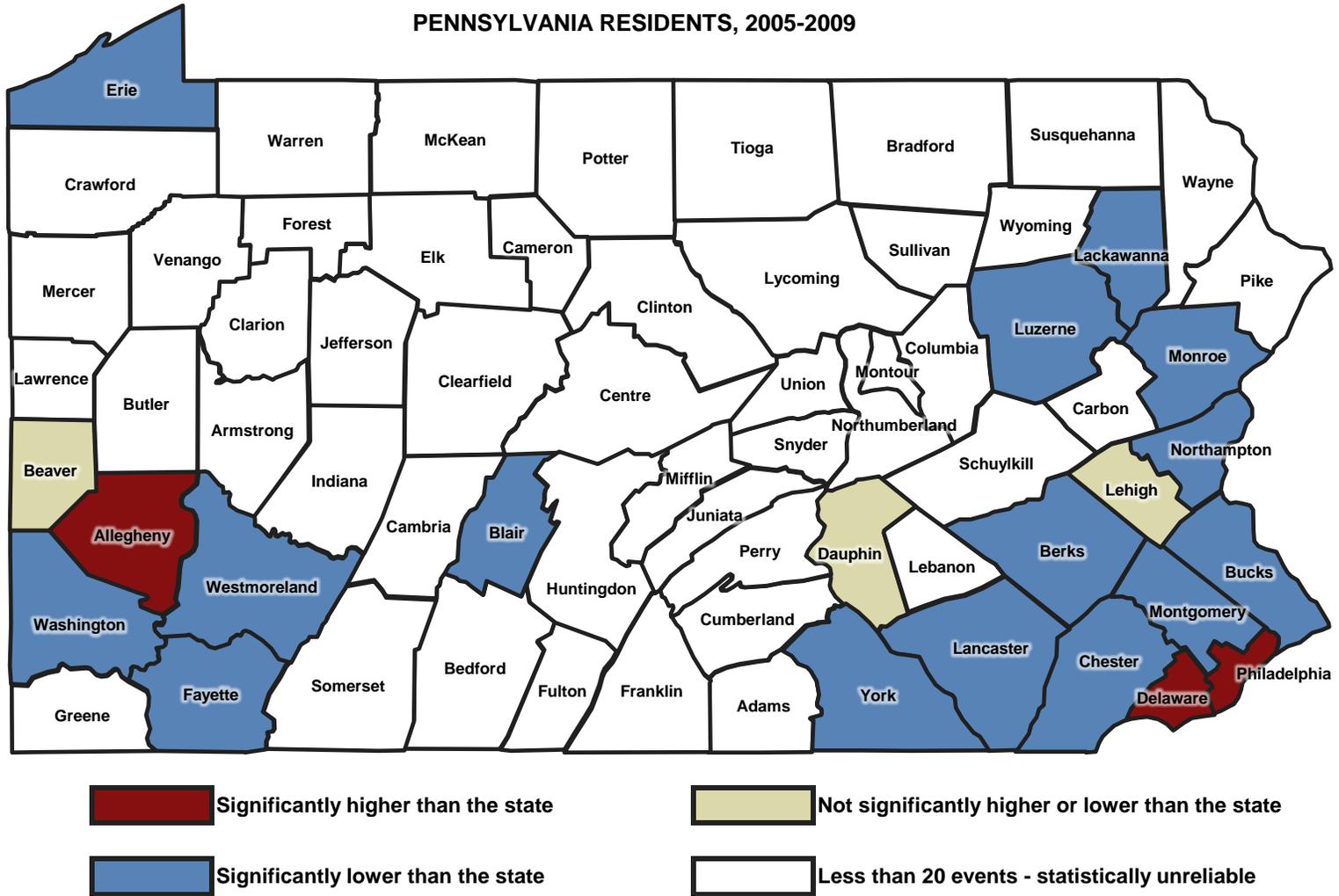
District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
Northeast	258	3.4	3.0-3.9 -	Southeast	2,302	9.4	9.0-9.8 +
Carbon	6	NA		Berks	76	4.0	3.1-4.9 -
Lackawanna	21	2.2	1.2-3.1 -	Bucks	54	1.8	1.3-2.3 -
Lehigh	80	4.9	3.8-6.0	Chester	41	1.7	1.2-2.2 -
Luzerne	67	4.6	3.5-5.7 -	Delaware	213	7.8	6.7-8.8 +
Monroe	27	3.4	2.1-4.7 -	Lancaster	71	2.9	2.2-3.6 -
Northampton	42	2.9	2.0-3.8 -	Montgomery	89	2.4	1.9-2.9 -
Pike	6	NA		Philadelphia	1,744	22.4	21.3-23.4 +
Susquehanna	1	NA		Schuylkill	14	NA	
Wayne	5	NA					
Wyoming	3	NA					
North Central	50	1.6	1.1-2.0 -	South Central	225	2.8	2.5-3.2 -
Bradford	7	NA		Adams	5	NA	
Centre	5	NA		Bedford	3	NA	
Clinton	1	NA		Blair	22	3.6	2.1-5.0 -
Columbia	4	NA		Cumberland	13	NA	
Lycoming	13	NA		Dauphin	75	6.3	4.9-7.7
Montour	2	NA		Franklin	9	NA	
Northumberland	8	NA		Fulton	1	NA	
Potter	1	NA		Huntingdon	2	NA	
Snyder	4	NA		Juniata	3	NA	
Sullivan	0	NA		Lebanon	13	NA	
Tioga	1	NA		Mifflin	6	NA	
Union	4	NA		Perry	5	NA	
				York	68	3.4	2.6-4.2 -
Northwest	98	2.2	1.8-2.7 -	Southwest	646	5.1	4.7-5.5 -
Cameron	0	NA		Allegheny	469	8.2	7.5-8.9 +
Clarion	2	NA		Armstrong	8	NA	
Clearfield	4	NA		Beaver	37	4.8	3.3-6.4
Crawford	17	NA		Butler	14	NA	
Elk	1	NA		Cambria	15	NA	
Erie	30	2.2	1.4-3.0 -	Fayette	23	3.3	1.9-4.6 -
Forest	0	NA		Greene	6	NA	
Jefferson	4	NA		Indiana	7	NA	
Lawrence	14	NA		Somerset	10	NA	
McKean	5	NA		Washington	27	2.7	1.7-3.7 -
Mercer	9	NA		Westmoreland	30	1.8	1.1-2.4 -
Venango	1	NA					
Warren	11	NA		Pennsylvania	3,579	5.9	5.7-6.1

NOTE: Rates based on less than 20 events are unreliable and were not calculated. See Technical Notes.

+/- denotes that the county's rate is significantly higher or lower than the state at the p=.05 level.

INJURY DEATHS: HOMICIDES

AGE-ADJUSTED DEATH RATES BY COUNTY,
WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE
PENNSYLVANIA RESIDENTS, 2005-2009



NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. See Technical Notes.

INJURY DEATHS: HOMICIDES

TOTAL NUMBER OF INJURY DEATHS AND AVERAGE ANNUAL DEATH RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2005-2009

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	2,901	678	3,579	649	4.0	1,672	14.2	786	6.0	313	2.7	156	1.6
Northeast	183	75	258	43	2.2	96	6.7	69	4.2	26	1.7	23	1.9
Carbon	4	2	6	0	NA	1	NA	1	NA	4	NA	0	NA
Lackawanna	16	5	21	7	NA	5	NA	5	NA	3	NA	1	NA
Lehigh	61	19	80	11	2.5	35	11.0	19	5.4	5	NA	10	3.9
Luzerne	43	24	67	6	NA	25	8.7	23	7.0	7	NA	6	NA
Monroe	22	5	27	6	NA	11	7.5	6	NA	2	NA	2	NA
Northampton	28	14	42	11	2.8	17	6.2	8	NA	3	NA	3	NA
Pike	5	1	6	0	NA	0	NA	3	NA	1	NA	1	NA
Susquehanna	0	1	1	1	NA	0	NA	0	NA	0	NA	0	NA
Wayne	2	3	5	0	NA	1	NA	3	NA	1	NA	0	NA
Wyoming	2	1	3	1	NA	1	NA	1	NA	0	NA	0	NA
Southeast	1,957	345	2,302	417	6.2	1,127	23.1	495	9.3	182	4.1	79	2.3
Berks	52	24	76	13	2.3	34	9.1	20	4.6	6	NA	3	NA
Bucks	40	14	54	8	NA	17	3.2	15	2.0	9	NA	5	NA
Chester	23	18	41	6	NA	15	3.4	8	NA	8	NA	4	NA
Delaware	170	43	213	34	4.5	102	19.2	45	7.6	17	3.4	15	3.8
Lancaster	45	26	71	20	2.8	21	4.4	18	3.5	7	NA	5	NA
Montgomery	64	25	89	13	1.3	39	5.6	21	2.4	12	1.7	4	NA
Philadelphia	1,556	188	1,744	320	15.4	895	52.8	365	25.2	120	10.2	42	4.4
Schuylkill	7	7	14	3	NA	4	NA	3	NA	3	NA	1	NA

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	2,901	678	3,579	649	4.0	1,672	14.2	786	6.0	313	2.7	156	1.6
North Central	34	16	50	8	NA	16	2.2	16	2.4	8	NA	2	NA
Bradford	4	3	7	0	NA	0	NA	2	NA	4	NA	1	NA
Centre	3	2	5	0	NA	4	NA	1	NA	0	NA	0	NA
Clinton	1	0	1	0	NA	0	NA	0	NA	1	NA	0	NA
Columbia	4	0	4	2	NA	0	NA	2	NA	0	NA	0	NA
Lycoming	10	3	13	4	NA	4	NA	5	NA	0	NA	0	NA
Montour	1	1	2	1	NA	0	NA	1	NA	0	NA	0	NA
Northumberland	4	4	8	0	NA	4	NA	2	NA	1	NA	1	NA
Potter	0	1	1	0	NA	1	NA	0	NA	0	NA	0	NA
Snyder	3	1	4	1	NA	2	NA	1	NA	0	NA	0	NA
Sullivan	0	0	0	0	NA	0	NA	0	NA	0	NA	0	NA
Tioga	1	0	1	0	NA	0	NA	0	NA	1	NA	0	NA
Union	3	1	4	0	NA	1	NA	2	NA	1	NA	0	NA
South Central	152	73	225	34	1.6	93	6.2	49	2.8	31	2.0	18	1.5
Adams	2	3	5	1	NA	1	NA	1	NA	0	NA	2	NA
Bedford	2	1	3	0	NA	1	NA	0	NA	2	NA	0	NA
Blair	16	6	22	4	NA	5	NA	7	NA	5	NA	1	NA
Cumberland	6	7	13	2	NA	4	NA	3	NA	2	NA	2	NA
Dauphin	62	13	75	12	3.6	39	16.9	11	3.8	8	NA	5	NA
Franklin	4	5	9	0	NA	1	NA	5	NA	1	NA	2	NA
Fulton	0	1	1	1	NA	0	NA	0	NA	0	NA	0	NA
Huntingdon	0	2	2	0	NA	1	NA	1	NA	0	NA	0	NA
Juniata	3	0	3	1	NA	1	NA	0	NA	1	NA	0	NA
Lebanon	6	7	13	1	NA	5	NA	2	NA	4	NA	1	NA
Mifflin	2	4	6	2	NA	1	NA	2	NA	1	NA	0	NA
Perry	2	3	5	0	NA	1	NA	3	NA	1	NA	0	NA
York	47	21	68	10	1.8	33	8.5	14	2.9	6	NA	5	NA

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	2,901	678	3,579	649	4.0	1,672	14.2	786	6.0	313	2.7	156	1.6
Northwest	64	34	98	17	1.4	35	4.1	27	2.8	10	1.1	9	NA
Cameron	0	0	0	0	NA	0	NA	0	NA	0	NA	0	NA
Clarion	0	2	2	0	NA	2	NA	0	NA	0	NA	0	NA
Clearfield	3	1	4	0	NA	1	NA	1	NA	0	NA	2	NA
Crawford	16	1	17	1	NA	8	NA	6	NA	1	NA	1	NA
Elk	1	0	1	0	NA	0	NA	0	NA	1	NA	0	NA
Erie	17	13	30	6	NA	11	3.9	5	NA	5	NA	3	NA
Forest	0	0	0	0	NA	0	NA	0	NA	0	NA	0	NA
Jefferson	2	2	4	0	NA	0	NA	2	NA	0	NA	2	NA
Lawrence	8	6	14	4	NA	5	NA	5	NA	0	NA	0	NA
McKean	3	2	5	1	NA	2	NA	1	NA	1	NA	0	NA
Mercer	8	1	9	2	NA	4	NA	2	NA	1	NA	0	NA
Venango	0	1	1	0	NA	0	NA	0	NA	0	NA	1	NA
Warren	6	5	11	3	NA	2	NA	5	NA	1	NA	0	NA
Southwest	511	135	646	130	4.0	305	12.6	130	4.6	56	2.1	25	1.1
Allegheny	406	63	469	102	6.9	241	21.6	89	6.9	27	2.3	10	1.0
Armstrong	3	5	8	3	NA	1	NA	4	NA	0	NA	0	NA
Beaver	26	11	37	5	NA	23	15.9	5	NA	2	NA	2	NA
Butler	8	6	14	4	NA	5	NA	4	NA	1	NA	0	NA
Cambria	8	7	15	0	NA	4	NA	3	NA	4	NA	4	NA
Fayette	17	6	23	3	NA	7	NA	5	NA	7	NA	1	NA
Greene	2	4	6	2	NA	1	NA	1	NA	0	NA	2	NA
Indiana	3	4	7	1	NA	1	NA	3	NA	1	NA	1	NA
Somerset	5	5	10	1	NA	2	NA	2	NA	3	NA	2	NA
Washington	18	9	27	3	NA	11	5.9	7	NA	5	NA	1	NA
Westmoreland	15	15	30	6	NA	9	NA	7	NA	6	NA	2	NA

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY DEATHS: HOMICIDES

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2005-2009

BLACK POPULATION BY COUNTY				WHITE POPULATION BY COUNTY				HISPANIC POPULATION BY COUNTY			
County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)
Allegheny	380	45.1	40.6-49.6 +	Allegheny	86	1.8	1.4-2.2 -	Berks	35	12.2	8.2-16.3
Chester	15	NA		Chester	25	1.1	0.7-1.6 -	Lancaster	11	NA	
Dauphin	48	21.0	15.1-27.0 -	Dauphin	25	2.6	1.6-3.7	Lehigh	33	12.8	8.4-17.1
Delaware	152	27.0	22.7-31.3	Delaware	55	2.5	1.9-3.2	Philadelphia	177	21.1	18.0-24.2 +
Montgomery	32	8.8	5.7-11.8 -	Montgomery	51	1.6	1.2-2.0 -				
Philadelphia	1,399	39.6	37.5-41.7 +	Philadelphia	297	8.2	7.3-9.2 +				
Pennsylvania	2,239	31.0	29.8-32.3	Pennsylvania	1,256	2.4	2.3-2.6	Pennsylvania	329	11.5	10.3-12.7

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2005-2009

Select Counties	Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+		
		Male	Female			All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.
County and Race	Cty. Pop.															
Allegheny	Black	13.3%	345	35	380	81.0%	93	33.4	202	118.7	63	41.0	15	12.2	7	NA
	White	83.2%	58	28	86	18.3%	8	NA	37	4.2	26	2.4	12	1.2	3	NA
Chester	Black	6.2%	10	5	15	36.6%	2	NA	8	NA	3	NA	2	NA	0	NA
	White	89.7%	12	13	25	61.0%	4	NA	6	NA	5	NA	6	NA	4	NA
Dauphin	Black	17.8%	40	8	48	64.0%	8	NA	30	63.9	5	NA	3	NA	2	NA
	White	77.5%	20	5	25	33.3%	4	NA	8	NA	6	NA	4	NA	3	NA
Delaware	Black	18.1%	134	18	152	71.4%	25	15.0	91	73.5	27	25.4	5	NA	4	NA
	White	76.4%	31	24	55	25.8%	8	NA	10	2.7	17	3.8	9	NA	11	3.1
Montgomery	Black	8.7%	27	5	32	36.0%	8	NA	16	21.0	7	NA	1	NA	0	NA
	White	84.6%	32	19	51	57.3%	4	NA	22	3.9	12	1.6	10	1.6	3	NA
Philadelphia	Black	45.8%	1,265	134	1,399	80.2%	282	25.7	741	100.6	272	40.8	82	16.0	21	5.9
	White	46.9%	252	45	297	17.0%	34	4.2	133	16.6	76	11.1	34	5.8	20	3.5
Pennsylvania	Black	10.7%	1,997	242	2,239	62.6%	470	21.5	1,193	78.1	418	30.9	121	12.6	36	5.7
	White	85.9%	836	420	1,256	35.1%	166	1.3	446	4.6	346	3.0	179	1.7	118	1.3

INJURY DEATHS: TRAUMATIC BRAIN INJURY

In 2009, among Pennsylvania residents, there were 2,170 injury deaths involving traumatic brain injury (TBI). On average, one resident died every five hours.

Injury Definition

Traumatic brain injury (TBI) includes concussions, skull fractures and other intracranial injury.

Whereas other topics in this report reflect external causes of injury, TBI represents a specific injury diagnosis. That is, a variety of external causes may cause a traumatic brain injury.

Leading causes of TBI include firearms, motor vehicle accidents and falls. These mechanisms account for almost 90 percent of TBI deaths.

HIGHLIGHTS

- *Age-adjusted rates have generally been **stable** over 2005 to 2009.*
- *Most common demographic is **white males, 20 and older.***
- *Of all Pennsylvania counties, **Bedford and Clearfield** show the highest rates.*

Trends Over Time

- The age-adjusted death rate for TBI remained stable from 2005 to 2008 at roughly 16.9 deaths per 100,000 population. However the rate dropped 9 percent, to 15.5, in 2009.
- Males showed significantly higher age-adjusted TBI death rates than females over 2005 to 2009 (rates were 24.9 and 7.3, respectively, in 2009).
- Rural males and females showed significantly higher age-adjusted TBI death rates than urban males and females over 2005 to 2009.

Demographic Trends

- White males accounted for over 60 percent of all TBI deaths in 2005 to 2009.
- Males showed significantly higher TBI death rates than females for all age groups.
- Black males showed significantly higher TBI death rates than white males for ages less than 5 and ages 15 to 39.
- White males and females showed significantly higher TBI death rates than black males and females for ages 85 and older.

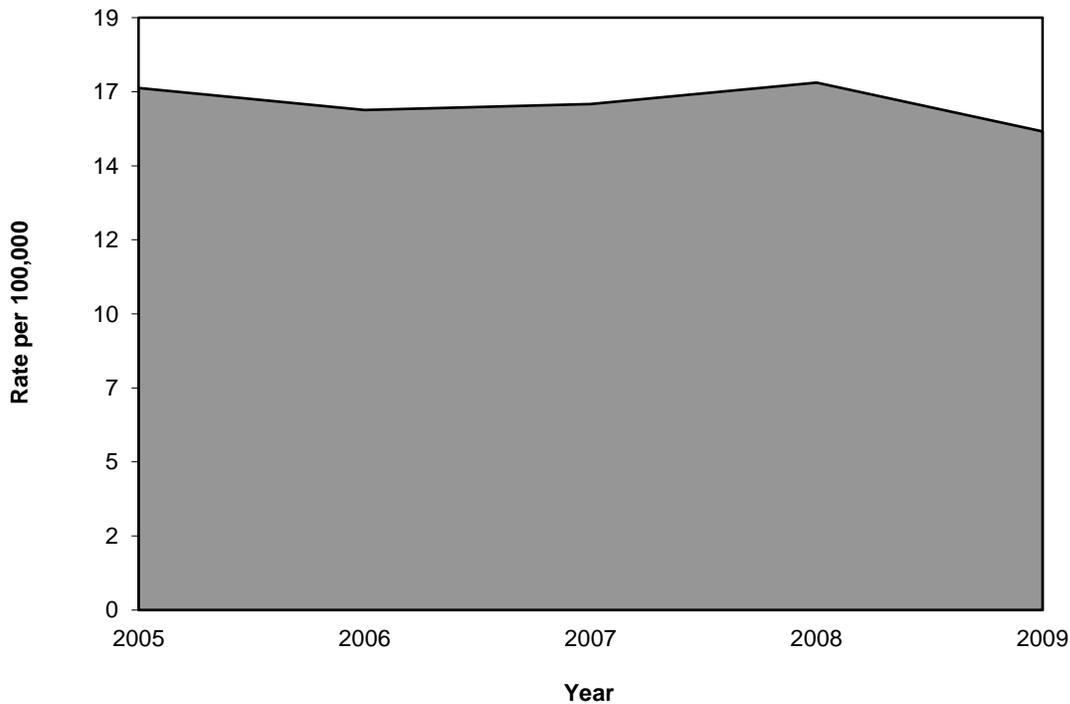
Regional Trends

- The Southwest and Northwest Health Districts showed the highest age-specific TBI death rates, while the Southeast Health District showed the lowest rates.
- Twenty-two counties showed age-adjusted TBI death rates for 2005 to 2009 that were significantly higher than the comparable state rate. Most counties were rural.

INJURY DEATHS: TRAUMATIC BRAIN INJURY

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES PENNSYLVANIA RESIDENTS, 2005-2009

Year	No.	Rate
2005	2,261	16.9
2006	2,134	16.2
2007	2,200	16.4
2008	2,328	17.1
2009	2,170	15.5



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2005-2009

Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2005	20.9	15.9	17.6	14.8	14.5	20.9
2006	19.3	17.7	14.5	14.0	15.9	20.1
2007	21.1	17.2	14.8	15.0	14.7	19.4
2008	19.4	19.0	16.2	14.4	17.1	21.3
2009	19.5	15.6	11.4	13.1	17.3	20.0

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population.

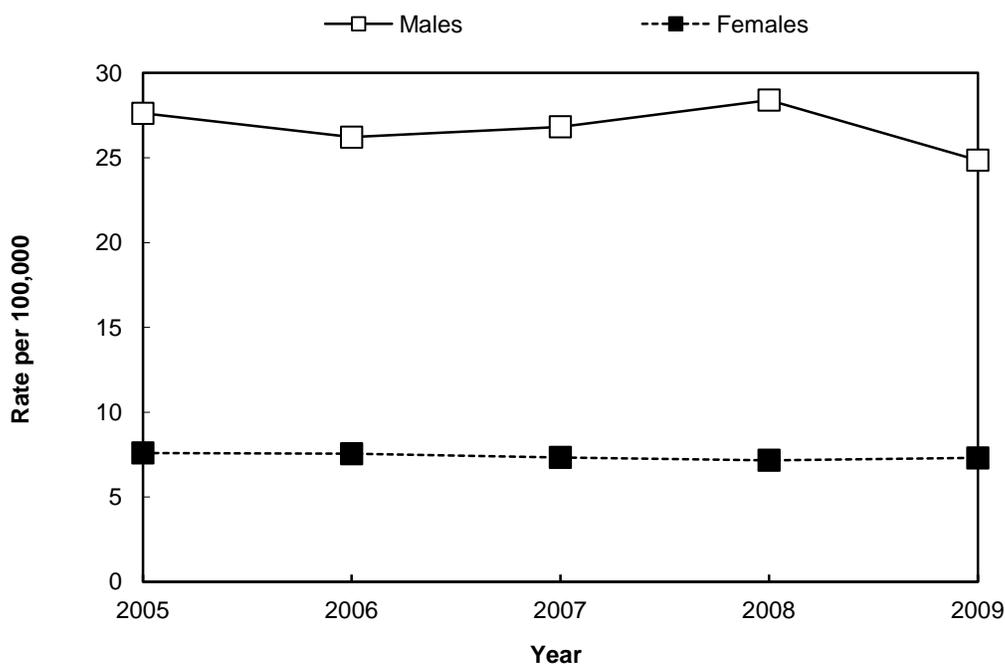
Rates are per 100,000. Data for 2005-2009 based on ICD-10 codes. See Technical Notes.

INJURY DEATHS: TRAUMATIC BRAIN INJURY

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX PENNSYLVANIA RESIDENTS, 2005-2009

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2005	1,669	27.6 *	2005	592	7.6
2006	1,554	26.2 *	2006	580	7.6
2007	1,616	26.8 *	2007	584	7.3
2008	1,743	28.4 *	2008	585	7.2
2009	1,566	24.9 *	2009	604	7.3

** denotes a statistically significant difference between groups at level of $p = .05$*



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2005-2009

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2005	25.5	33.0 *	2005	6.8	9.9 *
2006	24.9	29.6 *	2006	6.3	10.9 *
2007	24.6	32.6 *	2007	6.6	9.2 *
2008	25.8	35.0 *	2008	6.4	9.3 *
2009	22.3	31.5 *	2009	6.3	10.0 *

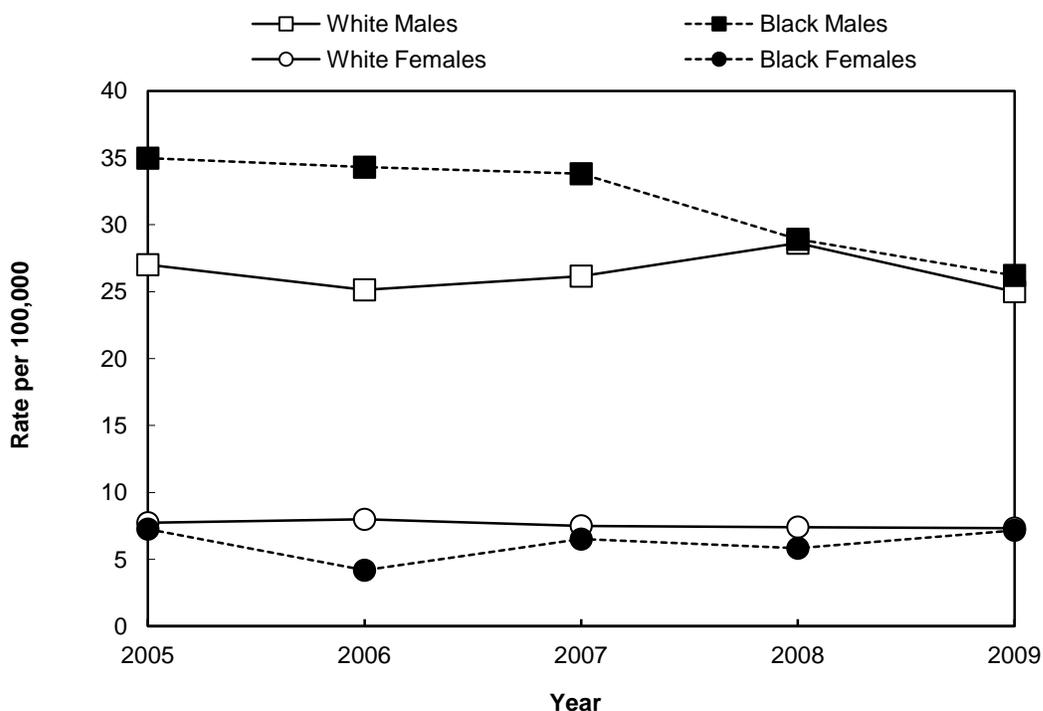
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY DEATHS: TRAUMATIC BRAIN INJURY

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX AND RACE OR ETHNICITY PENNSYLVANIA RESIDENTS, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	1,445	209	538	48	42	12
2006	1,308	222	544	29	38	6
2007	1,385	209	534	45	44	6
2008	1,552	180	540	42	55	8
2009	1,389	160	548	52	33	9



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	27.0	35.0 *	7.7	7.3	18.3	NA
2006	25.1	34.3 *	8.0	4.2 *	16.4	NA
2007	26.2	33.8 *	7.5	6.5	20.8	NA
2008	28.6	28.9	7.4	5.8	21.6	NA
2009	25.0	26.2	7.3	7.2	13.0	NA

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Hispanics may be of any race. Hispanic numbers include whites, blacks and others of Hispanic ethnicity. Therefore, Hispanics must not be compared to whites or blacks, as the groups are not mutually exclusive.

INJURY DEATHS: TRAUMATIC BRAIN INJURY

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2005-2009

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	11,093	17.8	8,148	26.9	2,945	9.2	7,274	16.1	3,819	22.3
< 5	118	3.2	77	4.1	41	2.3 *	68	2.5	50	5.4 *
5-9	48	1.3	32	1.6	16	0.9 *	25	0.9	23	2.3 *
10-14	80	2.0	61	3.0	19	1.0 *	44	1.5	36	3.4 *
15-19	607	13.1	476	20.4	131	5.7 *	396	11.9	211	16.1 *
20-24	916	20.8	774	34.7	142	6.6 *	622	19.7	294	23.7 *
25-29	678	18.5	565	30.2	113	6.3 *	451	16.5	227	24.3 *
30-34	549	14.6	449	23.8	100	5.4 *	345	12.5	204	20.5 *
35-39	617	15.1	500	24.6	117	5.7 *	398	13.3	219	20.0 *
40-44	698	15.6	556	25.1	142	6.3 *	415	12.7	283	23.5 *
45-49	764	16.5	642	28.2	122	5.2 *	491	14.6	273	21.6 *
50-54	756	17.1	646	29.8	110	4.9 *	482	15.1	274	22.3 *
55-59	612	15.5	491	25.8	121	5.9 *	403	14.3	209	18.6 *
60-64	486	14.8	381	24.4	105	6.1 *	319	13.8	167	17.3 *
65-69	448	17.0	340	28.3	108	7.6 *	302	16.5	146	18.4
70-74	495	22.1	360	36.9	135	10.7 *	299	19.1	196	29.3 *
75-79	783	41.3	520	67.6	263	23.4 *	540	40.5	243	43.4
80-84	1,034	72.7	611	114.2	423	47.6 *	700	69.1	334	81.5 *
85 +	1,402	103.7	665	164.9	737	77.7 *	972	100.3	430	112.3 *

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY DEATHS: TRAUMATIC BRAIN INJURY

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2005-2009

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	7,079	27.2	980	31.0	2,704	9.8	216	6.2	253	8.9
< 5	49	3.2	23	9.0	29	2.0	11	4.4	9	NA
5-9	26	1.6	6	NA	16	1.1	0	NA	1	NA
10-14	48	2.8	11	3.9	14	0.9	5	NA	4	NA
15-19	327	17.0	144	46.7	118	6.2	10	3.3	16	5.7
20-24	589	32.0	172	58.4	113	6.3	27	9.3	47	19.0
25-29	433	28.1	121	48.7	92	6.3	17	6.9	36	15.7
30-34	358	22.7	87	39.8	84	5.4	13	5.7	31	14.5
35-39	417	24.0	79	37.0	103	5.9	12	5.1	18	8.5
40-44	485	25.2	62	28.8	127	6.6	14	5.7	14	7.4
45-49	577	28.7	59	28.7	107	5.2	14	5.9	16	9.6
50-54	587	30.3	53	30.0	105	5.3	5	NA	12	9.9
55-59	445	25.9	43	30.5	106	5.9	15	8.3	11	11.6
60-64	362	25.5	17	16.0	99	6.4	6	NA	8	NA
65-69	322	29.2	16	21.1	98	7.6	8	NA	7	NA
70-74	338	37.6	20	33.1	122	10.6	12	12.7	5	NA
75-79	490	68.5	25	56.9	247	23.9	13	16.9	9	NA
80-84	578	116.1	29	95.9	408	49.8	14	23.5	2	NA
85 +	647	173.3	13	53.2	716	81.8	20	32.5	7	NA

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Hispanics may be of any race; therefore, their rates must not be compared to whites or blacks.

INJURY DEATHS: TRAUMATIC BRAIN INJURY

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2005-2009

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	1,010	21.7	619	18.2	1,270	16.3	3,739	15.1	1,367	16.8	3,088	22.7
< 5	14	5.4 +	9	NA	12	2.8	31	1.9 -	13	2.7	39	5.4 +
5-9	6	NA	5	NA	6	NA	12	0.7	8	NA	11	1.4
10-14	10	3.3	5	NA	7	NA	22	1.3 -	15	2.8	21	2.5
15-19	51	14.4	34	10.7	56	9.7 -	219	11.8	78	13.6	169	17.6 +
20-24	70	22.0	53	14.9 -	115	21.4	329	18.7 -	105	19.8	244	27.4 +
25-29	53	20.3	37	21.3	73	16.6	244	15.7 -	77	15.9	194	26.0 +
30-34	65	23.9 +	34	17.7	47	10.3 -	172	11.1 -	63	12.7	168	21.6 +
35-39	59	20.3 +	37	17.9	77	15.2	187	11.1 -	85	15.6	172	20.0 +
40-44	74	23.0 +	35	15.5	79	14.2	244	13.5 -	96	16.2	170	17.7
45-49	58	17.0	48	20.5	76	13.1 -	281	15.4	87	14.3	214	20.7 +
50-54	83	25.1 +	34	14.9	104	18.6	244	14.3 -	92	15.8	199	19.6
55-59	50	16.7	43	20.8	73	14.3	214	14.4	67	12.6	165	18.1 +
60-64	52	20.3 +	31	17.5	56	12.7	166	13.7	56	12.8	125	16.5
65-69	47	22.2	20	13.3	61	17.3	139	14.7	59	16.6	122	20.0
70-74	48	26.2	28	22.1	51	17.3	162	20.2	73	24.9	133	24.7
75-79	69	44.3	45	43.2	102	41.7	236	35.0 -	102	42.5	229	48.2 +
80-84	96	83.2	54	70.4	126	69.8	341	66.9	130	75.6	287	77.9
85 +	105	99.0	67	95.0	149	87.5 -	494	100.0	161	102.6	426	120.4 +

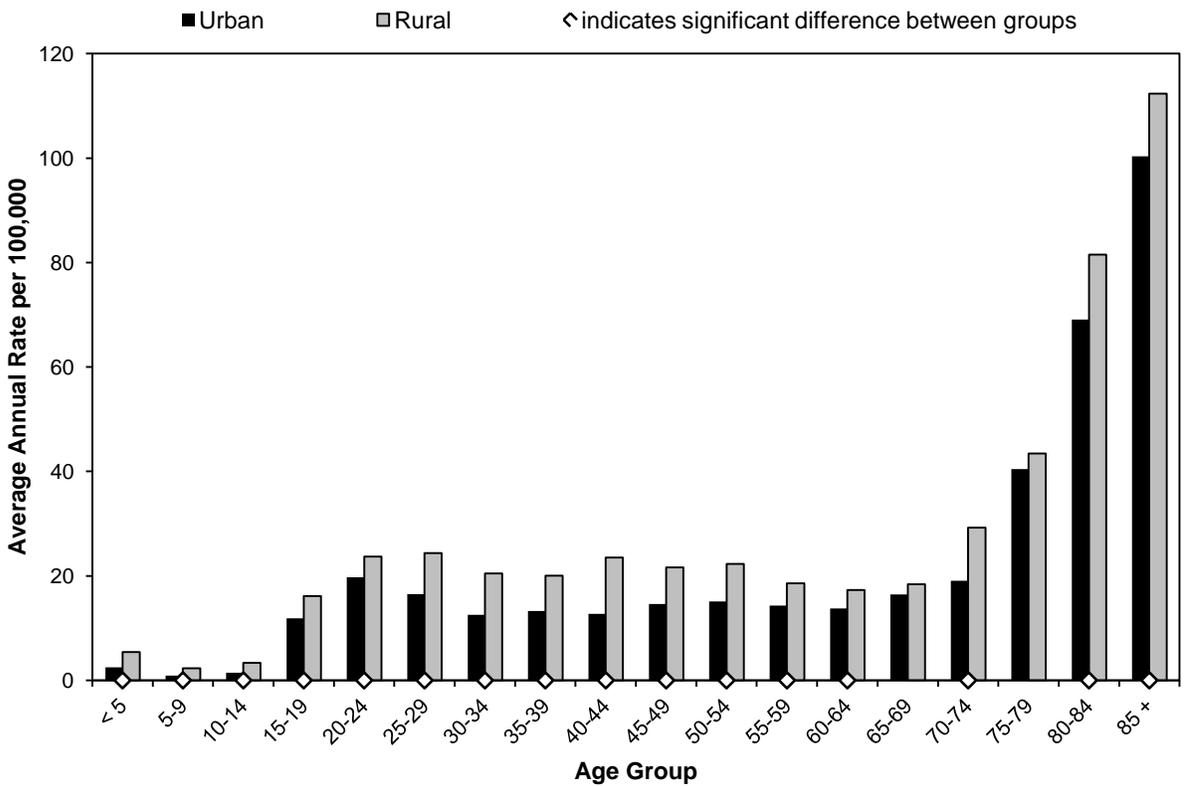
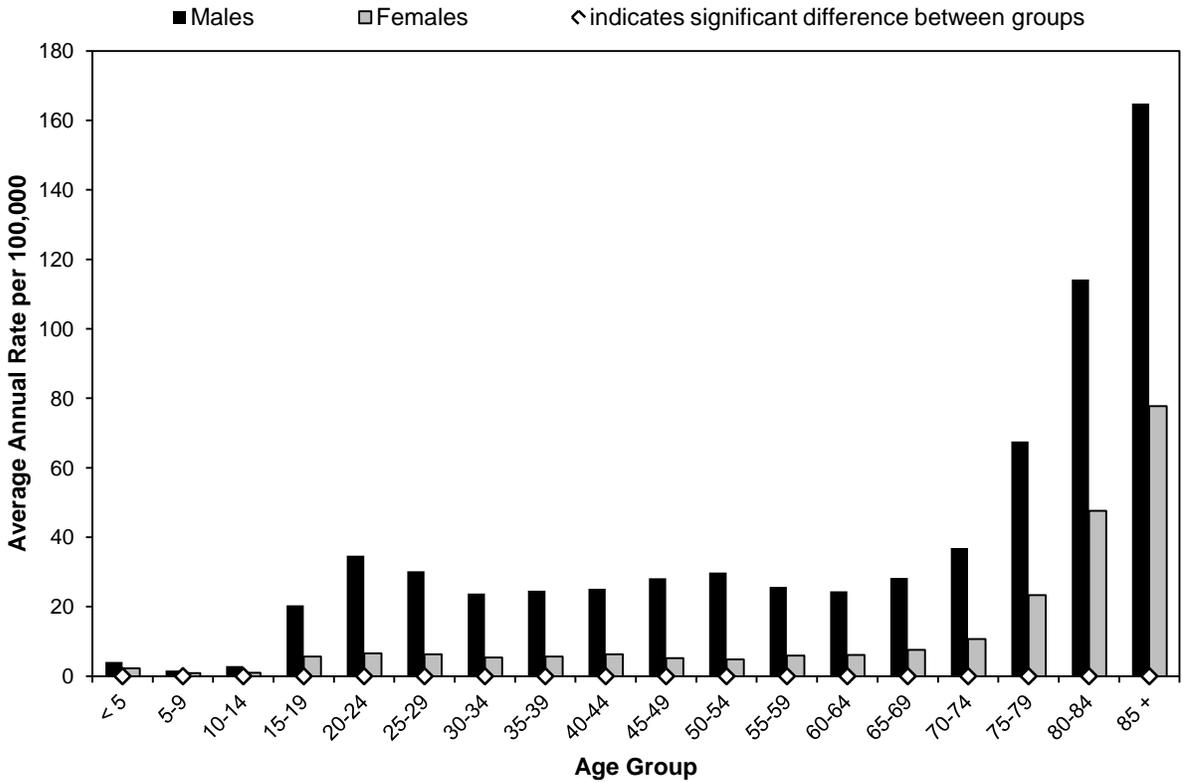
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total.

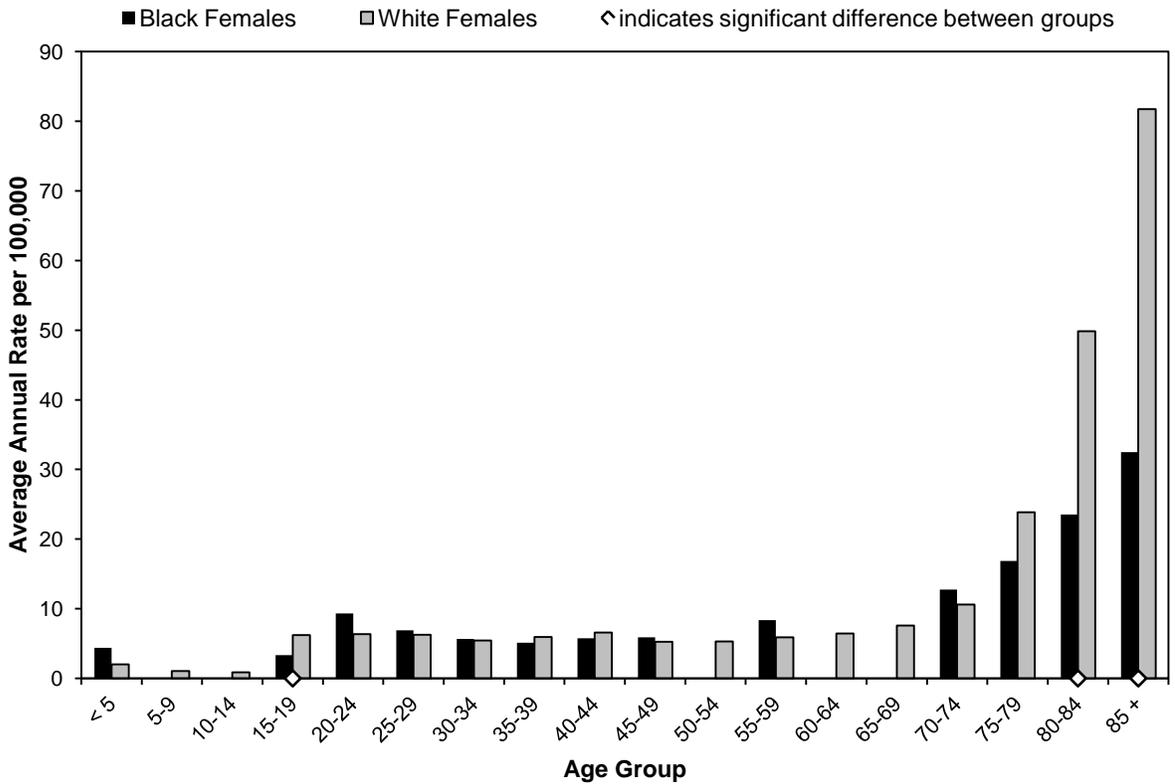
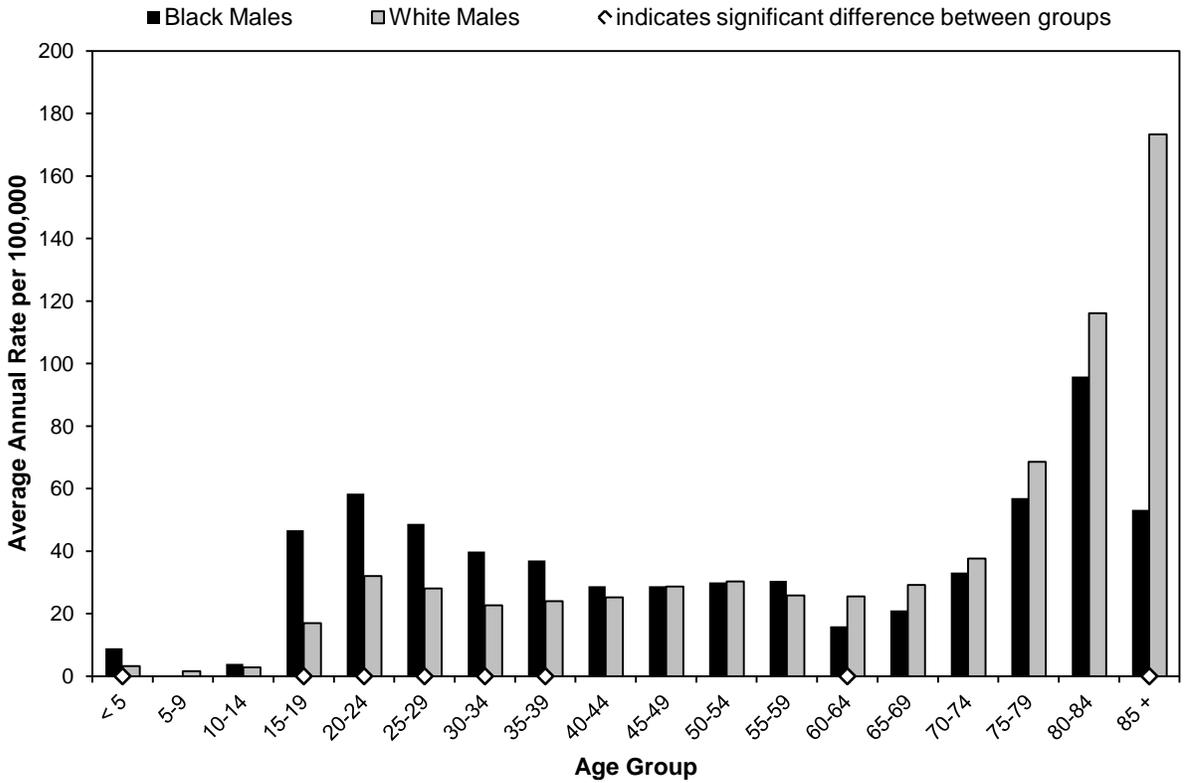
INJURY DEATHS: TRAUMATIC BRAIN INJURY

AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2005-2009



INJURY DEATHS: TRAUMATIC BRAIN INJURY

AVERAGE ANNUAL DEATH RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2005-2009



INJURY DEATHS: TRAUMATIC BRAIN INJURY

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2005-2009

District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
Northeast	1,270	14.9	14.1-15.7 -	Southeast	3,739	14.2	13.8-14.7 -
Carbon	71	19.8	15.2-24.4	Berks	429	20.5	18.5-22.4 +
Lackawanna	160	13.3	11.2-15.3 -	Bucks	389	12.2	11.0-13.4 -
Lehigh	284	15.5	13.7-17.3	Chester	274	11.4	10.1-12.8 -
Luzerne	243	13.9	12.2-15.7 -	Delaware	409	13.3	12.0-14.6 -
Monroe	135	16.6	13.8-19.4	Lancaster	335	12.8	11.4-14.2 -
Northampton	206	12.8	11.1-14.6 -	Montgomery	479	11.1	10.1-12.1 -
Pike	41	12.8	8.9-16.7	Philadelphia	1,236	16.1	15.2-17.0
Susquehanna	39	17.5	12.0-23.0	Schuylkill	188	22.6	19.4-25.8 +
Wayne	62	24.0	18.0-30.0 +				
Wyoming	29	20.5	13.0-27.9				
North Central	619	17.0	15.7-18.3	South Central	1,367	15.9	15.0-16.7
Bradford	56	17.3	12.7-21.8	Adams	89	17.1	13.6-20.7
Centre	104	16.2	13.1-19.3	Bedford	76	30.1	23.3-36.8 +
Clinton	46	24.6	17.5-31.7 +	Blair	153	22.0	18.5-25.4 +
Columbia	65	18.8	14.3-23.4	Cumberland	173	13.9	11.9-16.0 -
Lycoming	100	15.5	12.5-18.6	Dauphin	169	12.4	10.5-14.3 -
Montour	17	NA		Franklin	133	17.6	14.6-20.6
Northumberland	99	19.5	15.7-23.4	Fulton	18	NA	
Potter	15	NA		Huntingdon	53	22.7	16.6-28.8
Snyder	26	12.4	7.7-17.2	Juniata	28	24.2	15.2-33.2
Sullivan	6	NA		Lebanon	69	10.1	7.7-12.5 -
Tioga	39	17.2	11.8-22.6	Mifflin	42	17.2	12.0-22.4
Union	46	19.6	14.0-25.3	Perry	45	20.8	14.7-26.9
				York	319	14.7	13.1-16.3
Northwest	1,010	20.0	18.8-21.3 +	Southwest	3,088	20.3	19.6-21.0 +
Cameron	9	NA		Allegheny	1,235	17.7	16.7-18.7
Clarion	49	25.4	18.3-32.5 +	Armstrong	97	25.8	20.6-30.9 +
Clearfield	130	29.1	24.1-34.1 +	Beaver	190	20.2	17.4-23.1 +
Crawford	106	22.1	17.9-26.3 +	Butler	193	20.1	17.3-23.0 +
Elk	52	28.8	20.9-36.6 +	Cambria	188	21.9	18.7-25.0 +
Erie	217	14.6	12.7-16.5	Fayette	209	27.8	24.0-31.5 +
Forest	7	NA		Greene	51	22.7	16.5-29.0
Jefferson	50	20.0	14.4-25.5	Indiana	118	25.1	20.6-29.6 +
Lawrence	108	20.9	16.9-24.8 +	Somerset	110	24.4	19.9-29.0 +
McKean	46	19.4	13.8-25.0	Washington	239	21.1	18.4-23.8 +
Mercer	116	18.5	15.1-21.8	Westmoreland	458	22.4	20.4-24.5 +
Venango	70	22.4	17.1-27.6 +				
Warren	50	23.8	17.2-30.4 +	Pennsylvania	11,093	16.4	16.1-16.7

NOTE: Rates based on less than 20 events are unreliable and were not calculated. See Technical Notes.

+/- denotes that the county's rate is significantly higher or lower than the state at the p=.05 level.

INJURY DEATHS: TRAUMATIC BRAIN INJURY

TOTAL NUMBER OF INJURY DEATHS AND AVERAGE ANNUAL DEATH RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2005-2009

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	8,148	2,945	11,093	853	5.3	2,143	18.1	2,079	15.8	1,854	15.9	4,162	43.6
Northeast	929	341	1,270	81	4.1	235	16.4	232	14.1	233	15.4	489	39.4
Carbon	53	18	71	4	NA	14	23.0	5	NA	22	34.3	26	48.1
Lackawanna	121	39	160	6	NA	30	15.3	24	11.5	30	15.2	70	36.8
Lehigh	185	99	284	22	5.0	50	15.7	49	13.9	38	12.0	125	48.9
Luzerne	189	54	243	15	4.2	45	15.7	56	17.1	41	13.6	86	29.9
Monroe	101	34	135	14	5.9	25	17.1	30	15.9	29	18.4	37	38.2
Northampton	148	58	206	9	NA	35	12.7	27	8.8	36	13.2	99	46.1
Pike	33	8	41	0	NA	6	NA	12	18.0	13	19.6	10	23.2
Susquehanna	32	7	39	1	NA	11	31.7	6	NA	10	21.8	11	32.9
Wayne	44	18	62	8	NA	15	35.8	16	30.2	7	NA	16	34.5
Wyoming	23	6	29	2	NA	4	NA	7	NA	7	NA	9	NA
Southeast	2,787	952	3,739	284	4.2	745	15.3	712	13.4	624	14.2	1,372	40.0
Berks	337	92	429	32	5.7	92	24.8	74	17.2	72	20.1	159	55.9
Bucks	279	110	389	20	2.5	54	10.3	77	10.4	65	10.5	173	41.1
Chester	192	82	274	14	2.0	67	15.1	49	8.8	52	11.6	92	31.3
Delaware	302	107	409	24	3.2	61	11.5	71	12.0	66	13.0	187	46.9
Lancaster	256	79	335	33	4.6	55	11.6	58	11.4	55	12.6	133	36.9
Montgomery	324	155	479	20	2.0	64	9.2	80	9.1	74	10.2	241	41.9
Philadelphia	965	271	1,236	127	6.1	315	18.6	262	18.1	214	18.2	317	33.1
Schuylkill	132	56	188	14	8.7	37	27.5	41	24.7	26	18.8	70	51.4

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	8,148	2,945	11,093	853	5.3	2,143	18.1	2,079	15.8	1,854	15.9	4,162	43.6
North Central	460	159	619	53	6.1	124	17.2	120	18.0	108	17.6	214	40.5
Bradford	40	16	56	5	NA	9	NA	15	23.2	14	23.1	13	25.2
Centre	79	25	104	9	NA	23	10.6	24	19.4	20	19.1	28	35.4
Clinton	36	10	46	3	NA	15	41.6	9	NA	9	NA	10	32.1
Columbia	51	14	65	6	NA	5	NA	14	23.6	11	19.0	29	55.2
Lycoming	71	29	100	9	NA	16	14.2	18	14.9	20	17.8	37	38.5
Montour	15	2	17	2	NA	5	NA	2	NA	4	NA	4	NA
Northumberland	73	26	99	9	NA	23	30.3	15	15.4	12	13.0	40	46.6
Potter	12	3	15	0	NA	7	NA	2	NA	2	NA	4	NA
Snyder	16	10	26	3	NA	3	NA	4	NA	3	NA	13	47.9
Sullivan	5	1	6	0	NA	0	NA	1	NA	1	NA	4	NA
Tioga	28	11	39	6	NA	6	NA	5	NA	7	NA	15	42.2
Union	34	12	46	1	NA	12	23.4	11	22.6	5	NA	17	55.6
South Central	1,009	358	1,367	114	5.4	245	16.2	268	15.3	215	13.8	525	43.1
Adams	62	27	89	8	NA	16	17.0	18	16.5	9	NA	38	53.4
Bedford	59	17	76	11	17.9	13	30.8	19	36.0	11	22.4	22	50.7
Blair	113	40	153	7	NA	27	23.8	30	23.5	28	22.7	61	55.7
Cumberland	124	49	173	15	5.1	27	11.7	36	15.3	23	11.0	72	41.7
Dauphin	127	42	169	8	NA	32	13.9	27	9.4	33	13.0	69	39.0
Franklin	99	34	133	10	5.3	20	15.4	31	21.9	21	15.9	51	43.8
Fulton	16	2	18	3	NA	6	NA	3	NA	1	NA	5	NA
Huntingdon	33	20	53	8	NA	11	23.7	13	26.2	7	NA	14	39.4
Juniata	25	3	28	3	NA	6	NA	9	NA	4	NA	6	NA
Lebanon	54	15	69	7	NA	15	12.1	10	7.8	14	11.6	23	21.8
Mifflin	31	11	42	4	NA	10	25.7	6	NA	4	NA	18	43.5
Perry	34	11	45	4	NA	9	NA	18	36.1	2	NA	12	41.9
York	232	87	319	26	4.7	53	13.7	48	10.0	58	14.5	134	46.9

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	8,148	2,945	11,093	853	5.3	2,143	18.1	2,079	15.8	1,854	15.9	4,162	43.6
Northwest	754	256	1,010	81	6.8	188	22.1	191	20.0	185	20.9	365	47.3
Cameron	7	2	9	0	NA	1	NA	4	NA	2	NA	2	NA
Clarion	36	13	49	3	NA	13	33.2	14	37.2	5	NA	14	41.9
Clearfield	92	38	130	16	17.5	23	30.7	22	23.9	25	30.8	44	60.9
Crawford	82	24	106	11	9.3	15	18.9	21	23.9	21	24.1	38	53.3
Elk	43	9	52	3	NA	12	47.2	10	27.3	10	31.1	17	56.5
Erie	170	47	217	11	2.9	46	16.1	38	13.3	43	17.1	79	39.3
Forest	3	4	7	2	NA	0	NA	2	NA	0	NA	3	NA
Jefferson	36	14	50	4	NA	9	NA	9	NA	9	NA	19	46.4
Lawrence	73	35	108	7	NA	18	23.7	18	19.5	21	23.8	44	51.8
McKean	34	12	46	3	NA	12	30.2	6	NA	8	NA	17	45.9
Mercer	83	33	116	11	7.2	22	21.8	22	18.7	18	16.1	43	41.1
Venango	52	18	70	5	NA	8	NA	13	23.1	17	29.8	27	56.7
Warren	43	7	50	5	NA	9	NA	12	27.9	6	NA	18	48.7
Southwest	2,209	879	3,088	240	7.3	606	25.1	556	19.5	489	18.2	1,197	51.0
Allegheny	882	353	1,235	96	6.5	250	22.4	188	14.7	187	15.8	514	49.3
Armstrong	74	23	97	6	NA	15	27.9	27	36.8	10	14.2	39	61.3
Beaver	141	49	190	16	7.8	48	33.2	34	18.5	28	15.7	64	40.1
Butler	130	63	193	16	6.5	40	24.7	38	18.8	32	18.5	67	50.6
Cambria	140	48	188	10	6.0	36	28.1	33	22.1	26	17.9	83	60.3
Fayette	149	60	209	23	13.5	49	40.2	41	26.7	38	25.4	58	45.6
Greene	31	20	51	4	NA	16	40.5	2	NA	10	24.7	19	63.6
Indiana	90	28	118	11	9.5	23	24.8	19	23.3	26	32.0	39	56.6
Somerset	82	28	110	11	12.8	13	18.3	22	26.0	18	23.7	46	63.6
Washington	164	75	239	15	6.0	37	19.9	56	26.4	39	18.9	92	51.7
Westmoreland	326	132	458	32	7.7	79	26.2	96	24.7	75	19.9	176	52.6

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY DEATHS: TRAUMATIC BRAIN INJURY

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2005-2009

BLACK POPULATION BY COUNTY				WHITE POPULATION BY COUNTY				HISPANIC POPULATION BY COUNTY			
County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)
Allegheny	262	32.0	28.1-35.9 +	Allegheny	967	15.4	14.4-16.4	Berks	29	12.6	8.0-17.2
Chester	16	NA		Chester	256	11.8	10.4-13.3 -	Lancaster	18	NA	
Dauphin	27	13.2	8.2-18.1	Dauphin	141	12.4	10.3-14.4 -	Lehigh	24	11.5	6.9-16.1
Delaware	78	16.0	12.4-19.5	Delaware	323	12.5	11.2-13.9 -	Philadelphia	98	15.3	12.3-18.3 +
Montgomery	36	11.2	7.5-14.8 -	Montgomery	427	11.2	10.1-12.3 -				
Philadelphia	603	17.9	16.5-19.4	Philadelphia	601	15.4	14.2-16.6				
Pennsylvania	1,196	18.0	17.0-19.0	Pennsylvania	9,783	16.3	16.0-16.7	Pennsylvania	253	10.8	9.5-12.1

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2005-2009

Select Counties	Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+		
		Male	Female			All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.
County and Race	Cty. Pop.															
Allegheny	Black	13.3%	204	58	262	21.2%	54	19.4	106	62.3	45	29.3	26	21.2	31	34.3
	White	83.2%	673	294	967	78.3%	42	3.7	139	15.6	142	13.1	161	15.5	483	51.4
Chester	Black	6.2%	12	4	16	5.8%	1	NA	10	28.3	0	NA	3	NA	2	NA
	White	89.7%	179	77	256	93.4%	13	2.1	56	14.4	49	9.7	49	11.9	89	32.6
Dauphin	Black	17.8%	24	3	27	16.0%	3	NA	10	21.3	6	NA	2	NA	6	NA
	White	77.5%	102	39	141	83.4%	5	NA	22	12.9	20	8.8	31	14.7	63	40.7
Delaware	Black	18.1%	68	10	78	19.1%	10	6.0	30	24.2	18	17.0	8	NA	12	31.1
	White	76.4%	227	96	323	79.0%	14	2.6	31	8.3	51	11.4	55	13.1	172	49.0
Montgomery	Black	8.7%	30	6	36	7.5%	5	NA	10	13.1	7	NA	7	NA	7	NA
	White	84.6%	282	145	427	89.1%	13	1.6	53	9.4	69	9.4	64	10.1	228	43.2
Philadelphia	Black	45.8%	493	110	603	48.8%	97	8.9	217	29.4	128	19.2	74	14.4	87	24.3
	White	46.9%	444	157	601	48.6%	24	3.0	87	10.9	131	19.2	139	23.5	220	39.0
Pennsylvania	Black	10.7%	980	216	1,196	10.8%	210	9.6	437	28.6	240	17.8	139	14.5	170	26.8
	White	85.9%	7,079	2,704	9,783	88.2%	627	4.7	1,669	17.1	1,816	16.0	1,704	16.4	3,966	45.3

Injury Hospitalizations 2009

INJURY HOSPITALIZATIONS: ALL INJURIES

In 2009, among Pennsylvania residents, there were 146,390 hospitalizations due to injury. On average, one resident was hospitalized every four minutes.

Injury Definition

Injury includes both unintentional injuries and self-inflicted or assault injuries (violence).

- Unintentional injuries, or accidents, occur by chance; however, one can reduce the risk of injury by taking proper precautions.
- Violence, in contrast, entails premeditated harm against oneself (self-inflicted injury) or against another person (assault injury).

Most injury hospitalizations in PA are unintentional.

HIGHLIGHTS

- *Age-adjusted rates have generally been **stable** over 2005 to 2009.*
- *Most common demographic is **white females**, 40 and older.*
- *Of all Pennsylvania counties, **Philadelphia** shows the highest rate.*

Trends Over Time

- The age-adjusted injury hospitalization rate increased from 2005 to 2007, from 1,009.9 to 1,074.3 hospitalizations per 100,000 population. Rates then decreased to 1,020.4 hospitalizations per 100,000 population in 2009.
- Males showed significantly higher age-adjusted injury hospitalization rates than females over 2005 to 2009, although females consistently showed the greater number of events.
- Black males and females showed significantly higher age-adjusted injury hospitalization rates than white males and females over 2005 to 2009.

Demographic Trends

- Males showed significantly higher injury hospitalization rates for ages less than 65, while females showed significantly higher rates for ages 70 and older.
- Blacks showed significantly higher injury hospitalization rates for ages less than 70, while whites showed significantly higher rates for ages 80 and older.

Regional Trends

- The Southeast Health District showed the highest age-specific injury hospitalization rates, while the North Central and South Central Health Districts showed the lowest rates. However, other districts showed high rates for certain age groups.
- Seventeen counties showed age-adjusted injury hospitalization rates for 2009 that were significantly higher than the comparable state rate. These counties appeared in two broad clusters, in the northeast and in the west, as well as the Philadelphia region.

SUMMARY TABLE: ALL INJURY HOSPITALIZATIONS

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES, MECHANISM BY INTENT OR BRAIN INJURY, PENNSYLVANIA RESIDENTS, 2009

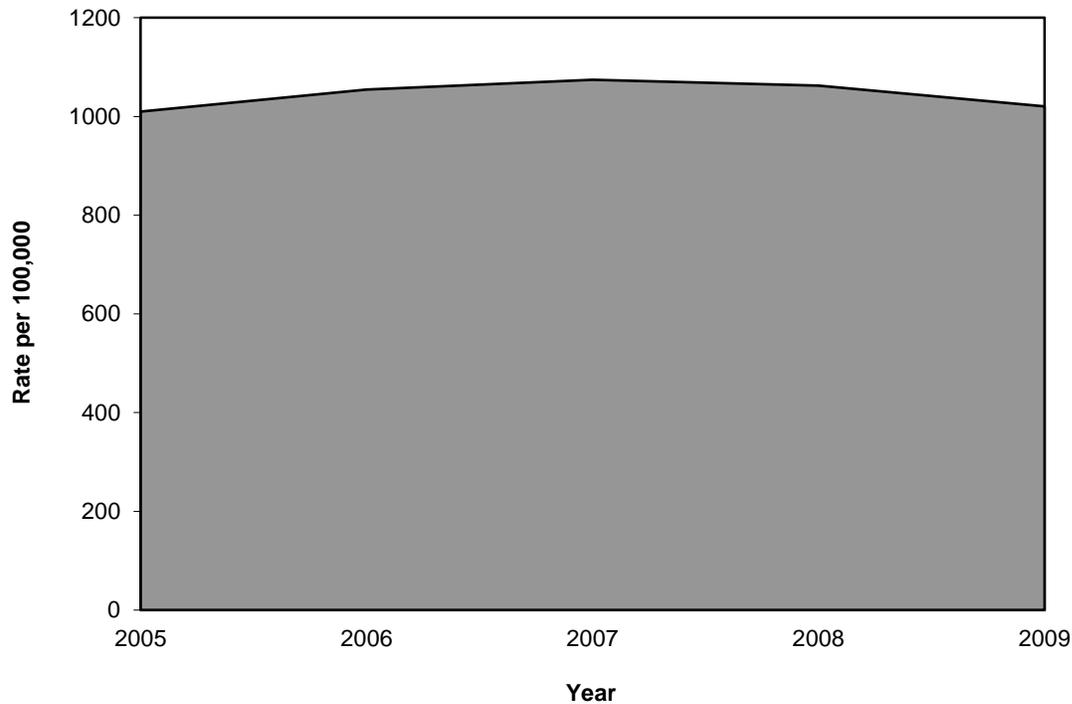
Injury Mechanism	Unintentional		Self-Inflicted		Assault		Undetermined		Total (All Intents)		95% CI (for total rate)	TBI No.
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
Fall	68,786	436.7	73	0.6	12	NA	51	0.4	68,922	437.8	(434.5 - 441.1)	9,705
→ On same level	21,548	136.0	0		0		0		21,548	136.0	(134.2 - 137.9)	2,109
→ One level to another	16,114	108.5	73	0.6	12	NA	51	0.4	16,250	109.7	(108.0 - 111.3)	3,326
→ Unspecified	31,124	192.1	0		0		0		31,124	192.1	(190.0 - 194.2)	4,270
Poisoning	6,882	52.2	7,837	63.9	13	NA	2,171	17.2	16,904	133.4	(131.4 - 135.4)	52
→ Drug	5,722	43.3	7,489	61.1	10	NA	1,887	15.0	15,108	119.4	(117.5 - 121.4)	37
→ Non-Drug	1,160	8.9	348	2.8	3	NA	284	2.2	1,796	14.0	(13.3 - 14.6)	15
Motor Vehicle Traffic	12,264	94.2	20	0.2	11	NA	8	NA	12,303	94.5	(92.8 - 96.2)	4,451
→ MVT Occupant	8,297	63.0	20	0.2	11	NA	8	NA	8,336	63.3	(61.9 - 64.7)	3,092
→ MVT Motorcyclist	1,594	12.7	0		0		0		1,594	12.7	(12.1 - 13.4)	529
→ MVT Pedal Cyclist	296	2.4	0		0		0		296	2.4	(2.2 - 2.7)	134
→ MVT Pedestrian	1,322	10.3	0		0		0		1,322	10.3	(9.7 - 10.8)	497
→ MVT Other	85	0.7	0		0		0		85	0.7	(0.5 - 0.8)	33
→ MVT Unspecified	670	5.1	0		0		0		670	5.1	(4.7 - 5.4)	166
All Pedal Cyclist	1,126	9.1	0		0		0		1,126	9.1	(8.6 - 9.6)	379
All Pedestrian	1,427	11.1	0		0		0		1,427	11.1	(10.5 - 11.6)	526
Other Transport	1,979	15.5	0		0		0		1,979	15.5	(14.8 - 16.1)	487
Firearm	266	2.1	87	0.7	963	7.8	92	0.8	1,424	11.6	(11.0 - 12.2)	144
Drowning	62	0.5	3	NA	0		4	NA	69	0.6	(0.5 - 0.7)	2
Suffocation	1,701	11.2	144	1.2	10	NA	4	NA	1,859	12.5	(11.9 - 13.1)	16
Fire/Flames	774	5.9	39	0.3	3	NA	16	NA	832	6.4	(5.9 - 6.8)	6
Hot Object/Scald	1,111	8.8	5	NA	11	NA	7	NA	1,134	9.0	(8.5 - 9.5)	1
Cut/Pierce	1,444	11.3	1,172	9.6	626	5.2	33	0.3	3,277	26.4	(25.4 - 27.3)	49
Struck By/Against	3,043	22.6	0		1,982	16.1	0		5,074	39.1	(38.0 - 40.1)	1,270
Machinery	575	4.4	0		0		0		575	4.4	(4.1 - 4.8)	38
Overexertion	2,201	15.8	0		0		0		2,201	15.8	(15.1 - 16.5)	0
Nat/Env. Causes	3,313	24.6	5	NA	0		26	0.2	3,344	24.8	(23.9 - 25.6)	44
→ Bites and Stings	2,162	16.6	0		0		0		2,162	16.6	(15.9 - 17.3)	9
Other Spec./NEC	9,674	70	253	2	1,154	10	397	3	11,563	85	(83.7 - 86.8)	464
Unspecified	10,755	73.3	69	0.6	597	4.8	2,564	17.3	13,995	96.1	(94.5 - 97.7)	913
Total: All Mechanisms	125,765	856.6	9,707	79.1	5,382	44.0	5,373	39.5	146,390	1,020.4	(1,015.2 - 1,025.6)	17,916

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL INJURIES

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, 2005-2009

Year	No.	Rate
2005	138,282	1,009.9
2006	142,030	1,054.5
2007	146,260	1,074.3
2008	148,452	1,062.4
2009	146,390	1,020.4



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2005-2009

Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2005	1,010.2	764.9	1,061.9	1,069.9	829.8	1,037.2
2006	1,013.1	760.1	1,110.7	1,132.6	860.0	1,082.4
2007	1,047.7	829.4	1,124.4	1,152.1	851.4	1,108.8
2008	1,065.3	824.5	1,110.3	1,140.5	810.9	1,100.3
2009	1,013.4	793.7	1,035.1	1,117.6	793.2	1,033.9

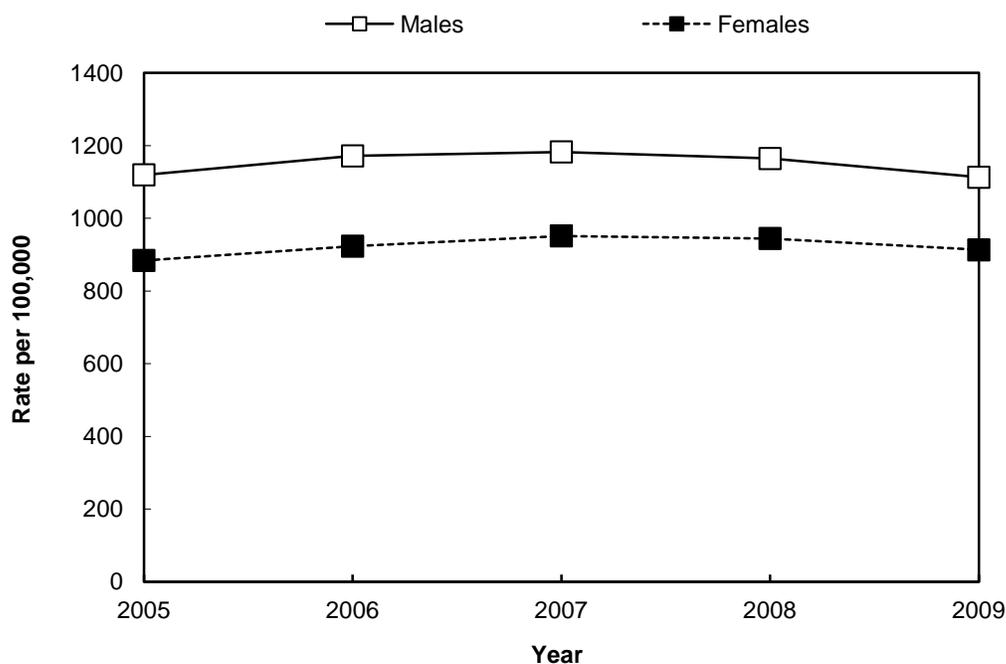
NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2005-2009 based on ICD-9-CM codes. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL INJURIES

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX PENNSYLVANIA RESIDENTS, 2005-2009

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2005	67,165	1,119.7 *	2005	71,110	884.2
2006	69,121	1,171.7 *	2006	72,902	923.4
2007	70,590	1,182.7 *	2007	75,647	951.7
2008	71,385	1,164.5 *	2008	77,023	944.6
2009	70,163	1,113.0 *	2009	76,155	913.3

* denotes a statistically significant difference between groups at level of $p = .05$



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2005-2009

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2005	1,154.3	1,031.7 *	2005	890.3	868.2 *
2006	1,223.0	1,043.6 *	2006	939.2	882.5 *
2007	1,234.8	1,052.3 *	2007	964.8	918.4 *
2008	1,200.7	1,072.2 *	2008	954.1	920.9 *
2009	1,151.1	1,016.0 *	2009	925.6	881.8 *

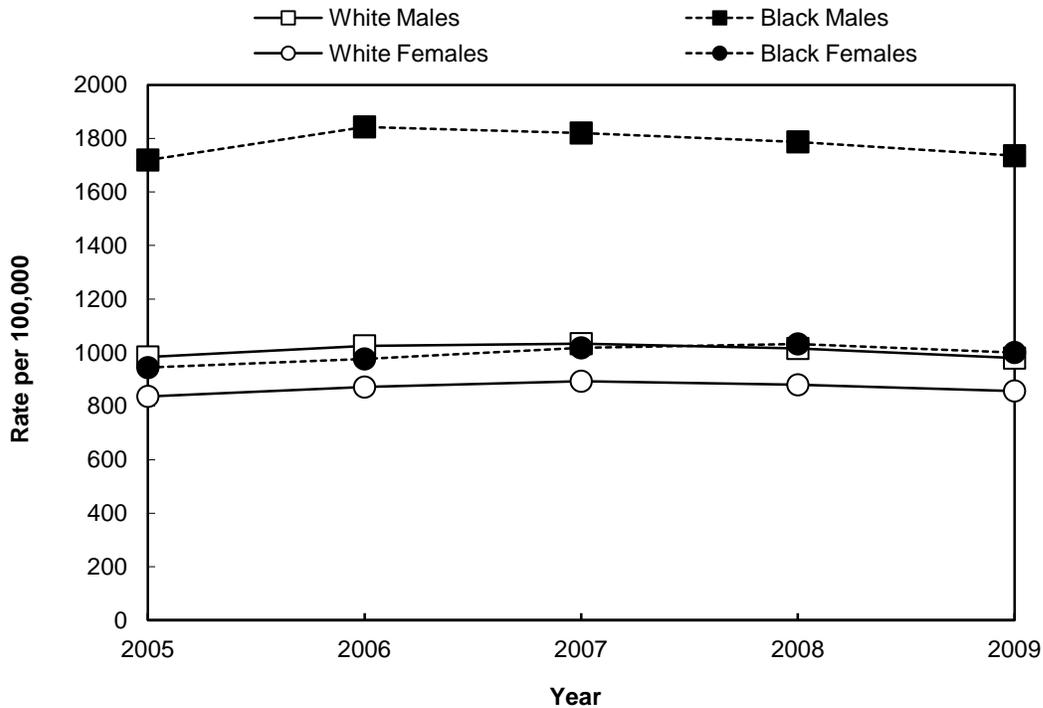
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL INJURIES

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX AND RACE OR ETHNICITY PENNSYLVANIA RESIDENTS, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	52,330	9,815	61,562	6,295	2,301	1,278
2006	53,181	10,507	62,482	6,578	2,303	1,245
2007	54,286	10,378	64,406	6,893	2,567	1,699
2008	55,035	10,313	65,170	7,120	2,856	1,915
2009	54,632	10,200	64,805	7,089	2,657	1,872



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	983.7	1,719.4 *	836.5	943.8 *	1,152.6	715.3
2006	1,025.2	1,842.9 *	871.3	976.3 *	965.0	607.7
2007	1,033.3	1,820.2 *	893.0	1,017.6 *	1,243.3	912.1
2008	1,015.4	1,787.1 *	879.6	1,032.4 *	1,354.3	974.8
2009	979.4	1,735.3 *	856.7	1,000.4 *	1,156.1	885.1

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Hispanics may be of any race. Hispanic numbers include whites, blacks and others of Hispanic ethnicity. Therefore, Hispanics must not be compared to whites or blacks, as the groups are not mutually exclusive.

INJURY HOSPITALIZATIONS: ALL INJURIES

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2009

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	146,390	1,161.4	70,163	1,145.1	76,155	1,175.7	107,783	1,174.7	38,607	1,125.7
< 5	2,311	309.4	1,356	354.8	948	259.9 *	1,863	330.8	448	243.8 *
5-9	1,311	171.9	793	203.4	515	138.1 *	1,010	177.7	301	154.8 *
10-14	1,955	244.2	1,296	317.6	654	166.7 *	1,419	239.7	536	257.1
15-19	5,501	587.1	3,491	741.2	2,005	430.3 *	3,984	589.3	1,517	581.3
20-24	6,719	744.1	4,334	945.8	2,382	535.6 *	5,073	776.5	1,646	659.2 *
25-29	5,891	778.1	3,733	961.2	2,155	584.4 *	4,396	774.0	1,495	790.6
30-34	5,214	694.6	3,233	851.1	1,972	531.8 *	3,912	707.4	1,302	658.6 *
35-39	5,697	714.7	3,445	866.8	2,247	562.2 *	4,232	721.8	1,465	694.7
40-44	6,984	804.4	4,244	986.9	2,736	624.4 *	5,213	818.3	1,771	766.1 *
45-49	8,780	958.9	5,254	1,163.5	3,518	758.1 *	6,665	996.1	2,115	858.1 *
50-54	9,592	1,068.0	5,609	1,276.9	3,979	867.1 *	7,174	1,100.4	2,418	982.1 *
55-59	8,640	1,050.3	4,761	1,196.9	3,879	913.0 *	6,469	1,094.7	2,171	936.9 *
60-64	8,024	1,147.9	4,075	1,224.4	3,944	1,077.0 *	5,858	1,181.1	2,166	1,066.8 *
65-69	7,805	1,458.8	3,640	1,475.7	4,165	1,444.4	5,516	1,478.9	2,289	1,412.4
70-74	8,749	1,978.6	3,738	1,920.3	5,010	2,024.1 *	6,219	2,008.6	2,530	1,908.7 *
75-79	11,634	3,204.1	4,498	3,014.7	7,130	3,333.4 *	8,328	3,260.7	3,306	3,069.8 *
80-84	15,527	5,600.8	5,360	5,094.6	10,164	5,908.6 *	11,321	5,762.3	4,206	5,207.9 *
85 +	26,055	7,925.1	7,302	6,932.9	18,752	8,392.3 *	19,130	8,114.1	6,925	7,445.9 *

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY HOSPITALIZATIONS: ALL INJURIES

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2009

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	54,632	1,041.1	10,200	1,570.4	64,805	1,172.6	7,089	991.4	4,534	701.3
< 5	725	235.1	369	690.0 *	509	173.5	250	480.6 *	248	326.0
5-9	510	161.3	155	294.4 *	310	102.9	119	234.1 *	109	162.3
10-14	904	271.6	250	450.7 *	456	143.1	110	204.8 *	139	224.4
15-19	2,371	613.9	727	1,165.2 *	1,508	393.7	309	504.8 *	278	413.9
20-24	2,903	772.4	941	1,520.1 *	1,730	474.3	399	664.5 *	381	685.7
25-29	2,645	830.1	685	1,289.3 *	1,594	529.5	351	684.9 *	309	616.9
30-34	2,175	689.5	635	1,369.4 *	1,444	473.4	322	677.1 *	347	740.8
35-39	2,422	720.2	674	1,560.8 *	1,700	508.7	360	766.6 *	315	657.2
40-44	3,066	827.3	835	1,955.1 *	2,059	551.6	484	1,004.5 *	315	750.4
45-49	3,795	957.8	1,058	2,545.3 *	2,721	677.9	589	1,224.0 *	329	855.9
50-54	4,183	1,069.1	1,072	2,939.6 *	3,135	780.1	653	1,469.0 *	304	1,103.6
55-59	3,699	1,031.8	777	2,622.9 *	3,135	834.1	523	1,369.2 *	222	1,015.4
60-64	3,309	1,094.4	543	2,396.1 *	3,286	1,005.2	451	1,468.8 *	212	1,492.5
65-69	3,073	1,355.5	368	2,481.3 *	3,563	1,363.2	367	1,723.7 *	198	1,946.3
70-74	3,222	1,796.4	331	2,850.3 *	4,415	1,960.1	338	1,859.1	176	2,461.2
75-79	4,012	2,902.3	280	3,270.6 *	6,461	3,293.8	381	2,562.4 *	191	3,619.5
80-84	4,867	4,995.6	250	4,040.1 *	9,377	5,949.0	383	3,143.0 *	193	5,703.3
85 +	6,750	6,961.1	250	3,721.3 *	17,402	8,480.5	700	4,585.4 *	268	7,095.6

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Hispanics may be of any race; therefore, their rates must not be compared to whites or blacks.

INJURY HOSPITALIZATIONS: ALL INJURIES

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2009

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	10,980	1,189.0	6,186	908.5	18,810	1,194.5	61,463	1,211.2	14,715	892.5	34,236	1,266.8
< 5	127	250.5 -	103	294.3	298	342.3	1,234	373.2 +	214	212.7 -	335	234.5 -
5-9	80	149.3	64	178.8	161	177.5	679	205.6 +	130	128.2 -	197	130.5 -
10-14	163	281.3	83	217.7	294	297.1 +	852	251.5	190	182.0 -	373	230.0
15-19	439	628.0	235	358.3 -	747	646.9 +	2,444	645.0 +	527	457.5 -	1,109	577.8
20-24	464	735.1	289	400.0 -	838	749.2	3,044	831.7 +	635	586.3 -	1,449	798.6 +
25-29	413	777.3	223	647.2 -	665	717.0 -	2,710	830.7 +	568	570.2 -	1,312	869.5 +
30-34	385	709.5	178	468.9 -	659	719.8	2,336	742.1 +	514	515.6 -	1,142	749.1 +
35-39	424	750.1	203	514.7 -	724	738.9	2,560	770.7 +	596	560.8 -	1,190	722.3
40-44	541	878.2 +	256	594.7 -	846	786.0	3,161	887.4 +	671	581.0 -	1,509	818.9
45-49	585	885.0	320	701.7 -	1,119	981.4	4,029	1,094.7 +	807	668.8 -	1,920	954.5
50-54	689	1,045.0	369	811.0 -	1,148	1,014.6	4,342	1,232.0 +	829	701.0 -	2,215	1,091.9
55-59	630	1,026.7	335	787.7 -	1,010	956.0 -	3,789	1,205.3 +	794	721.0 -	2,082	1,103.9 +
60-64	589	1,096.7	323	871.0 -	1,027	1,100.0	3,382	1,298.1 +	832	889.7 -	1,871	1,163.5
65-69	657	1,563.5	387	1,272.0 -	1,000	1,375.6	3,099	1,587.0 +	887	1,187.2 -	1,775	1,480.5
70-74	712	1,999.6	454	1,818.2	1,117	1,907.1	3,393	2,109.0 +	998	1,660.6 -	2,075	2,033.5
75-79	955	3,232.8	543	2,695.3 -	1,543	3,302.0	4,473	3,397.2 +	1,255	2,628.6 -	2,865	3,282.9
80-84	1,242	5,569.8	679	4,459.5 -	2,135	6,016.6 +	5,795	5,897.6 +	1,624	4,758.0 -	4,052	5,641.4
85 +	1,885	7,228.9 -	1,142	6,426.2 -	3,479	8,470.5 +	10,140	8,523.1 +	2,644	6,877.5 -	6,765	7,827.0

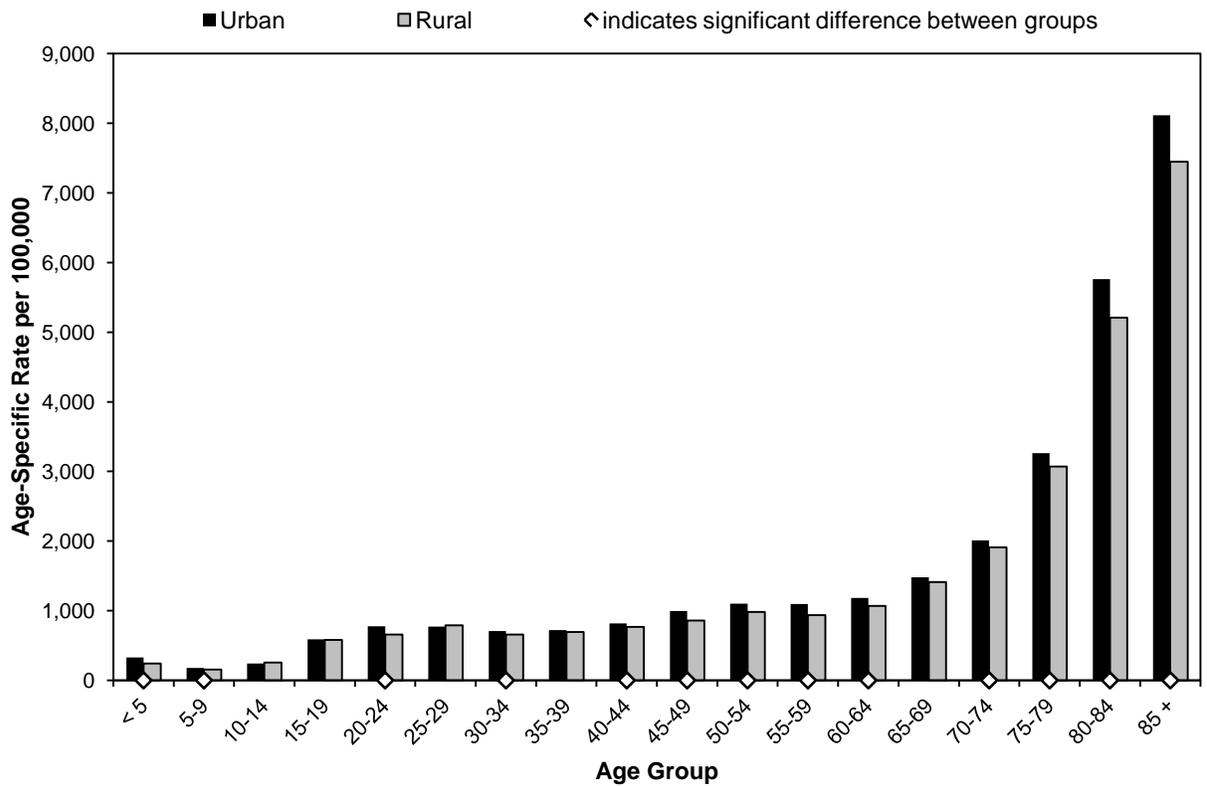
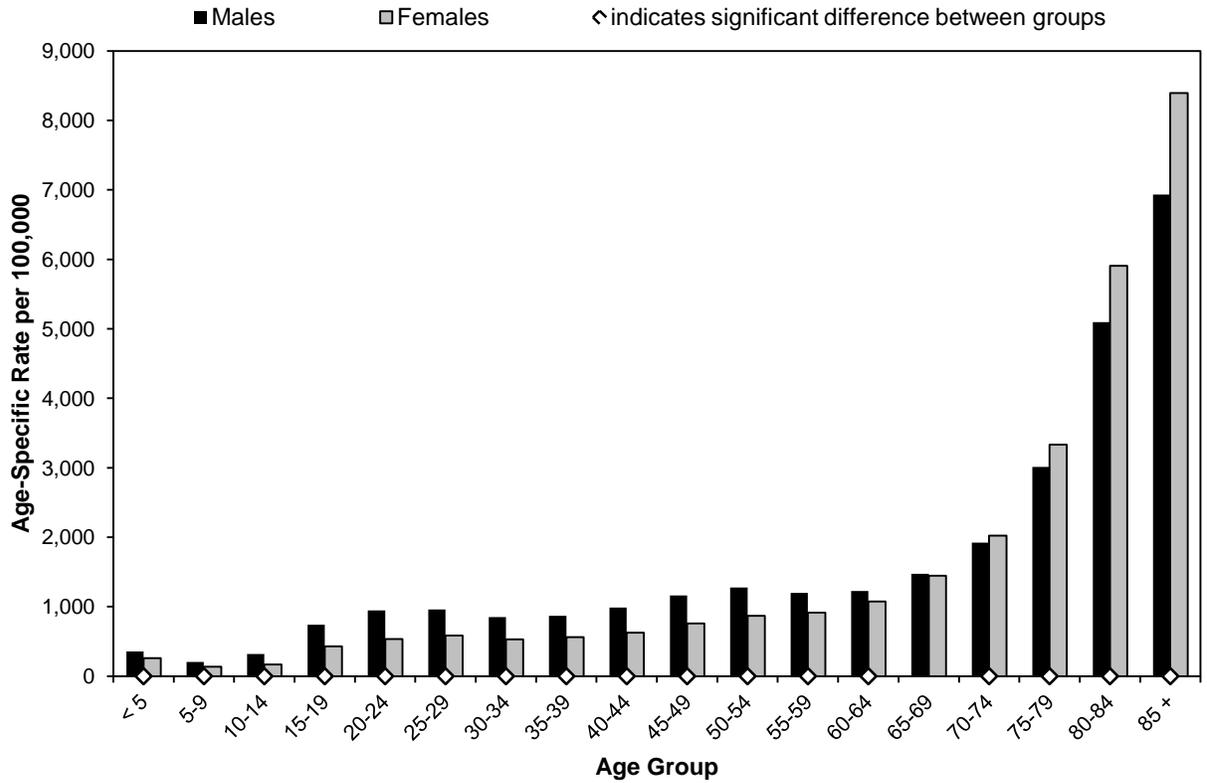
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total.

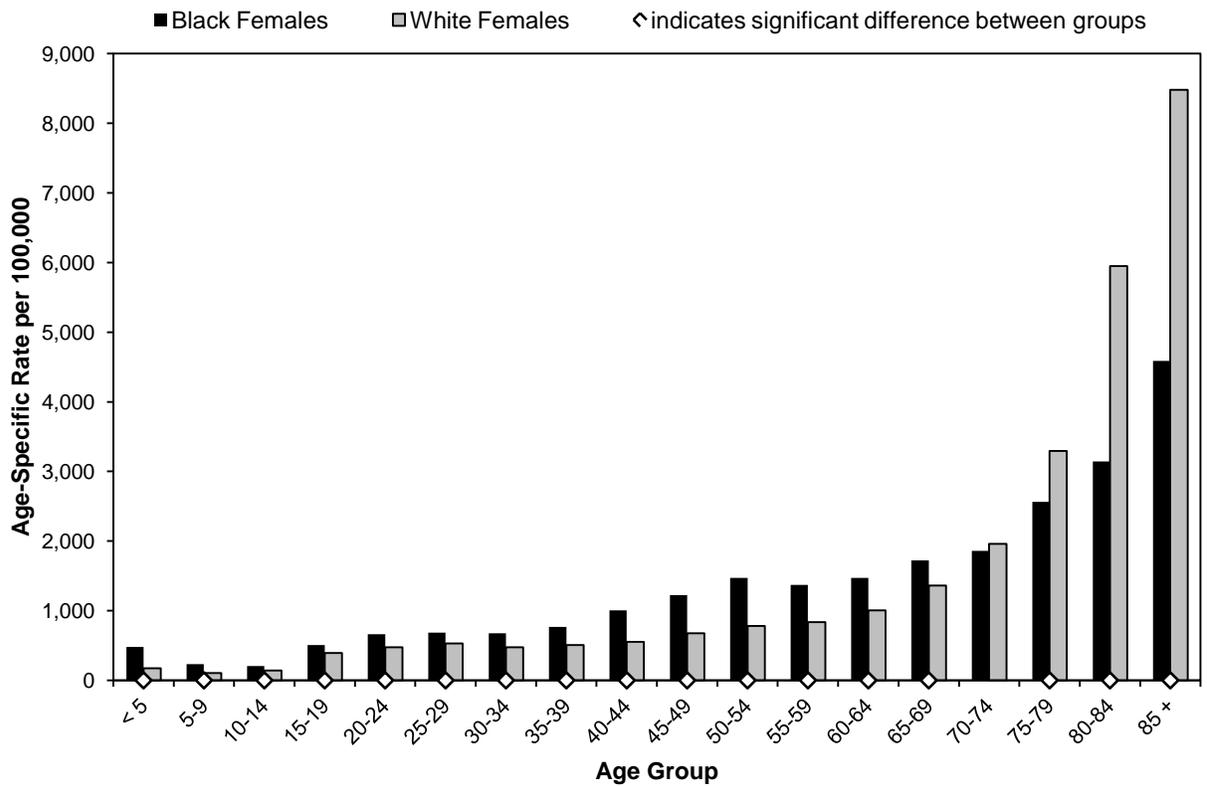
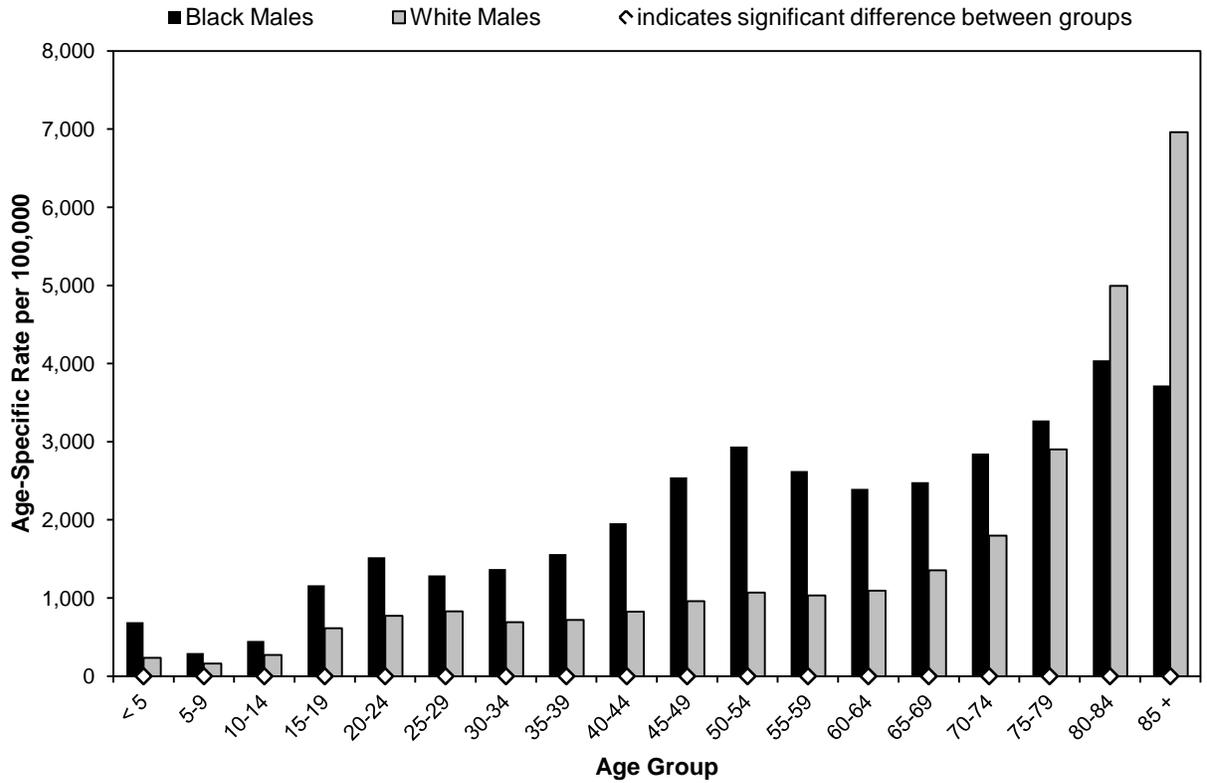
INJURY HOSPITALIZATIONS: ALL INJURIES

AGE-SPECIFIC HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS PENNSYLVANIA RESIDENTS, 2009



INJURY HOSPITALIZATIONS: ALL INJURIES

AGE-SPECIFIC HOSPITALIZATION RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2009



INJURY HOSPITALIZATIONS: ALL INJURIES

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2009

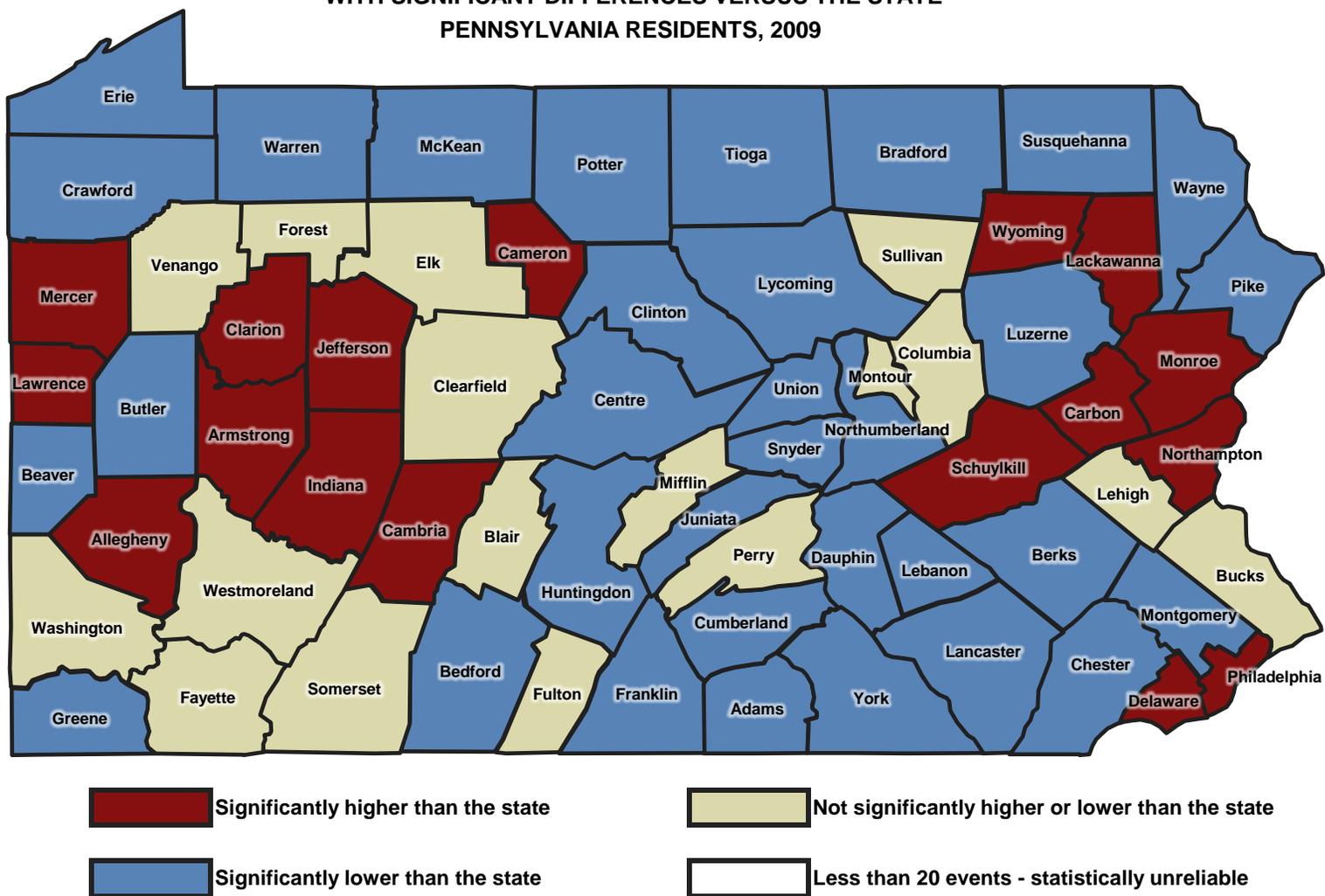
District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
Northeast	18,810	1,035.1	1,020.3-1,049.9	Southeast	61,463	1,117.6	1,108.8-1,126.4 +
Carbon	903	1,273.6	1,190.5-1,356.7 +	Berks	4,112	920.0	891.9-948.1 -
Lackawanna	2,711	1,074.5	1,034.1-1,115.0 +	Bucks	7,059	1,046.8	1,022.4-1,071.3
Lehigh	3,945	1,028.2	996.1-1,060.3	Chester	4,210	824.0	799.1-848.9 -
Luzerne	3,507	878.3	849.2-907.3 -	Delaware	8,468	1,360.9	1,331.9-1,389.9 +
Monroe	1,810	1,095.1	1,044.7-1,145.6 +	Lancaster	4,690	837.6	813.7-861.6 -
Northampton	4,383	1,295.6	1,257.3-1,334.0 +	Montgomery	8,960	987.6	967.2-1,008.1 -
Pike	314	471.9	419.7-524.1 -	Philadelphia	21,779	1,377.6	1,359.3-1,395.9 +
Susquehanna	347	720.6	644.7-796.4 -	Schuylkill	2,185	1,239.9	1,188.0-1,291.9 +
Wayne	540	887.5	812.6-962.4 -				
Wyoming	350	1,178.3	1,054.9-1,301.8 +				
North Central	6,186	793.7	774.0-813.5 -	South Central	14,715	793.2	780.3-806.0 -
Bradford	564	800.5	734.4-866.6 -	Adams	746	659.7	612.4-707.1 -
Centre	1,100	815.6	767.4-863.8 -	Bedford	423	727.7	658.4-797.1 -
Clinton	333	751.0	670.3-831.6 -	Blair	1,555	1,021.0	970.2-1,071.7
Columbia	785	1,090.5	1,014.2-1,166.8	Cumberland	2,133	789.8	756.2-823.3 -
Lycoming	1,094	780.1	733.9-826.4 -	Dauphin	2,140	769.9	737.2-802.5 -
Montour	198	989.1	851.3-1,126.8	Franklin	1,343	801.8	758.9-844.6 -
Northumberland	1,028	906.6	851.2-962.0 -	Fulton	152	896.6	754.1-1,039.2
Potter	146	736.2	616.8-855.6 -	Huntingdon	383	751.0	675.8-826.2 -
Snyder	269	623.5	549.0-698.0 -	Juniata	203	740.8	638.9-842.7 -
Sullivan	70	877.9	672.2-1,083.5	Lebanon	1,019	662.7	622.0-703.4 -
Tioga	273	579.2	510.5-647.9 -	Mifflin	532	1,014.0	927.8-1,100.2
Union	326	681.0	607.1-754.9 -	Perry	448	957.3	868.7-1,046.0
				York	3,638	789.8	764.1-815.4 -
Northwest	10,980	1,013.4	994.5-1,032.4	Southwest	34,236	1,033.9	1,022.9-1,044.8
Cameron	85	1,325.3	1,043.6-1,607.1 +	Allegheny	15,904	1,065.1	1,048.5-1,081.6 +
Clarion	495	1,154.6	1,052.9-1,256.3 +	Armstrong	944	1,163.2	1,089.0-1,237.4 +
Clearfield	1,010	1,052.0	987.1-1,116.9	Beaver	1,860	900.2	859.3-941.1 -
Crawford	957	936.7	877.3-996.0 -	Butler	1,987	941.0	899.7-982.4 -
Elk	379	990.9	891.1-1,090.6	Cambria	2,133	1,157.1	1,108.0-1,206.2 +
Erie	2,630	849.3	816.9-881.8 -	Fayette	1,768	1,039.2	990.8-1,087.7
Forest	88	1,101.8	871.6-1,332.0	Greene	294	648.4	574.3-722.6 -
Jefferson	657	1,255.8	1,159.7-1,351.8 +	Indiana	1,187	1,220.2	1,150.8-1,289.6 +
Lawrence	1,308	1,141.7	1,079.9-1,203.6 +	Somerset	945	974.7	912.5-1,036.8
McKean	407	772.6	697.5-847.6 -	Washington	2,579	1,017.8	978.5-1,057.1
Mercer	1,901	1,352.8	1,292.0-1,413.6 +	Westmoreland	4,635	1,021.9	992.4-1,051.3
Venango	685	1,064.4	984.7-1,144.1				
Warren	378	775.5	697.3-853.6 -	Pennsylvania	146,390	1,020.4	1,015.2-1,025.6

NOTE: Rates based on less than 20 events are unreliable and were not calculated. See Technical Notes.

+/- denotes that the county's rate is significantly higher or lower than the state at the p=.05 level.

INJURY HOSPITALIZATIONS: ALL INJURIES

AGE-ADJUSTED HOSPITALIZATION RATES BY COUNTY,
WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE
PENNSYLVANIA RESIDENTS, 2009



NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL INJURIES

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2009

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	70,163	76,155	146,390	11,078	341.2	17,824	739.4	21,461	831.5	26,256	1,085.0	69,770	3,584.8
Northeast	8,880	9,897	18,810	1,500	382.5	2,162	730.0	2,689	841.3	3,185	1,020.3	9,274	3,643.2
Carbon	459	443	903	79	568.3	134	1,071.1	150	1,156.8	162	1,208.2	378	3,411.9
Lackawanna	1,226	1,482	2,711	173	342.3	309	767.5	359	880.7	487	1,209.1	1,383	3,741.4
Lehigh	1,863	2,082	3,945	357	399.9	509	764.1	560	812.0	612	928.0	1,907	3,617.5
Luzerne	1,537	1,943	3,507	219	307.1	331	558.7	433	677.5	566	918.7	1,958	3,449.4
Monroe	937	872	1,810	174	383.7	217	696.6	320	887.2	366	1,111.4	733	3,514.1
Northampton	2,106	2,277	4,383	357	446.5	504	886.6	627	1,040.0	705	1,240.6	2,190	4,859.0
Pike	163	151	314	24	173.1	44	448.9	62	476.9	75	533.9	109	1,110.8
Susquehanna	147	200	347	25	261.5	30	438.5	55	694.3	50	534.2	187	2,685.6
Wayne	263	277	540	54	499.9	51	625.5	70	680.4	111	911.1	254	2,563.1
Wyoming	179	170	350	38	497.8	33	698.1	53	970.2	51	915.6	175	3,964.7
Southeast	30,748	30,708	61,463	5,209	377.9	8,090	803.4	9,750	922.9	11,513	1,241.5	26,900	3,815.3
Berks	1,999	2,113	4,112	327	286.5	455	601.6	629	745.0	748	1,004.7	1,952	3,336.9
Bucks	3,391	3,668	7,059	571	358.0	790	754.6	1,041	729.0	1,239	963.3	3,418	3,779.6
Chester	1,955	2,255	4,210	256	183.1	446	483.5	575	522.5	806	859.5	2,127	3,372.8
Delaware	4,081	4,386	8,468	680	455.2	1,023	938.5	1,268	1,107.4	1,500	1,423.7	3,997	5,010.8
Lancaster	2,268	2,421	4,690	459	319.3	531	542.1	620	622.5	755	834.0	2,325	3,061.2
Montgomery	4,082	4,877	8,960	655	326.5	896	640.5	1,025	590.6	1,517	1,007.2	4,867	4,135.8
Philadelphia	11,950	9,829	21,779	2,101	477.9	3,661	1,014.7	4,236	1,417.8	4,579	1,792.7	7,202	3,737.7
Schuylkill	1,022	1,159	2,185	160	502.7	288	1,074.3	356	1,086.7	369	1,291.5	1,012	3,750.2

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	70,163	76,155	146,390	11,078	341.2	17,824	739.4	21,461	831.5	26,256	1,085.0	69,770	3,584.8
North Central	2,882	3,279	6,186	485	277.9	690	476.9	779	608.2	1,027	820.9	3,205	2,952.9
Bradford	268	295	564	44	283.6	69	683.0	73	583.2	109	881.2	269	2,532.0
Centre	486	609	1,100	69	171.2	158	363.1	138	575.5	168	770.7	567	3,413.6
Clinton	154	179	333	17	168.2	38	533.2	30	451.8	63	932.1	185	3,001.3
Columbia	346	436	785	56	321.9	78	557.7	116	1,031.5	133	1,137.2	402	3,726.4
Lycoming	518	569	1,094	92	325.5	116	510.9	123	527.2	187	811.8	576	2,953.1
Montour	100	98	198	28	636.2	21	765.6	27	770.5	38	995.0	84	2,586.2
Northumberland	479	547	1,028	90	424.9	94	619.9	119	627.8	166	881.1	559	3,255.3
Potter	80	65	146	14	326.0	13	481.5	21	675.7	30	887.8	68	2,103.3
Snyder	124	145	269	31	302.9	23	281.1	29	395.7	42	602.7	144	2,480.2
Sullivan	33	36	70	3	NA	6	NA	10	957.9	10	803.2	41	2,685.0
Tioga	133	139	273	15	132.1	28	385.4	40	578.5	41	521.6	149	1,991.2
Union	161	161	326	26	260.5	46	445.4	53	556.3	40	544.4	161	2,524.7
South Central	6,815	7,895	14,715	1,061	251.7	1,717	558.2	2,074	605.7	2,455	762.6	7,408	2,903.6
Adams	351	395	746	44	163.2	78	407.8	113	531.2	123	624.5	388	2,542.3
Bedford	188	235	423	31	258.1	50	605.6	55	532.8	64	640.3	223	2,479.4
Blair	731	824	1,555	105	340.8	178	778.8	200	810.9	279	1,110.4	793	3,499.6
Cumberland	912	1,221	2,133	121	206.8	214	441.2	250	544.3	326	755.7	1,222	3,358.0
Dauphin	999	1,141	2,140	196	292.9	274	588.1	317	561.8	379	714.2	974	2,711.1
Franklin	582	760	1,343	91	235.7	148	558.2	185	661.8	214	782.2	705	2,869.6
Fulton	72	80	152	12	330.2	12	452.7	18	588.8	29	974.8	81	3,195.3
Huntingdon	204	178	383	28	270.3	56	608.7	52	536.7	64	720.6	183	2,518.6
Juniata	93	109	203	14	238.5	20	496.9	28	601.1	31	675.4	110	2,766.6
Lebanon	446	573	1,019	87	267.7	96	375.8	129	513.1	159	638.2	548	2,446.0
Mifflin	243	287	532	48	399.0	60	778.5	92	1,024.4	85	968.7	247	2,924.8
Perry	248	200	448	45	371.7	54	655.0	73	758.0	92	973.5	184	3,030.3
York	1,746	1,892	3,638	239	214.8	477	608.5	562	593.4	610	726.7	1,750	2,886.2

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	70,163	76,155	146,390	11,078	341.2	17,824	739.4	21,461	831.5	26,256	1,085.0	69,770	3,584.8
Northwest	5,150	5,829	10,980	809	348.5	1,262	740.1	1,550	841.3	1,908	1,054.1	5,451	3,504.5
Cameron	42	43	85	2	NA	9	NA	14	1,492.5	16	1,336.7	44	4,280.2
Clarion	245	250	495	43	407.7	62	822.6	77	1,073.3	74	981.7	239	3,576.2
Clearfield	504	506	1,010	90	506.8	126	842.9	160	880.6	170	1,010.5	464	3,172.6
Crawford	478	479	957	56	240.5	104	655.1	124	732.0	197	1,110.0	476	3,244.3
Elk	163	216	379	28	373.9	58	1,186.1	46	660.2	59	894.5	188	3,098.2
Erie	1,207	1,423	2,630	198	266.5	344	595.3	433	778.6	460	890.3	1,195	2,919.1
Forest	41	47	88	8	NA	4	NA	5	NA	22	1,893.3	49	4,235.1
Jefferson	340	317	657	52	482.7	81	1,049.2	101	1,134.4	89	973.0	334	4,127.5
Lawrence	580	727	1,308	89	396.9	121	797.5	144	812.9	228	1,271.4	726	4,291.3
McKean	179	228	407	23	215.3	45	568.4	30	325.7	82	1,013.8	227	3,110.4
Mercer	870	1,031	1,901	134	452.2	190	934.9	295	1,309.8	309	1,356.6	973	4,673.8
Venango	319	366	685	55	412.2	78	870.0	74	692.7	139	1,208.1	339	3,500.3
Warren	182	196	378	31	324.2	40	610.8	47	576.8	63	714.6	197	2,604.4
Southwest	15,688	18,547	34,236	2,014	310.9	3,903	805.1	4,619	839.5	6,168	1,116.8	17,532	3,750.5
Allegheny	7,256	8,648	15,904	909	306.4	1,774	790.3	2,158	871.4	2,883	1,175.2	8,180	4,002.0
Armstrong	433	511	944	77	458.2	124	1,194.6	119	854.3	155	1,083.1	469	3,774.3
Beaver	869	991	1,860	115	289.2	237	813.8	282	807.2	328	899.6	898	2,860.9
Butler	966	1,021	1,987	161	332.1	208	637.3	258	658.4	322	888.9	1,038	3,685.0
Cambria	950	1,183	2,133	112	341.7	256	996.5	246	852.0	401	1,356.9	1,118	4,124.4
Fayette	827	941	1,768	94	281.8	233	967.1	284	958.9	341	1,106.9	816	3,299.4
Greene	129	165	294	19	215.6	38	489.7	37	442.9	57	680.4	143	2,407.0
Indiana	530	657	1,187	90	384.6	134	747.9	147	942.4	201	1,213.2	615	4,403.6
Somerset	471	474	945	55	334.1	93	665.3	136	823.3	164	1,053.3	497	3,445.4
Washington	1,223	1,356	2,579	126	253.3	296	778.4	346	842.8	474	1,123.2	1,337	3,677.2
Westmoreland	2,034	2,600	4,635	256	313.7	510	839.9	606	813.7	842	1,095.1	2,421	3,531.8

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL INJURIES

**NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI),
BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2009**

BLACK POPULATION BY COUNTY				WHITE POPULATION BY COUNTY				HISPANIC POPULATION BY COUNTY			
County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)
Allegheny	2,163	1,344.5	1,287.9-1,401.2	Allegheny	13,261	999.0	982.0-1,016.0 +	Berks	347	842.0	753.4-930.6 -
Chester	289	1,007.8	891.6-1,124.0 -	Chester	3,725	798.3	772.7-823.9 -	Lancaster	47	183.4	130.9-235.8 -
Dauphin	371	871.9	783.1-960.6 -	Dauphin	1,630	705.2	670.9-739.4 -	Lehigh	366	772.7	693.6-851.9 -
Delaware	1,382	1,487.4	1,409.0-1,565.8 +	Delaware	6,728	1,313.0	1,281.6-1,344.3 +	Philadelphia	1,465	949.8	901.2-998.5
Montgomery	719	1,104.8	1,024.0-1,185.5 -	Montgomery	7,444	918.6	897.7-939.5				
Philadelphia	10,051	1,461.2	1,432.6-1,489.7 +	Philadelphia	9,261	1,108.8	1,086.2-1,131.4 +				
Pennsylvania	17,293	1,342.5	1,322.5-1,362.5	Pennsylvania	119,501	926.5	921.3-931.8	Pennsylvania	4,534	1,025.5	995.7-1,055.4

**NUMBER FOR SELECT AGE GROUPS AND AGE-SPECIFIC HOSPITALIZATION RATES
BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2009**

Select Counties	County and Race	Pct. Cty. Pop.	Sex		Total All Ages	Pct. Cty. Total	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+	
			Male	Female			No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Allegheny	Black	13.6%	1,226	937	2,163	13.6%	326	577.3	452	1,276.3	450	1,473.8	475	1,816.2	460	2,606.5
	White	82.9%	5,761	7,500	13,261	83.4%	526	234.3	1,222	684.9	1,644	789.3	2,320	1,081.6	7,549	4,105.8
Chester	Black	6.2%	175	114	289	6.9%	27	270.7	66	908.1	57	974.4	62	1,359.9	77	2,471.1
	White	89.5%	1,658	2,067	3,725	88.5%	210	171.5	331	410.2	475	483.8	717	827.8	1,992	3,402.8
Dauphin	Black	18.0%	220	151	371	17.3%	63	394.4	73	750.6	77	802.2	77	1,047.6	81	2,046.5
	White	77.0%	701	929	1,630	76.2%	108	236.5	169	492.4	215	489.5	277	627.9	861	2,754.1
Delaware	Black	18.9%	789	593	1,382	16.3%	232	673.3	253	948.2	321	1,445.9	290	2,000.6	286	3,738.1
	White	75.2%	3,091	3,636	6,728	79.5%	390	375.1	711	940.9	880	1,045.2	1,157	1,343.6	3,590	5,129.9
Montgomery	Black	8.9%	423	296	719	8.0%	80	407.0	133	827.7	134	827.4	187	1,647.9	185	2,981.0
	White	84.2%	3,228	4,215	7,444	83.1%	464	283.0	628	557.8	782	545.9	1,207	919.2	4,363	4,061.2
Philadelphia	Black	46.7%	5,985	4,066	10,051	46.1%	1,202	516.2	1,826	1,116.8	2,432	1,746.6	2,441	2,139.8	2,150	2,942.0
	White	45.8%	4,470	4,791	9,261	42.5%	406	239.5	1,186	720.6	1,335	971.3	1,750	1,399.2	4,584	4,096.9
Pennsylvania	Black	10.8%	10,200	7,089	17,293	11.8%	2,290	518.4	3,335	1,041.3	4,000	1,477.5	4,020	1,989.0	3,648	2,812.5
	White	85.5%	54,632	64,805	119,501	81.6%	7,311	276.9	12,501	631.1	15,780	713.4	20,755	962.3	63,153	3,539.4

INJURY HOSPITALIZATIONS: UNINTENTIONAL FALLS

In 2009, among Pennsylvania residents, there were 68,786 hospitalizations due to unintentional falls. On average, one resident was hospitalized every eight minutes.

Injury Definition

Unintentional falls include:

- slips, trips and stumbles on same level
- falls due to collision with another person
- falls down stairs, off a toilet, bed or chair, or another fall from one level to another.

The type of fall often varies by age and gender.

Falls involving intentionally jumping off or being pushed from a high place are *not* included.

HIGHLIGHTS

- *Age-adjusted rates have generally been **stable** over 2005 to 2009.*
- *Most common demographic is **white females, 55 and older.***
- *Of all Pennsylvania counties, **Northampton and Delaware** show the highest rates.*

Trends Over Time

- Age-adjusted hospitalization rates for unintentional falls increased from 2005 to 2007, from 419.7 to 456.0 hospitalizations per 100,000 population. Rates then decreased to 436.7 hospitalizations per 100,000 population in 2009.
- Females showed significantly higher age-adjusted falls hospitalization rates than males over 2005 to 2009 (rates were 448.2 and 406.7, respectively, in 2009).
- White females showed significantly higher age-adjusted falls hospitalization rates than black females over 2005 to 2009 (rates were 435.0 and 375.5, respectively, in 2009).

Demographic Trends

- Males showed significantly higher falls hospitalization rates for ages less than 55, while females showed significantly higher rates for ages 60 and older.
- Blacks showed higher falls hospitalization rates for ages less than 70, while whites showed significantly higher rates for ages 80 and older.

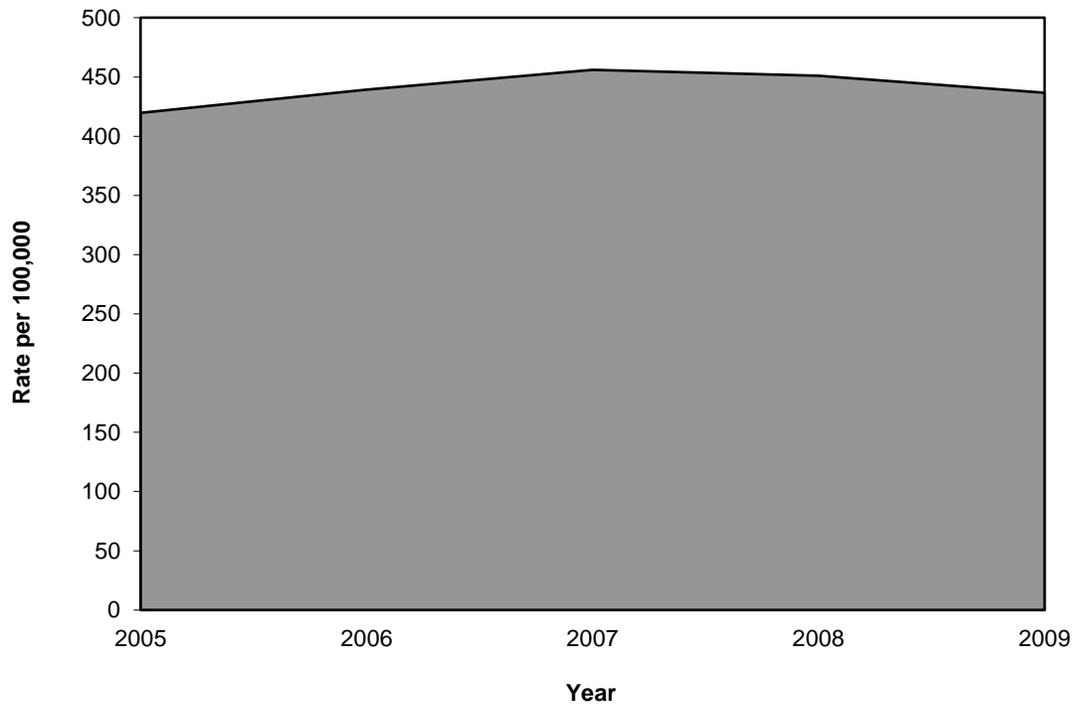
Regional Trends

- Unintentional falls accounted for nearly half of all injury hospitalizations in most counties.
- The Southeast Health District showed the highest age-specific falls hospitalization rates, while the South Central Health District showed the lowest rates.
- Eleven counties showed age-adjusted falls hospitalization rates for 2009 that were significantly higher than the comparable state rate.

INJURY HOSPITALIZATIONS: UNINT. FALLS

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, 2005-2009

Year	No.	Rate
2005	62,680	419.7
2006	63,311	439.3
2007	66,640	456.0
2008	68,670	451.0
2009	68,786	436.7



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2005-2009

Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2005	404.1	323.9	439.1	433.7	358.2	444.2
2006	412.4	325.0	467.1	455.2	366.5	470.2
2007	430.4	358.6	494.4	476.8	372.6	477.4
2008	440.6	349.3	488.9	470.2	351.7	478.1
2009	407.8	337.2	443.0	471.8	353.9	455.0

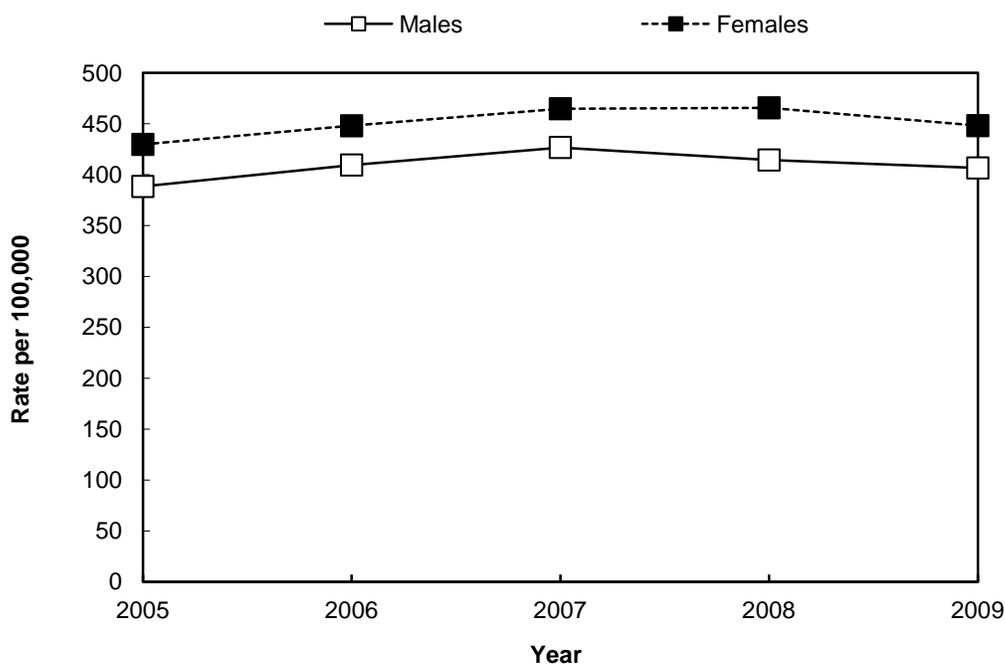
NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population.
Rates are per 100,000. Data for 2005-2009 based on ICD-9-CM codes. See Technical Notes.

INJURY HOSPITALIZATIONS: UNINT. FALLS

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX PENNSYLVANIA RESIDENTS, 2005-2009

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2005	23,059	388.5 *	2005	39,617	429.8
2006	23,249	409.6 *	2006	40,061	448.1
2007	24,822	426.8 *	2007	41,810	464.8
2008	25,417	414.5 *	2008	43,242	465.7
2009	26,024	406.7 *	2009	42,746	448.2

* denotes a statistically significant difference between groups at level of $p = .05$



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2005-2009

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2005	402.4	353.8 *	2005	440.2	402.5 *
2006	430.9	357.5 *	2006	460.6	415.5 *
2007	448.3	374.6 *	2007	477.1	433.2 *
2008	430.8	374.2 *	2008	475.2	441.1 *
2009	425.4	360.0 *	2009	461.0	414.9 *

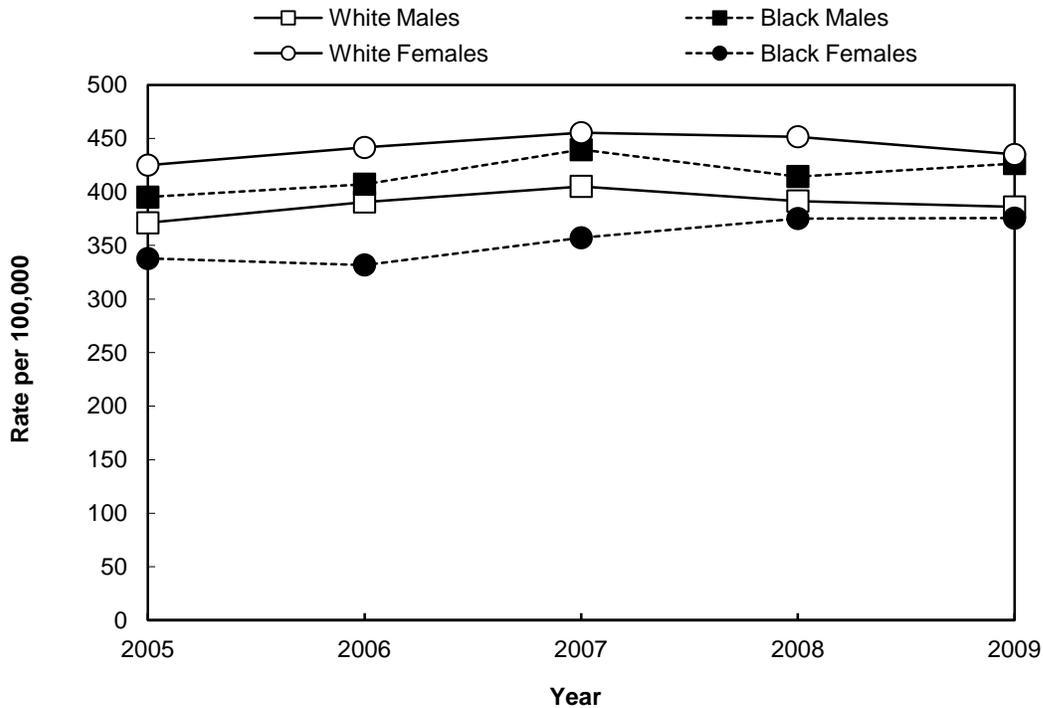
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY HOSPITALIZATIONS: UNINT. FALLS

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX AND RACE OR ETHNICITY PENNSYLVANIA RESIDENTS, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	19,979	1,912	36,209	2,224	462	430
2006	19,949	1,958	36,262	2,197	382	344
2007	21,185	2,108	37,560	2,390	566	613
2008	21,661	2,088	38,463	2,585	665	666
2009	22,297	2,186	38,062	2,676	655	693



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	371.2	395.2 *	425.0	337.8 *	322.1	348.4
2006	390.7	407.2	441.5	331.9 *	226.4	224.3
2007	405.2	439.4 *	455.4	357.2 *	404.9	426.6
2008	391.6	414.4	451.6	375.2 *	416.3	433.7
2009	386.0	426.5 *	435.0	375.5 *	381.4	418.9

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Hispanics may be of any race. Hispanic numbers include whites, blacks and others of Hispanic ethnicity. Therefore, Hispanics must not be compared to whites or blacks, as the groups are not mutually exclusive.

INJURY HOSPITALIZATIONS: UNINT. FALLS

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2009

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
TOTAL	68,786	545.7	26,024	424.7	42,746	659.9		50,777	553.4	18,009	525.1	
< 5	651	87.2	378	98.9	268	73.5	*	536	95.2	115	62.6	*
5-9	420	55.1	259	66.4	161	43.2	*	332	58.4	88	45.3	*
10-14	456	57.0	312	76.5	143	36.4	*	367	62.0	89	42.7	*
15-19	643	68.6	440	93.4	203	43.6	*	509	75.3	134	51.3	*
20-24	693	76.7	410	89.5	283	63.6	*	547	83.7	146	58.5	*
25-29	752	99.3	460	118.5	292	79.2	*	586	103.2	166	87.8	
30-34	826	110.0	482	126.9	343	92.5	*	649	117.4	177	89.5	*
35-39	1,008	126.5	563	141.7	445	111.3	*	764	130.3	244	115.7	
40-44	1,480	170.5	832	193.5	647	147.6	*	1,126	176.7	354	153.1	*
45-49	2,187	238.9	1,271	281.5	914	197.0	*	1,695	253.3	492	199.6	*
50-54	3,071	341.9	1,676	381.6	1,395	304.0	*	2,301	352.9	770	312.8	*
55-59	3,464	421.1	1,703	428.1	1,761	414.5		2,596	439.3	868	374.6	*
60-64	3,837	548.9	1,675	503.3	2,161	590.1	*	2,835	571.6	1,002	493.5	*
65-69	4,222	789.1	1,796	728.1	2,426	841.3	*	3,002	804.9	1,220	752.8	
70-74	5,365	1,213.3	2,044	1,050.1	3,321	1,341.7	*	3,859	1,246.4	1,506	1,136.2	*
75-79	7,869	2,167.2	2,771	1,857.2	5,096	2,382.5	*	5,705	2,233.7	2,164	2,009.4	*
80-84	11,276	4,067.4	3,599	3,420.8	7,675	4,461.7	*	8,237	4,192.6	3,039	3,762.9	*
85 +	20,566	6,255.5	5,353	5,082.4	15,212	6,808.0	*	15,131	6,417.9	5,435	5,843.8	*

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY HOSPITALIZATIONS: UNINT. FALLS

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2009

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	22,297	424.9	2,186	336.6	38,062	688.7	2,676	374.3	1,350	208.8
< 5	231	74.9	82	153.3	160	54.5	59	113.4	74	97.3
5-9	178	56.3	38	72.2	110	36.5	26	51.2	33	49.2
10-14	233	70.0	50	90.1	101	31.7	23	42.8	27	43.6
15-19	340	88.0	59	94.6	140	36.5	44	71.9	26	38.7
20-24	286	76.1	75	121.2	190	52.1	56	93.3	43	77.4
25-29	349	109.5	66	124.2	198	65.8	64	124.9	37	73.9
30-34	356	112.9	63	135.9	253	82.9	57	119.9	52	111.0
35-39	425	126.4	87	201.5	330	98.7	73	155.4	56	116.8
40-44	651	175.7	109	255.2	473	126.7	124	257.4	63	150.1
45-49	980	247.3	193	464.3	711	177.1	142	295.1	78	202.9
50-54	1,333	340.7	241	660.9	1,120	278.7	203	456.7	82	297.7
55-59	1,367	381.3	217	732.5	1,452	386.3	213	557.6	73	333.9
60-64	1,407	465.3	186	820.8	1,834	561.0	207	674.1	76	535.1
65-69	1,546	682.0	164	1,105.8	2,102	804.2	186	873.6	86	845.4
70-74	1,797	1,001.9	145	1,248.6	2,971	1,319.0	191	1,050.5	92	1,286.5
75-79	2,508	1,814.3	150	1,752.1	4,654	2,372.6	238	1,600.6	114	2,160.3
80-84	3,317	3,404.7	122	1,971.6	7,103	4,506.3	255	2,092.6	132	3,900.7
85 +	4,993	5,149.1	139	2,069.1	14,160	6,900.6	515	3,373.5	206	5,454.1

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Hispanics may be of any race; therefore, their rates must not be compared to whites or blacks.

INJURY HOSPITALIZATIONS: UNINT. FALLS

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2009

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	5,027	544.4	2,910	427.4	8,915	566.1	27,564	543.2	7,124	432.1	17,246	638.1
< 5	28	55.2 -	31	88.6	93	106.8 +	366	110.7 +	58	57.7 -	75	52.5 -
5-9	20	37.3	20	55.9	47	51.8	240	72.7 +	38	37.5 -	55	36.4 -
10-14	27	46.6	12	31.5 -	73	73.8 +	212	62.6	37	35.4 -	95	58.6
15-19	41	58.7	18	27.4 -	111	96.1 +	297	78.4 +	58	50.4 -	118	61.5
20-24	35	55.4	25	34.6 -	78	69.7	341	93.2 +	50	46.2 -	164	90.4 +
25-29	43	80.9	22	63.8 -	80	86.3	354	108.5	63	63.2 -	190	125.9 +
30-34	50	92.1	23	60.6 -	110	120.1	358	113.7	69	69.2 -	216	141.7 +
35-39	70	123.8	27	68.5 -	118	120.4	459	138.2	102	96.0 -	232	140.8
40-44	92	149.3	47	109.2 -	181	168.2	660	185.3 +	152	131.6 -	348	188.9
45-49	155	234.5	61	133.8 -	255	223.6	974	264.6 +	208	172.4 -	534	265.5 +
50-54	204	309.4	116	254.9 -	313	276.6 -	1,338	379.6 +	289	244.4 -	811	399.8 +
55-59	244	397.7	132	310.4 -	398	376.7 -	1,466	466.3 +	319	289.7 -	905	479.8 +
60-64	273	508.3	134	361.3 -	466	499.1 -	1,595	612.2 +	406	434.2 -	963	598.9 +
65-69	342	813.9	199	654.1 -	545	749.7	1,688	864.4 +	461	617.0 -	987	823.2
70-74	418	1,173.9	275	1,101.3	696	1,188.3	2,039	1,267.4 +	645	1,073.2 -	1,292	1,266.2
75-79	618	2,092.0	348	1,727.4 -	1,053	2,253.4	3,049	2,315.7 +	858	1,797.1 -	1,943	2,226.4
80-84	888	3,982.2	497	3,264.2 -	1,568	4,418.8 +	4,153	4,226.5 +	1,205	3,530.4 -	2,965	4,128.0
85 +	1,479	5,671.9 -	923	5,193.9 -	2,730	6,646.9 +	7,975	6,703.3 +	2,106	5,478.1 -	5,353	6,193.3

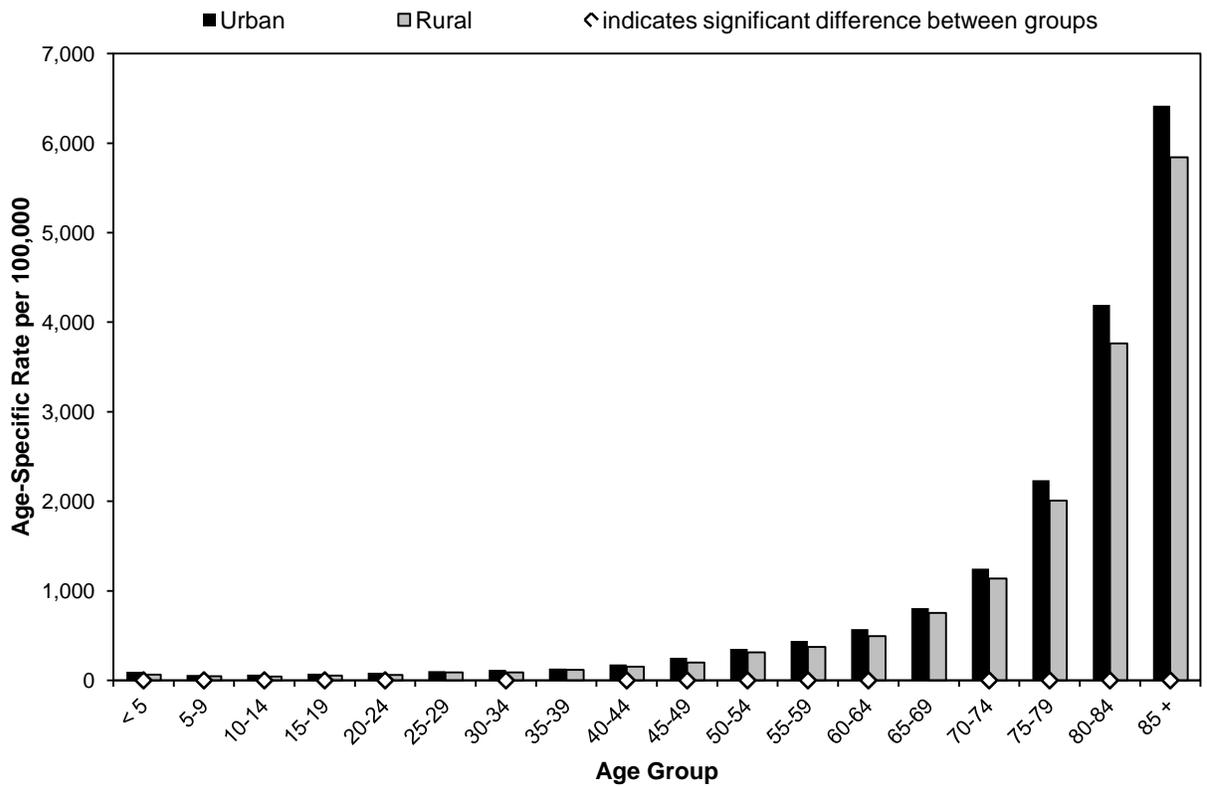
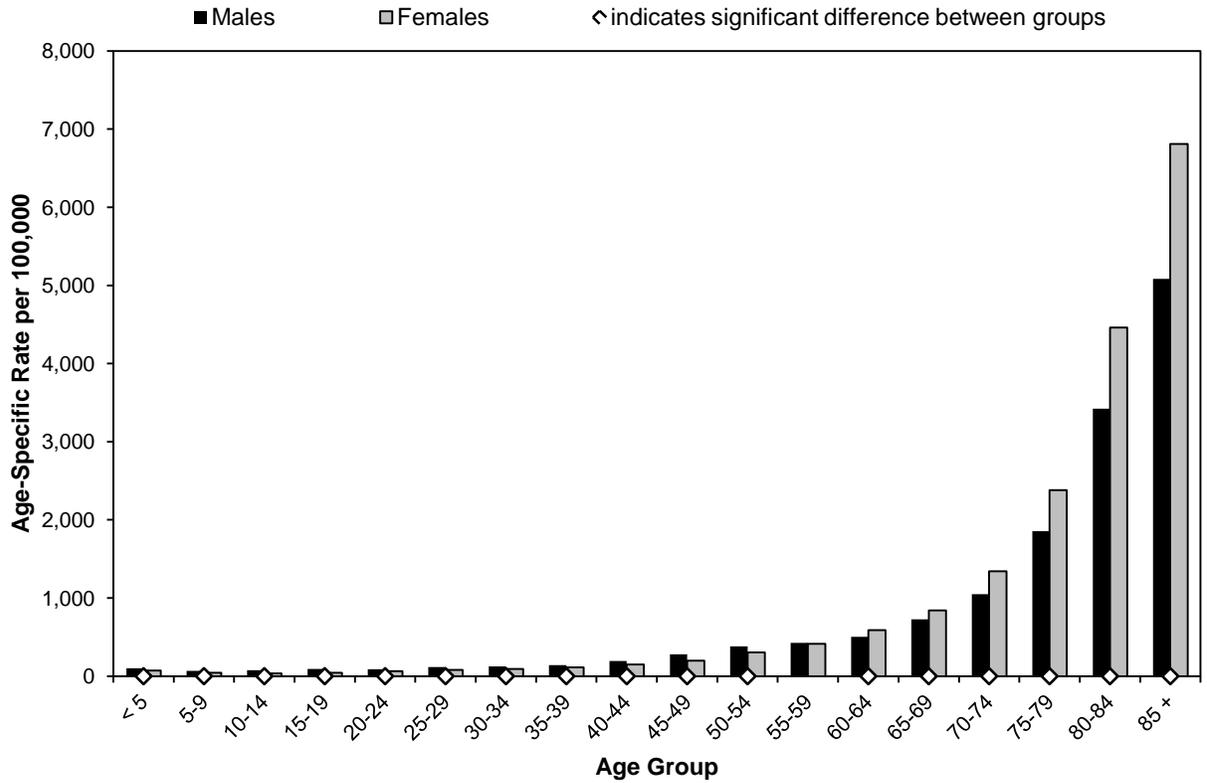
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total.

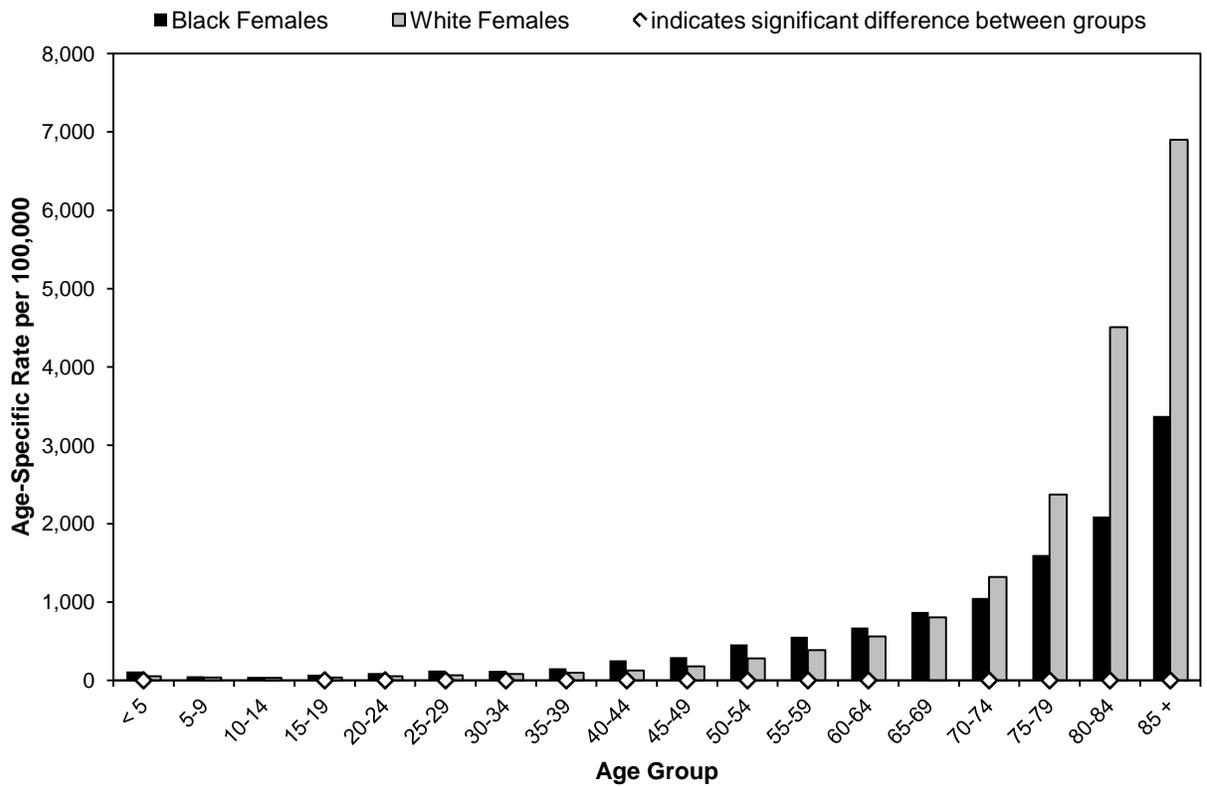
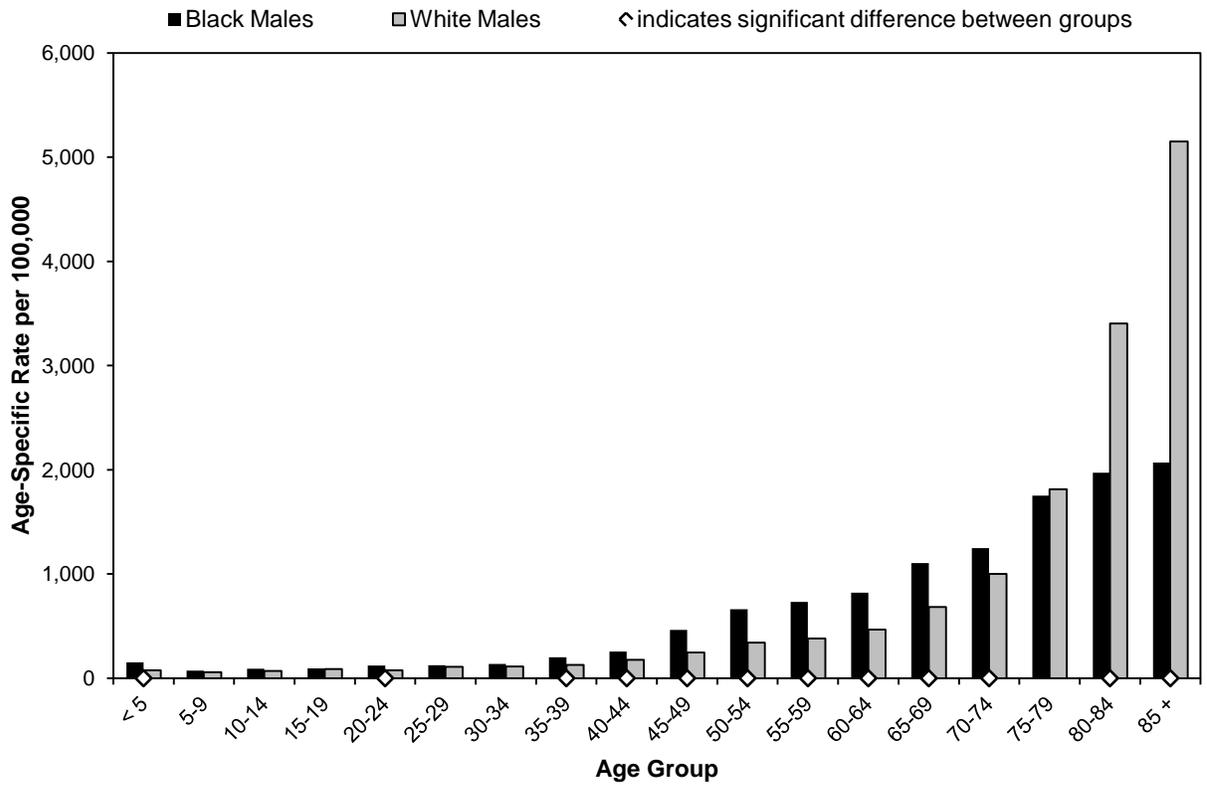
INJURY HOSPITALIZATIONS: UNINT. FALLS

AGE-SPECIFIC HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS PENNSYLVANIA RESIDENTS, 2009



INJURY HOSPITALIZATIONS: UNINT. FALLS

AGE-SPECIFIC HOSPITALIZATION RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2009



INJURY HOSPITALIZATIONS: UNINT. FALLS

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2009

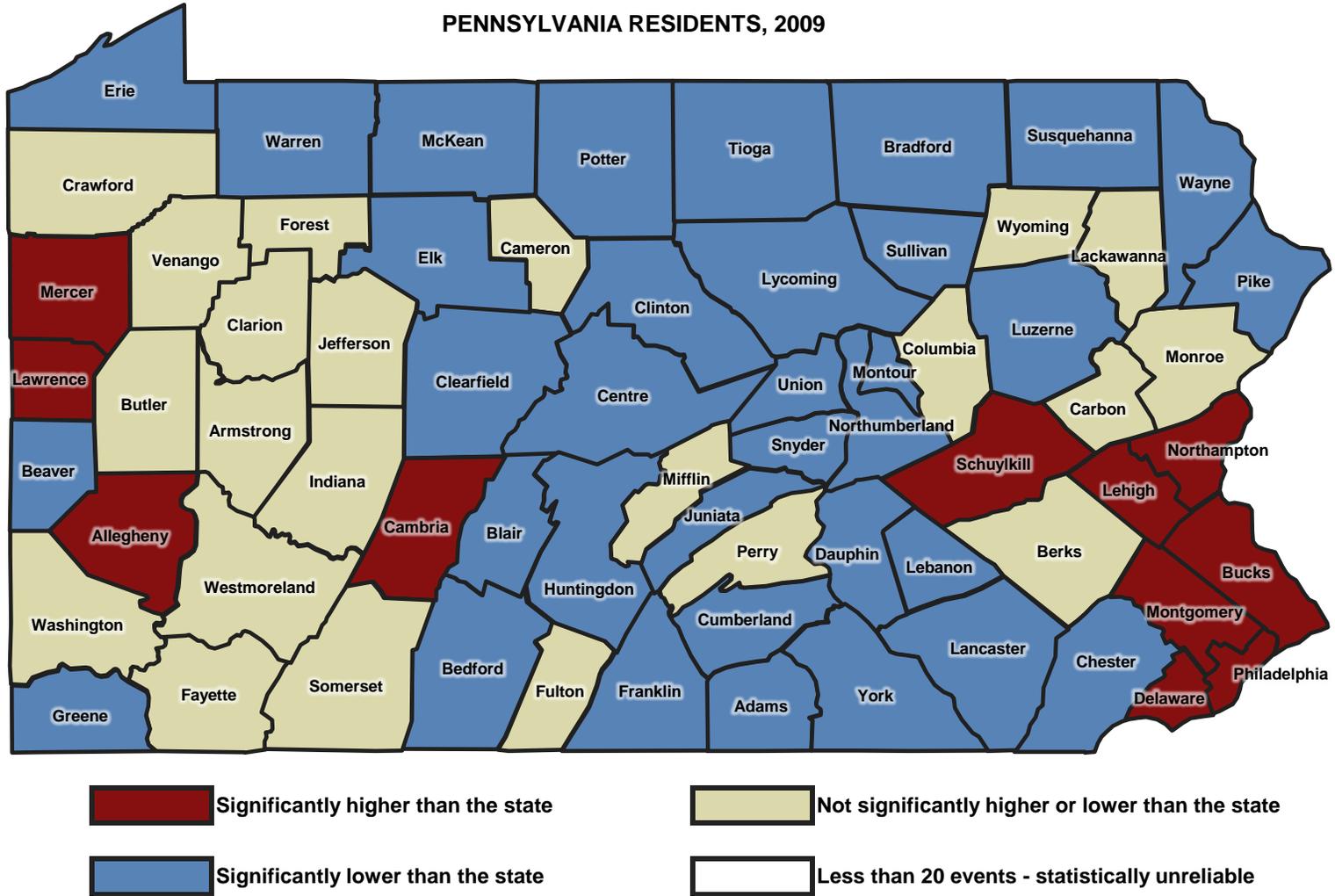
District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
Northeast	8,915	443.0	433.8-452.2	Southeast	27,564	471.8	466.2-477.3 +
Carbon	373	466.6	419.2-513.9	Berks	2,015	419.8	401.5-438.1
Lackawanna	1,305	454.1	429.4-478.7	Bucks	3,431	482.3	466.2-498.4 +
Lehigh	1,962	468.1	447.4-488.8 +	Chester	2,077	403.1	385.8-420.4 -
Luzerne	1,861	407.1	388.6-425.6 -	Delaware	3,915	584.9	566.6-603.3 +
Monroe	705	440.8	408.2-473.3	Lancaster	2,320	384.7	369.1-400.4 -
Northampton	2,021	546.8	522.9-570.6 +	Montgomery	4,665	472.8	459.2-486.4 +
Pike	111	153.0	124.5-181.5 -	Philadelphia	8,137	496.5	485.7-507.2 +
Susquehanna	185	340.5	291.4-389.6 -	Schuylkill	1,004	483.8	453.8-513.7 +
Wayne	242	344.8	301.3-388.2 -				
Wyoming	150	463.6	389.4-537.8				
North Central	2,910	337.2	324.9-349.4 -	South Central	7,124	353.9	345.6-362.1 -
Bradford	268	329.3	289.9-368.8 -	Adams	373	312.6	280.8-344.3 -
Centre	519	376.1	343.7-408.4 -	Bedford	200	296.7	255.6-337.8 -
Clinton	165	322.1	272.9-371.2 -	Blair	672	384.5	355.5-413.6 -
Columbia	354	433.3	388.2-478.4	Cumberland	1,098	380.4	357.9-402.9 -
Lycoming	556	351.3	322.1-380.5 -	Dauphin	989	332.0	311.3-352.7 -
Montour	82	352.7	276.4-429.1 -	Franklin	670	355.1	328.2-382.0 -
Northumberland	488	359.8	327.9-391.7 -	Fulton	72	375.5	288.8-462.3
Potter	68	275.9	210.3-341.4 -	Huntingdon	151	274.7	230.9-318.5 -
Snyder	111	236.8	192.7-280.8 -	Juniata	102	324.9	261.9-388.0 -
Sullivan	32	276.5	180.7-372.3 -	Lebanon	536	309.5	283.3-335.7 -
Tioga	141	260.4	217.4-303.4 -	Mifflin	265	432.8	380.7-484.9
Union	126	250.7	206.9-294.4 -	Perry	190	391.9	336.2-447.6
				York	1,806	373.6	356.4-390.9 -
Northwest	5,027	407.8	396.5-419.1 -	Southwest	17,246	455.0	448.2-461.8 +
Cameron	35	432.7	289.4-576.1	Allegheny	8,166	482.9	472.5-493.4 +
Clarion	211	439.2	379.9-498.4	Armstrong	406	412.6	372.5-452.8
Clearfield	429	382.2	346.1-418.4 -	Beaver	942	380.5	356.2-404.7 -
Crawford	487	424.7	387.0-462.5	Butler	951	415.3	388.9-441.7
Elk	146	300.8	252.0-349.6 -	Cambria	1,086	493.4	464.1-522.8 +
Erie	1,185	352.1	332.1-372.2 -	Fayette	902	450.6	421.2-480.0
Forest	44	557.9	393.0-722.7	Greene	144	292.7	244.9-340.5 -
Jefferson	296	483.1	428.1-538.1	Indiana	498	450.8	411.2-490.4
Lawrence	672	495.6	458.2-533.1 +	Somerset	476	412.3	375.3-449.3
McKean	215	373.0	323.1-422.9 -	Washington	1,329	460.7	435.9-485.4
Mercer	797	476.3	443.2-509.4 +	Westmoreland	2,346	443.5	425.6-461.5
Venango	330	443.7	395.8-491.6				
Warren	180	314.3	268.4-360.2 -	Pennsylvania	68,786	436.7	433.4-439.9

NOTE: Rates based on less than 20 events are unreliable and were not calculated. See Technical Notes.

+/- denotes that the county's rate is significantly higher or lower than the state at the p=.05 level.

INJURY HOSPITALIZATIONS: UNINT. FALLS

AGE-ADJUSTED HOSPITALIZATION RATES BY COUNTY,
WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE
PENNSYLVANIA RESIDENTS, 2009



NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. See Technical Notes.

INJURY HOSPITALIZATIONS: UNINT. FALLS

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2009

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	26,024	42,746	68,786	2,170	66.8	2,271	94.2	4,675	181.1	10,372	428.6	49,298	2,532.9
Northeast	3,329	5,578	8,915	324	82.6	268	90.5	554	173.3	1,177	377.0	6,592	2,589.6
Carbon	144	229	373	12	86.3	10	79.9	27	208.2	60	447.5	264	2,382.9
Lackawanna	465	839	1,305	47	93.0	39	96.9	78	191.4	204	506.5	937	2,534.8
Lehigh	762	1,200	1,962	80	89.6	68	102.1	110	159.5	246	373.0	1,458	2,765.8
Luzerne	631	1,223	1,861	45	63.1	43	72.6	113	176.8	226	366.8	1,434	2,526.2
Monroe	316	389	705	39	86.0	32	102.7	58	160.8	112	340.1	464	2,224.5
Northampton	749	1,272	2,021	80	100.1	58	102.0	123	204.0	228	401.2	1,532	3,399.1
Pike	53	58	111	7	NA	3	NA	13	100.0	21	149.5	67	682.8
Susquehanna	61	124	185	4	NA	6	NA	11	138.9	24	256.4	140	2,010.6
Wayne	87	155	242	9	NA	8	NA	12	116.6	36	295.5	177	1,786.1
Wyoming	61	89	150	1	NA	1	NA	9	NA	20	359.1	119	2,696.0
Southeast	10,840	16,721	27,564	1,115	80.9	1,053	104.6	2,093	198.1	4,399	474.4	18,904	2,681.2
Berks	793	1,222	2,015	78	68.3	56	74.0	132	156.4	298	400.3	1,451	2,480.4
Bucks	1,372	2,059	3,431	154	96.6	92	87.9	242	169.5	526	408.9	2,417	2,672.7
Chester	771	1,306	2,077	55	39.3	54	58.5	153	139.0	347	370.1	1,468	2,327.8
Delaware	1,507	2,408	3,915	123	82.3	112	102.7	294	256.8	587	557.1	2,799	3,509.0
Lancaster	874	1,446	2,320	96	66.8	70	71.5	130	130.5	307	339.1	1,717	2,260.7
Montgomery	1,757	2,907	4,665	163	81.3	134	95.8	243	140.0	606	402.3	3,519	2,990.3
Philadelphia	3,394	4,743	8,137	424	96.4	496	137.5	823	275.5	1,564	612.3	4,830	2,506.7
Schuylkill	372	630	1,004	22	69.1	39	145.5	76	232.0	164	574.0	703	2,605.2

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	26,024	42,746	68,786	2,170	66.8	2,271	94.2	4,675	181.1	10,372	428.6	49,298	2,532.9
North Central	1,084	1,822	2,910	81	46.4	70	48.4	135	105.4	382	305.3	2,242	2,065.7
Bradford	103	165	268	10	64.4	4	NA	14	111.8	48	388.0	192	1,807.2
Centre	202	316	519	12	29.8	24	55.2	24	100.1	66	302.8	393	2,366.0
Clinton	59	106	165	1	NA	2	NA	5	NA	23	340.3	134	2,173.9
Columbia	123	231	354	11	63.2	9	NA	19	168.9	45	384.8	270	2,502.8
Lycoming	205	351	556	15	53.1	16	70.5	24	102.9	71	308.2	430	2,204.6
Montour	37	45	82	2	NA	3	NA	7	NA	10	261.8	60	1,847.3
Northumberland	184	302	488	15	70.8	5	NA	22	116.1	67	355.6	379	2,207.1
Potter	27	41	68	0	NA	1	NA	2	NA	15	443.9	50	1,546.6
Snyder	35	76	111	3	NA	1	NA	3	NA	12	172.2	92	1,584.6
Sullivan	9	23	32	0	NA	0	NA	1	NA	3	NA	28	1,833.7
Tioga	54	86	141	6	NA	5	NA	6	NA	14	178.1	110	1,470.0
Union	46	80	126	6	NA	0	NA	8	NA	8	NA	104	1,630.9
South Central	2,605	4,518	7,124	191	45.3	182	59.2	462	134.9	1,014	315.0	5,275	2,067.5
Adams	134	239	373	10	37.1	8	NA	30	141.0	56	284.3	269	1,762.5
Bedford	67	133	200	6	NA	5	NA	10	96.9	27	270.1	152	1,690.0
Blair	249	423	672	13	42.2	12	52.5	43	174.3	101	402.0	503	2,219.8
Cumberland	386	712	1,098	13	22.2	26	53.6	72	156.8	137	317.6	850	2,335.7
Dauphin	366	623	989	43	64.3	23	49.4	67	118.7	168	316.6	688	1,915.0
Franklin	231	439	670	17	44.0	13	49.0	43	153.8	92	336.3	505	2,055.5
Fulton	25	47	72	3	NA	0	NA	2	NA	11	369.7	56	2,209.1
Huntingdon	64	87	151	2	NA	7	NA	10	103.2	19	213.9	113	1,555.2
Juniata	38	64	102	3	NA	2	NA	5	NA	11	239.7	81	2,037.2
Lebanon	177	359	536	15	46.1	14	54.8	26	103.4	65	260.9	416	1,856.8
Mifflin	92	172	265	9	NA	9	NA	18	200.4	45	512.8	184	2,178.8
Perry	86	104	190	5	NA	3	NA	10	103.8	34	359.8	138	2,272.7
York	690	1,116	1,806	52	46.7	60	76.5	126	133.0	248	295.4	1,320	2,177.0

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	26,024	42,746	68,786	2,170	66.8	2,271	94.2	4,675	181.1	10,372	428.6	49,298	2,532.9
Northwest	1,821	3,206	5,027	116	50.0	128	75.1	317	172.1	721	398.3	3,745	2,407.7
Cameron	14	21	35	0	NA	1	NA	4	NA	6	NA	24	2,334.6
Clarion	71	140	211	4	NA	9	NA	19	264.8	35	464.3	144	2,154.7
Clearfield	164	265	429	10	56.3	16	107.0	30	165.1	64	380.4	309	2,112.8
Crawford	199	288	487	14	60.1	12	75.6	21	124.0	73	411.3	367	2,501.4
Elk	48	98	146	2	NA	4	NA	7	NA	19	288.1	114	1,878.7
Erie	406	779	1,185	24	32.3	35	60.6	87	156.4	187	361.9	852	2,081.2
Forest	18	26	44	3	NA	0	NA	1	NA	9	NA	31	2,679.3
Jefferson	117	179	296	3	NA	11	142.5	25	280.8	24	262.4	233	2,879.4
Lawrence	226	446	672	13	58.0	7	NA	39	220.2	86	479.6	527	3,115.0
McKean	76	139	215	5	NA	4	NA	7	NA	35	432.7	164	2,247.2
Mercer	284	513	797	21	70.9	18	88.6	48	213.1	102	447.8	608	2,920.5
Venango	133	197	330	12	89.9	8	NA	18	168.5	58	504.1	234	2,416.1
Warren	65	115	180	5	NA	3	NA	11	135.0	23	260.9	138	1,824.4
Southwest	6,345	10,901	17,246	343	52.9	570	117.6	1,114	202.5	2,679	485.1	12,540	2,682.6
Allegheny	3,018	5,148	8,166	191	64.4	296	131.9	568	229.4	1,280	521.8	5,831	2,852.7
Armstrong	147	259	406	5	NA	17	163.8	22	157.9	63	440.2	299	2,406.2
Beaver	345	597	942	16	40.2	29	99.6	63	180.3	154	422.4	680	2,166.4
Butler	365	586	951	23	47.4	26	79.7	49	125.1	137	378.2	716	2,541.9
Cambria	376	710	1,086	13	39.7	29	112.9	55	190.5	171	578.6	818	3,017.7
Fayette	304	598	902	14	42.0	33	137.0	63	212.7	148	480.4	644	2,603.9
Greene	51	93	144	2	NA	3	NA	8	NA	23	274.6	108	1,817.9
Indiana	181	317	498	11	47.0	15	83.7	27	173.1	72	434.6	373	2,670.8
Somerset	203	273	476	2	NA	9	NA	34	205.8	63	404.6	368	2,551.1
Washington	509	820	1,329	21	42.2	36	94.7	90	219.2	214	507.1	968	2,662.3
Westmoreland	846	1,500	2,346	45	55.1	77	126.8	135	181.3	354	460.4	1,735	2,531.0

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATIONS: UNINT. FALLS

**NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI),
BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2009**

BLACK POPULATION BY COUNTY				WHITE POPULATION BY COUNTY				HISPANIC POPULATION BY COUNTY			
County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)
Allegheny	691	434.4	402.0-466.8	Allegheny	7,276	479.2	468.2-490.3 +	Berks	85	305.8	240.8-370.8 -
Chester	94	342.5	273.3-411.8	Chester	1,904	402.2	384.1-420.2	Lancaster	9	NA	
Dauphin	112	291.2	237.3-345.1 -	Dauphin	836	327.7	305.5-349.9 -	Lehigh	82	244.8	191.8-297.8 -
Delaware	348	437.4	391.4-483.3	Delaware	3,435	595.8	575.9-615.8 +	Philadelphia	358	293.8	263.4-324.2 -
Montgomery	224	382.5	332.4-432.5	Montgomery	4,096	455.4	441.5-469.4 +				
Philadelphia	2,781	418.0	402.5-433.6	Philadelphia	4,641	501.8	487.3-516.2 +				
Pennsylvania	4,862	401.3	390.0-412.6	Pennsylvania	60,373	420.0	416.6-423.3	Pennsylvania	1,350	408.4	386.6-430.2

**NUMBER FOR SELECT AGE GROUPS AND AGE-SPECIFIC HOSPITALIZATION RATES
BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2009**

Select Counties		Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+	
County and Race	Cty. Pop.	Male	Female	All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	
Allegheny	Black	13.6%	284	407	691	8.5%	54	95.6	58	163.8	101	330.8	195	745.6	283	1,603.6
	White	82.9%	2,636	4,640	7,276	89.1%	125	55.7	224	125.5	445	213.6	1,045	487.2	5,437	2,957.1
Chester	Black	6.2%	40	54	94	4.5%	6	NA	5	NA	14	239.3	18	394.8	51	1,636.7
	White	89.5%	693	1,211	1,904	91.7%	43	35.1	42	52.0	128	130.4	317	366.0	1,374	2,347.1
Dauphin	Black	18.0%	44	68	112	11.3%	9	NA	6	NA	14	145.8	37	503.4	46	1,162.2
	White	77.0%	307	529	836	84.5%	28	61.3	16	46.6	47	107.0	123	278.8	622	1,989.6
Delaware	Black	18.9%	154	194	348	8.9%	32	92.9	25	93.7	59	265.8	83	572.6	149	1,947.5
	White	75.2%	1,298	2,137	3,435	87.7%	82	78.9	82	108.5	219	260.1	482	559.7	2,570	3,672.4
Montgomery	Black	8.9%	113	111	224	4.8%	11	56.0	14	87.1	31	191.4	56	493.5	112	1,804.7
	White	84.2%	1,483	2,612	4,096	87.8%	129	78.7	97	86.2	187	130.5	496	377.7	3,187	2,966.6
Philadelphia	Black	46.7%	1,259	1,522	2,781	34.2%	199	85.5	224	137.0	415	298.0	723	633.8	1,220	1,669.4
	White	45.8%	1,802	2,839	4,641	57.0%	110	64.9	194	117.9	308	224.1	703	562.1	3,326	2,972.6
Pennsylvania	Black	10.8%	2,186	2,676	4,862	7.1%	381	86.2	381	119.0	728	268.9	1,267	626.9	2,105	1,622.9
	White	85.5%	22,297	38,062	60,373	87.8%	1,498	56.7	1,632	82.4	3,573	161.5	8,514	394.8	45,156	2,530.8

INJURY HOSPITALIZATIONS: ALL POISONING

In 2009, among Pennsylvania residents, there were 16,904 hospitalizations due to poisoning. On average, one resident was hospitalized every 32 minutes.

Injury Definition

Poisoning includes:

- accidental and intentional drug overdose
- misuse or abuse of prescription drugs
- exposure to gases like carbon monoxide
- ingestion of toxic foodstuffs (including alcohol poisoning) or other substances.

Drug poisonings account for over 90 percent of all poisoning hospitalizations in PA.

HIGHLIGHTS

- *Age-adjusted rates have generally been **stable** over 2005 to 2009.*
- *Most common demographic is **white females** ages 20 to 54.*
- *Of all Pennsylvania counties, **Philadelphia** shows the highest rate.*

Trends Over Time

- Age-adjusted hospitalization rates for poisoning increased from 2005 to 2006, from 128.7 to 142.4 hospitalizations per 100,000 population. Rates then decreased slightly from 2006 to 2009 to 133.4 hospitalizations per 100,000 population.
- Females generally showed higher age-adjusted poisoning hospitalization rates than males over 2004 to 2008 (rates were 137.7 and 129.0, respectively, in 2009).
- Black males and females showed significantly higher age-adjusted poisoning hospitalization rates than white males and females over 2005 to 2009.

Demographic Trends

- Among ages 10 to 19, females showed significantly higher poisoning hospitalization rates than males.
- Among ages 35 to 70, black males and females showed significantly higher poisoning hospitalization rates than white males and females.

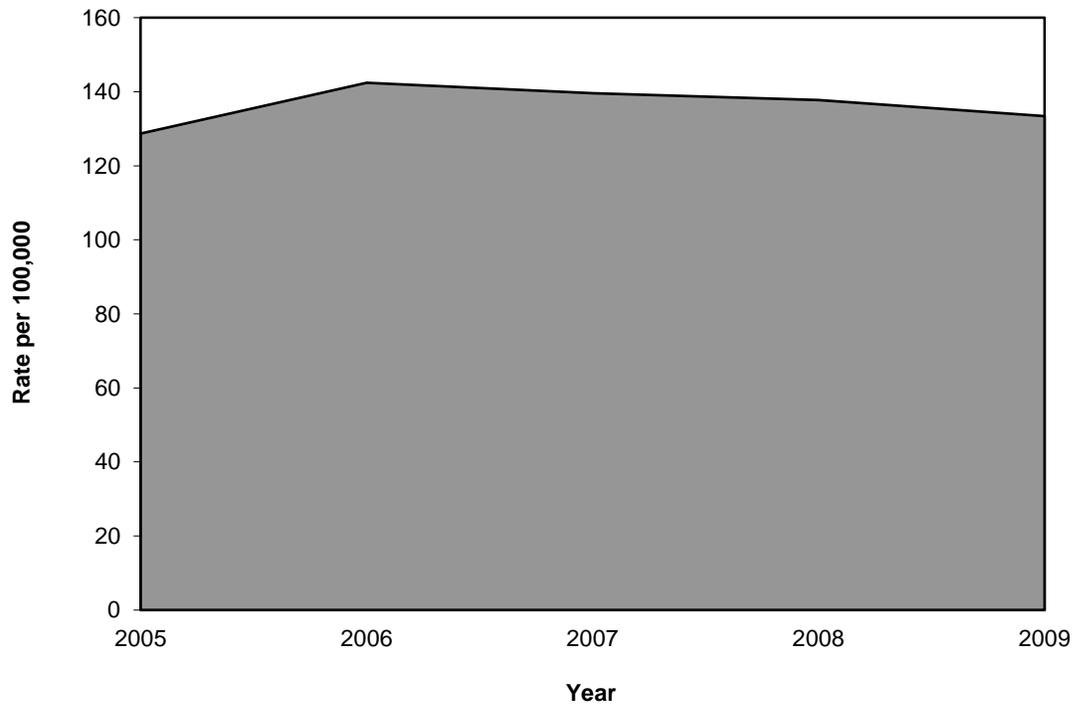
Regional Trends

- The Southeast Health District showed the highest age-specific poisoning hospitalization rates, while the North Central Health District showed the lowest rates.
- Eight counties showed age-adjusted poisoning hospitalization rates for 2009 that were significantly higher than the comparable state rate: Cambria, Carbon, Delaware, Indiana, Mercer, Northampton, Philadelphia and Schuylkill counties.

INJURY HOSPITALIZATIONS: ALL POISONING

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, 2005-2009

Year	No.	Rate
2005	15,874	128.7
2006	17,579	142.4
2007	17,313	139.6
2008	17,221	137.8
2009	16,904	133.4



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2005-2009

Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2005	143.4	95.7	119.6	150.8	100.3	114.8
2006	143.0	96.9	132.4	172.7	107.6	125.7
2007	150.4	108.0	129.1	166.0	105.4	123.7
2008	136.5	111.5	129.9	165.4	99.8	123.2
2009	144.0	102.9	125.5	155.7	99.7	123.1

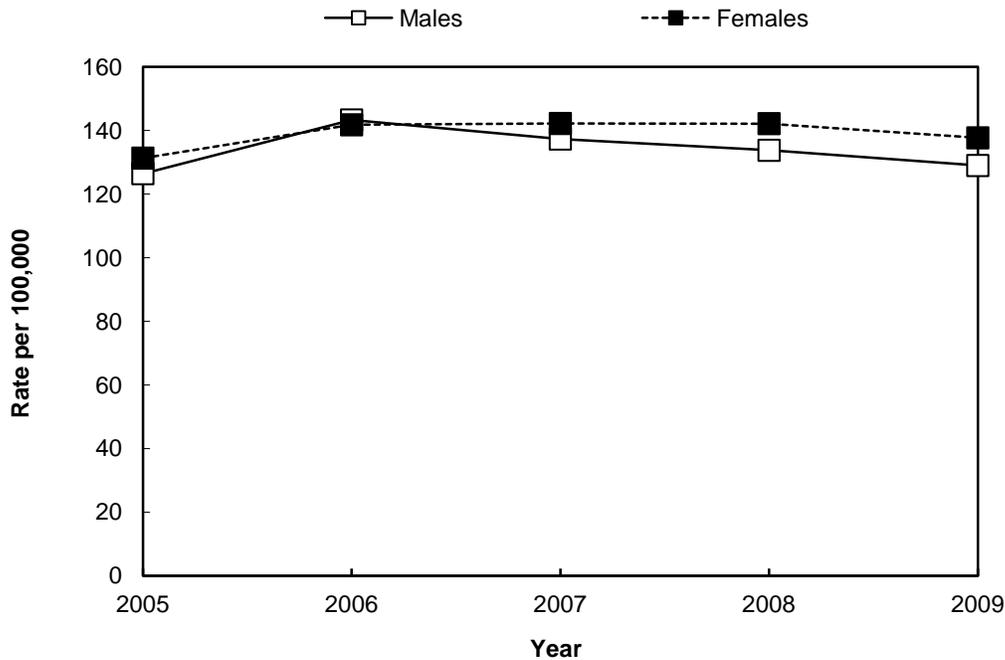
NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2005-2009 based on ICD-9-CM codes. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL POISONING

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX PENNSYLVANIA RESIDENTS, 2005-2009

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2005	7,599	126.5	2005	8,275	131.3
2006	8,637	143.3	2006	8,942	141.8
2007	8,316	137.3	2007	8,995	142.2
2008	8,171	133.8 *	2008	9,047	142.2
2009	7,999	129.0 *	2009	8,903	137.7

* denotes a statistically significant difference between groups at level of $p = .05$



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2005-2009

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2005	137.5	98.6 *	2005	132.4	128.8
2006	158.2	105.7 *	2006	143.6	137.2
2007	149.9	105.4 *	2007	143.9	138.2
2008	145.7	103.3 *	2008	142.6	141.5
2009	137.8	106.7 *	2009	137.9	137.9

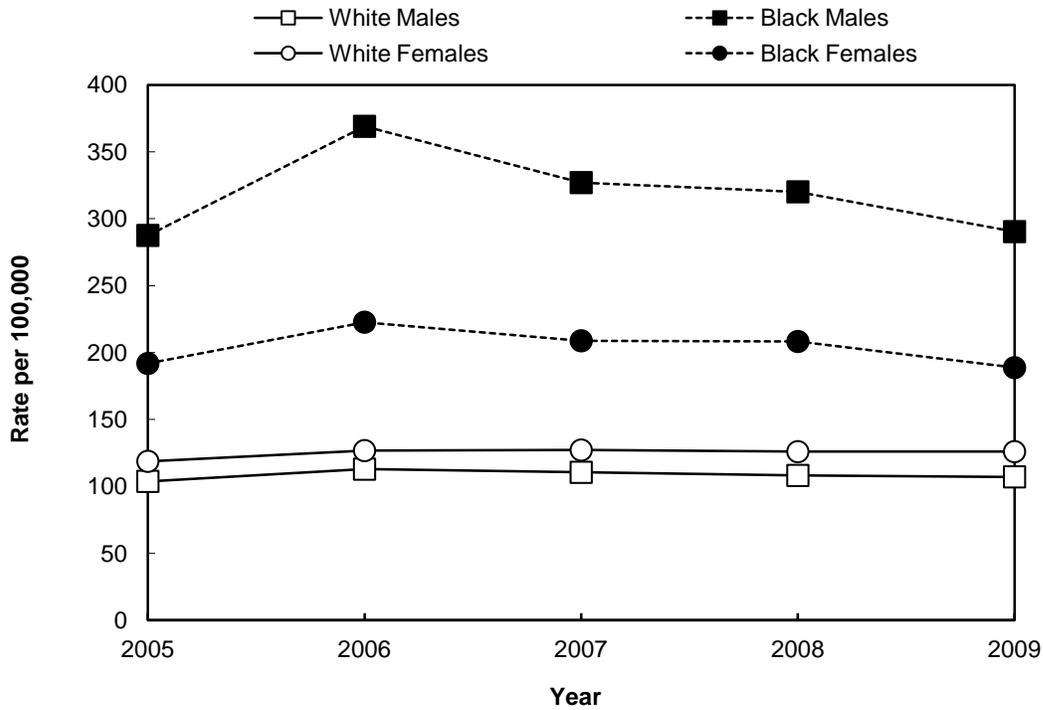
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL POISONING

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX AND RACE OR ETHNICITY PENNSYLVANIA RESIDENTS, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	5,417	1,648	6,475	1,282	347	301
2006	5,869	2,104	6,873	1,490	445	327
2007	5,752	1,850	6,897	1,408	426	380
2008	5,687	1,816	6,880	1,421	394	451
2009	5,674	1,705	6,964	1,313	374	384



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	103.8	287.5 *	118.8	191.8 *	160.8	118.2
2006	112.9	369.0 *	126.8	222.7 *	176.4	132.2
2007	110.6	327.0 *	127.2	208.8 *	170.0	146.4
2008	108.2	320.1 *	126.0	208.3 *	159.7	168.4
2009	107.2	290.4 *	126.0	188.7 *	143.6	135.3

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Hispanics may be of any race. Hispanic numbers include whites, blacks and others of Hispanic ethnicity. Therefore, Hispanics must not be compared to whites or blacks, as the groups are not mutually exclusive.

INJURY HOSPITALIZATIONS: ALL POISONING

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2009

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
TOTAL	16,904	134.1	7,999	130.5	8,903	137.4			12,758	139.0	4,146	120.9
< 5	239	32.0	146	38.2	93	25.5	*	169	30.0	70	38.1	
5-9	62	8.1	32	8.2	30	8.0		44	7.7	18	9.3	
10-14	152	19.0	50	12.3	102	26.0	*	107	18.1	45	21.6	
15-19	1,122	119.7	466	98.9	656	140.8	*	797	117.9	325	124.5	
20-24	1,549	171.5	764	166.7	785	176.5		1,149	175.9	400	160.2	
25-29	1,513	199.8	733	188.7	780	211.5	*	1,104	194.4	409	216.3	
30-34	1,329	177.0	642	169.0	687	185.3		981	177.4	348	176.0	
35-39	1,463	183.5	677	170.3	785	196.4	*	1,082	184.6	381	180.7	
40-44	1,685	194.1	828	192.5	857	195.6		1,291	202.6	394	170.4	*
45-49	2,141	233.8	1,047	231.9	1,093	235.5		1,666	249.0	475	192.7	*
50-54	1,874	208.7	944	214.9	930	202.7		1,469	225.3	405	164.5	*
55-59	1,157	140.6	602	151.3	555	130.6	*	928	157.0	229	98.8	*
60-64	696	99.6	358	107.6	338	92.3		546	110.1	150	73.9	*
65-69	494	92.3	191	77.4	303	105.1	*	371	99.5	123	75.9	*
70-74	359	81.2	142	72.9	217	87.7		265	85.6	94	70.9	
75-79	368	101.3	135	90.5	233	108.9		269	105.3	99	91.9	
80-84	343	123.7	119	113.1	224	130.2		257	130.8	86	106.5	
85 +	358	108.9	123	116.8	235	105.2		263	111.6	95	102.1	

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY HOSPITALIZATIONS: ALL POISONING

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2009

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
TOTAL	5,674	108.1	1,705	262.5	6,964	126.0	1,313	183.6	758	117.2		
< 5	82	26.6	44	82.3	*	57	19.4	21	40.4	*	17	22.3
5-9	20	6.3	8	NA		12	4.0	10	19.7	*	11	16.4
10-14	28	8.4	9	NA		61	19.1	18	33.5		21	33.9
15-19	360	93.2	49	78.5		500	130.5	93	151.9		54	80.4
20-24	601	159.9	100	161.5		610	167.3	98	163.2		80	144.0
25-29	579	181.7	77	144.9	*	624	207.3	95	185.4		79	157.7
30-34	493	156.3	92	198.4		532	174.4	87	182.9		83	177.2
35-39	503	149.6	112	259.4	*	613	183.4	116	247.0	*	82	171.1
40-44	555	149.8	224	524.5	*	645	172.8	152	315.5	*	75	178.7
45-49	674	170.1	297	714.5	*	848	211.3	196	407.3	*	80	208.1
50-54	597	152.6	297	814.4	*	726	180.7	161	362.2	*	63	228.7
55-59	384	107.1	191	644.7	*	437	116.3	87	227.8	*	36	164.7
60-64	235	77.7	98	432.4	*	266	81.4	58	188.9	*	23	161.9
65-69	134	59.1	43	289.9	*	245	93.7	44	206.7	*	14	137.6
70-74	112	62.4	26	223.9	*	185	82.1	22	121.0		10	139.8
75-79	110	79.6	18	210.3	*	198	100.9	22	148.0		18	341.1
80-84	96	98.5	12	193.9		199	126.2	18	147.7		5	NA
85 +	111	114.5	8	NA		206	100.4	15	98.3		7	NA

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Hispanics may be of any race; therefore, their rates must not be compared to whites or blacks.

INJURY HOSPITALIZATIONS: ALL POISONING

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2009

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	1,316	142.5	692	101.6	1,974	125.4	7,978	157.2	1,634	99.1	3,310	122.5
< 5	20	39.4	16	45.7	25	28.7	95	28.7	27	26.8	56	39.2
5-9	2	NA	7	NA	7	NA	31	9.4	6	NA	9	NA
10-14	12	20.7	7	NA	32	32.3 +	62	18.3	13	12.4	26	16.0
15-19	105	150.2 +	54	82.3 -	148	128.2	491	129.6	117	101.6	207	107.9
20-24	141	223.4 +	73	101.0 -	196	175.2	690	188.5 +	159	146.8 -	290	159.8
25-29	137	257.9 +	67	194.5	189	203.8	661	202.6	161	161.6 -	298	197.5
30-34	111	204.5	50	131.7 -	166	181.3	570	181.1	156	156.5	276	181.0
35-39	113	199.9	53	134.4 -	169	172.5	661	199.0 +	166	156.2 -	301	182.7
40-44	135	219.2	62	144.0 -	179	166.3 -	830	233.0 +	141	122.1 -	338	183.4
45-49	132	199.7	84	184.2 -	245	214.9	1,085	294.8 +	180	149.2 -	415	206.3 -
50-54	120	182.0	70	153.8 -	219	193.5	982	278.6 +	130	109.9 -	353	174.0 -
55-59	89	145.0	33	77.6 -	114	107.9 -	620	197.2 +	92	83.5 -	209	110.8 -
60-64	49	91.2	26	70.1	83	88.9	352	135.1 +	68	72.7 -	118	73.4 -
65-69	34	80.9	27	88.7	49	67.4 -	241	123.4 +	62	83.0	81	67.6 -
70-74	27	75.8	24	96.1	32	54.6 -	167	103.8 +	36	59.9	73	71.5
75-79	36	121.9	11	54.6 -	35	74.9	156	118.5	39	81.7	91	104.3
80-84	27	121.1	13	85.4	40	112.7	146	148.6 +	40	117.2	77	107.2
85 +	26	99.7	15	84.4	46	112.0	138	116.0	41	106.6	92	106.4

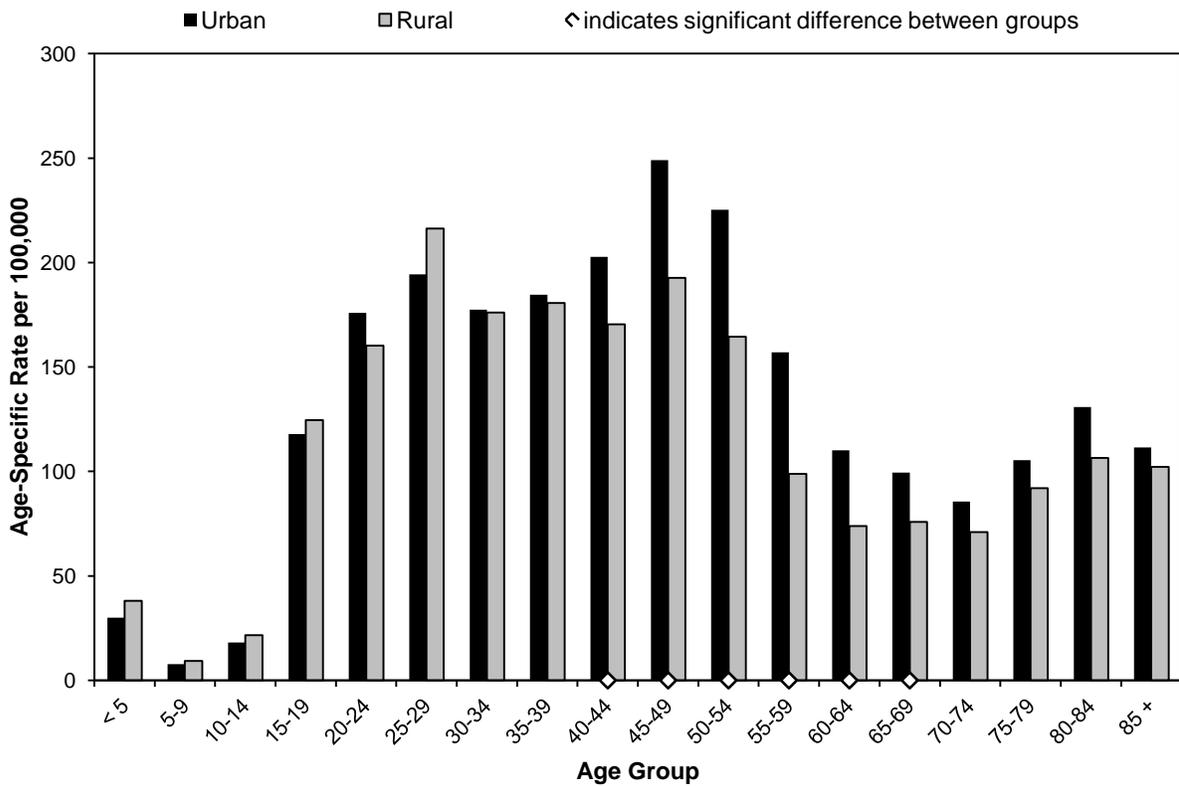
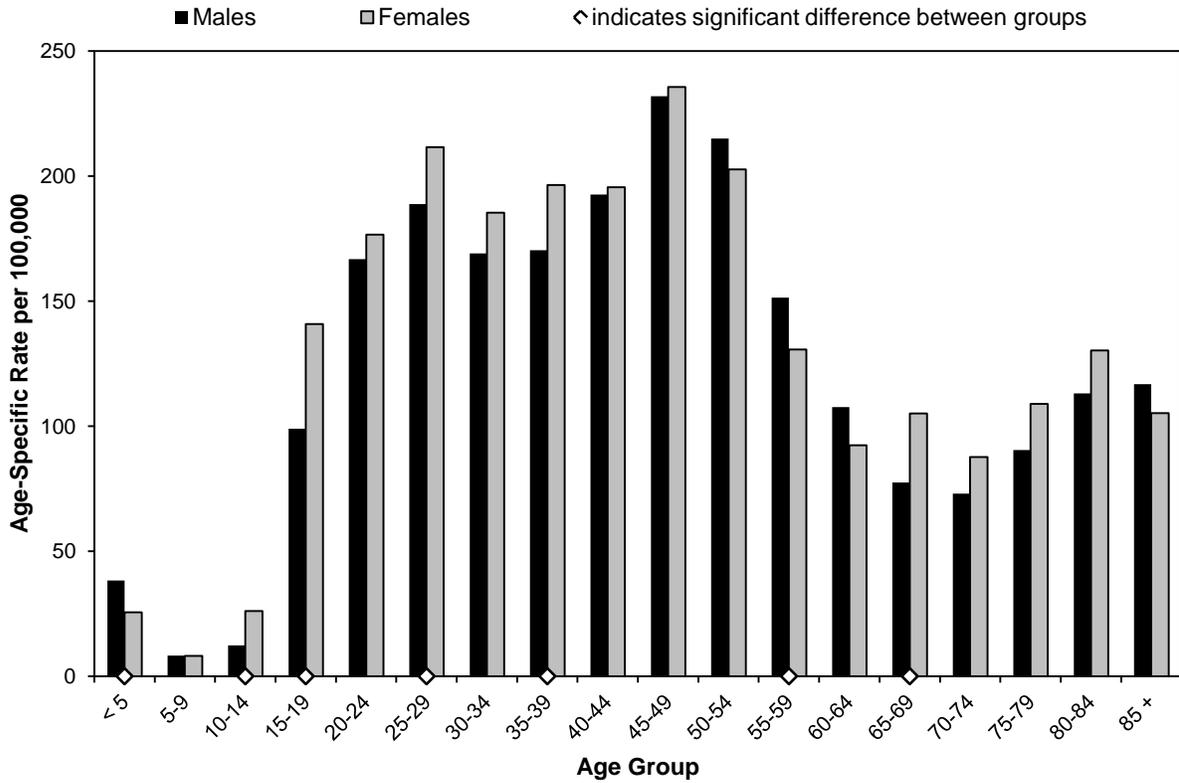
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total.

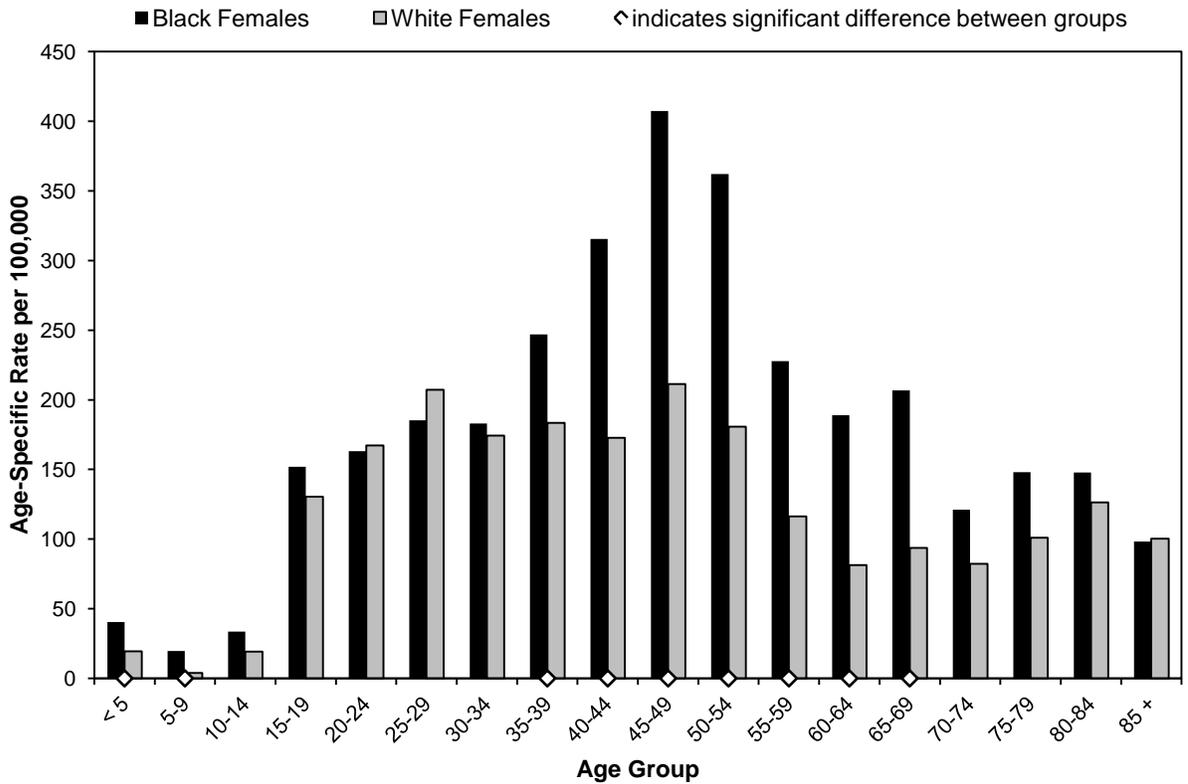
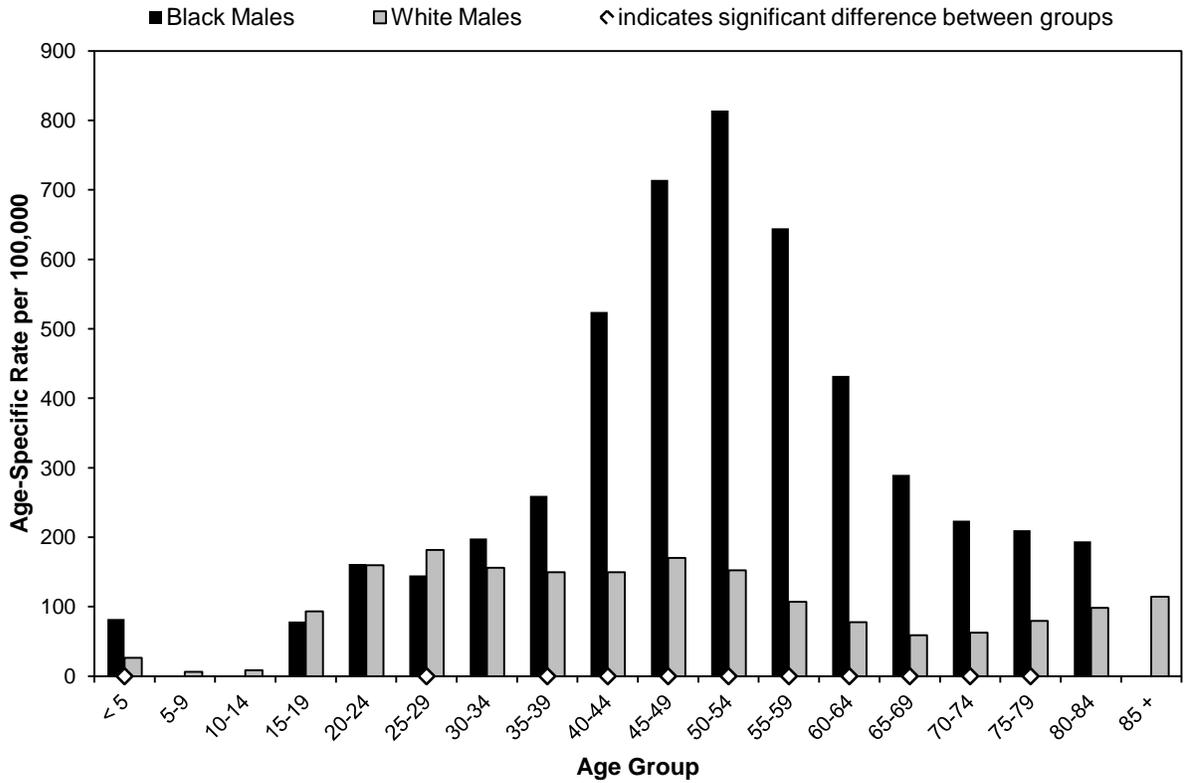
INJURY HOSPITALIZATIONS: ALL POISONING

AGE-SPECIFIC HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS PENNSYLVANIA RESIDENTS, 2009



INJURY HOSPITALIZATIONS: ALL POISONING

AGE-SPECIFIC HOSPITALIZATION RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2009



INJURY HOSPITALIZATIONS: ALL POISONING

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2009

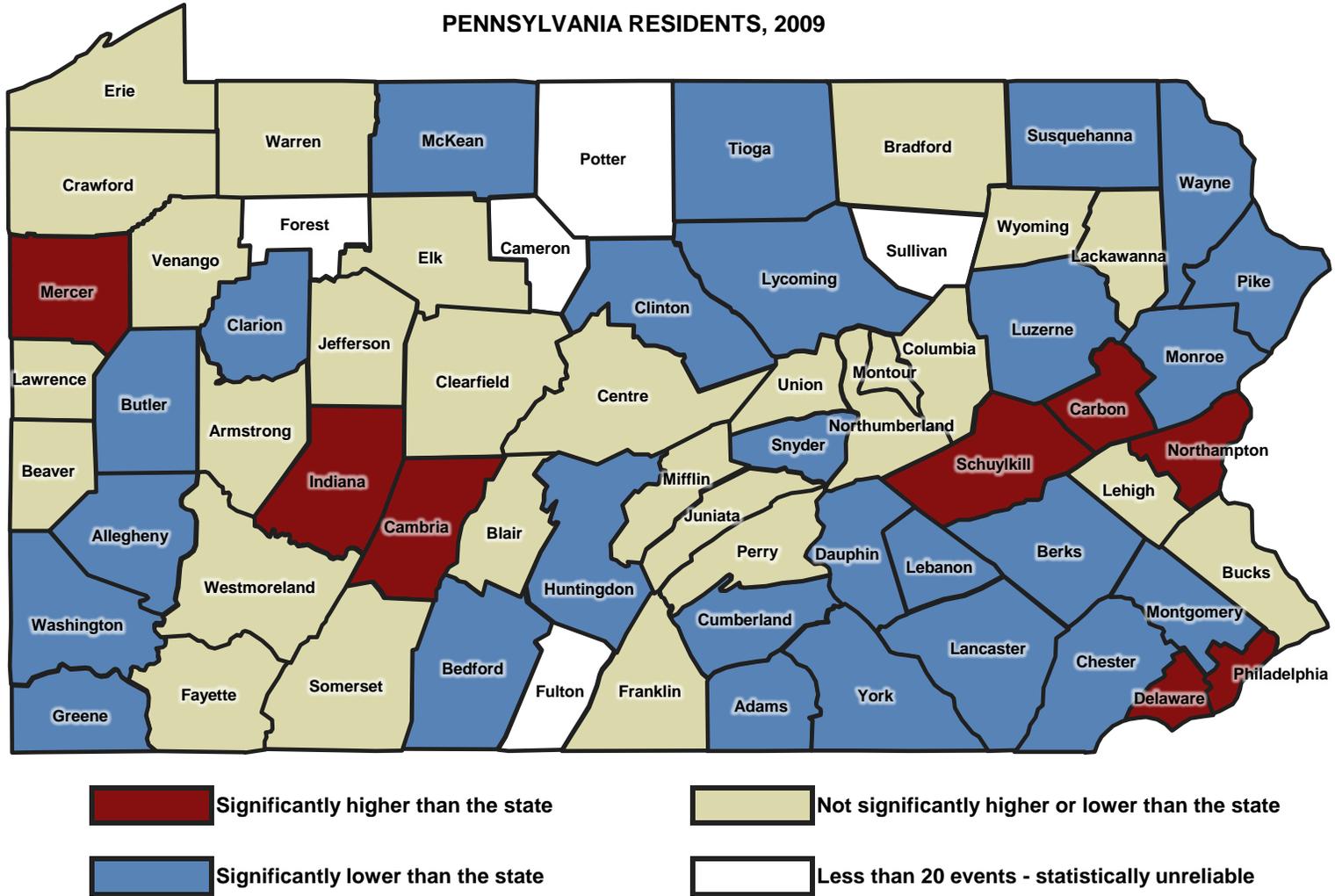
District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
Northeast	1,974	125.5	120.0-131.0 -	Southeast	7,978	155.7	152.3-159.1 +
Carbon	142	231.4	193.3-269.5 +	Berks	415	101.5	91.7-111.3 -
Lackawanna	284	136.5	120.6-152.4	Bucks	890	143.4	134.0-152.8
Lehigh	450	132.4	120.2-144.7	Chester	401	80.1	72.3-88.0 -
Luzerne	272	85.1	75.0-95.2 -	Delaware	1,048	186.6	175.3-197.9 +
Monroe	183	110.1	94.2-126.1 -	Lancaster	411	83.1	75.1-91.2 -
Northampton	498	167.4	152.7-182.1 +	Montgomery	906	115.1	107.6-122.6 -
Pike	24	38.7	23.2-54.2 -	Philadelphia	3,624	240.7	232.9-248.6 +
Susquehanna	24	63.7	38.2-89.2 -	Schuylkill	283	196.7	173.8-219.6 +
Wayne	50	102.8	74.3-131.2 -				
Wyoming	47	179.3	128.0-230.5				
North Central	692	102.9	95.3-110.6 -	South Central	1,634	99.7	94.8-104.5 -
Bradford	84	141.2	111.0-171.4	Adams	63	61.2	46.1-76.3 -
Centre	155	120.4	101.4-139.4	Bedford	37	77.3	52.4-102.2 -
Clinton	24	62.7	37.6-87.8 -	Blair	151	123.9	104.1-143.7
Columbia	82	122.3	95.8-148.8	Cumberland	213	88.9	76.9-100.8 -
Lycoming	97	85.6	68.5-102.6 -	Dauphin	288	113.1	100.1-126.2 -
Montour	25	142.5	86.7-198.4	Franklin	162	115.4	97.6-133.2
Northumberland	113	130.1	106.1-154.1	Fulton	11	NA	
Potter	6	NA		Huntingdon	35	72.7	48.6-96.8 -
Snyder	26	69.7	42.9-96.5 -	Juniata	26	105.6	65.0-146.2
Sullivan	7	NA		Lebanon	84	65.9	51.8-80.0 -
Tioga	24	63.5	38.1-88.8 -	Mifflin	54	123.1	90.3-156.0
Union	49	111.6	80.3-142.8	Perry	50	116.0	83.9-148.2
				York	460	107.0	97.2-116.8 -
Northwest	1,316	144.0	136.2-151.8 +	Southwest	3,310	123.1	118.9-127.3 -
Cameron	9	NA		Allegheny	1,416	115.3	109.3-121.3 -
Clarion	37	96.6	65.5-127.7 -	Armstrong	79	127.0	99.0-155.0
Clearfield	105	127.2	102.9-151.5	Beaver	236	146.4	127.7-165.1
Crawford	111	130.7	106.3-155.0	Butler	142	76.8	64.1-89.4 -
Elk	40	130.9	90.3-171.5	Cambria	271	191.0	168.2-213.7 +
Erie	379	135.7	122.0-149.4	Fayette	180	129.5	110.6-148.5
Forest	4	NA		Greene	36	87.2	58.7-115.7 -
Jefferson	73	164.5	126.8-202.2	Indiana	133	169.2	140.4-198.0 +
Lawrence	131	151.4	125.5-177.3	Somerset	98	126.5	101.5-151.6
McKean	40	92.3	63.7-120.9 -	Washington	236	115.1	100.4-129.8 -
Mercer	258	228.6	200.7-256.5 +	Westmoreland	483	136.3	124.1-148.4
Venango	83	158.5	124.4-192.6				
Warren	46	115.6	82.2-149.0	Pennsylvania	16,904	133.4	131.4-135.4

NOTE: Rates based on less than 20 events are unreliable and were not calculated. See Technical Notes.

+/- denotes that the county's rate is significantly higher or lower than the state at the p=.05 level.

INJURY HOSPITALIZATIONS: ALL POISONING

AGE-ADJUSTED HOSPITALIZATION RATES BY COUNTY,
WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE
PENNSYLVANIA RESIDENTS, 2009



NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL POISONING

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2009

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	7,999	8,903	16,904	1,575	48.5	4,391	182.1	5,289	204.9	3,727	154.0	1,922	98.8
Northeast	902	1,071	1,974	212	54.1	551	186.1	593	185.5	416	133.3	202	79.4
Carbon	73	69	142	19	136.7	50	399.7	39	300.8	21	156.6	13	117.3
Lackawanna	121	163	284	21	41.6	91	226.0	80	196.3	64	158.9	28	75.7
Lehigh	205	245	450	48	53.8	137	205.7	136	197.2	89	135.0	40	75.9
Luzerne	128	143	272	25	35.1	70	118.2	82	128.3	64	103.9	31	54.6
Monroe	66	117	183	20	44.1	37	118.8	65	180.2	42	127.5	19	91.1
Northampton	250	248	498	49	61.3	143	251.5	145	240.5	107	188.3	54	119.8
Pike	9	15	24	0	NA	9	NA	4	NA	9	NA	2	NA
Susquehanna	7	17	24	3	NA	2	NA	14	176.7	3	NA	2	NA
Wayne	19	31	50	14	129.6	7	NA	13	126.4	12	98.5	4	NA
Wyoming	24	23	47	13	170.3	5	NA	15	274.6	5	NA	9	NA
Southeast	4,072	3,906	7,978	679	49.3	1,921	190.8	2,576	243.8	1,954	210.7	848	120.3
Berks	181	234	415	43	37.7	80	105.8	134	158.7	100	134.3	58	99.1
Bucks	437	453	890	92	57.7	251	239.8	262	183.5	190	147.7	95	105.1
Chester	181	220	401	42	30.0	104	112.7	124	112.7	76	81.0	55	87.2
Delaware	513	535	1,048	83	55.6	287	263.3	330	288.2	237	224.9	111	139.2
Lancaster	182	229	411	45	31.3	111	113.3	128	128.5	74	81.7	53	69.8
Montgomery	394	512	906	111	55.3	239	170.9	229	132.0	189	125.5	138	117.3
Philadelphia	2,064	1,560	3,624	239	54.4	761	210.9	1,270	425.1	1,032	404.0	322	167.1
Schuylkill	120	163	283	24	75.4	88	328.3	99	302.2	56	196.0	16	59.3

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	7,999	8,903	16,904	1,575	48.5	4,391	182.1	5,289	204.9	3,727	154.0	1,922	98.8
North Central	280	412	692	84	48.1	190	131.3	199	155.4	129	103.1	90	82.9
Bradford	34	50	84	10	64.4	24	237.6	19	151.8	18	145.5	13	122.4
Centre	54	101	155	15	37.2	53	121.8	48	200.2	15	68.8	24	144.5
Clinton	7	17	24	1	NA	12	168.4	2	NA	6	NA	3	NA
Columbia	34	48	82	8	NA	16	114.4	20	177.8	24	205.2	14	129.8
Lycoming	48	49	97	18	63.7	23	101.3	26	111.4	21	91.2	9	NA
Montour	11	14	25	2	NA	5	NA	7	NA	8	NA	3	NA
Northumberland	50	63	113	16	75.5	33	217.6	34	179.4	18	95.5	12	69.9
Potter	4	2	6	1	NA	1	NA	4	NA	0	NA	0	NA
Snyder	8	18	26	5	NA	1	NA	12	163.8	4	NA	4	NA
Sullivan	1	6	7	1	NA	1	NA	2	NA	2	NA	1	NA
Tioga	11	13	24	2	NA	9	NA	5	NA	4	NA	4	NA
Union	18	31	49	5	NA	12	116.2	20	209.9	9	NA	3	NA
South Central	740	894	1,634	163	38.7	476	154.7	487	142.2	290	90.1	218	85.4
Adams	29	34	63	4	NA	17	88.9	22	103.4	10	50.8	10	65.5
Bedford	13	24	37	4	NA	14	169.6	6	NA	6	NA	7	NA
Blair	74	77	151	22	71.4	41	179.4	51	206.8	22	87.6	15	66.2
Cumberland	91	122	213	28	47.8	61	125.8	49	106.7	39	90.4	36	98.9
Dauphin	124	164	288	31	46.3	84	180.3	81	143.5	57	107.4	35	97.4
Franklin	82	80	162	13	33.7	51	192.4	47	168.1	24	87.7	27	109.9
Fulton	5	6	11	2	NA	2	NA	2	NA	3	NA	2	NA
Huntingdon	20	15	35	1	NA	14	152.2	8	NA	7	NA	5	NA
Juniata	10	16	26	3	NA	3	NA	7	NA	4	NA	9	NA
Lebanon	34	50	84	8	NA	23	90.0	27	107.4	15	60.2	11	49.1
Mifflin	26	28	54	4	NA	14	181.7	19	211.6	7	NA	10	118.4
Perry	24	26	50	8	NA	11	133.4	18	186.9	9	NA	4	NA
York	208	252	460	35	31.5	141	179.9	150	158.4	87	103.6	47	77.5

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	7,999	8,903	16,904	1,575	48.5	4,391	182.1	5,289	204.9	3,727	154.0	1,922	98.8
Northwest	597	718	1,316	139	59.9	389	228.1	380	206.3	258	142.5	150	96.4
Cameron	9	0	9	0	NA	0	NA	4	NA	5	NA	0	NA
Clarion	17	20	37	7	NA	11	145.9	11	153.3	3	NA	5	NA
Clearfield	48	57	105	13	73.2	32	214.1	25	137.6	25	148.6	10	68.4
Crawford	50	61	111	10	42.9	37	233.1	28	165.3	28	157.8	8	NA
Elk	18	22	40	2	NA	15	306.7	10	143.5	7	NA	6	NA
Erie	162	217	379	34	45.8	113	195.6	123	221.2	67	129.7	42	102.6
Forest	2	2	4	0	NA	1	NA	0	NA	1	NA	2	NA
Jefferson	36	37	73	8	NA	10	129.5	28	314.5	15	164.0	12	148.3
Lawrence	63	67	131	13	58.0	33	217.5	39	220.2	31	172.9	15	88.7
McKean	15	25	40	3	NA	18	227.4	5	NA	12	148.4	2	NA
Mercer	131	127	258	35	118.1	78	383.8	79	350.8	37	162.4	29	139.3
Venango	29	54	83	9	NA	28	312.3	18	168.5	17	147.7	11	113.6
Warren	17	29	46	5	NA	13	198.5	10	122.7	10	113.4	8	NA
Southwest	1,408	1,902	3,310	298	46.0	864	178.2	1,054	191.6	680	123.1	414	88.6
Allegheny	618	798	1,416	120	40.4	334	148.8	448	180.9	317	129.2	197	96.4
Armstrong	30	49	79	11	65.5	26	250.5	24	172.3	6	NA	12	96.6
Beaver	112	124	236	21	52.8	70	240.4	83	237.6	43	117.9	19	60.5
Butler	62	80	142	20	41.3	39	119.5	38	97.0	26	71.8	19	67.5
Cambria	118	153	271	24	73.2	87	338.6	73	252.8	57	192.9	30	110.7
Fayette	73	107	180	10	30.0	46	190.9	71	239.7	38	123.3	15	60.7
Greene	17	19	36	4	NA	13	167.5	8	NA	8	NA	3	NA
Indiana	53	80	133	11	47.0	31	173.0	45	288.5	29	175.0	17	121.7
Somerset	36	62	98	10	60.7	24	171.7	32	193.7	17	109.2	15	104.0
Washington	107	129	236	25	50.3	60	157.8	74	180.3	43	101.9	34	93.5
Westmoreland	182	301	483	42	51.5	134	220.7	158	212.2	96	124.9	53	77.3

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL POISONING

**NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI),
BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2009**

BLACK POPULATION BY COUNTY				WHITE POPULATION BY COUNTY				HISPANIC POPULATION BY COUNTY			
County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)
Allegheny	215	139.5	120.8-158.1 -	Allegheny	1,169	114.6	108.0-121.2	Berks	71	155.9	119.6-192.1
Chester	45	155.7	110.2-201.2 -	Chester	333	74.4	66.4-82.4 -	Lancaster	11	NA	
Dauphin	66	146.4	111.1-181.8 -	Dauphin	202	102.4	88.3-116.6	Lehigh	75	145.7	112.7-178.7
Delaware	205	211.9	182.9-240.9	Delaware	805	192.9	179.6-206.3 +	Philadelphia	273	160.3	141.2-179.3
Montgomery	84	119.1	93.6-144.6 -	Montgomery	738	111.7	103.6-119.7				
Philadelphia	1,950	286.4	273.7-299.1 +	Philadelphia	1,315	183.3	173.4-193.2 +				
Pennsylvania	3,018	233.7	225.4-242.1	Pennsylvania	12,640	116.7	114.7-118.8	Pennsylvania	758	139.3	129.4-149.2

**NUMBER FOR SELECT AGE GROUPS AND AGE-SPECIFIC HOSPITALIZATION RATES
BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2009**

Select Counties	Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+		
		Male	Female			All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.
Allegheny	Black	13.6%	96	119	215	15.2%	27	47.8	32	90.4	72	235.8	61	233.2	23	130.3
	White	82.9%	509	660	1,169	82.6%	86	38.3	290	162.5	372	178.6	253	118.0	168	91.4
Chester	Black	6.2%	27	18	45	11.2%	4	NA	12	165.1	10	170.9	17	372.9	2	NA
	White	89.5%	142	191	333	83.0%	37	30.2	82	101.6	103	104.9	58	67.0	53	90.5
Dauphin	Black	18.0%	37	29	66	22.9%	9	NA	19	195.4	19	197.9	16	217.7	3	NA
	White	77.0%	77	125	202	70.1%	18	39.4	59	171.9	59	134.3	37	83.9	29	92.8
Delaware	Black	18.9%	96	109	205	19.6%	14	40.6	34	127.4	83	373.9	56	386.3	18	235.3
	White	75.2%	391	414	805	76.8%	60	57.7	247	326.9	236	280.3	173	200.9	89	127.2
Montgomery	Black	8.9%	34	50	84	9.3%	12	61.0	23	143.1	17	105.0	23	202.7	9	NA
	White	84.2%	325	413	738	81.5%	87	53.1	186	165.2	192	134.0	155	118.0	118	109.8
Philadelphia	Black	46.7%	1,179	771	1,950	53.8%	119	51.1	290	177.4	754	541.5	638	559.3	149	203.9
	White	45.8%	684	631	1,315	36.3%	63	37.2	345	209.6	413	300.5	337	269.4	157	140.3
Pennsylvania	Black	10.8%	1,705	1,313	3,018	17.9%	252	57.0	549	171.4	1,097	405.2	892	441.3	228	175.8
	White	85.5%	5,674	6,964	12,640	74.8%	1,120	42.4	3,439	173.6	3,840	173.6	2,645	122.6	1,596	89.4

INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC ACCIDENTS

In 2009, among Pennsylvania residents, there were 12,264 hospitalizations due to motor vehicle traffic (MVT) accidents. On average, one resident was hospitalized every 45 minutes.

Injury Definition

Motor vehicle traffic accidents include any accident involving a motor vehicle that originates, terminates or occurs on a public highway.

A “public highway” is defined as the entire width between property lines of land open to the public for purposes of moving persons or property.

If unspecified, an accident involving motor vehicles is assumed to be a traffic accident.

HIGHLIGHTS

- *Age-adjusted rates have generally been **decreasing** over 2005 to 2009.*
- *Most common demographic is **white males**, ages 15 to 59.*
- *Of all Pennsylvania counties, **Monroe** shows the highest rate.*

Trends Over Time

- Age-adjusted hospitalization rates for MVT injury decreased annually from 2005 to 2009, from 119.3 to 94.2 hospitalizations per 100,000 population, a net decrease of 21 percent.
- The MVT hospitalization rate dropped by nearly 10 percent in 2008, and again in 2009.
- Males showed significantly higher age-adjusted MVT hospitalization rates than females over 2005 to 2009 (rates were 117.8 and 70.9, respectively, in 2009).
- Black males and females showed higher age-adjusted MVT hospitalization rates than white males and females over 2005 to 2009.

Demographic Trends

- Males showed significantly higher MVT hospitalization rates than females among most age groups. Male rates were up to two times greater than female rates.
- Black males showed significantly higher MVT hospitalization rates than white males for ages less than 15, as well as for most ages 30 to 69.
- Rural populations generally showed higher MVT hospitalization rates than urban populations. Rural rates were significantly higher for ages 15 to 19.

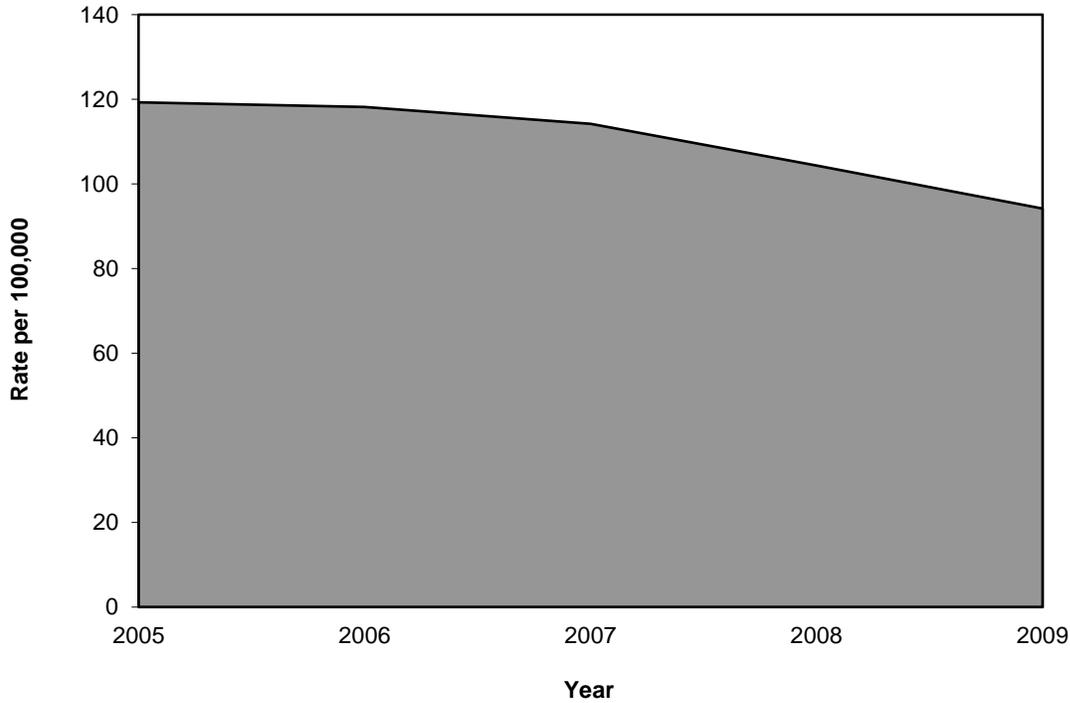
Regional Trends

- The Northeast Health District showed the highest age-specific MVT hospitalization rates, while the North Central Health District showed the lowest rates.
- Eleven counties showed age-adjusted MVT hospitalization rates that were significantly higher than the comparable state rate for 2009.

INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, 2005-2009

Year	No.	Rate
2005	15,074	119.3
2006	15,020	118.2
2007	14,518	114.2
2008	13,350	104.4
2009	12,264	94.2



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2005-2009

Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2005	115.4	94.2	149.4	114.4	112.3	125.0
2006	110.3	82.7	141.3	118.3	117.8	118.9
2007	105.7	86.0	129.1	114.9	108.8	118.8
2008	100.7	82.8	122.5	103.1	92.0	111.6
2009	84.8	76.3	123.1	96.4	84.1	87.5

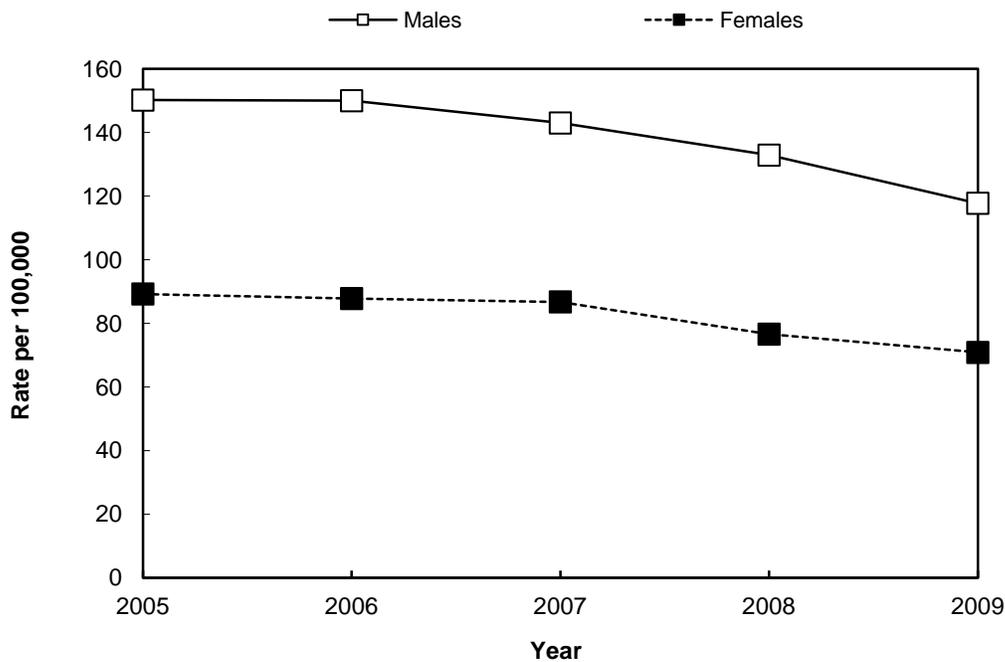
NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population.
Rates are per 100,000. Data for 2005-2009 based on ICD-9-CM codes. See Technical Notes.

INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX PENNSYLVANIA RESIDENTS, 2005-2009

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2005	9,094	150.2 *	2005	5,978	89.2
2006	9,147	150.0 *	2006	5,871	87.8
2007	8,745	143.0 *	2007	5,768	86.8
2008	8,173	132.9 *	2008	5,159	76.6
2009	7,359	117.8 *	2009	4,875	70.9

** denotes a statistically significant difference between groups at level of $p = .05$*



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2005-2009

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2005	146.9	158.7 *	2005	84.6	101.7 *
2006	147.4	157.0 *	2006	87.0	90.1
2007	141.9	145.7	2007	84.5	93.0 *
2008	130.2	139.9 *	2008	76.2	77.9
2009	117.2	119.3	2009	69.0	76.3 *

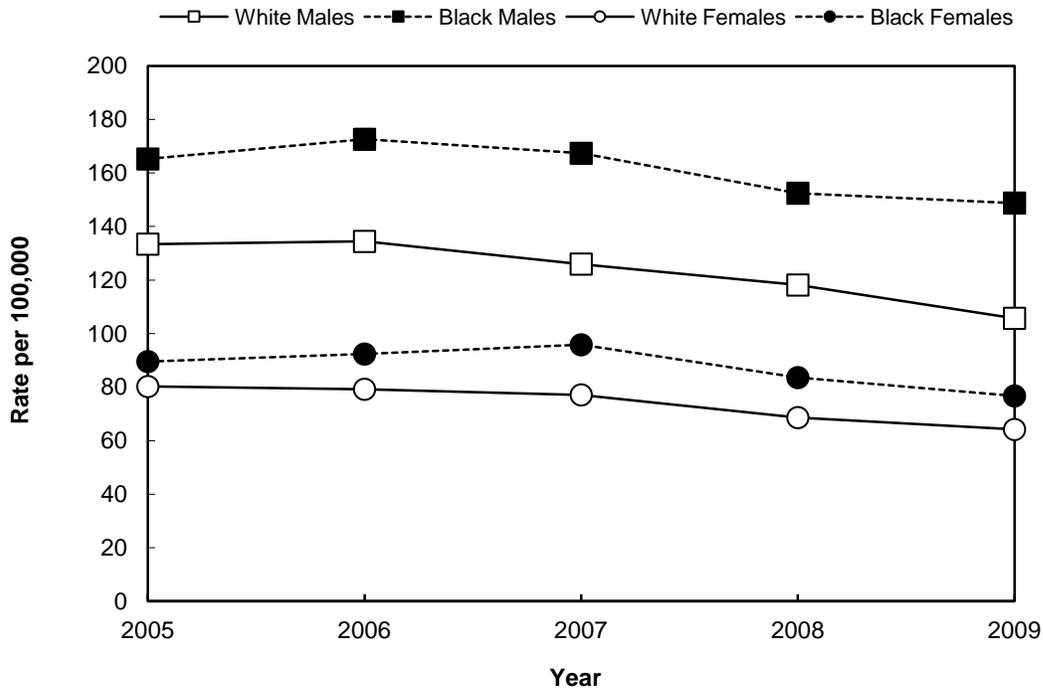
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX AND RACE OR ETHNICITY PENNSYLVANIA RESIDENTS, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	7,012	1,019	4,728	614	325	168
2006	7,096	1,054	4,618	650	325	165
2007	6,658	1,054	4,460	668	304	200
2008	6,291	960	4,034	592	386	180
2009	5,723	956	3,845	553	352	220



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	133.4	165.2 *	80.2	89.5	129.5	67.6
2006	134.4	172.6 *	79.2	92.3 *	119.9	65.8
2007	126.0	167.3 *	77.1	95.8 *	114.6	83.9
2008	118.1	152.4 *	68.6	83.6 *	156.7	70.4
2009	105.7	148.7 *	64.2	76.7 *	124.8	80.6

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Hispanics may be of any race. Hispanic numbers include whites, blacks and others of Hispanic ethnicity. Therefore, Hispanics must not be compared to whites or blacks, as the groups are not mutually exclusive.

INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2009

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	12,264	97.3	7,359	120.1	4,875	75.3	8,762	95.5	3,502	102.1
< 5	113	15.1	86	22.5	27	7.4 *	95	16.9	18	9.8 *
5-9	214	28.1	136	34.9	76	20.4 *	176	31.0	38	19.5 *
10-14	292	36.5	187	45.8	105	26.8 *	218	36.8	74	35.5
15-19	1,204	128.5	719	152.7	483	103.6 *	834	123.4	370	141.8 *
20-24	1,435	158.9	923	201.4	510	114.7 *	1,026	157.1	409	163.8
25-29	981	129.6	647	166.6	333	90.3 *	680	119.7	301	159.2 *
30-34	761	101.4	475	125.0	281	75.8 *	547	98.9	214	108.3
35-39	753	94.5	499	125.6	251	62.8 *	543	92.6	210	99.6
40-44	842	97.0	540	125.6	300	68.5 *	571	89.6	271	117.2 *
45-49	941	102.8	629	139.3	309	66.6 *	684	102.2	257	104.3
50-54	958	106.7	589	134.1	366	79.8 *	695	106.6	263	106.8
55-59	788	95.8	490	123.2	298	70.1 *	575	97.3	213	91.9
60-64	634	90.7	343	103.1	288	78.6 *	447	90.1	187	92.1
65-69	521	97.4	283	114.7	238	82.5 *	354	94.9	167	103.0
70-74	462	104.5	208	106.9	254	102.6	319	103.0	143	107.9
75-79	474	130.5	223	149.5	248	115.9 *	330	129.2	144	133.7
80-84	479	172.8	207	196.8	271	157.5 *	360	183.2	119	147.3
85 +	412	125.3	175	166.2	237	106.1 *	308	130.6	104	111.8

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2009

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
TOTAL	5,723	109.1	956	147.2		3,845	69.6	553	77.3		573	88.6
< 5	32	10.4	33	61.7	*	14	4.8	7	NA		14	18.4
5-9	65	20.6	41	77.9	*	34	11.3	22	43.3	*	27	40.2
10-14	113	34.0	51	91.9	*	70	22.0	14	26.1		35	56.5
15-19	568	147.1	83	133.0		397	103.6	43	70.2	*	66	98.3
20-24	687	182.8	124	200.3		376	103.1	70	116.6		76	136.8
25-29	487	152.8	89	167.5		234	77.7	51	99.5		50	99.8
30-34	324	102.7	91	196.2	*	186	61.0	50	105.1	*	46	98.2
35-39	364	108.2	88	203.8	*	190	56.8	31	66.0		42	87.6
40-44	431	116.3	59	138.1		240	64.3	31	64.3		43	102.4
45-49	496	125.2	83	199.7	*	248	61.8	37	76.9		40	104.1
50-54	481	122.9	67	183.7	*	284	70.7	57	128.2	*	40	145.2
55-59	413	115.2	46	155.3		230	61.2	44	115.2	*	23	105.2
60-64	293	96.9	37	163.3	*	240	73.4	29	94.4		21	147.8
65-69	240	105.9	24	161.8		198	75.8	24	112.7		16	157.3
70-74	182	101.5	12	103.3		218	96.8	15	82.5		13	181.8
75-79	201	145.4	15	175.2		227	115.7	9	NA		11	208.5
80-84	188	193.0	6	NA		245	155.4	12	98.5		7	NA
85 +	158	162.9	7	NA		214	104.3	7	NA		3	NA

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Hispanics may be of any race; therefore, their rates must not be compared to whites or blacks.

INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2009

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	810	87.7	565	83.0	1,993	126.6	5,012	98.8	1,413	85.7	2,471	91.4
< 5	5	NA	0	NA	20	23.0	62	18.8	19	18.9	7	NA
5-9	13	24.3	10	27.9	27	29.8	119	36.0 +	26	25.6	19	12.6 -
10-14	13	22.4	12	31.5	54	54.6 +	148	43.7 +	27	25.9	38	23.4 -
15-19	83	118.7	71	108.2	216	187.1 +	507	133.8	131	113.7	196	102.1 -
20-24	102	161.6	76	105.2 -	210	187.7 +	608	166.1	146	134.8 -	293	161.5
25-29	62	116.7	35	101.6	138	148.8	420	128.7	99	99.4 -	227	150.4 +
30-34	44	81.1	26	68.5 -	119	130.0 +	333	105.8	76	76.2 -	163	106.9
35-39	52	92.0	27	68.5	136	138.8 +	283	85.2	109	102.6	146	88.6
40-44	63	102.3	35	81.3	156	144.9 +	294	82.5 -	127	110.0	167	90.6
45-49	47	71.1 -	34	74.6	170	149.1 +	377	102.4	113	93.6	200	99.4
50-54	76	115.3	39	85.7	156	137.9 +	382	108.4	111	93.9	194	95.6
55-59	44	71.7	36	84.6	110	104.1	322	102.4	81	73.5 -	195	103.4
60-64	43	80.1	29	78.2	110	117.8 +	251	96.3	74	79.1	127	79.0
65-69	45	107.1	25	82.2	86	118.3	192	98.3	76	101.7	97	80.9
70-74	34	95.5	25	100.1	71	121.2	190	118.1	53	88.2	89	87.2
75-79	32	108.3	32	158.8	74	158.4	186	141.3	46	96.3 -	104	119.2
80-84	32	143.5	26	170.8	80	225.4 +	173	176.1	51	149.4	117	162.9
85 +	20	76.7 -	27	151.9	60	146.1	165	138.7	48	124.9	92	106.4

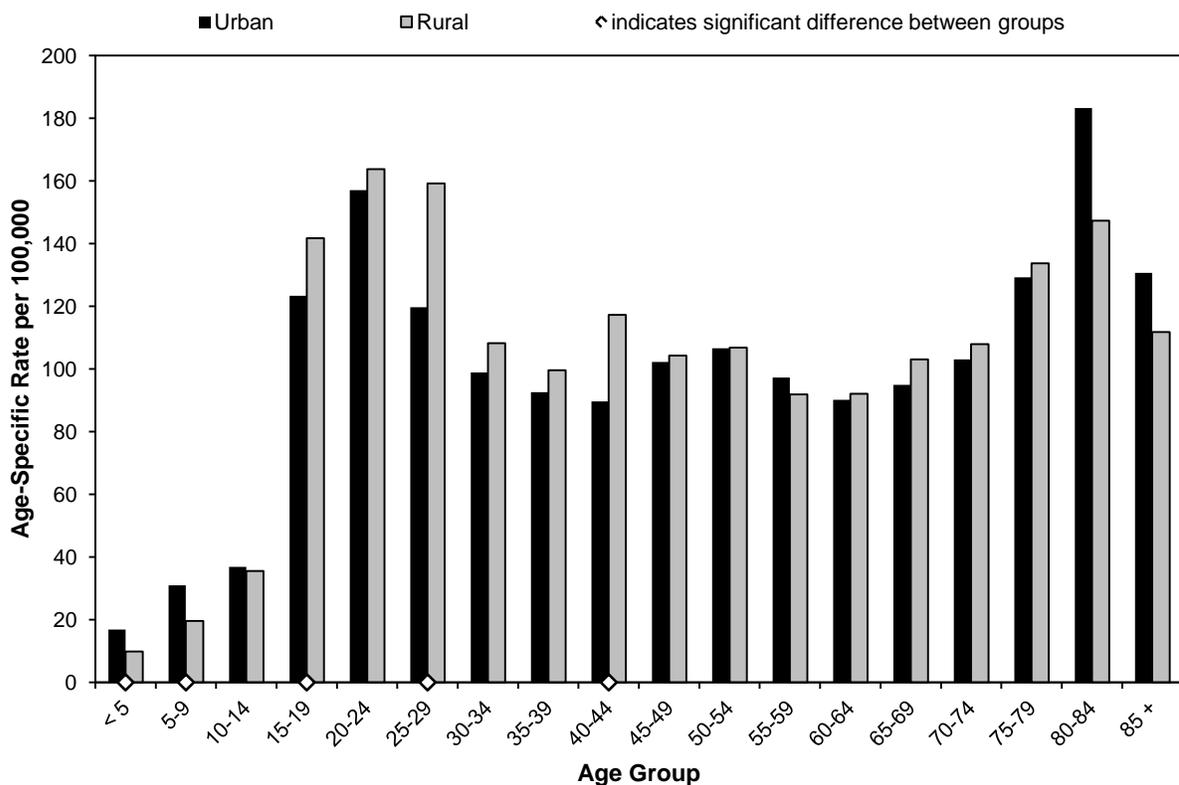
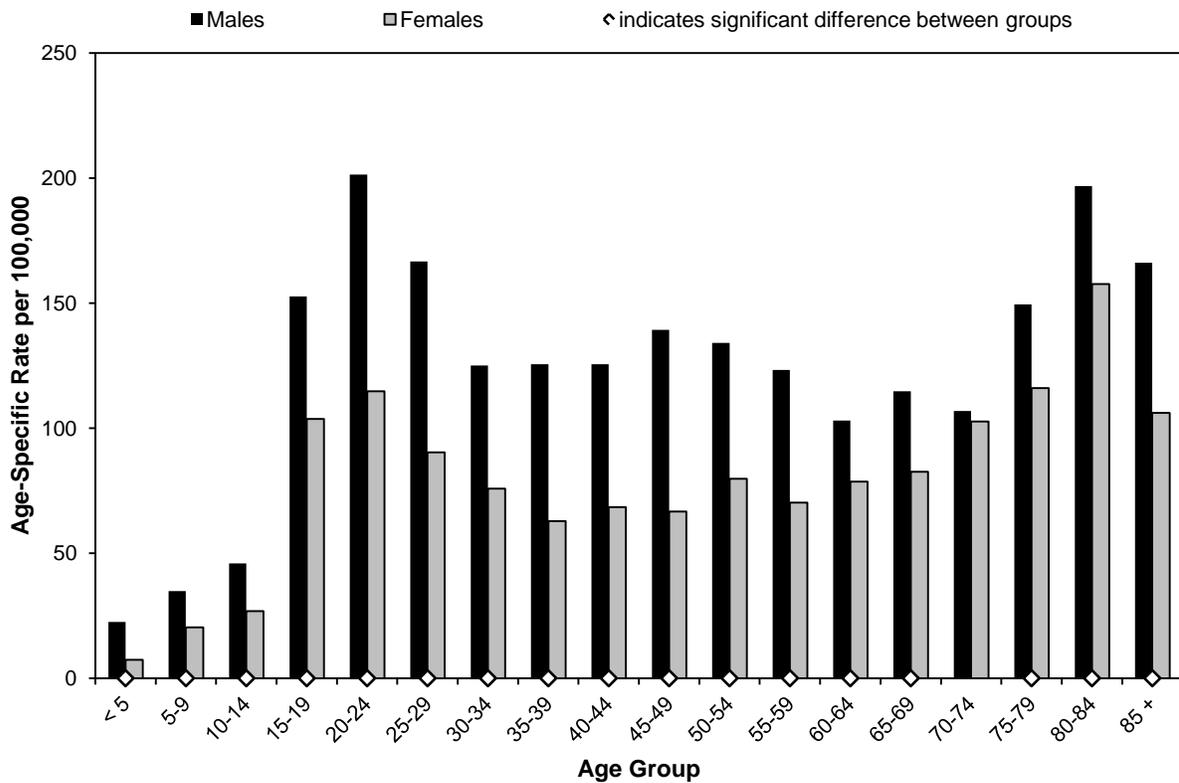
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total.

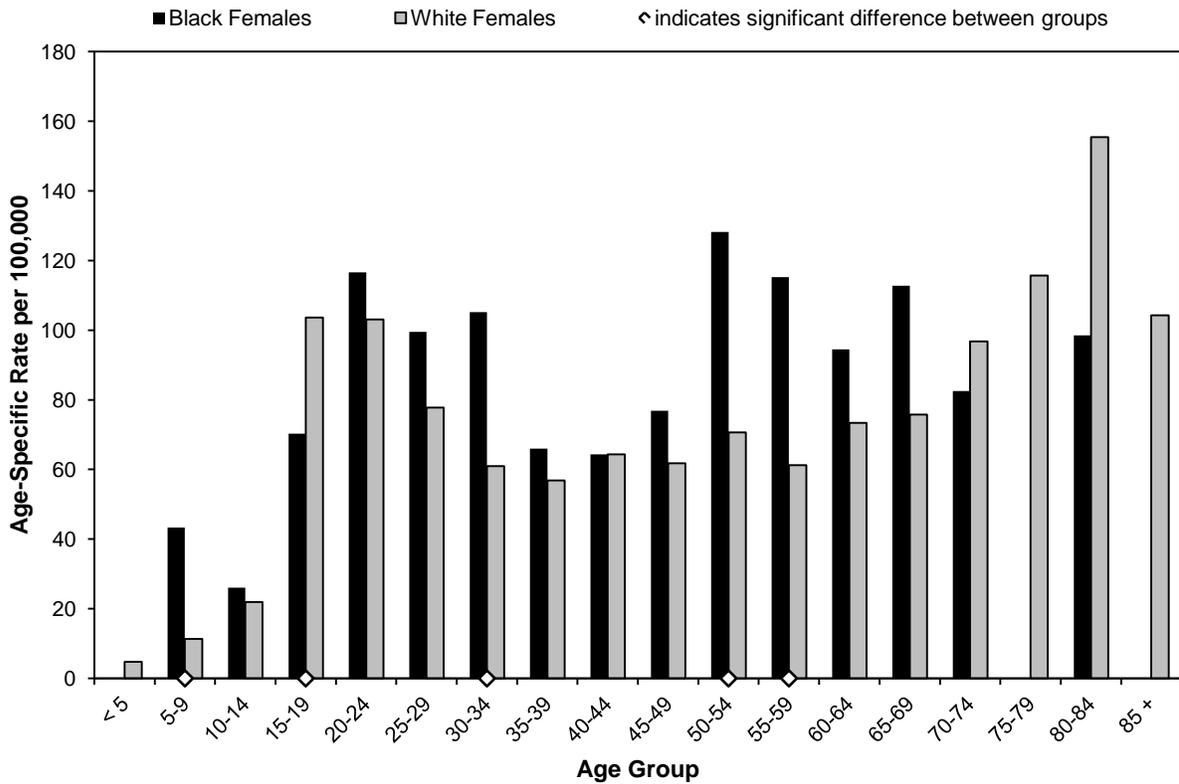
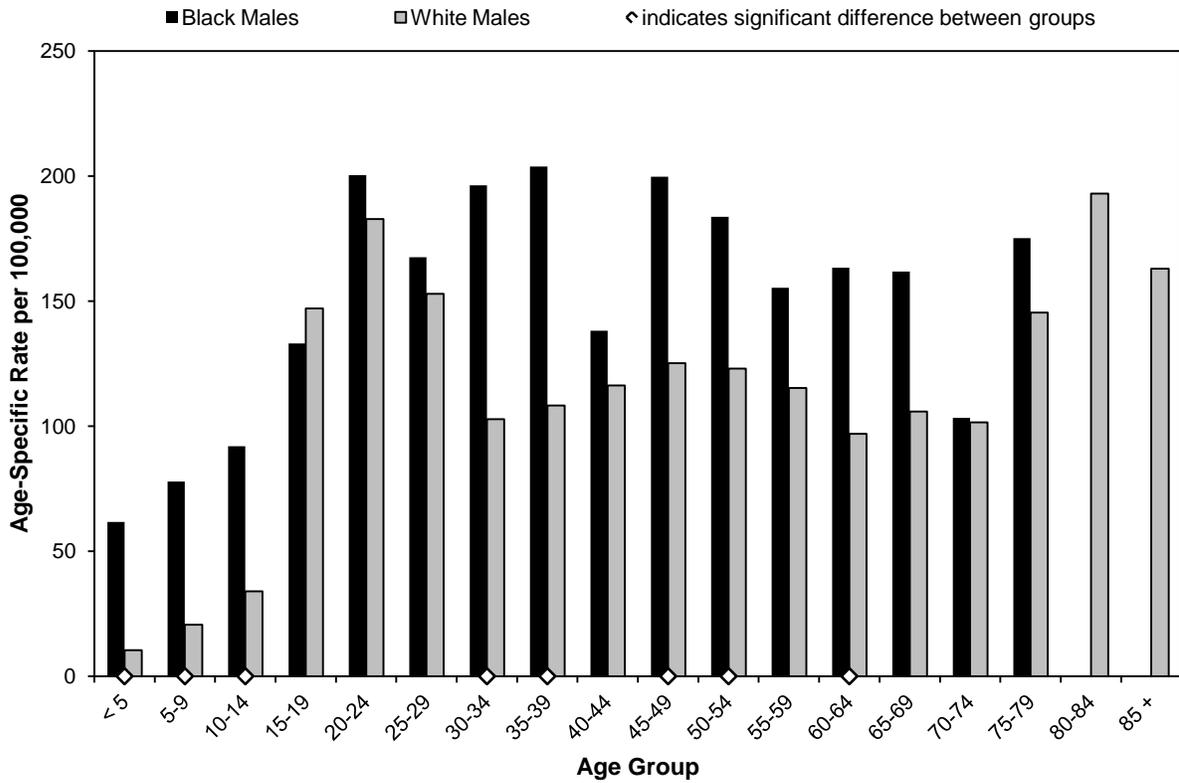
INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

AGE-SPECIFIC HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS PENNSYLVANIA RESIDENTS, 2009



INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

AGE-SPECIFIC HOSPITALIZATION RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2009



INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2009

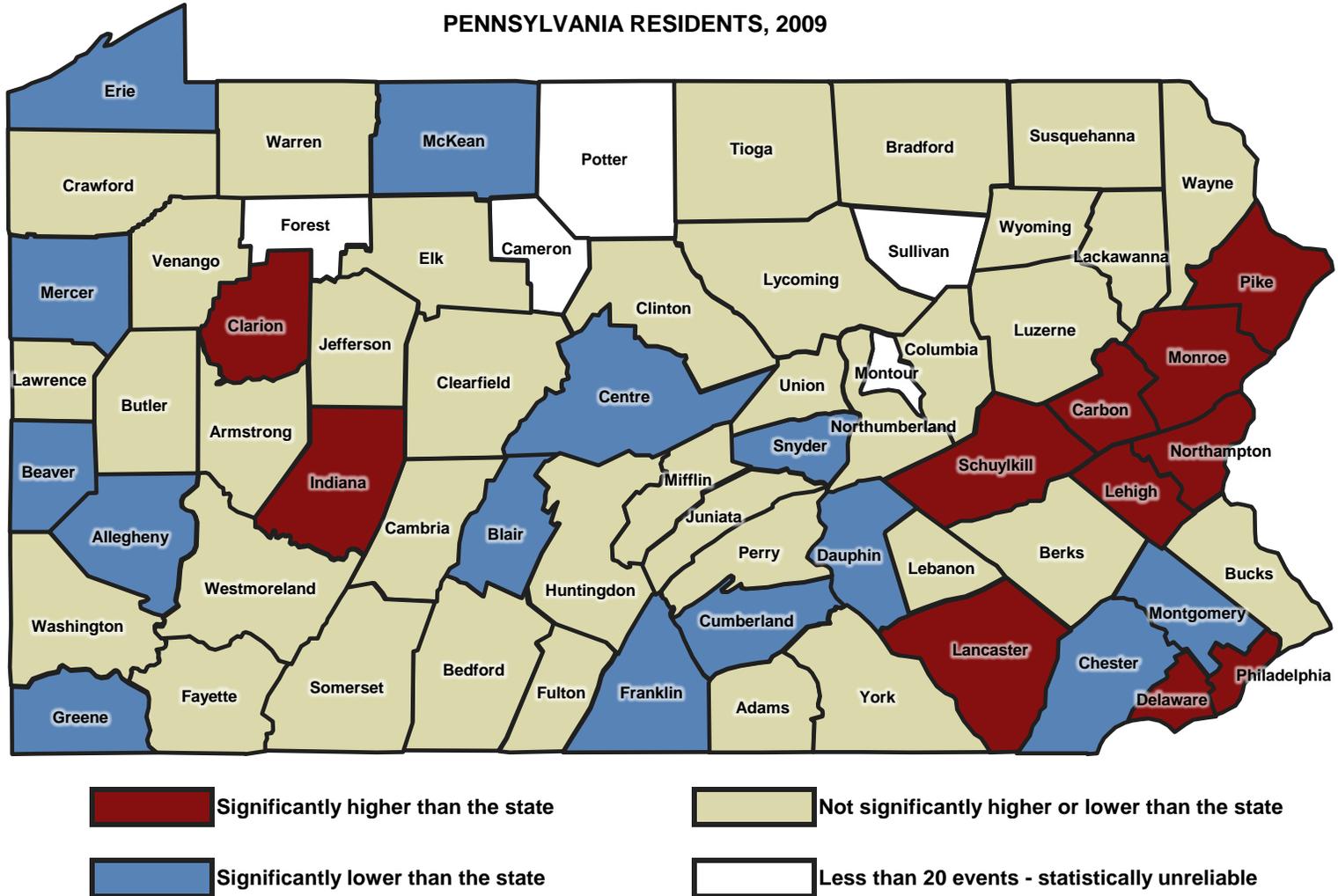
District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
Northeast	1,993	123.1	117.7-128.5 +	Southeast	5,012	96.4	93.7-99.0
Carbon	101	156.2	125.8-186.7 +	Berks	431	104.0	94.2-113.8
Lackawanna	217	100.4	87.1-113.8	Bucks	616	98.1	90.3-105.8
Lehigh	407	116.5	105.2-127.8 +	Chester	325	64.9	57.8-72.0 -
Luzerne	282	86.1	76.0-96.1	Delaware	611	105.3	96.9-113.6 +
Monroe	327	194.7	173.6-215.8 +	Lancaster	556	106.2	97.4-115.1 +
Northampton	448	144.7	131.3-158.1 +	Montgomery	666	83.0	76.7-89.3 -
Pike	75	128.4	99.3-157.5 +	Philadelphia	1,631	103.8	98.7-108.8 +
Susquehanna	41	100.9	70.0-131.7	Schuylkill	176	118.9	101.3-136.4 +
Wayne	59	109.6	81.6-137.6				
Wyoming	36	129.5	87.2-171.9				
North Central	565	76.3	70.0-82.6 -	South Central	1,413	84.1	79.7-88.5 -
Bradford	53	87.6	64.0-111.2	Adams	96	90.6	72.5-108.7
Centre	84	53.8	42.3-65.3 -	Bedford	52	106.8	77.7-135.8
Clinton	34	83.5	55.4-111.5	Blair	98	77.2	61.9-92.5 -
Columbia	67	99.2	75.4-122.9	Cumberland	160	64.6	54.6-74.6 -
Lycoming	110	85.3	69.4-101.2	Dauphin	200	77.3	66.6-88.0 -
Montour	17	NA		Franklin	101	70.4	56.7-84.1 -
Northumberland	98	105.2	84.4-126.0	Fulton	21	142.2	81.4-203.0
Potter	12	NA		Huntingdon	40	81.3	56.1-106.5
Snyder	23	56.5	33.4-79.7 -	Juniata	24	99.4	59.6-139.2
Sullivan	6	NA		Lebanon	125	94.6	78.0-111.2
Tioga	27	69.8	43.5-96.2	Mifflin	52	120.0	87.4-152.6
Union	34	71.5	47.4-95.5	Perry	57	129.1	95.6-162.7
				York	387	88.9	80.0-97.7
Northwest	810	84.8	79.0-90.6 -	Southwest	2,471	87.5	84.1-91.0 -
Cameron	7	NA		Allegheny	1,011	78.7	73.9-83.6 -
Clarion	58	146.8	109.0-184.5 +	Armstrong	62	92.8	69.7-115.9
Clearfield	82	95.5	74.8-116.2	Beaver	135	75.5	62.8-88.3 -
Crawford	78	89.0	69.2-108.7	Butler	163	86.1	72.9-99.4
Elk	37	125.4	85.0-165.8	Cambria	162	106.0	89.7-122.3
Erie	201	68.8	59.3-78.3 -	Fayette	134	96.3	80.0-112.7
Forest	8	NA		Greene	27	65.5	40.8-90.3 -
Jefferson	55	124.6	91.7-157.5	Indiana	111	134.9	109.8-160.0 +
Lawrence	76	76.7	59.5-94.0	Somerset	86	108.3	85.4-131.1
McKean	22	50.3	29.3-71.4 -	Washington	227	107.4	93.4-121.4
Mercer	85	72.6	57.2-88.1 -	Westmoreland	353	93.0	83.3-102.7
Venango	57	105.1	77.8-132.3				
Warren	44	109.2	76.9-141.5	Pennsylvania	12,264	94.2	92.5-95.8

NOTE: Rates based on less than 20 events are unreliable and were not calculated. See Technical Notes.

+/- denotes that the county's rate is significantly higher or lower than the state at the p=.05 level.

INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

AGE-ADJUSTED HOSPITALIZATION RATES BY COUNTY,
WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE
PENNSYLVANIA RESIDENTS, 2009



NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. See Technical Notes.

INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2009

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	7,359	4,875	12,264	1,823	56.1	3,177	131.8	2,536	98.3	2,380	98.4	2,348	120.6
Northeast	1,207	770	1,993	317	80.8	467	157.7	462	144.5	376	120.4	371	145.7
Carbon	71	30	101	20	143.9	30	239.8	21	161.9	23	171.5	7	NA
Lackawanna	131	86	217	30	59.4	48	119.2	50	122.7	38	94.3	51	138.0
Lehigh	247	160	407	71	79.5	80	120.1	101	146.5	76	115.2	79	149.9
Luzerne	156	112	282	43	60.3	74	124.9	51	79.8	49	79.5	65	114.5
Monroe	197	129	327	50	110.3	83	266.4	81	224.6	66	200.4	47	225.3
Northampton	270	178	448	70	87.5	101	177.7	108	179.1	85	149.6	84	186.4
Pike	47	28	75	11	79.3	20	204.1	20	153.8	11	78.3	13	132.5
Susquehanna	24	17	41	4	NA	12	175.4	12	151.5	4	NA	9	NA
Wayne	36	23	59	11	101.8	8	NA	11	106.9	20	164.2	9	NA
Wyoming	28	7	36	7	NA	11	232.7	7	NA	4	NA	7	NA
Southeast	3,008	2,004	5,012	836	60.6	1,361	135.2	954	90.3	955	103.0	906	128.5
Berks	266	165	431	70	61.3	106	140.2	98	116.1	85	114.2	72	123.1
Bucks	388	228	616	97	60.8	147	140.4	118	82.6	122	94.9	132	146.0
Chester	182	143	325	40	28.6	93	100.8	64	58.2	59	62.9	69	109.4
Delaware	349	262	611	123	82.3	157	144.0	110	96.1	116	110.1	105	131.6
Lancaster	330	226	556	108	75.1	122	124.6	105	105.4	109	120.4	112	147.5
Montgomery	380	286	666	96	47.9	153	109.4	114	65.7	145	96.3	158	134.3
Philadelphia	1,000	631	1,631	273	62.1	532	147.5	307	102.8	298	116.7	221	114.7
Schuylkill	113	63	176	29	91.1	51	190.2	38	116.0	21	73.5	37	137.1

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	7,359	4,875	12,264	1,823	56.1	3,177	131.8	2,536	98.3	2,380	98.4	2,348	120.6
North Central	323	232	565	93	53.3	137	94.7	96	74.9	104	83.1	135	124.4
Bradford	32	21	53	8	NA	15	148.5	10	79.9	7	NA	13	122.4
Centre	38	45	84	11	27.3	27	62.0	13	54.2	16	73.4	17	102.3
Clinton	15	19	34	2	NA	7	NA	5	NA	10	148.0	10	162.2
Columbia	35	31	67	11	63.2	10	71.5	14	124.5	13	111.2	19	176.1
Lycoming	72	34	110	11	38.9	28	123.3	19	81.4	19	82.5	33	169.2
Montour	10	7	17	5	NA	1	NA	3	NA	6	NA	2	NA
Northumberland	59	39	98	23	108.6	18	118.7	15	79.1	20	106.2	22	128.1
Potter	7	4	12	4	NA	3	NA	1	NA	2	NA	2	NA
Snyder	15	8	23	10	97.7	5	NA	3	NA	2	NA	3	NA
Sullivan	4	1	6	1	NA	2	NA	1	NA	0	NA	2	NA
Tioga	13	14	27	2	NA	8	NA	7	NA	5	NA	5	NA
Union	23	9	34	5	NA	13	125.9	5	NA	4	NA	7	NA
South Central	860	549	1,413	203	48.1	321	104.4	349	101.9	266	82.6	274	107.4
Adams	58	38	96	13	48.2	26	135.9	17	79.9	13	66.0	27	176.9
Bedford	24	28	52	8	NA	12	145.3	12	116.2	8	NA	12	133.4
Blair	61	37	98	15	48.7	23	100.6	26	105.4	17	67.7	17	75.0
Cumberland	99	61	160	20	34.2	37	76.3	42	91.4	32	74.2	29	79.7
Dauphin	126	74	200	31	46.3	46	98.7	52	92.2	36	67.8	35	97.4
Franklin	47	53	101	15	38.9	22	83.0	27	96.6	13	47.5	24	97.7
Fulton	13	8	21	0	NA	5	NA	7	NA	4	NA	5	NA
Huntingdon	25	14	40	6	NA	9	NA	5	NA	12	135.1	8	NA
Juniata	13	10	24	4	NA	3	NA	5	NA	7	NA	5	NA
Lebanon	79	46	125	22	67.7	24	94.0	29	115.3	18	72.3	32	142.8
Mifflin	32	19	52	6	NA	12	155.7	19	211.6	10	114.0	5	NA
Perry	35	22	57	9	NA	18	218.3	18	186.9	8	NA	4	NA
York	248	139	387	54	48.5	84	107.2	90	95.0	88	104.8	71	117.1

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	7,359	4,875	12,264	1,823	56.1	3,177	131.8	2,536	98.3	2,380	98.4	2,348	120.6
Northwest	478	332	810	114	49.1	208	122.0	162	87.9	163	90.1	163	104.8
Cameron	4	3	7	0	NA	2	NA	1	NA	1	NA	3	NA
Clarion	34	24	58	8	NA	17	225.6	12	167.3	12	159.2	9	NA
Clearfield	44	38	82	9	NA	20	133.8	19	104.6	16	95.1	18	123.1
Crawford	50	28	78	13	55.8	19	119.7	15	88.5	17	95.8	14	95.4
Elk	21	16	37	8	NA	12	245.4	7	NA	4	NA	6	NA
Erie	119	82	201	22	29.6	52	90.0	51	91.7	38	73.5	38	92.8
Forest	2	6	8	1	NA	1	NA	0	NA	4	NA	2	NA
Jefferson	32	23	55	7	NA	19	246.1	9	NA	11	120.3	9	NA
Lawrence	53	23	76	10	44.6	19	125.2	4	NA	21	117.1	22	130.0
McKean	10	12	22	5	NA	5	NA	3	NA	6	NA	3	NA
Mercer	44	41	85	11	37.1	23	113.2	22	97.7	11	48.3	18	86.5
Venango	32	25	57	9	NA	10	111.5	10	93.6	16	139.1	12	123.9
Warren	33	11	44	11	115.1	9	NA	9	NA	6	NA	9	NA
Southwest	1,483	988	2,471	260	40.1	683	140.9	513	93.2	516	93.4	499	106.7
Allegheny	616	395	1,011	98	33.0	279	124.3	207	83.6	209	85.2	218	106.7
Armstrong	38	24	62	10	59.5	17	163.8	13	93.3	10	69.9	12	96.6
Beaver	80	55	135	13	32.7	33	113.3	31	88.7	25	68.6	33	105.1
Butler	98	65	163	26	53.6	41	125.6	40	102.1	33	91.1	23	81.7
Cambria	91	71	162	12	36.6	35	136.2	39	135.1	37	125.2	39	143.9
Fayette	87	47	134	13	39.0	52	215.8	26	87.8	26	84.4	17	68.7
Greene	18	9	27	3	NA	12	154.6	3	NA	8	NA	1	NA
Indiana	62	49	111	13	55.6	35	195.3	18	115.4	19	114.7	26	186.2
Somerset	46	40	86	11	66.8	23	164.5	16	96.9	18	115.6	18	124.8
Washington	138	89	227	19	38.2	71	186.7	50	121.8	42	99.5	45	123.8
Westmoreland	209	144	353	42	51.5	85	140.0	70	94.0	89	115.7	67	97.7

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI),
BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2009

BLACK POPULATION BY COUNTY				WHITE POPULATION BY COUNTY				HISPANIC POPULATION BY COUNTY			
County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)
Allegheny	191	120.0	103.0-137.0	Allegheny	736	66.4	61.6-71.2 -	Berks	32	69.1	45.2-93.0 -
Chester	26	86.7	53.4-120.1	Chester	285	63.1	55.7-70.4 -	Lancaster	5	NA	
Dauphin	29	63.1	40.2-86.1 -	Dauphin	158	77.6	65.5-89.7	Lehigh	48	82.4	59.1-105.7
Delaware	150	143.4	120.5-166.4 +	Delaware	417	93.6	84.7-102.6	Philadelphia	163	89.7	75.9-103.5
Montgomery	72	102.0	78.4-125.5	Montgomery	497	71.9	65.5-78.2 -				
Philadelphia	787	109.0	101.3-116.6	Philadelphia	556	74.3	68.2-80.5 -				
Pennsylvania	1,510	110.9	105.3-116.5	Pennsylvania	9,597	84.9	83.2-86.6	Pennsylvania	573	102.5	94.1-110.9

NUMBER FOR SELECT AGE GROUPS AND AGE-SPECIFIC HOSPITALIZATION RATES
BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2009

Select Counties	Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+		
		Male	Female			All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.
County and Race	Cty. Pop.															
Allegheny	Black	13.6%	127	64	191	18.9%	32	56.7	67	189.2	54	176.9	28	107.1	10	56.7
	White	82.9%	441	295	736	72.8%	55	24.5	187	104.8	135	64.8	167	77.9	192	104.4
Chester	Black	6.2%	16	10	26	8.0%	3	NA	14	192.6	4	NA	2	NA	3	NA
	White	89.5%	157	128	285	87.7%	34	27.8	70	86.7	59	60.1	56	64.7	66	112.7
Dauphin	Black	18.0%	22	7	29	14.5%	9	NA	7	NA	7	NA	3	NA	3	NA
	White	77.0%	95	63	158	79.0%	20	43.8	34	99.1	41	93.3	32	72.5	31	99.2
Delaware	Black	18.9%	84	66	150	24.5%	38	110.3	43	161.2	26	117.1	29	200.1	14	183.0
	White	75.2%	240	177	417	68.2%	77	74.0	99	131.0	74	87.9	80	92.9	87	124.3
Montgomery	Black	8.9%	43	29	72	10.8%	14	71.2	24	149.4	15	92.6	14	123.4	5	NA
	White	84.2%	278	219	497	74.6%	64	39.0	101	89.7	82	57.2	111	84.5	139	129.4
Philadelphia	Black	46.7%	488	299	787	48.3%	151	64.9	247	151.1	161	115.6	154	135.0	74	101.3
	White	45.8%	343	213	556	34.1%	54	31.8	177	107.5	101	73.5	109	87.1	115	102.8
Pennsylvania	Black	10.8%	956	553	1,510	12.3%	294	66.6	475	148.3	329	121.5	281	139.0	131	101.0
	White	85.5%	5,723	3,845	9,597	78.3%	1,297	49.1	2,302	116.2	1,977	89.4	1,946	90.2	2,075	116.3

INJURY HOSPITALIZATIONS: SELF-POISONING

In 2009, among Pennsylvania residents, there were 7,837 hospitalizations due to self-inflicted poisoning (self-poisoning). On average, one resident was hospitalized every 68 minutes.

Injury Definition

Self-poisoning includes any poisoning event in which there was deliberate intent to self-harm.

Note: While some self-poisoning hospitalizations reflect suicide attempts, others may not. Not all those who self-injure are attempting suicide.

Intent is to be interpreted with caution for poisoning, as idiosyncrasies may exist with the coding process between particular hospitals or medical providers.

HIGHLIGHTS

- *Age-adjusted rates have generally been **stable** over 2005 to 2009.*
- *Most common demographic is **white females**, ages 15 to 49.*
- *Of all Pennsylvania counties, **Carbon** and **Schuylkill** show the highest rates.*

Trends Over Time

- Age-adjusted hospitalization rates for self-poisoning increased from 2005 to 2006, from 65.1 to 68.9 hospitalizations per 100,000 population. Rates then decreased to 63.9 hospitalizations per 100,000 population in 2009.
- Females showed significantly higher age-adjusted self-poisoning hospitalization rates than males over 2005 to 2009 (rates were 74.7 and 53.0, respectively, in 2009).
- Black males showed significantly higher age-adjusted self-poisoning hospitalization rates than white males over 2005 to 2009.

Demographic Trends

- Females showed significantly higher self-poisoning hospitalization rates among ages less than 60.
- Among males, whites showed higher self-poisoning hospitalization rates for ages 15 to 29, while blacks showed significantly higher rates for ages 40 to 64.

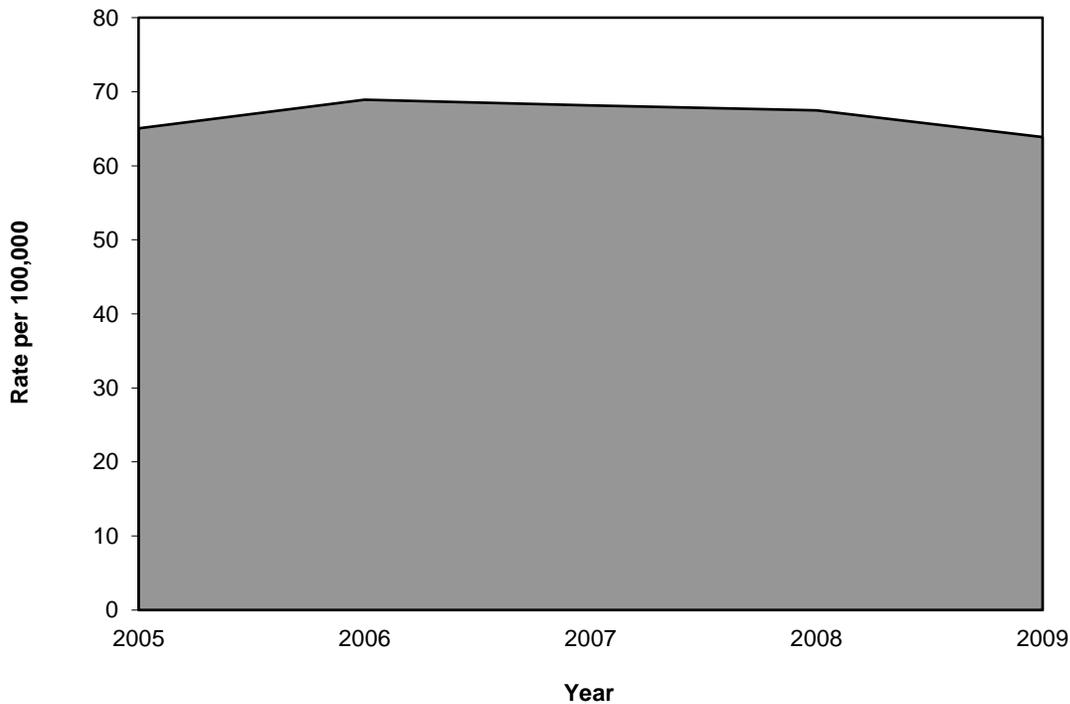
Regional Trends

- Self-poisoning accounted for the majority of self-injury hospitalizations in most counties.
- The Northwest Health District showed the highest age-specific self-poisoning hospitalization rates, while the South Central Health District showed the lowest rates. Other districts showed high rates for certain age groups.
- Twelve counties showed age-adjusted self-poisoning hospitalization rates in 2009 that were significantly higher than the comparable state rate.

INJURY HOSPITALIZATIONS: SELF-POISONING

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, 2005-2009

Year	No.	Rate
2005	7,839	65.1
2006	8,325	68.9
2007	8,220	68.2
2008	8,186	67.5
2009	7,837	63.9



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2005-2009

Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2005	89.7	59.5	70.3	65.3	54.6	61.4
2006	87.3	57.1	75.3	69.0	57.6	69.4
2007	88.6	65.0	73.3	68.5	60.2	64.0
2008	77.7	66.1	74.1	71.7	51.5	63.3
2009	80.6	57.4	69.6	66.2	53.1	59.7

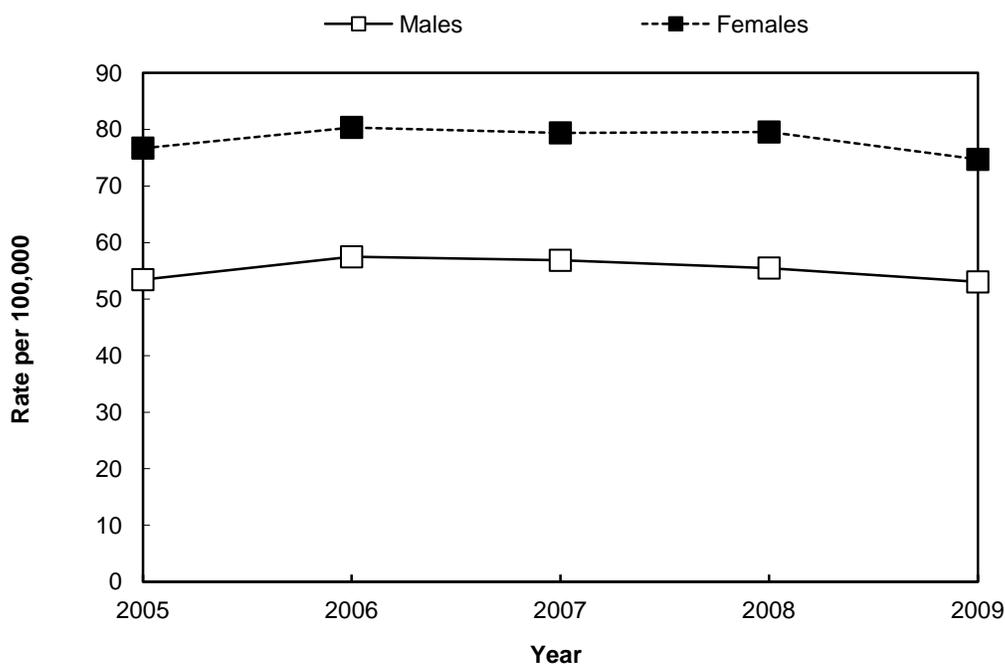
NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population.
Rates are per 100,000. Data for 2005-2009 based on ICD-9-CM codes. See Technical Notes.

INJURY HOSPITALIZATIONS: SELF-POISONING

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX PENNSYLVANIA RESIDENTS, 2005-2009

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2005	3,183	53.4 *	2005	4,656	76.7
2006	3,444	57.5 *	2006	4,881	80.4
2007	3,398	56.9 *	2007	4,821	79.4
2008	3,337	55.5 *	2008	4,848	79.6
2009	3,226	53.0 *	2009	4,610	74.7

** denotes a statistically significant difference between groups at level of $p = .05$*



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2005-2009

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2005	54.4	51.1	2005	74.8	82.1 *
2006	58.9	54.1	2006	77.8	87.6 *
2007	58.8	52.1 *	2007	76.6	87.3 *
2008	56.9	52.0	2008	77.6	85.4 *
2009	53.6	51.9	2009	73.0	80.0 *

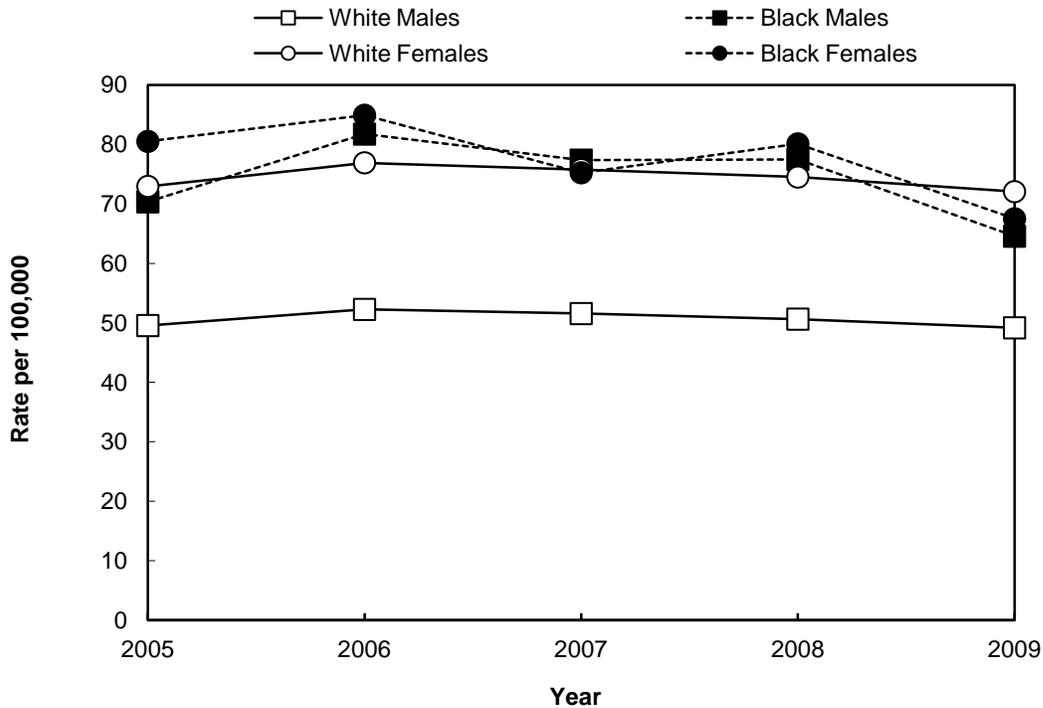
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY HOSPITALIZATIONS: SELF-POISONING

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX AND RACE OR ETHNICITY PENNSYLVANIA RESIDENTS, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	2,551	420	3,792	549	142	192
2006	2,689	498	3,969	580	168	201
2007	2,637	462	3,907	523	183	237
2008	2,607	462	3,856	563	184	286
2009	2,551	403	3,759	482	168	237



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	49.5	70.3 *	72.9	80.5	60.5	71.5
2006	52.3	81.7 *	76.9	84.9	61.8	76.7
2007	51.6	77.3 *	75.8	75.2	63.4	87.2
2008	50.6	77.5 *	74.5	80.1	67.1	98.1
2009	49.2	64.6 *	72.0	67.5	57.4	76.1

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Hispanics may be of any race. Hispanic numbers include whites, blacks and others of Hispanic ethnicity. Therefore, Hispanics must not be compared to whites or blacks, as the groups are not mutually exclusive.

INJURY HOSPITALIZATIONS: SELF-POISONING

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2009

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL		
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	
TOTAL	7,837	62.2	3,226	52.6	4,610	71.2		5,700	62.1	2,137	62.3
< 5	0	NA	0	NA	0	NA		0	NA	0	NA
5-9	5	NA	1	NA	4	NA		4	NA	1	NA
10-14	91	11.4	14	3.4	77	19.6	*	63	10.6	28	13.4
15-19	754	80.5	271	57.5	483	103.6	*	529	78.3	225	86.2
20-24	940	104.1	394	86.0	546	122.8	*	689	105.5	251	100.5
25-29	855	112.9	353	90.9	502	136.1	*	597	105.1	258	136.4
30-34	781	104.0	333	87.7	448	120.8	*	568	102.7	213	107.7
35-39	858	107.6	359	90.3	499	124.8	*	609	103.9	249	118.1
40-44	870	100.2	379	88.1	491	112.0	*	618	97.0	252	109.0
45-49	957	104.5	417	92.3	539	116.2	*	699	104.5	258	104.7
50-54	753	83.8	320	72.9	433	94.4	*	559	85.7	194	78.8
55-59	407	49.5	176	44.2	231	54.4	*	311	52.6	96	41.4
60-64	220	31.5	94	28.2	126	34.4		171	34.5	49	24.1
65-69	128	23.9	32	13.0	96	33.3	*	105	28.2	23	14.2
70-74	74	16.7	26	13.4	48	19.4		62	20.0	12	9.1
75-79	62	17.1	30	20.1	32	15.0		47	18.4	15	13.9
80-84	52	18.8	13	12.4	39	22.7		43	21.9	9	NA
85 +	30	9.1	14	13.3	16	7.2		26	11.0	4	NA

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY HOSPITALIZATIONS: SELF-POISONING

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2009

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	2,551	48.6	403	62.0	3,759	68.0	482	67.4	405	62.6
< 5	0	NA	0	NA	0	NA	0	NA	0	NA
5-9	1	NA	0	NA	0	NA	1	NA	3	NA
10-14	8	NA	2	NA	46	14.4	9	NA	17	27.5
15-19	210	54.4	20	32.1	369	96.3	62	101.3	43	64.0
20-24	310	82.5	49	79.2	427	117.1	64	106.6	55	99.0
25-29	286	89.8	35	65.9	410	136.2	55	107.3	47	93.8
30-34	256	81.2	49	105.7	356	116.7	49	103.0	51	108.9
35-39	290	86.2	38	88.0	409	122.4	53	112.9	44	91.8
40-44	287	77.4	66	154.5	407	109.0	49	101.7	46	109.6
45-49	323	81.5	57	137.1	454	113.1	56	116.4	38	98.9
50-54	257	65.7	44	120.7	372	92.6	38	85.5	29	105.3
55-59	148	41.3	23	77.6	195	51.9	23	60.2	14	64.0
60-64	76	25.1	13	57.4	110	33.6	10	32.6	9	NA
65-69	25	11.0	5	NA	84	32.1	7	NA	3	NA
70-74	24	13.4	0	NA	39	17.3	4	NA	2	NA
75-79	27	19.5	1	NA	29	14.8	1	NA	2	NA
80-84	9	NA	1	NA	38	24.1	0	NA	1	NA
85 +	14	14.4	0	NA	14	6.8	1	NA	1	NA

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Hispanics may be of any race; therefore, their rates must not be compared to whites or blacks.

INJURY HOSPITALIZATIONS: SELF-POISONING

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2009

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	702	76.0	374	54.9	1,062	67.4	3,325	65.5	841	51.0	1,533	56.7
< 5	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA
5-9	0	NA	0	NA	1	NA	2	NA	0	NA	2	NA
10-14	4	NA	4	NA	25	25.3 +	40	11.8	10	9.6	8	NA
15-19	72	103.0 +	41	62.5	109	94.4	328	86.6	81	70.3	123	64.1 -
20-24	89	141.0 +	52	72.0 -	130	116.2	406	110.9	93	85.9	170	93.7
25-29	86	161.9 +	46	133.5	121	130.5	337	103.3	100	100.4	165	109.3
30-34	76	140.0 +	33	86.9	107	116.9	312	99.1	98	98.3	155	101.7
35-39	73	129.1	36	91.3	104	106.1	354	106.6	110	103.5	181	109.9
40-44	100	162.3 +	47	109.2	110	102.2	345	96.9	83	71.9 -	185	100.4
45-49	75	113.5	49	107.4	128	112.3	391	106.2	94	77.9 -	220	109.4
50-54	63	95.6	37	81.3	104	91.9	349	99.0 +	63	53.3 -	137	67.5 -
55-59	39	63.6	14	32.9	49	46.4	187	59.5 +	40	36.3 -	78	41.4
60-64	12	22.3	1	NA	31	33.2	104	39.9 +	24	25.7	48	29.8
65-69	1	NA	4	NA	15	20.6	66	33.8 +	24	32.1	18	15.0 -
70-74	2	NA	2	NA	8	NA	35	21.8	8	NA	19	18.6
75-79	4	NA	5	NA	8	NA	27	20.5	6	NA	12	13.8
80-84	4	NA	2	NA	4	NA	30	30.5 +	4	NA	8	NA
85 +	2	NA	1	NA	8	NA	12	10.1	3	NA	4	NA

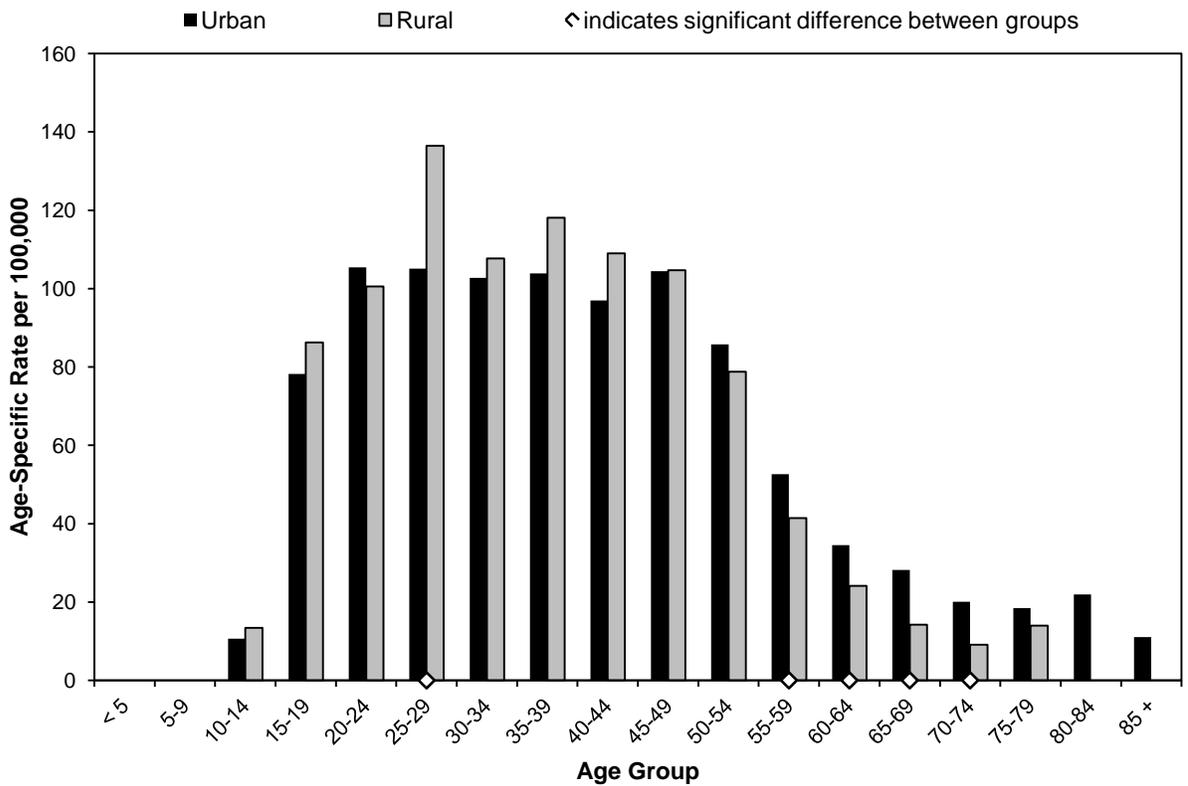
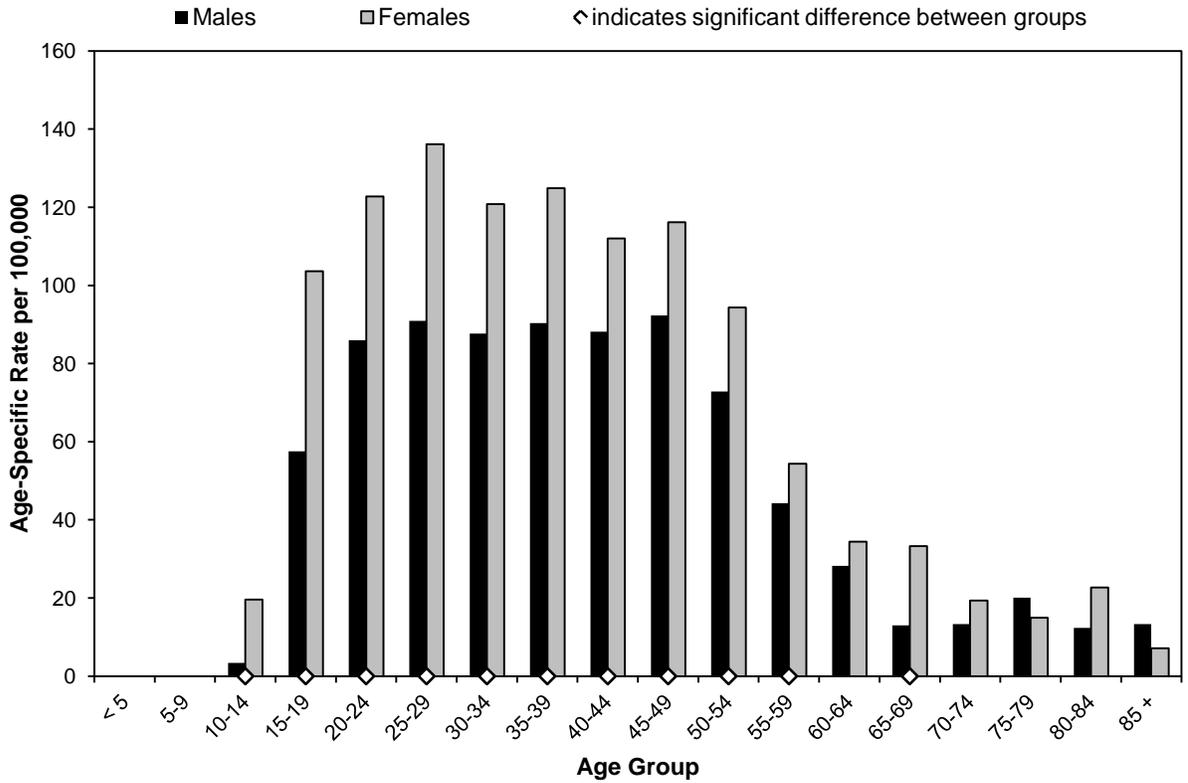
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total.

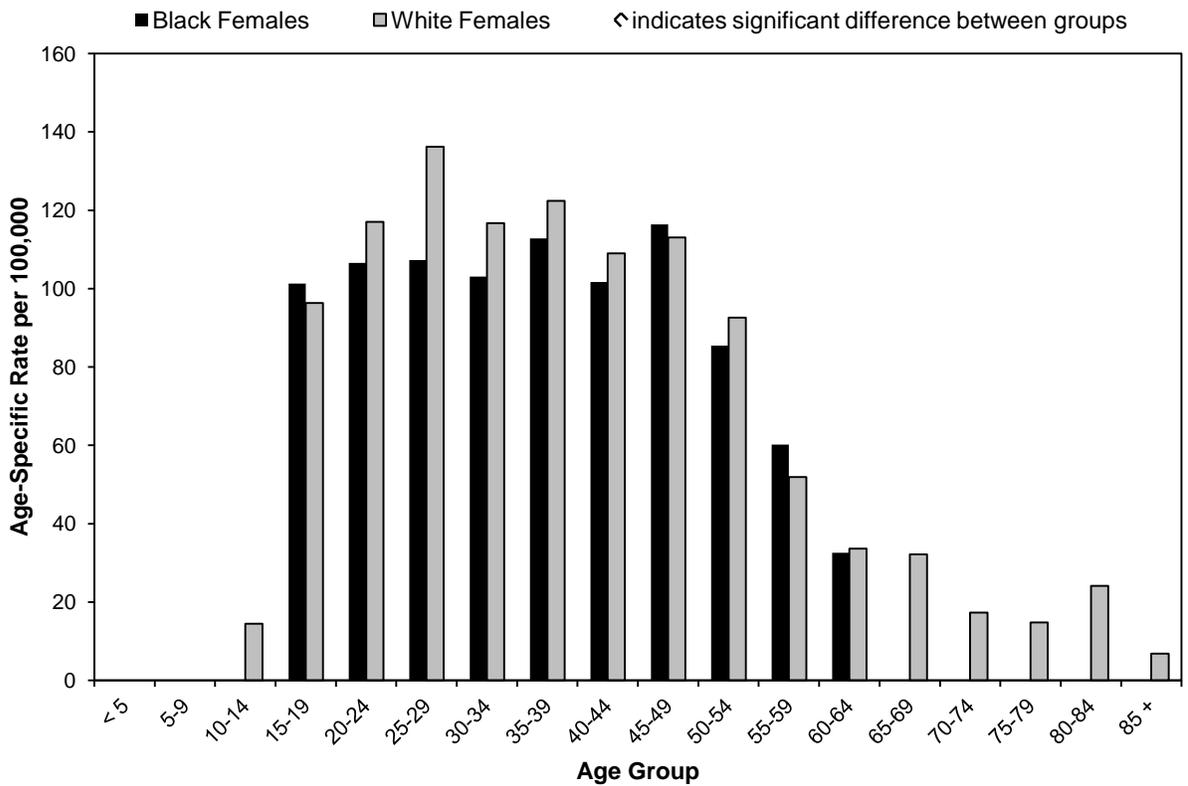
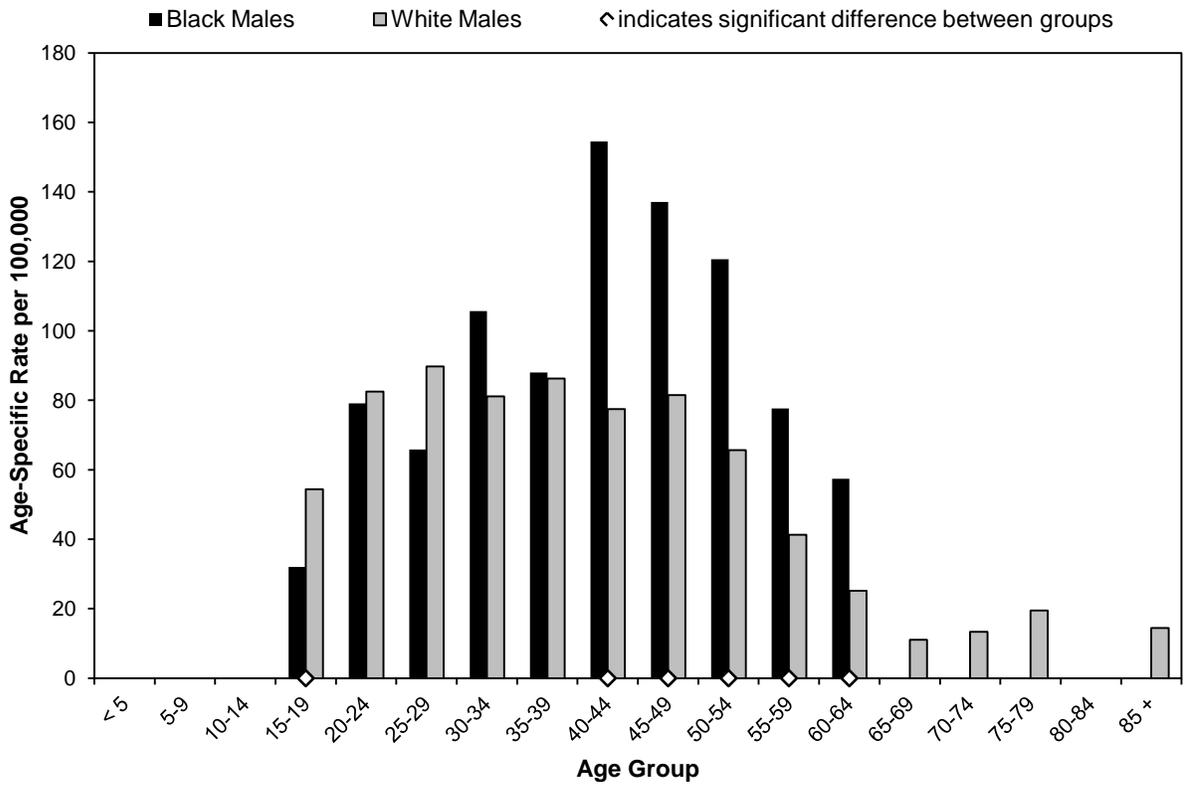
INJURY HOSPITALIZATIONS: SELF-POISONING

AGE-SPECIFIC HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS PENNSYLVANIA RESIDENTS, 2009



INJURY HOSPITALIZATIONS: SELF-POISONING

AGE-SPECIFIC HOSPITALIZATION RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2009



INJURY HOSPITALIZATIONS: SELF-POISONING

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2009

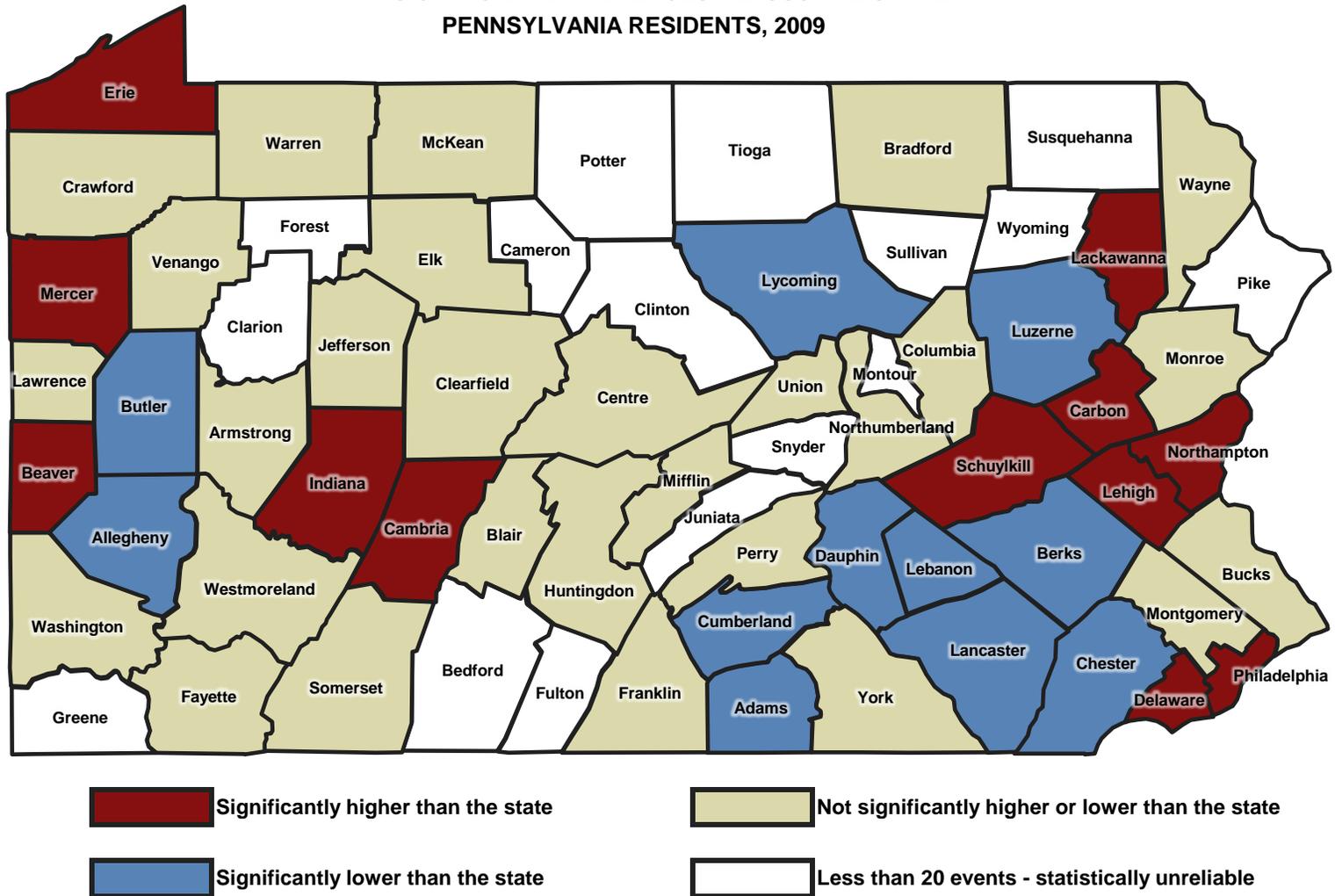
District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
Northeast	1,062	69.6	65.4-73.8 +	Southeast	3,325	66.2	63.9-68.4
Carbon	81	138.6	108.4-168.8 +	Berks	217	54.5	47.2-61.7 -
Lackawanna	162	80.2	67.8-92.5 +	Bucks	419	68.2	61.7-74.8
Lehigh	255	76.9	67.5-86.4 +	Chester	211	42.9	37.1-48.7 -
Luzerne	128	41.9	34.6-49.1 -	Delaware	457	82.8	75.2-90.4 +
Monroe	113	67.8	55.3-80.3	Lancaster	229	47.1	41.0-53.2 -
Northampton	252	87.4	76.6-98.2 +	Montgomery	459	60.2	54.7-65.7
Pike	15	NA		Philadelphia	1,142	75.1	70.7-79.4 +
Susquehanna	16	NA		Schuylkill	191	137.4	117.9-156.9 +
Wayne	25	58.2	35.4-81.0				
Wyoming	15	NA					
North Central	374	57.4	51.6-63.2	South Central	841	53.1	49.5-56.7 -
Bradford	46	83.7	59.5-107.9	Adams	31	31.2	20.2-42.2 -
Centre	96	74.3	59.4-89.2	Bedford	11	NA	
Clinton	13	NA		Blair	80	67.5	52.7-82.3
Columbia	39	65.3	44.8-85.8	Cumberland	106	45.8	37.1-54.5 -
Lycoming	39	33.9	23.2-44.5 -	Dauphin	129	52.3	43.3-61.4 -
Montour	10	NA		Franklin	66	50.9	38.7-63.2
Northumberland	69	83.7	63.9-103.4	Fulton	5	NA	
Potter	2	NA		Huntingdon	23	49.0	29.0-69.1
Snyder	15	NA		Juniata	11	NA	
Sullivan	1	NA		Lebanon	46	38.4	27.3-49.6 -
Tioga	14	NA		Mifflin	26	62.5	38.5-86.5
Union	30	67.0	43.0-90.9	Perry	26	63.2	38.9-87.4
				York	281	67.0	59.2-74.8
Northwest	702	80.6	74.6-86.6 +	Southwest	1,533	59.7	56.7-62.7
Cameron	7	NA		Allegheny	628	53.6	49.4-57.8 -
Clarion	16	NA		Armstrong	28	46.2	29.1-63.3
Clearfield	49	62.3	44.8-79.7	Beaver	127	84.1	69.5-98.7 +
Crawford	55	67.8	49.9-85.7	Butler	67	37.8	28.7-46.8 -
Elk	24	85.6	51.4-119.9	Cambria	131	96.0	79.6-112.5 +
Erie	234	86.6	75.5-97.7 +	Fayette	92	68.0	54.1-81.9
Forest	1	NA		Greene	17	NA	
Jefferson	35	87.1	58.2-116.0	Indiana	66	87.7	66.5-108.8 +
Lawrence	63	80.2	60.4-100.1	Somerset	44	60.4	42.6-78.3
McKean	27	64.4	40.1-88.7	Washington	115	59.7	48.8-70.6
Mercer	124	113.9	93.8-133.9 +	Westmoreland	218	63.9	55.4-72.4
Venango	44	90.2	63.5-116.8				
Warren	23	65.3	38.6-92.0	Pennsylvania	7,837	63.9	62.5-65.3

NOTE: Rates based on less than 20 events are unreliable and were not calculated. See Technical Notes.

+/- denotes that the county's rate is significantly higher or lower than the state at the p=.05 level.

INJURY HOSPITALIZATIONS: SELF-POISONING

AGE-ADJUSTED HOSPITALIZATION RATES BY COUNTY,
WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE
PENNSYLVANIA RESIDENTS, 2009



NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. See Technical Notes.

INJURY HOSPITALIZATIONS: SELF-POISONING

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2009

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	3,226	4,610	7,837	850	26.2	2,576	106.9	2,685	104.0	1,380	57.0	346	17.8
Northeast	457	604	1,062	135	34.4	358	120.9	342	107.0	184	58.9	43	16.9
Carbon	35	46	81	14	100.7	32	255.8	23	177.4	10	74.6	2	NA
Lackawanna	71	91	162	11	21.8	63	156.5	47	115.3	34	84.4	7	NA
Lehigh	113	142	255	30	33.6	94	141.1	82	118.9	38	57.6	11	20.9
Luzerne	56	71	128	17	23.8	37	62.5	44	68.8	25	40.6	5	NA
Monroe	33	80	113	11	24.3	30	96.3	44	122.0	25	75.9	3	NA
Northampton	119	133	252	31	38.8	88	154.8	80	132.7	41	72.2	12	26.6
Pike	6	9	15	0	NA	7	NA	2	NA	6	NA	0	NA
Susquehanna	5	11	16	2	NA	2	NA	10	126.2	1	NA	1	NA
Wayne	11	14	25	13	120.3	3	NA	6	NA	3	NA	0	NA
Wyoming	8	7	15	6	NA	2	NA	4	NA	1	NA	2	NA
Southeast	1,425	1,900	3,325	370	26.8	1,055	104.8	1,090	103.2	640	69.0	170	24.1
Berks	92	125	217	27	23.7	55	72.7	78	92.4	41	55.1	16	27.4
Bucks	192	227	419	47	29.5	119	113.7	140	98.0	88	68.4	25	27.6
Chester	93	118	211	29	20.7	73	79.1	69	62.7	28	29.9	12	19.0
Delaware	196	261	457	50	33.5	156	143.1	147	128.4	80	75.9	24	30.1
Lancaster	91	138	229	25	17.4	76	77.6	74	74.3	38	42.0	16	21.1
Montgomery	176	283	459	69	34.4	136	97.2	127	73.2	88	58.4	39	33.1
Philadelphia	508	634	1,142	106	24.1	373	103.4	380	127.2	245	95.9	38	19.7
Schuylkill	77	114	191	17	53.4	67	249.9	75	228.9	32	112.0	0	NA

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	3,226	4,610	7,837	850	26.2	2,576	106.9	2,685	104.0	1,380	57.0	346	17.8
North Central	133	241	374	45	25.8	131	90.5	132	103.1	52	41.6	14	12.9
Bradford	17	29	46	2	NA	20	198.0	13	103.9	11	88.9	0	NA
Centre	30	66	96	10	24.8	33	75.8	38	158.5	8	NA	7	NA
Clinton	5	8	13	1	NA	10	140.3	1	NA	1	NA	0	NA
Columbia	16	23	39	4	NA	12	85.8	14	124.5	8	NA	1	NA
Lycoming	16	23	39	5	NA	15	66.1	8	NA	10	43.4	1	NA
Montour	4	6	10	1	NA	3	NA	5	NA	1	NA	0	NA
Northumberland	25	44	69	12	56.7	24	158.3	21	110.8	9	NA	3	NA
Potter	2	0	2	0	NA	0	NA	2	NA	0	NA	0	NA
Snyder	4	11	15	5	NA	0	NA	9	NA	1	NA	0	NA
Sullivan	0	1	1	0	NA	0	NA	1	NA	0	NA	0	NA
Tioga	4	10	14	2	NA	6	NA	4	NA	1	NA	1	NA
Union	10	20	30	3	NA	8	NA	16	167.9	2	NA	1	NA
South Central	334	507	841	91	21.6	291	94.6	287	83.8	127	39.5	45	17.6
Adams	10	21	31	3	NA	12	62.7	11	51.7	2	NA	3	NA
Bedford	3	8	11	0	NA	5	NA	3	NA	3	NA	0	NA
Blair	40	40	80	16	51.9	29	126.9	24	97.3	10	39.8	1	NA
Cumberland	42	64	106	14	23.9	34	70.1	33	71.9	20	46.4	5	NA
Dauphin	44	85	129	17	25.4	41	88.0	41	72.7	23	43.3	7	NA
Franklin	33	33	66	3	NA	30	113.2	23	82.3	8	NA	2	NA
Fulton	2	3	5	2	NA	1	NA	1	NA	1	NA	0	NA
Huntingdon	13	10	23	1	NA	9	NA	7	NA	5	NA	1	NA
Juniata	4	7	11	2	NA	0	NA	6	NA	1	NA	2	NA
Lebanon	16	30	46	4	NA	15	58.7	19	75.6	6	NA	2	NA
Mifflin	8	18	26	3	NA	8	NA	9	NA	3	NA	3	NA
Perry	8	18	26	3	NA	8	NA	12	124.6	2	NA	1	NA
York	111	170	281	23	20.7	99	126.3	98	103.5	43	51.2	18	29.7

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	3,226	4,610	7,837	850	26.2	2,576	106.9	2,685	104.0	1,380	57.0	346	17.8
Northwest	311	391	702	76	32.7	251	147.2	248	134.6	114	63.0	13	8.4
Cameron	7	0	7	0	NA	0	NA	3	NA	4	NA	0	NA
Clarion	8	8	16	4	NA	7	NA	4	NA	1	NA	0	NA
Clearfield	19	30	49	9	NA	14	93.7	14	77.1	12	71.3	0	NA
Crawford	26	29	55	3	NA	20	126.0	19	112.2	12	67.6	1	NA
Elk	12	12	24	2	NA	11	224.9	7	NA	3	NA	1	NA
Erie	95	139	234	22	29.6	81	140.2	95	170.8	31	60.0	5	NA
Forest	0	1	1	0	NA	1	NA	0	NA	0	NA	0	NA
Jefferson	25	10	35	2	NA	6	NA	19	213.4	8	NA	0	NA
Lawrence	25	38	63	7	NA	19	125.2	29	163.7	7	NA	1	NA
McKean	8	19	27	2	NA	14	176.8	5	NA	6	NA	0	NA
Mercer	60	64	124	17	57.4	45	221.4	40	177.6	17	74.6	5	NA
Venango	16	28	44	5	NA	22	245.4	9	NA	8	NA	0	NA
Warren	10	13	23	3	NA	11	168.0	4	NA	5	NA	0	NA
Southwest	566	967	1,533	133	20.5	490	101.1	586	106.5	263	47.6	61	13.0
Allegheny	221	407	628	50	16.9	199	88.7	230	92.9	122	49.7	27	13.2
Armstrong	11	17	28	4	NA	10	96.3	10	71.8	2	NA	2	NA
Beaver	58	69	127	10	25.1	47	161.4	53	151.7	13	35.7	4	NA
Butler	26	41	67	8	NA	23	70.5	25	63.8	9	NA	2	NA
Cambria	49	82	131	12	36.6	49	190.7	40	138.5	23	77.8	7	NA
Fayette	31	61	92	5	NA	24	99.6	42	141.8	18	58.4	3	NA
Greene	6	11	17	2	NA	6	NA	4	NA	4	NA	1	NA
Indiana	27	39	66	7	NA	17	94.9	29	185.9	12	72.4	1	NA
Somerset	14	30	44	7	NA	13	93.0	17	102.9	7	NA	0	NA
Washington	50	65	115	14	28.1	34	89.4	47	114.5	16	37.9	4	NA
Westmoreland	73	145	218	14	17.2	68	112.0	89	119.5	37	48.1	10	14.6

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATIONS: SELF-POISONING

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI),
BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2009

BLACK POPULATION BY COUNTY				WHITE POPULATION BY COUNTY				HISPANIC POPULATION BY COUNTY			
County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)
Allegheny	72	47.4	36.5-58.4 -	Allegheny	539	55.9	51.2-60.6	Berks	36	66.5	44.8-88.2
Chester	22	74.8	43.5-106.0	Chester	172	39.4	33.5-45.3 -	Lancaster	6	NA	
Dauphin	21	49.3	28.2-70.3	Dauphin	100	52.1	41.9-62.3	Lehigh	46	81.6	58.0-105.2
Delaware	50	49.3	35.6-63.0	Delaware	389	96.2	86.6-105.7 +	Philadelphia	119	64.5	52.9-76.1
Montgomery	40	53.0	36.6-69.5	Montgomery	368	57.6	51.7-63.5				
Philadelphia	451	65.0	59.0-71.0	Philadelphia	532	75.4	69.0-81.8 +				
Pennsylvania	885	65.6	61.3-69.9	Pennsylvania	6,311	60.6	59.1-62.1	Pennsylvania	405	66.9	60.3-73.4

NUMBER FOR SELECT AGE GROUPS AND AGE-SPECIFIC HOSPITALIZATION RATES
BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2009

Select Counties	Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+		
		Male	Female			All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.
County and Race	Cty. Pop.															
Allegheny	Black	13.6%	33	39	72	11.5%	6	NA	17	48.0	32	104.8	15	57.4	2	NA
	White	82.9%	182	357	539	85.8%	42	18.7	174	97.5	194	93.1	105	49.0	24	13.1
Chester	Black	6.2%	17	5	22	10.4%	2	NA	10	137.6	2	NA	7	NA	1	NA
	White	89.5%	66	106	172	81.5%	27	22.1	55	68.2	58	59.1	21	24.2	11	18.8
Dauphin	Black	18.0%	7	14	21	16.3%	2	NA	5	NA	11	114.6	2	NA	1	NA
	White	77.0%	35	65	100	77.5%	12	26.3	32	93.2	29	66.0	21	47.6	6	NA
Delaware	Black	18.9%	18	32	50	10.9%	6	NA	9	NA	25	112.6	8	NA	2	NA
	White	75.2%	168	221	389	85.1%	37	35.6	145	191.9	117	139.0	70	81.3	20	28.6
Montgomery	Black	8.9%	11	29	40	8.7%	3	NA	19	118.2	8	NA	9	NA	1	NA
	White	84.2%	147	221	368	80.2%	57	34.8	96	85.3	104	72.6	75	57.1	36	33.5
Philadelphia	Black	46.7%	207	244	451	39.5%	42	18.0	140	85.6	174	125.0	85	74.5	10	13.7
	White	45.8%	234	298	532	46.6%	32	18.9	164	99.6	169	123.0	141	112.7	26	23.2
Pennsylvania	Black	10.8%	403	482	885	11.3%	94	21.3	301	94.0	319	117.8	151	74.7	20	15.4
	White	85.5%	2,551	3,759	6,311	80.5%	634	24.0	2,045	103.2	2,171	98.1	1,158	53.7	303	17.0

INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL INJURIES

In 2009, among Pennsylvania residents, there were 125,765 hospitalizations due to unintentional injury. On average, one resident was hospitalized every five minutes.

Injury Definition

Unintentional injury is negatively defined to include all events in which there is not a deliberate intent to cause harm to oneself or another person.

Injuries are not coded unintentional if the intent is unknown; these are instead coded “undetermined.”

Leading mechanisms of unintentional injury include falls, motor vehicle accidents and poisoning. These three mechanisms account for nearly 70 percent of all unintentional injury hospitalizations in PA.

HIGHLIGHTS

- *Age-adjusted rates have generally been **stable** over 2005 to 2009.*
- *Most common demographic is **white females**, 65 and older.*
- *Of all Pennsylvania counties, **Delaware and Mercer** show the highest rates.*

Trends Over Time

- The age-adjusted hospitalization rate for unintentional injury increased from 2005 to 2007, from 845.8 to 903.5 hospitalizations per 100,000 population. Rates then decreased to 856.6 hospitalizations per 100,000 population in 2009.
- Males showed significantly higher age-adjusted hospitalization rates than females over 2005 to 2009 (rates were 925.4 and 773.4, respectively, in 2009).
- Black males and females showed significantly higher age-adjusted hospitalization rates than white males and females over 2005 to 2009.

Demographic Trends

- Males showed significantly higher hospitalization rates for unintentional injury among ages less than 65, while females showed significantly higher rates for ages 70 and older.
- Blacks showed significantly higher hospitalization rates for most ages less than 70, while whites showed significantly higher rates for ages 80 and older.

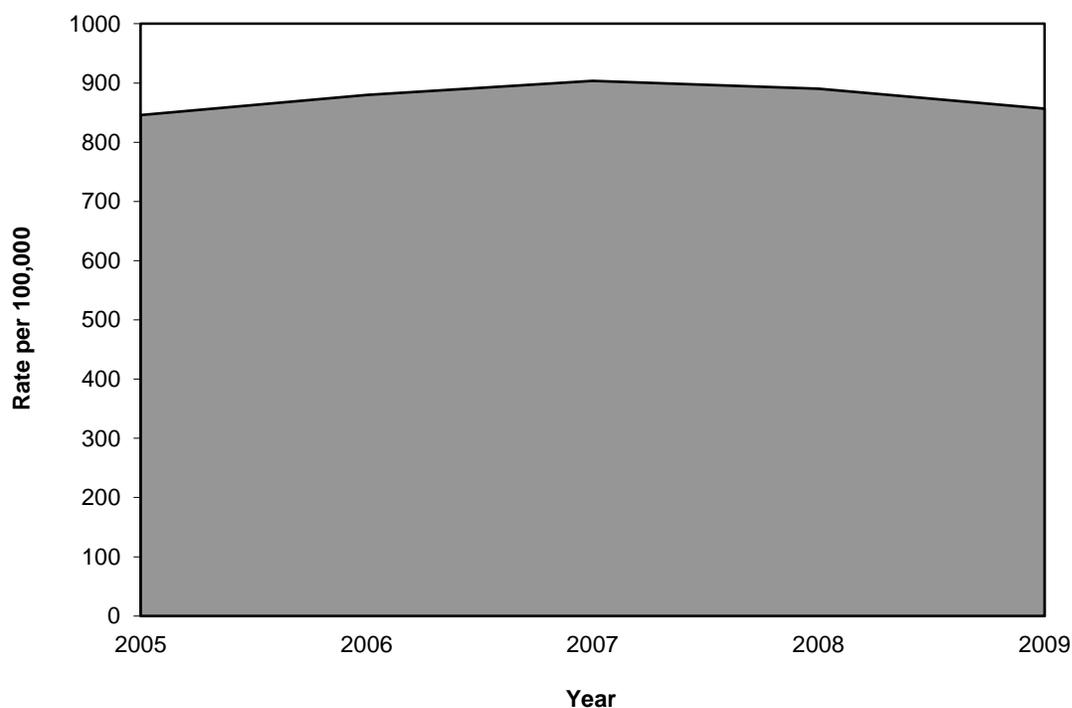
Regional Trends

- The Southeast Health District generally showed the highest age-specific hospitalization rates for unintentional injury, while the North Central and South Central Health Districts showed the lowest rates. Other districts showed high rates for certain age groups.
- Eighteen counties showed age-adjusted hospitalization rates for 2009 that were significantly higher than the comparable state rate. These counties appeared in two broad clusters, in the northeast and in the west, as well as the Philadelphia region.

INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, 2005-2009

Year	No.	Rate
2005	118,091	845.8
2006	120,546	879.8
2007	125,226	903.5
2008	127,101	890.3
2009	125,765	856.6



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2005-2009

Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2005	838.7	647.3	903.6	878.6	710.3	883.2
2006	839.4	647.9	941.3	925.2	734.2	917.9
2007	871.7	700.9	963.8	950.4	729.8	948.6
2008	901.6	697.4	954.1	932.7	687.9	938.7
2009	848.8	678.2	885.0	922.6	673.8	879.8

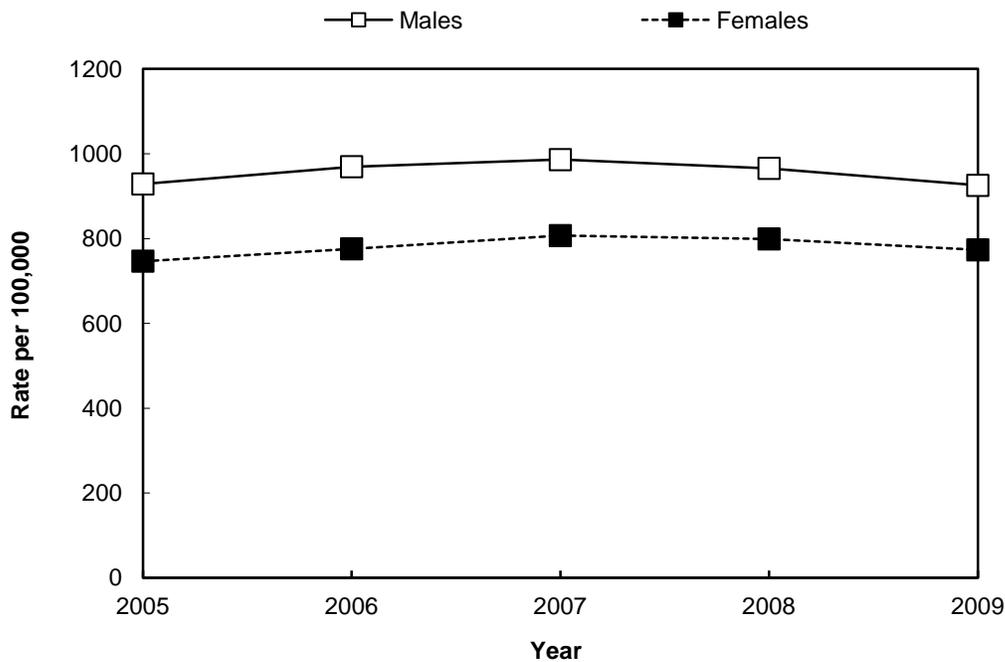
NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population.
Rates are per 100,000. Data for 2005-2009 based on ICD-9-CM codes. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX PENNSYLVANIA RESIDENTS, 2005-2009

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2005	55,730	928.7 *	2005	62,355	746.8
2006	57,024	969.5 *	2006	63,516	775.9
2007	58,788	986.1 *	2007	66,419	807.0
2008	59,344	965.6 *	2008	67,719	799.2
2009	58,639	925.4 *	2009	67,065	773.4

* denotes a statistically significant difference between groups at level of $p = .05$



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2005-2009

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2005	943.3	892.4 *	2005	756.1	722.6 *
2006	997.5	900.8 *	2006	796.2	722.7 *
2007	1,015.9	912.9 *	2007	822.5	767.0 *
2008	979.0	931.9 *	2008	809.8	772.0 *
2009	944.4	878.1 *	2009	787.0	738.1 *

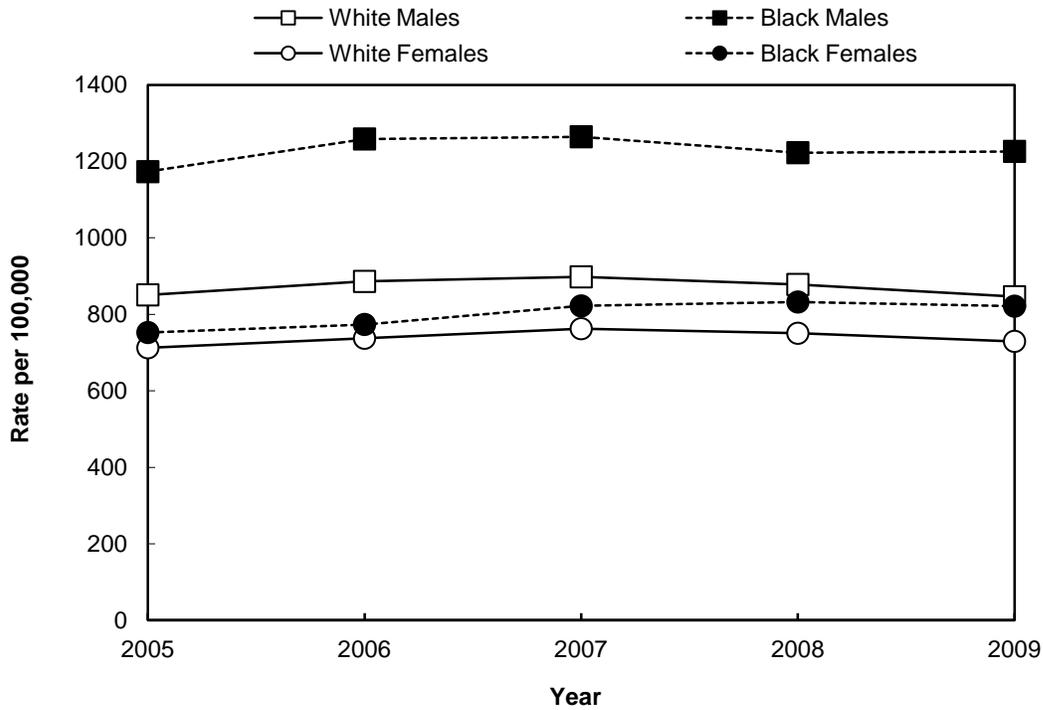
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX AND RACE OR ETHNICITY PENNSYLVANIA RESIDENTS, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	45,443	6,374	54,690	4,992	1,630	938
2006	46,037	6,815	55,133	5,183	1,534	883
2007	47,317	6,860	57,229	5,541	1,844	1,301
2008	47,891	6,713	58,039	5,727	2,080	1,471
2009	47,600	6,896	57,682	5,815	1,946	1,480



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	850.9	1,173.0 *	712.5	752.5 *	871.4	587.5
2006	886.1	1,258.5 *	737.5	773.5 *	685.1	465.4
2007	898.0	1,264.3 *	762.5	821.9 *	985.9	756.2
2008	878.1	1,222.6 *	750.5	832.3 *	1,076.0	815.6
2009	846.0	1,226.0 *	729.4	821.3 *	924.5	756.2

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Hispanics may be of any race. Hispanic numbers include whites, blacks and others of Hispanic ethnicity. Therefore, Hispanics must not be compared to whites or blacks, as the groups are not mutually exclusive.

INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2009

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
TOTAL	125,765	997.8	58,639	957.0	67,065	1,035.4			91,964	1,002.3	33,801	985.6
< 5	2,090	279.8	1,228	321.3	855	234.4	*	1,698	301.5	392	213.3	*
5-9	1,262	165.5	764	196.0	495	132.8	*	972	171.1	290	149.2	
10-14	1,709	213.5	1,185	290.4	519	132.3	*	1,236	208.8	473	226.9	
15-19	3,650	389.5	2,418	513.4	1,227	263.3	*	2,589	383.0	1,061	406.6	
20-24	4,195	464.6	2,766	603.6	1,426	320.6	*	3,094	473.6	1,101	441.0	*
25-29	3,742	494.3	2,443	629.1	1,298	352.0	*	2,747	483.6	995	526.2	*
30-34	3,384	450.8	2,146	564.9	1,232	332.2	*	2,504	452.8	880	445.1	
35-39	3,880	486.7	2,423	609.6	1,454	363.8	*	2,846	485.4	1,034	490.3	
40-44	5,050	581.6	3,147	731.8	1,900	433.6	*	3,723	584.4	1,327	574.0	
45-49	6,642	725.4	4,084	904.4	2,552	549.9	*	5,015	749.5	1,627	660.1	*
50-54	7,823	871.0	4,601	1,047.5	3,218	701.3	*	5,788	887.8	2,035	826.6	*
55-59	7,602	924.1	4,179	1,050.6	3,423	805.6	*	5,640	954.5	1,962	846.7	*
60-64	7,333	1,049.0	3,688	1,108.1	3,641	994.3	*	5,327	1,074.0	2,006	988.0	*
65-69	7,363	1,376.2	3,429	1,390.2	3,934	1,364.2		5,169	1,385.9	2,194	1,353.8	
70-74	8,396	1,898.8	3,563	1,830.4	4,832	1,952.2	*	5,958	1,924.3	2,438	1,839.3	
75-79	11,223	3,090.9	4,311	2,889.4	6,906	3,228.7	*	8,026	3,142.4	3,197	2,968.6	*
80-84	15,035	5,423.3	5,176	4,919.7	9,856	5,729.6	*	10,966	5,581.6	4,069	5,038.3	*
85 +	25,386	7,721.6	7,088	6,729.7	18,297	8,188.7	*	18,666	7,917.3	6,720	7,225.5	*

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2009

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	47,600	907.1	6,896	1,061.7	57,682	1,043.7	5,815	813.3	3,430	530.5
< 5	658	213.4	333	622.7 *	463	157.8	218	419.1 *	230	302.3
5-9	494	156.2	144	273.5 *	301	99.9	114	224.3 *	104	154.9
10-14	852	256.0	210	378.6 *	377	118.3	84	156.4 *	110	177.6
15-19	1,835	475.1	346	554.5 *	939	245.1	180	294.1 *	161	239.7
20-24	2,022	538.0	440	710.8 *	1,034	283.5	239	398.0 *	206	370.7
25-29	1,859	583.4	341	641.8	934	310.3	223	435.1 *	171	341.4
30-34	1,554	492.6	322	694.4 *	885	290.1	209	439.5 *	194	414.2
35-39	1,819	540.9	371	859.1 *	1,083	324.0	245	521.7 *	201	419.4
40-44	2,399	647.4	501	1,173.1 *	1,425	381.8	345	716.0 *	204	485.9
45-49	3,074	775.8	702	1,688.9 *	1,967	490.0	436	906.1 *	236	614.0
50-54	3,547	906.6	772	2,116.9 *	2,527	628.8	537	1,208.0 *	245	889.5
55-59	3,318	925.5	611	2,062.5 *	2,764	735.4	466	1,220.0 *	187	855.3
60-64	3,038	1,004.8	453	1,998.9 *	3,030	926.8	416	1,354.8 *	190	1,337.7
65-69	2,925	1,290.3	320	2,157.6 *	3,368	1,288.6	346	1,625.0 *	186	1,828.4
70-74	3,090	1,722.8	294	2,531.6 *	4,266	1,894.0	324	1,782.1	166	2,321.4
75-79	3,851	2,785.8	263	3,072.1	6,264	3,193.4	368	2,474.9 *	186	3,524.7
80-84	4,711	4,835.5	235	3,797.7 *	9,082	5,761.8	376	3,085.5 *	190	5,614.7
85 +	6,554	6,758.9	238	3,542.7 *	16,973	8,271.4	689	4,513.3 *	263	6,963.2

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Hispanics may be of any race; therefore, their rates must not be compared to whites or blacks.

INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2009

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	9,488	1,027.5	5,404	793.6	16,443	1,044.2	51,545	1,015.8	12,742	772.9	30,143	1,115.3
< 5	112	220.9 -	86	245.7	270	310.1	1,147	346.9 +	187	185.9 -	288	201.6 -
5-9	76	141.8	63	176.0	153	168.6	657	199.0 +	125	123.3 -	188	124.6 -
10-14	149	257.1 +	72	188.9	246	248.6 +	743	219.3	169	161.8 -	330	203.5
15-19	294	420.6	163	248.5 -	539	466.8 +	1,547	408.3	374	324.7 -	733	381.9
20-24	277	438.8	198	274.0 -	537	480.1	1,840	502.7 +	414	382.2 -	929	512.0 +
25-29	257	483.7	140	406.3 -	437	471.2	1,679	514.7	363	364.4 -	866	573.9 +
30-34	243	447.8	120	316.1 -	456	498.0 +	1,452	461.3	328	329.0 -	785	514.9 +
35-39	286	506.0	144	365.1 -	532	543.0 +	1,680	505.8	413	388.6 -	825	500.7
40-44	384	623.4	181	420.5 -	644	598.4	2,207	619.6 +	519	449.4 -	1,115	605.1
45-49	454	686.8	230	504.4 -	866	759.5	2,972	807.5 +	623	516.3 -	1,497	744.2
50-54	572	867.5	309	679.1 -	946	836.0	3,409	967.3 +	704	595.3 -	1,883	928.2 +
55-59	556	906.1	307	721.9 -	902	853.8 -	3,258	1,036.3 +	690	626.5 -	1,889	1,001.6 +
60-64	542	1,009.1	307	827.8 -	941	1,007.9	3,056	1,172.9 +	756	808.4 -	1,731	1,076.5
65-69	637	1,515.9 +	367	1,206.3 -	960	1,320.5	2,876	1,472.8 +	812	1,086.8 -	1,711	1,427.1
70-74	683	1,918.1	432	1,730.1	1,078	1,840.5	3,238	2,012.6 +	955	1,589.1 -	2,010	1,969.8
75-79	923	3,124.5	525	2,606.0 -	1,485	3,177.9	4,312	3,274.9 +	1,200	2,513.4 -	2,778	3,183.2
80-84	1,206	5,408.3	656	4,308.4 -	2,068	5,827.8 +	5,591	5,690.0 +	1,562	4,576.4 -	3,952	5,502.2
85 +	1,837	7,044.8 -	1,104	6,212.4 -	3,383	8,236.8 +	9,881	8,305.4 +	2,548	6,627.8 -	6,633	7,674.2

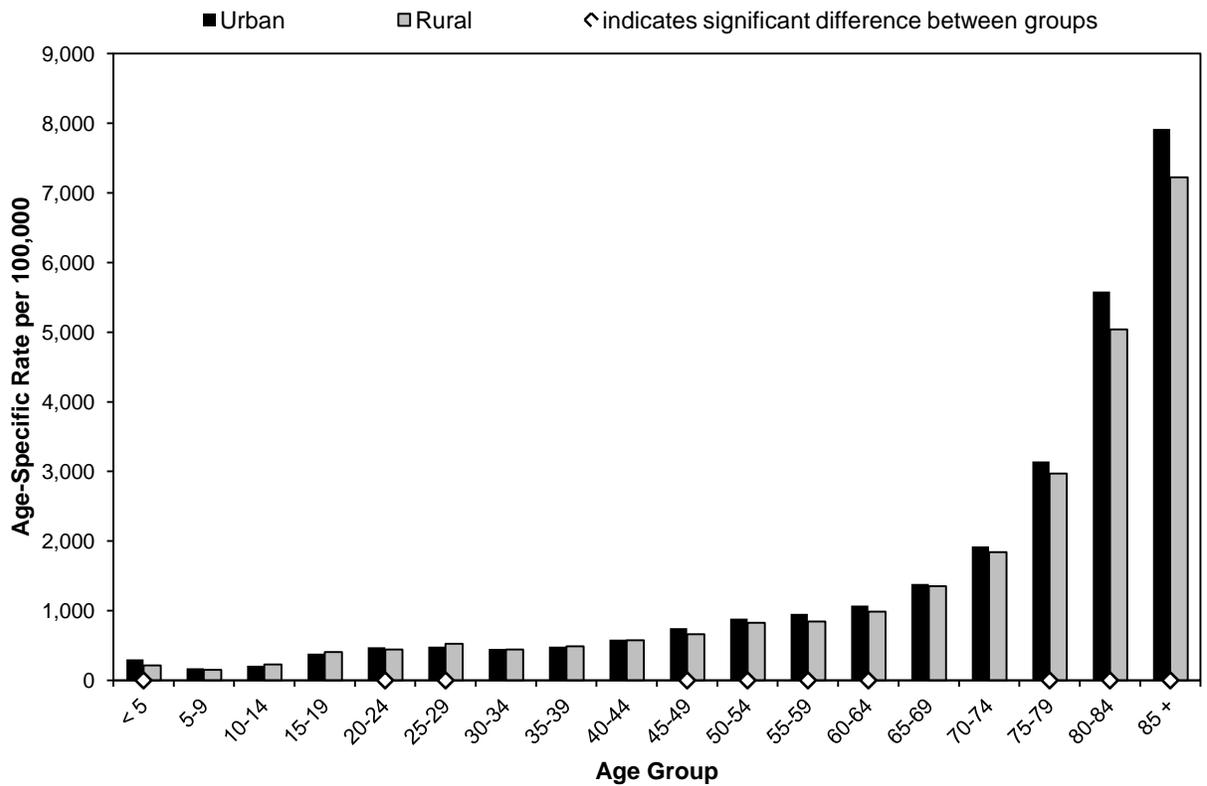
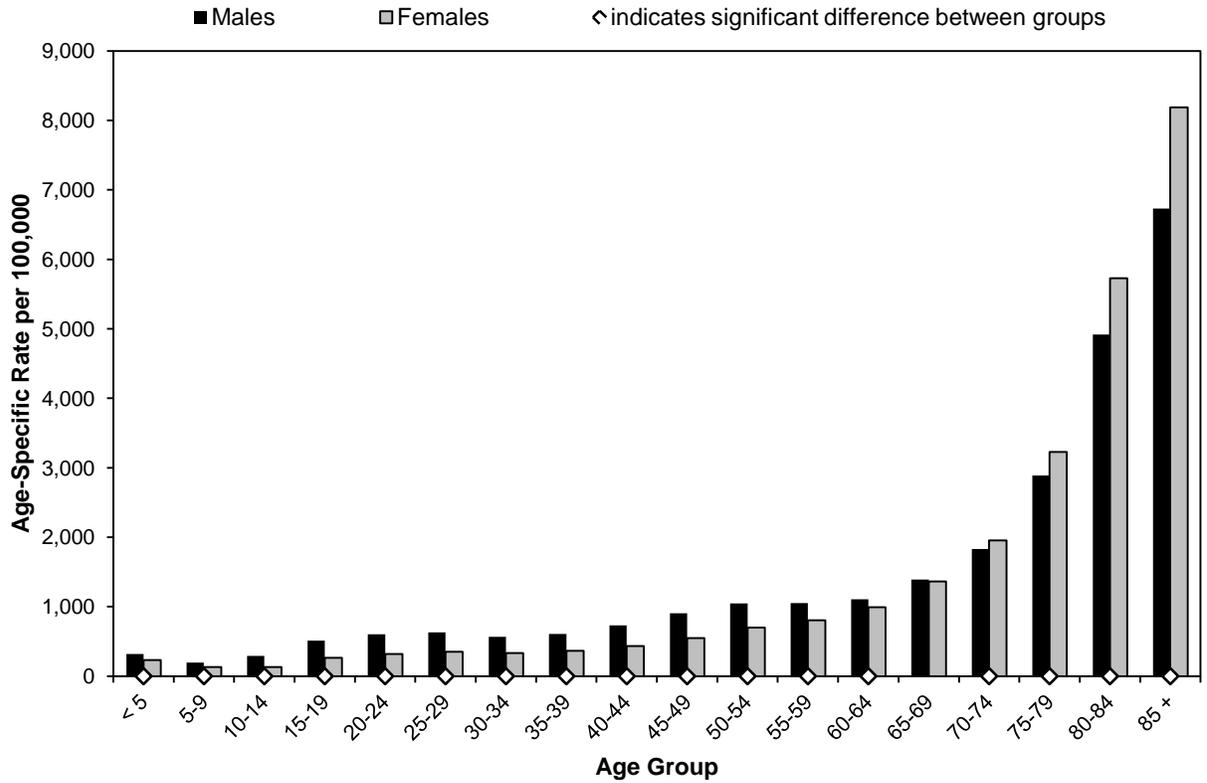
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total.

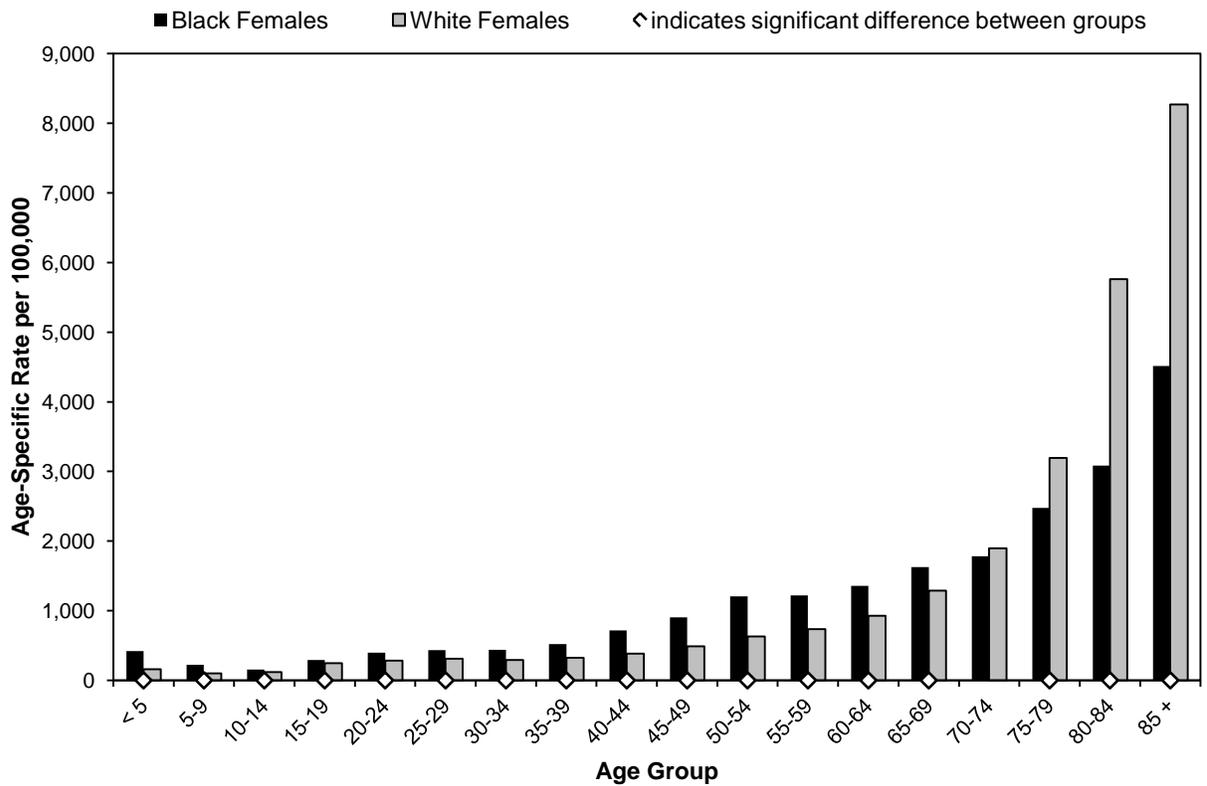
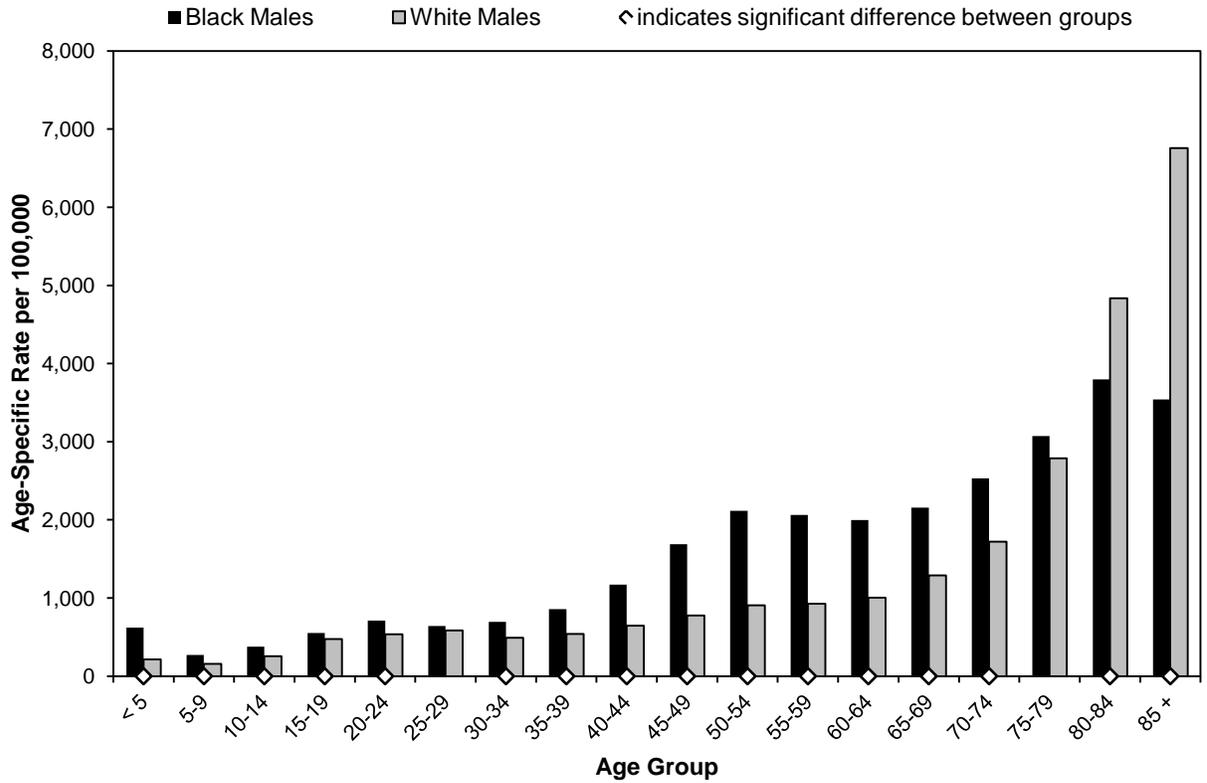
INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL

AGE-SPECIFIC HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS PENNSYLVANIA RESIDENTS, 2009



INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL

AGE-SPECIFIC HOSPITALIZATION RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2009



INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2009

District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
Northeast	16,443	885.0	871.4-898.5 +	Southeast	51,545	922.6	914.7-930.6 +
Carbon	767	1,047.3	973.2-1,121.4 +	Berks	3,623	799.1	773.1-825.1 -
Lackawanna	2,376	912.1	875.5-948.8 +	Bucks	6,115	893.4	871.0-915.8 +
Lehigh	3,390	864.6	835.5-893.7	Chester	3,785	738.2	714.6-761.7 -
Luzerne	3,127	760.3	733.7-787.0 -	Delaware	7,202	1,135.9	1,109.6-1,162.1 +
Monroe	1,605	972.7	925.2-1,020.3 +	Lancaster	4,186	737.6	715.2-759.9 -
Northampton	3,784	1,096.3	1,061.4-1,131.3 +	Montgomery	7,932	856.7	837.9-875.6
Pike	283	422.2	373.0-471.4 -	Philadelphia	16,872	1,060.0	1,044.0-1,075.9 +
Susquehanna	318	649.5	578.1-720.9 -	Schuylkill	1,830	994.6	949.0-1,040.2 +
Wayne	478	759.5	691.5-827.6 -				
Wyoming	315	1,051.1	935.0-1,167.2 +				
North Central	5,404	678.2	660.1-696.3 -	South Central	12,742	673.8	662.1-685.5 -
Bradford	489	669.6	610.3-729.0 -	Adams	686	601.1	556.1-646.1 -
Centre	931	684.4	640.5-728.4 -	Bedford	373	627.8	564.1-691.5 -
Clinton	296	657.0	582.2-731.9 -	Blair	1,266	795.6	751.8-839.4 -
Columbia	691	936.6	866.8-1,006.4 +	Cumberland	1,878	686.2	655.2-717.3 -
Lycoming	984	689.0	646.0-732.1 -	Dauphin	1,797	636.6	607.1-666.0 -
Montour	172	833.3	708.8-957.8	Franklin	1,188	690.2	650.9-729.4 -
Northumberland	895	754.1	704.7-803.5 -	Fulton	140	812.1	677.5-946.6
Potter	137	677.7	564.2-791.2 -	Huntingdon	308	593.2	526.9-659.4 -
Snyder	236	536.1	467.7-604.5 -	Juniata	180	640.5	546.9-734.1 -
Sullivan	62	726.4	545.6-907.2	Lebanon	926	591.4	553.3-629.5 -
Tioga	246	507.6	444.2-571.0 -	Mifflin	469	867.5	789.0-946.0
Union	265	548.6	482.6-614.7 -	Perry	389	824.3	742.4-906.2
				York	3,142	672.1	648.6-695.6 -
Northwest	9,488	848.8	831.7-865.8	Southwest	30,143	879.8	869.9-889.7 +
Cameron	72	1,098.1	844.5-1,351.8	Allegheny	13,998	906.5	891.4-921.5 +
Clarion	443	1,004.3	910.8-1,097.8 +	Armstrong	838	992.9	925.7-1,060.2 +
Clearfield	860	874.2	815.8-932.6	Beaver	1,601	735.8	699.7-771.8 -
Crawford	851	809.6	755.2-864.0	Butler	1,792	834.7	796.1-873.3
Elk	321	801.4	713.7-889.1	Cambria	1,832	942.8	899.6-986.0 +
Erie	2,150	677.3	648.7-705.9 -	Fayette	1,555	884.2	840.3-928.2
Forest	78	980.9	763.2-1,198.6	Greene	255	558.6	490.1-627.2 -
Jefferson	575	1,067.2	980.0-1,154.5 +	Indiana	1,022	1,024.0	961.2-1,086.8 +
Lawrence	1,169	977.7	921.7-1,033.8 +	Somerset	848	841.0	784.4-897.6
McKean	358	663.7	595.0-732.5 -	Washington	2,322	891.8	855.5-928.0
Mercer	1,673	1,147.8	1,092.8-1,202.8 +	Westmoreland	4,080	864.6	838.0-891.1
Venango	604	903.1	831.0-975.1				
Warren	334	656.4	586.0-726.8 -	Pennsylvania	125,765	856.6	851.9-861.4

NOTE: Rates based on less than 20 events are unreliable and were not calculated. See Technical Notes.

+/- denotes that the county's rate is significantly higher or lower than the state at the p=.05 level.

INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2009

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	58,639	67,065	125,765	8,711	268.3	11,321	469.6	15,572	603.3	22,758	940.5	67,403	3,463.1
Northeast	7,633	8,781	16,443	1,208	308.0	1,430	482.9	2,042	638.9	2,789	893.4	8,974	3,525.4
Carbon	394	372	767	58	417.2	78	623.5	115	886.9	149	1,111.3	367	3,312.6
Lackawanna	1,056	1,317	2,376	148	292.9	193	479.4	266	652.6	423	1,050.2	1,346	3,641.3
Lehigh	1,568	1,822	3,390	281	314.8	314	471.4	412	597.4	537	814.3	1,846	3,501.8
Luzerne	1,317	1,787	3,127	173	242.6	231	389.9	334	522.6	493	800.2	1,896	3,340.1
Monroe	847	757	1,605	152	335.2	161	516.8	251	695.9	327	993.0	714	3,423.0
Northampton	1,779	2,005	3,784	282	352.7	324	569.9	471	781.3	603	1,061.1	2,104	4,668.2
Pike	148	135	283	24	173.1	33	336.7	54	415.4	65	462.7	107	1,090.4
Susquehanna	136	182	318	21	219.6	27	394.7	44	555.4	45	480.8	181	2,599.5
Wayne	226	252	478	40	370.3	41	502.9	52	505.4	101	829.0	244	2,462.2
Wyoming	162	152	315	29	379.9	28	592.3	43	787.1	46	825.9	169	3,828.7
Southeast	24,696	26,843	51,545	4,094	297.0	4,971	493.6	6,859	649.3	9,723	1,048.5	25,898	3,673.2
Berks	1,735	1,888	3,623	268	234.8	321	424.4	481	569.7	659	885.2	1,894	3,237.7
Bucks	2,896	3,219	6,115	475	297.9	520	496.7	777	544.1	1,065	828.0	3,278	3,624.8
Chester	1,740	2,045	3,785	211	150.9	320	346.9	455	413.5	736	784.9	2,063	3,271.3
Delaware	3,357	3,844	7,202	547	366.2	633	580.7	898	784.3	1,268	1,203.5	3,856	4,834.1
Lancaster	2,010	2,175	4,186	398	276.9	368	375.7	494	496.0	679	750.1	2,247	2,958.5
Montgomery	3,559	4,372	7,932	534	266.2	599	428.2	760	437.9	1,327	881.0	4,712	4,004.1
Philadelphia	8,543	8,329	16,872	1,546	351.7	2,031	562.9	2,751	920.8	3,672	1,437.6	6,872	3,566.4
Schuylkill	856	971	1,830	115	361.3	179	667.7	243	741.8	317	1,109.5	976	3,616.8

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	58,639	67,065	125,765	8,711	268.3	11,321	469.6	15,572	603.3	22,758	940.5	67,403	3,463.1
North Central	2,530	2,854	5,404	384	220.0	458	316.6	555	433.3	923	737.7	3,084	2,841.4
Bradford	237	251	489	38	244.9	42	415.7	53	423.4	96	776.1	260	2,447.3
Centre	423	503	931	52	129.0	105	241.3	84	350.3	155	711.1	535	3,221.0
Clinton	137	159	296	10	98.9	25	350.8	27	406.6	58	858.1	176	2,855.3
Columbia	301	388	691	43	247.2	52	371.8	88	782.5	117	1,000.4	391	3,624.4
Lycoming	464	515	984	77	272.4	84	369.9	102	437.2	163	707.6	558	2,860.8
Montour	86	86	172	24	545.3	14	510.4	21	599.3	34	890.3	79	2,432.3
Northumberland	415	478	895	68	321.0	57	375.9	83	437.9	149	790.9	538	3,133.0
Potter	75	61	137	11	256.2	13	481.5	16	514.8	29	858.2	68	2,103.3
Snyder	113	123	236	24	234.5	17	207.8	16	218.3	40	574.0	139	2,394.1
Sullivan	29	32	62	2	NA	6	NA	6	NA	9	NA	39	2,554.0
Tioga	122	123	246	13	114.5	18	247.7	32	462.8	38	483.5	145	1,937.7
Union	128	135	265	22	220.4	25	242.1	27	283.4	35	476.4	156	2,446.3
South Central	5,826	6,911	12,742	855	202.8	1,105	359.2	1,555	454.1	2,150	667.9	7,077	2,773.8
Adams	325	361	686	37	137.2	59	308.5	95	446.6	115	583.9	380	2,489.8
Bedford	167	206	373	27	224.8	36	436.0	46	445.6	51	510.3	213	2,368.2
Blair	568	698	1,266	71	230.4	90	393.8	131	531.1	239	951.2	735	3,243.6
Cumberland	795	1,083	1,878	92	157.2	144	296.9	194	422.4	279	646.8	1,169	3,212.3
Dauphin	822	975	1,797	154	230.1	180	386.3	235	416.5	328	618.1	900	2,505.1
Franklin	502	685	1,188	74	191.7	94	354.6	146	522.3	190	694.4	684	2,784.1
Fulton	67	73	140	9	NA	10	377.2	15	490.7	28	941.2	78	3,076.9
Huntingdon	158	149	308	24	231.7	32	347.8	33	340.6	53	596.7	166	2,284.6
Juniata	81	98	180	12	204.5	19	472.0	18	386.4	26	566.4	105	2,640.8
Lebanon	402	524	926	77	236.9	70	274.0	102	405.7	147	590.1	530	2,365.6
Mifflin	220	247	469	39	324.2	40	519.0	75	835.1	79	900.3	236	2,794.6
Perry	218	171	389	38	313.9	36	436.7	55	571.1	78	825.4	182	2,997.4
York	1,501	1,641	3,142	201	180.6	295	376.4	410	432.9	537	639.7	1,699	2,802.1

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	58,639	67,065	125,765	8,711	268.3	11,321	469.6	15,572	603.3	22,758	940.5	67,403	3,463.1
Northwest	4,388	5,100	9,488	631	271.8	777	455.7	1,124	610.1	1,670	922.6	5,286	3,398.4
Cameron	31	41	72	2	NA	8	NA	10	1,066.1	9	NA	43	4,182.9
Clarion	214	229	443	34	322.4	40	530.7	64	892.1	71	941.9	234	3,501.4
Clearfield	419	441	860	71	399.8	87	582.0	127	699.0	138	820.3	437	2,988.0
Crawford	425	426	851	48	206.1	66	415.7	91	537.2	177	997.4	469	3,196.6
Elk	133	188	321	22	293.8	37	756.6	34	487.9	49	742.9	179	2,949.9
Erie	966	1,184	2,150	141	189.8	187	323.6	282	507.1	394	762.5	1,146	2,799.4
Forest	38	40	78	8	NA	2	NA	3	NA	20	1,721.2	45	3,889.4
Jefferson	287	288	575	45	417.7	63	816.1	73	819.9	76	830.9	318	3,929.8
Lawrence	510	659	1,169	72	321.1	72	474.5	106	598.4	209	1,165.4	710	4,196.7
McKean	160	198	358	21	196.6	27	341.0	21	228.0	71	877.8	218	2,987.1
Mercer	755	918	1,673	96	324.0	116	570.8	225	999.0	278	1,220.5	958	4,601.8
Venango	287	317	604	46	344.8	46	513.0	54	505.5	124	1,077.7	334	3,448.6
Warren	163	171	334	25	261.5	26	397.0	34	417.3	54	612.5	195	2,578.0
Southwest	13,566	16,576	30,143	1,539	237.5	2,580	532.2	3,437	624.7	5,503	996.4	17,084	3,654.6
Allegheny	6,170	7,828	13,998	673	226.9	1,133	504.8	1,626	656.6	2,565	1,045.6	8,001	3,914.4
Armstrong	382	456	838	57	339.2	90	867.1	92	660.4	143	999.2	456	3,669.7
Beaver	729	872	1,601	94	236.4	145	497.9	190	543.9	294	806.4	878	2,797.2
Butler	875	917	1,792	135	278.5	146	447.4	205	523.2	292	806.1	1,014	3,599.8
Cambria	804	1,028	1,832	75	228.8	145	564.4	175	606.1	351	1,187.7	1,086	4,006.3
Fayette	719	836	1,555	73	218.8	172	713.9	210	709.1	301	977.1	799	3,230.6
Greene	116	139	255	15	170.2	29	373.7	31	371.1	50	596.9	130	2,188.2
Indiana	462	560	1,022	74	316.2	97	541.4	99	634.7	177	1,068.3	575	4,117.1
Somerset	426	422	848	36	218.7	69	493.6	103	623.5	148	950.5	492	3,410.7
Washington	1,093	1,229	2,322	107	215.1	217	570.6	260	633.3	433	1,026.1	1,305	3,589.2
Westmoreland	1,790	2,289	4,080	200	245.1	337	555.0	446	598.9	749	974.1	2,348	3,425.3

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL

**NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI),
BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2009**

BLACK POPULATION BY COUNTY				WHITE POPULATION BY COUNTY				HISPANIC POPULATION BY COUNTY			
County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)
Allegheny	1,621	1,019.1	969.5-1,068.7	Allegheny	11,962	869.5	853.9-885.1 +	Berks	254	674.7	591.7-757.6 -
Chester	230	813.9	708.7-919.1 -	Chester	3,397	724.4	700.0-748.7 -	Lancaster	36	156.4	105.3-207.5 -
Dauphin	271	647.8	570.7-724.9 -	Dauphin	1,413	600.8	569.5-632.2 -	Lehigh	244	567.3	496.1-638.4 -
Delaware	1,021	1,145.8	1,075.5-1,216.1 +	Delaware	5,877	1,112.2	1,083.7-1,140.6 +	Philadelphia	983	688.1	645.0-731.1 -
Montgomery	573	908.9	834.4-983.3 -	Montgomery	6,682	803.9	784.7-823.2				
Philadelphia	7,296	1,071.4	1,046.8-1,096.0 +	Philadelphia	7,793	907.1	886.9-927.2 +				
Pennsylvania	12,713	1,007.7	990.2-1,025.2	Pennsylvania	105,338	796.0	791.2-800.8	Pennsylvania	3,430	845.3	817.0-873.6

**NUMBER FOR SELECT AGE GROUPS AND AGE-SPECIFIC HOSPITALIZATION RATES
BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2009**

Select Counties	Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+		
		Male	Female			All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.
County and Race	Cty. Pop.															
Allegheny	Black	13.6%	827	794	1,621	11.6%	205	363.0	252	711.6	311	1,018.6	408	1,560.0	445	2,521.5
	White	82.9%	5,117	6,845	11,962	85.5%	419	186.7	812	455.1	1,260	604.9	2,079	969.3	7,392	4,020.4
Chester	Black	6.2%	128	102	230	6.1%	21	210.6	44	605.4	42	717.9	48	1,052.9	75	2,406.9
	White	89.5%	1,517	1,880	3,397	89.7%	174	142.1	243	301.1	384	391.1	663	765.5	1,933	3,302.0
Dauphin	Black	18.0%	150	121	271	15.1%	45	281.7	42	431.9	48	500.1	67	911.6	69	1,743.3
	White	77.0%	609	804	1,413	78.6%	90	197.1	119	346.7	165	375.7	238	539.5	801	2,562.2
Delaware	Black	18.9%	544	477	1,021	14.2%	175	507.9	149	558.4	197	887.4	230	1,586.6	270	3,529.0
	White	75.2%	2,651	3,225	5,877	81.6%	327	314.5	442	584.9	650	772.1	990	1,149.6	3,468	4,955.6
Montgomery	Black	8.9%	330	243	573	7.2%	68	345.9	76	473.0	92	568.1	156	1,374.7	181	2,916.5
	White	84.2%	2,861	3,820	6,682	84.2%	370	225.7	433	384.6	589	411.2	1,066	811.8	4,224	3,931.9
Philadelphia	Black	46.7%	3,944	3,352	7,296	43.2%	856	367.6	940	574.9	1,547	1,111.0	1,935	1,696.2	2,018	2,761.4
	White	45.8%	3,589	4,204	7,793	46.2%	322	189.9	740	449.6	902	656.3	1,422	1,136.9	4,407	3,938.7
Pennsylvania	Black	10.8%	6,896	5,815	12,713	10.1%	1,630	369.0	1,774	553.9	2,600	960.4	3,256	1,611.0	3,453	2,662.2
	White	85.5%	47,600	57,682	105,338	83.8%	5,937	224.9	8,296	418.8	11,779	532.5	18,231	845.3	61,095	3,424.1

INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED INJURIES

In 2009, among Pennsylvania residents, there were 9,707 hospitalizations due to self-inflicted injury (self-injury). On average, one resident was hospitalized every hour.

Injury Definition

Self-inflicted injury includes any event involving deliberate self-harm.

Note: While some self-injury hospitalizations reflect suicide attempts, others may not. Not all those who self-injure are attempting suicide.

Leading mechanisms of self-inflicted injury include self-poisoning and self-cutting. These mechanisms account for over 90 percent of all self-inflicted injury hospitalizations in PA.

HIGHLIGHTS

- *Age-adjusted rates have generally been **stable** over 2005 to 2009.*
- *Most common demographic is **white females**, ages 15 to 49.*
- *Of all Pennsylvania counties, **Carbon and Schuylkill** show the highest rate.*

Trends Over Time

- Age-adjusted hospitalization rates for self-inflicted injury increased from 2005 to 2006, from 80.9 to 85.7 hospitalizations per 100,000 population. Rates then decreased to 79.1 hospitalizations per 100,000 population in 2009.
- Females showed significantly higher age-adjusted self-injury hospitalization rates than males over 2005 to 2009 (rates were 88.2 and 70.2, respectively, in 2009).
- Black males showed significantly higher age-adjusted self-injury hospitalization rates than white males over 2005 to 2009 (rates were 80.8 and 65.6, respectively, in 2009).

Demographic Trends

- Females showed significantly higher self-injury hospitalization rates among most ages less than 55, while males showed higher rates for ages 75 and older.
- Among males, whites showed higher self-injury hospitalization rates for ages 15 to 29, while blacks showed significantly higher rates for ages 40 to 59.
- Rural populations showed higher self-injury hospitalization rates for ages under 50, while urban populations generally showed higher rates for ages 50 and older.

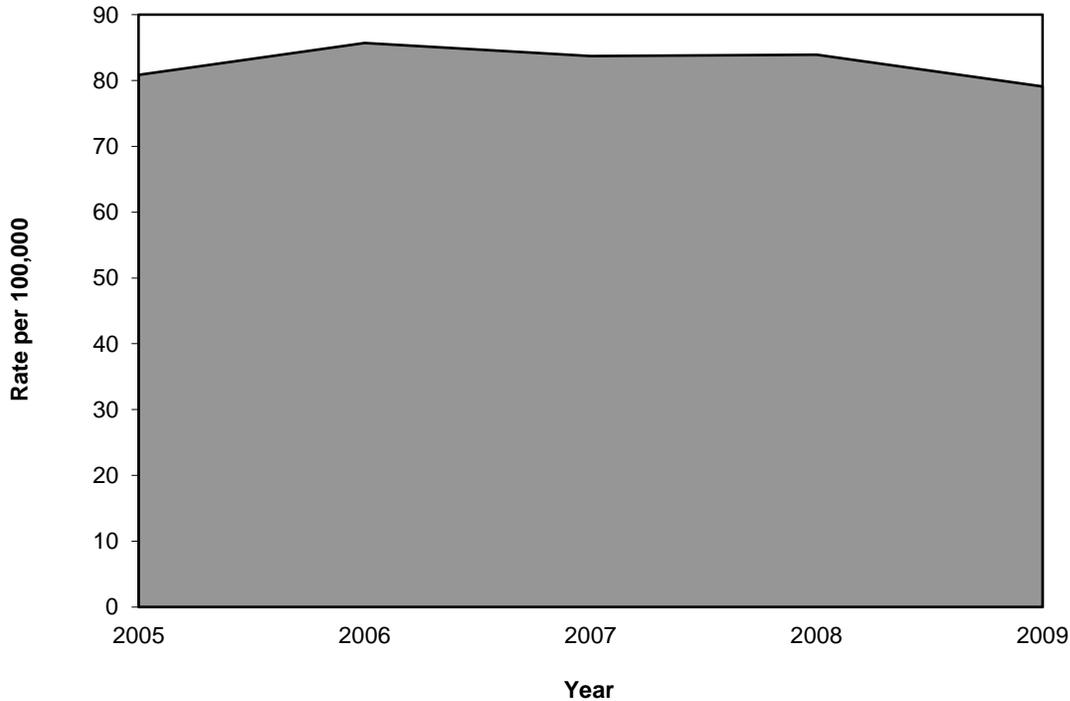
Regional Trends

- The Northwest Health District showed the highest age-specific self-injury hospitalization rates, while the South Central Health District showed the lowest rates.
- Sixteen counties showed age-adjusted self-injury hospitalization rates in 2009 that were significantly higher than the comparable state rate. Most counties were rural.

INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, 2005-2009

Year	No.	Rate
2005	9,758	80.9
2006	10,358	85.7
2007	10,105	83.7
2008	10,185	83.9
2009	9,707	79.1



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2005-2009

Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2005	112.3	73.9	88.8	78.1	68.7	80.5
2006	112.1	71.2	89.9	83.2	72.6	91.5
2007	113.2	78.8	88.9	81.0	72.5	85.2
2008	100.9	83.3	91.5	84.7	66.0	84.7
2009	103.5	70.8	87.0	77.4	67.7	80.3

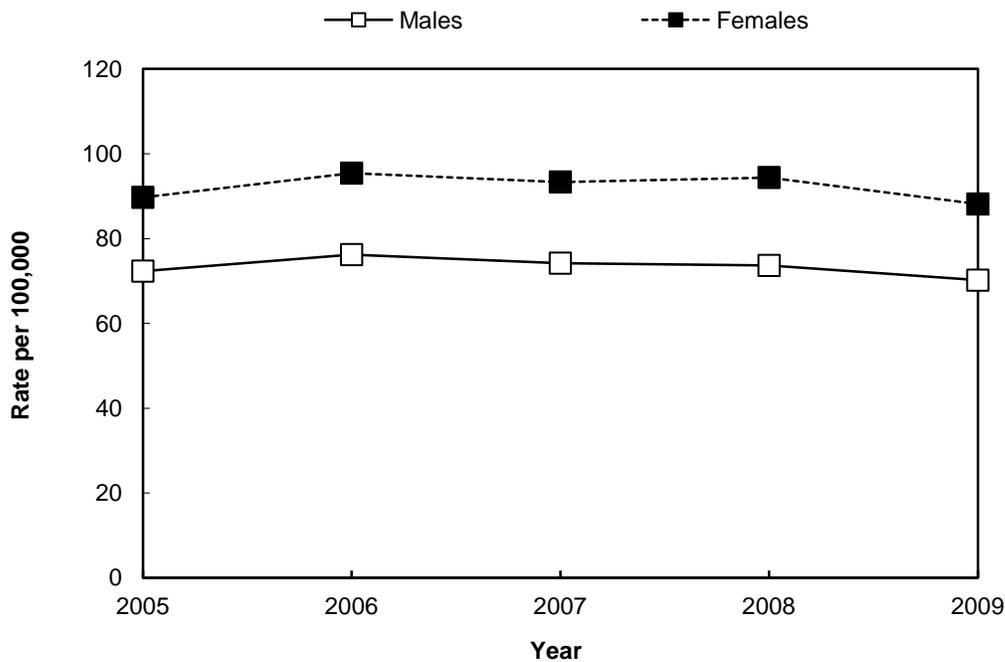
NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population.
Rates are per 100,000. Data for 2005-2009 based on ICD-9-CM codes. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX PENNSYLVANIA RESIDENTS, 2005-2009

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2005	4,318	72.3 *	2005	5,440	89.7
2006	4,564	76.2 *	2006	5,794	95.4
2007	4,437	74.2 *	2007	5,665	93.4
2008	4,428	73.7 *	2008	5,754	94.4
2009	4,273	70.2 *	2009	5,431	88.2

* denotes a statistically significant difference between groups at level of $p = .05$



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2005-2009

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2005	72.7	71.4	2005	86.4	98.8 *
2006	77.0	74.5	2006	90.9	108.2 *
2007	74.9	72.7	2007	89.2	105.2 *
2008	74.2	72.5	2008	90.3	106.1 *
2009	69.3	73.1	2009	84.4	99.2 *

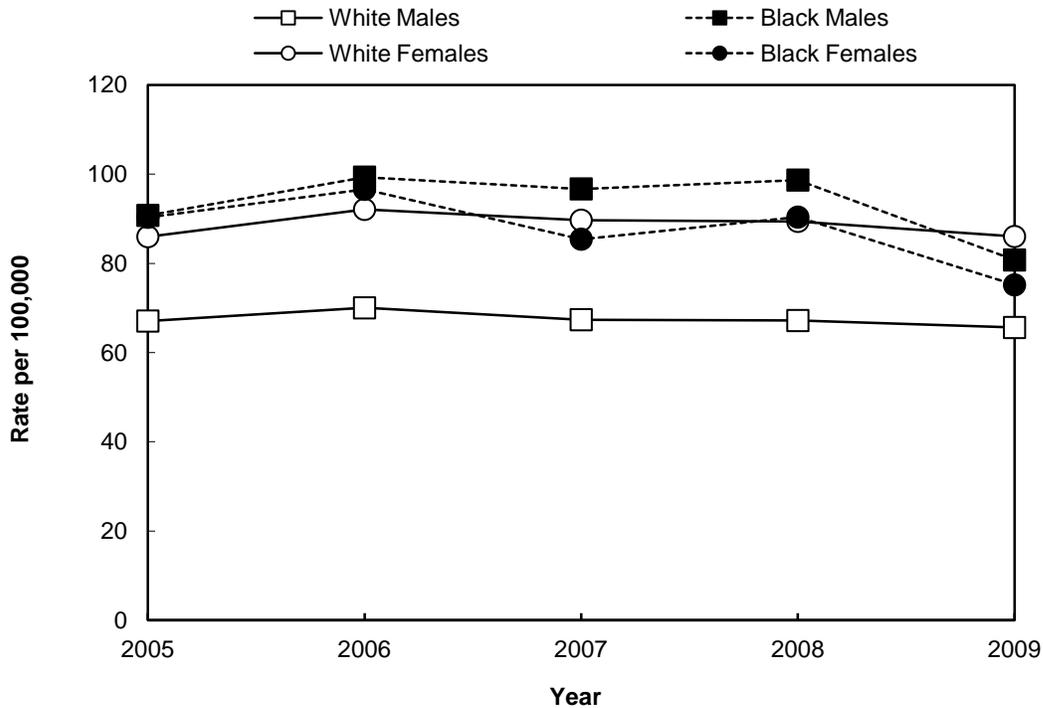
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX AND RACE OR ETHNICITY PENNSYLVANIA RESIDENTS, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	3,459	539	4,459	618	206	224
2006	3,596	606	4,742	662	234	232
2007	3,447	584	4,614	594	239	277
2008	3,454	595	4,619	636	238	332
2009	3,405	507	4,472	538	231	271



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	67.1	90.7 *	86.0	90.3	85.7	83.4
2006	70.0	99.3 *	92.1	96.6	86.3	88.3
2007	67.4	96.7 *	89.7	85.4	83.2	102.5
2008	67.2	98.7 *	89.4	90.4	87.0	113.8
2009	65.6	80.8 *	86.0	75.2 *	77.5	86.4

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Hispanics may be of any race. Hispanic numbers include whites, blacks and others of Hispanic ethnicity. Therefore, Hispanics must not be compared to whites or blacks, as the groups are not mutually exclusive.

INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2009

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL		
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	
TOTAL	9,707	77.0	4,273	69.7	5,431	83.8		6,913	75.3	2,794	81.5
< 5	0	NA	0	NA	0	NA		0	NA	0	NA
5-9	5	NA	1	NA	4	NA		4	NA	1	NA
10-14	121	15.1	20	4.9	101	25.7	*	77	13.0	44	21.1
15-19	987	105.3	379	80.5	608	130.5	*	643	95.1	344	131.8
20-24	1,268	140.4	573	125.0	695	156.3	*	903	138.2	365	146.2
25-29	1,088	143.7	480	123.6	607	164.6	*	738	129.9	350	185.1
30-34	994	132.4	462	121.6	532	143.5	*	695	125.7	299	151.2
35-39	1,014	127.2	447	112.5	567	141.9	*	712	121.4	302	143.2
40-44	1,071	123.4	496	115.3	575	131.2	*	764	119.9	307	132.8
45-49	1,104	120.6	494	109.4	609	131.2	*	795	118.8	309	125.4
50-54	877	97.6	396	90.2	481	104.8	*	653	100.2	224	91.0
55-59	474	57.6	221	55.6	253	59.5		364	61.6	110	47.5
60-64	263	37.6	122	36.7	140	38.2		202	40.7	61	30.0
65-69	152	28.4	47	19.1	105	36.4	*	127	34.1	25	15.4
70-74	95	21.5	39	20.0	56	22.6		78	25.2	17	12.8
75-79	78	21.5	46	30.8	32	15.0	*	61	23.9	17	15.8
80-84	62	22.4	20	19.0	42	24.4		52	26.5	10	12.4
85 +	54	16.4	30	28.5	24	10.7		45	19.1	9	NA

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2009

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	3,405	64.9	507	78.1	4,472	80.9	538	75.2	502	77.6
< 5	0	NA	0	NA	0	NA	0	NA	0	NA
5-9	1	NA	0	NA	0	NA	1	NA	3	NA
10-14	14	4.2	2	NA	64	20.1	10	18.6	21	33.9
15-19	296	76.6	30	48.1	479	125.0	71	116.0	56	83.4
20-24	456	121.3	66	106.6	552	151.4	77	128.2	71	127.8
25-29	392	123.0	44	82.8	499	165.8	61	119.0	59	117.8
30-34	352	111.6	64	138.0	432	141.6	54	113.6	68	145.2
35-39	364	108.2	44	101.9	471	140.9	57	121.4	51	106.4
40-44	380	102.5	80	187.3	479	128.3	56	116.2	55	131.0
45-49	389	98.2	66	158.8	515	128.3	60	124.7	47	122.3
50-54	315	80.5	58	159.0	416	103.5	39	87.7	33	119.8
55-59	185	51.6	29	97.9	215	57.2	24	62.8	17	77.8
60-64	103	34.1	13	57.4	123	37.6	11	35.8	10	70.4
65-69	36	15.9	6	NA	91	34.8	9	NA	4	NA
70-74	37	20.6	0	NA	44	19.5	6	NA	3	NA
75-79	42	30.4	2	NA	29	14.8	1	NA	2	NA
80-84	15	15.4	2	NA	41	26.0	0	NA	1	NA
85 +	28	28.9	1	NA	22	10.7	1	NA	1	NA

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Hispanics may be of any race; therefore, their rates must not be compared to whites or blacks.

INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2009

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	904	97.9	459	67.4	1,328	84.3	3,890	76.7	1,070	64.9	2,056	76.1
< 5	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA
5-9	0	NA	0	NA	1	NA	2	NA	0	NA	2	NA
10-14	10	17.3	7	NA	34	34.4 +	43	12.7	13	12.4	14	8.6 -
15-19	109	155.9 +	50	76.2 -	143	123.8	381	100.6	109	94.6	195	101.6
20-24	121	191.7 +	66	91.3 -	184	164.5 +	491	134.2	140	129.3	266	146.6
25-29	115	216.4 +	62	179.9	140	151.0	396	121.4 -	132	132.5	243	161.0
30-34	101	186.1 +	42	110.6	143	156.2 +	363	115.3 -	130	130.4	215	141.0
35-39	88	155.7	43	109.0	123	125.5	402	121.0	131	123.3	227	137.8
40-44	114	185.1 +	57	132.4	136	126.4	420	117.9	105	90.9 -	239	129.7
45-49	87	131.6	60	131.6	151	132.4	441	119.8	107	88.7 -	258	128.3
50-54	79	119.8	40	87.9	118	104.3	399	113.2 +	80	67.6 -	161	79.4 -
55-59	44	71.7	14	32.9 -	57	54.0	217	69.0 +	47	42.7 -	95	50.4
60-64	16	29.8	1	NA	42	45.0	115	44.1	27	28.9	62	38.6
65-69	2	NA	4	NA	17	23.4	85	43.5 +	24	32.1	20	16.7 -
70-74	4	NA	4	NA	14	23.9	42	26.1	10	16.6	21	20.6
75-79	6	NA	5	NA	10	21.4	33	25.1	6	NA	18	20.6
80-84	5	NA	2	NA	5	NA	35	35.6 +	4	NA	11	15.3
85 +	3	NA	2	NA	10	24.3	25	21.0	5	NA	9	NA

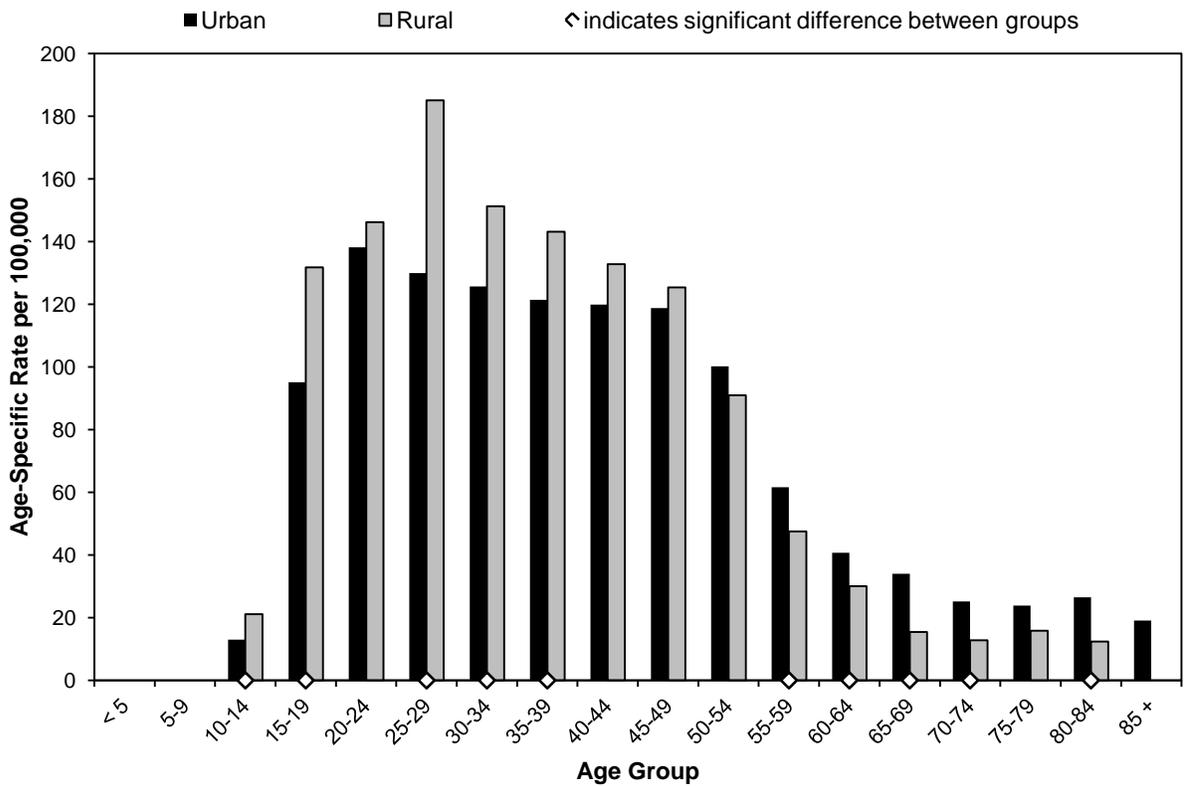
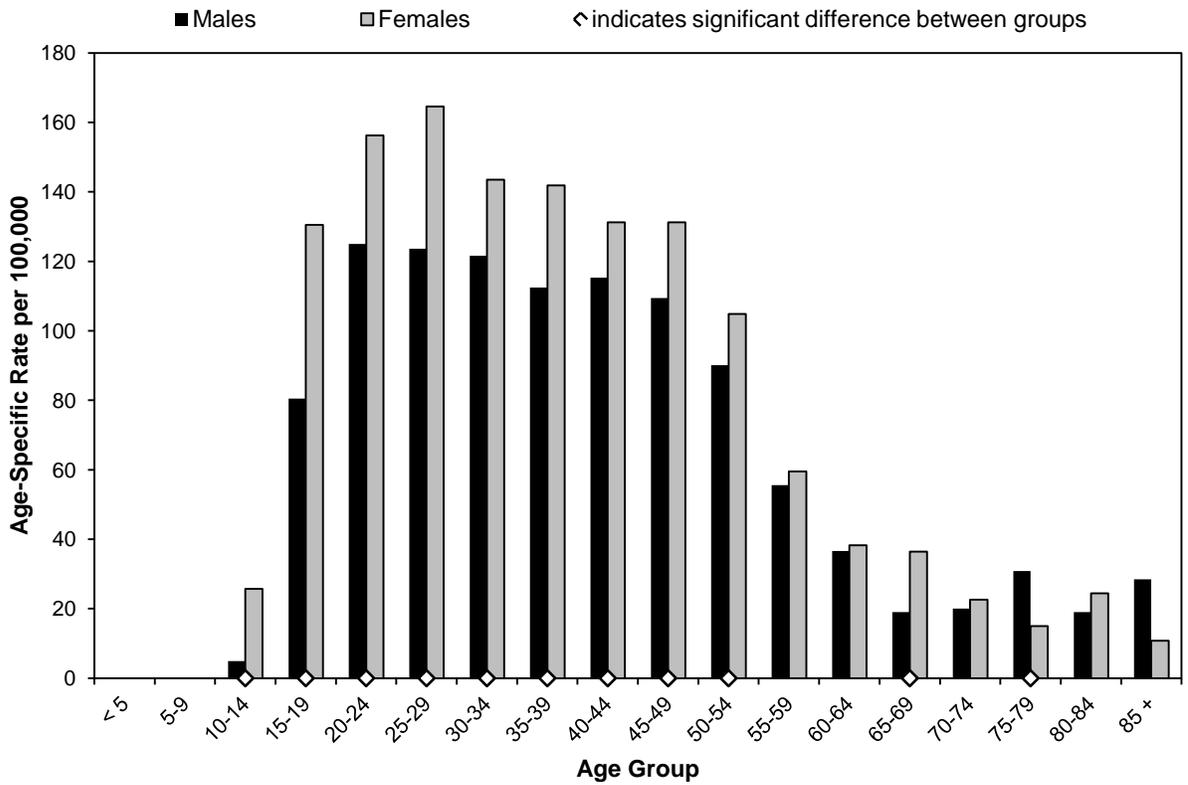
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total.

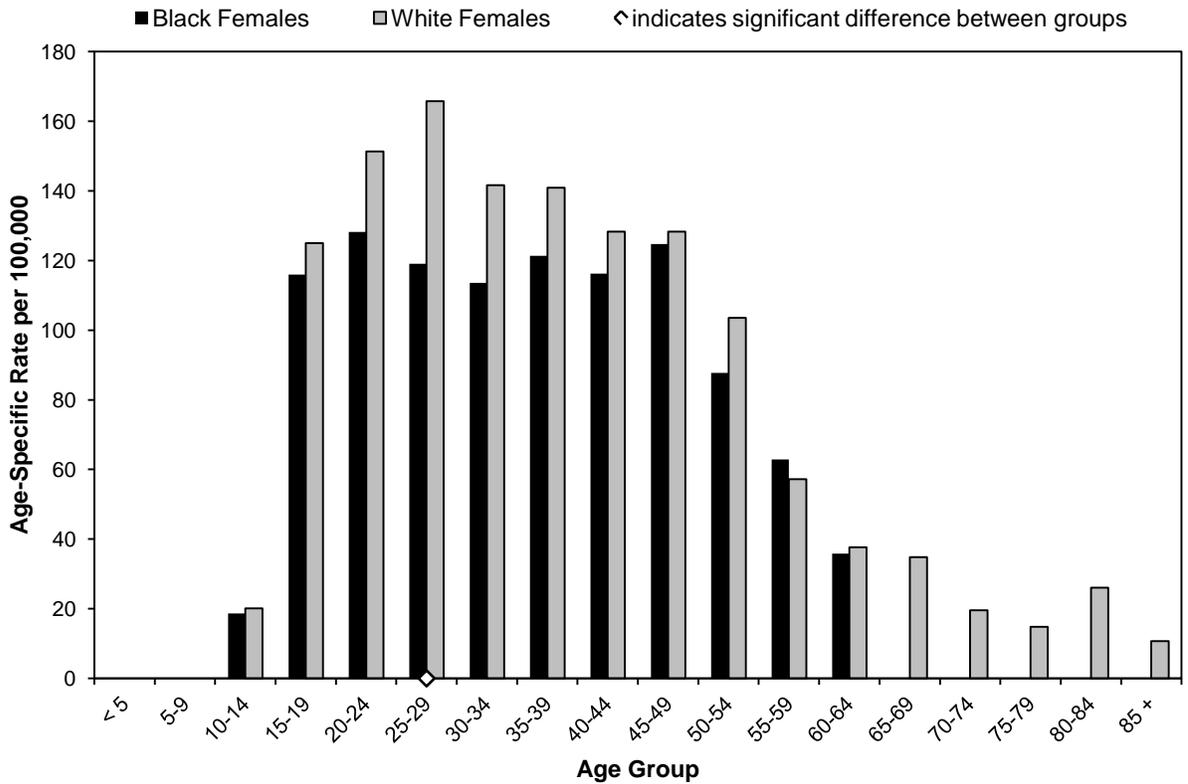
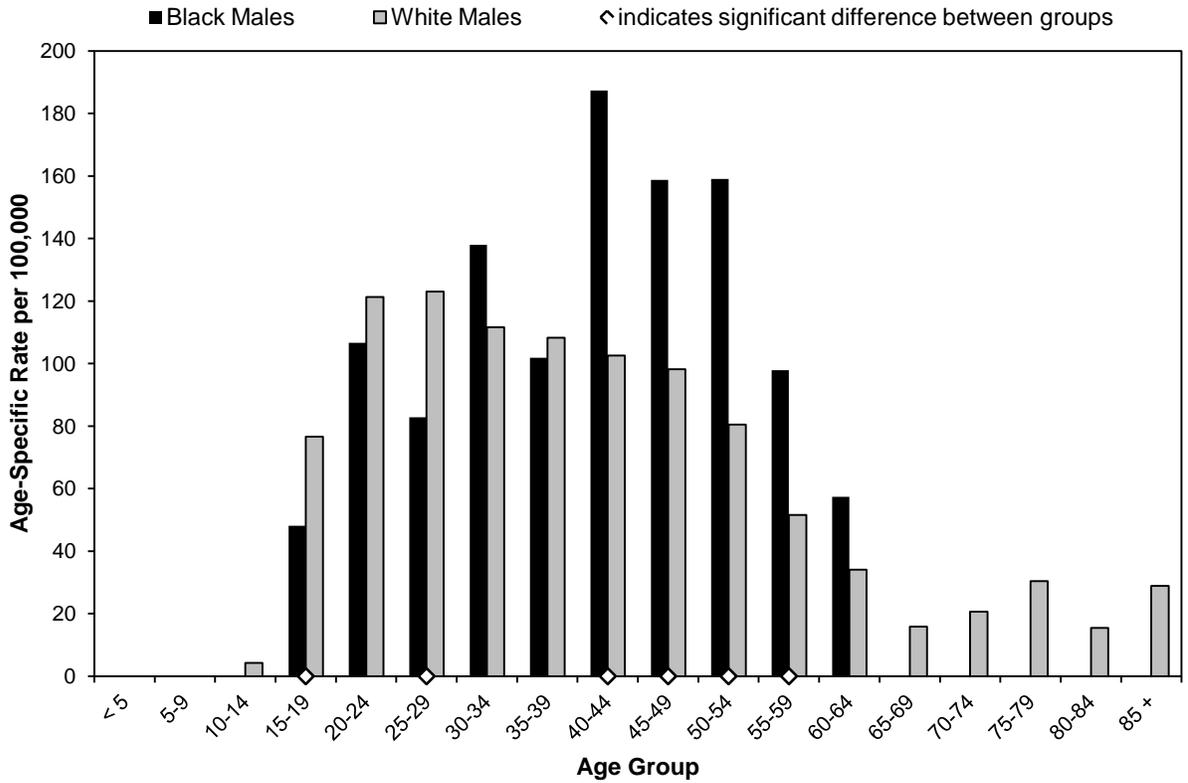
INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED

AGE-SPECIFIC HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS PENNSYLVANIA RESIDENTS, 2009



INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED

AGE-SPECIFIC HOSPITALIZATION RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2009



INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2009

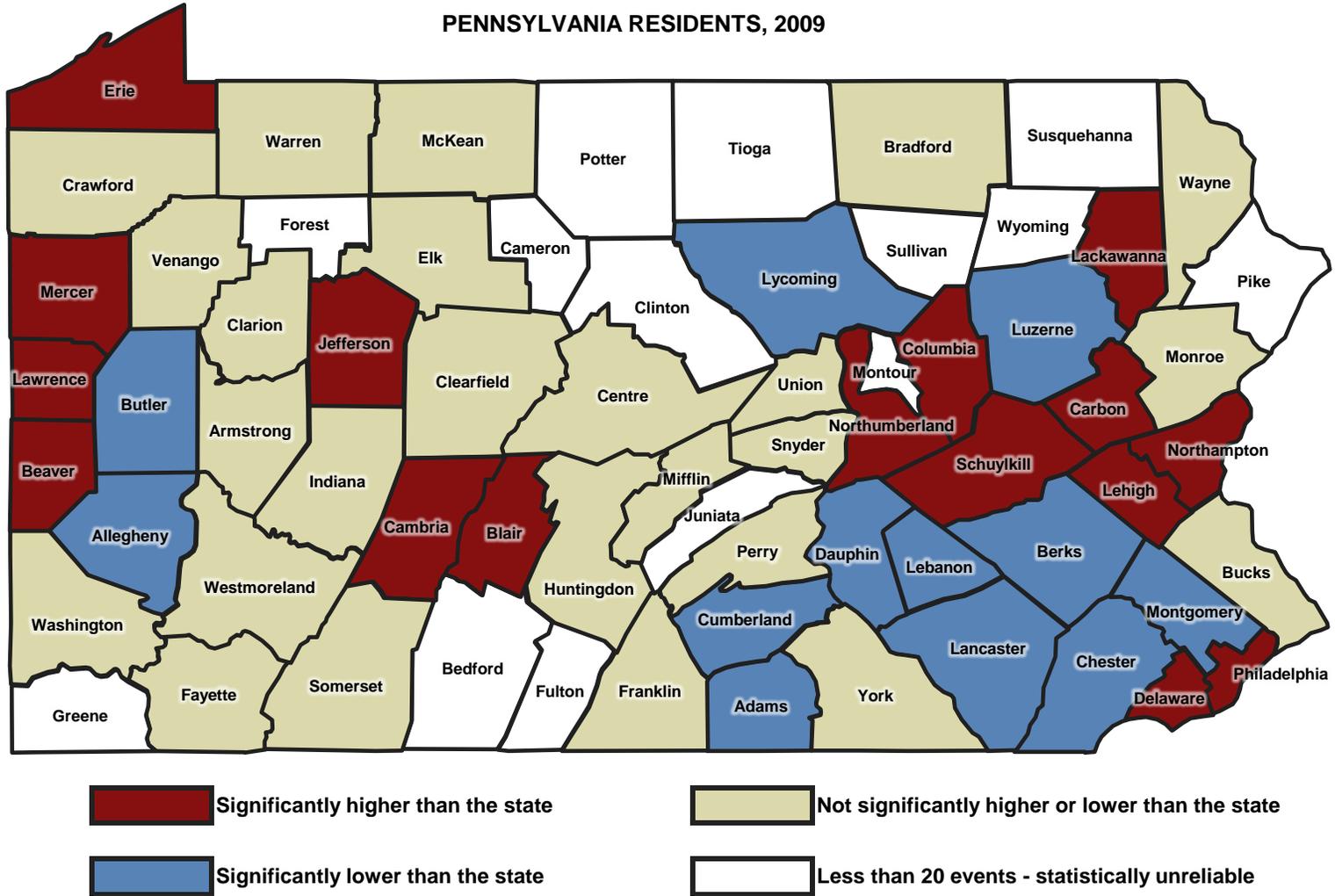
District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
Northeast	1,328	87.0	82.3-91.7 +	Southeast	3,890	77.4	74.9-79.8
Carbon	99	168.5	135.3-201.7 +	Berks	257	64.8	56.9-72.7 -
Lackawanna	203	100.8	87.0-114.7 +	Bucks	512	84.1	76.8-91.3
Lehigh	331	99.8	89.0-110.5 +	Chester	244	49.5	43.3-55.7 -
Luzerne	161	51.9	43.9-59.9 -	Delaware	523	94.0	85.9-102.0 +
Monroe	138	82.7	68.9-96.5	Lancaster	274	56.0	49.3-62.6 -
Northampton	314	108.1	96.2-120.1 +	Montgomery	524	68.6	62.7-74.5 -
Pike	17	NA		Philadelphia	1,322	86.9	82.3-91.6 +
Susquehanna	18	NA		Schuylkill	234	170.5	148.7-192.3 +
Wayne	30	69.9	44.9-95.0				
Wyoming	17	NA					
North Central	459	70.8	64.3-77.2 -	South Central	1,070	67.7	63.7-71.8 -
Bradford	53	97.2	71.0-123.4	Adams	40	40.0	27.6-52.3 -
Centre	106	83.1	67.2-98.9	Bedford	16	NA	
Clinton	14	NA		Blair	125	107.4	88.6-126.3 +
Columbia	63	107.9	81.3-134.6 +	Cumberland	137	59.2	49.3-69.1 -
Lycoming	44	38.1	26.8-49.3 -	Dauphin	140	56.4	47.0-65.7 -
Montour	13	NA		Franklin	92	70.8	56.3-85.2
Northumberland	87	107.1	84.6-129.6 +	Fulton	6	NA	
Potter	3	NA		Huntingdon	41	90.6	62.9-118.3
Snyder	21	57.0	32.6-81.4	Juniata	13	NA	
Sullivan	2	NA		Lebanon	50	41.6	30.0-53.1 -
Tioga	17	NA		Mifflin	30	72.9	46.8-99.0
Union	36	78.2	52.6-103.7	Perry	35	84.0	56.2-111.9
				York	345	82.7	74.0-91.4
Northwest	904	103.5	96.7-110.2 +	Southwest	2,056	80.3	76.9-83.8
Cameron	7	NA		Allegheny	823	70.5	65.7-75.3 -
Clarion	24	70.7	42.4-99.0	Armstrong	53	89.5	65.4-113.6
Clearfield	74	95.4	73.6-117.1	Beaver	161	105.8	89.4-122.1 +
Crawford	69	84.4	64.5-104.3	Butler	115	65.2	53.3-77.1 -
Elk	30	108.7	69.8-147.6	Cambria	179	130.6	111.5-149.7 +
Erie	291	106.4	94.2-118.6 +	Fayette	123	92.4	76.1-108.7
Forest	3	NA		Greene	19	NA	
Jefferson	46	115.3	82.0-148.7 +	Indiana	82	101.8	79.8-123.9
Lawrence	85	108.9	85.8-132.1 +	Somerset	56	78.8	58.2-99.5
McKean	30	72.1	46.3-97.9	Washington	144	74.7	62.5-86.9
Mercer	158	144.5	122.0-167.1 +	Westmoreland	301	89.9	79.7-100.0
Venango	53	108.8	79.5-138.1				
Warren	34	94.5	62.8-126.3	Pennsylvania	9,707	79.1	77.5-80.7

NOTE: Rates based on less than 20 events are unreliable and were not calculated. See Technical Notes.

+/- denotes that the county's rate is significantly higher or lower than the state at the p=.05 level.

INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED

AGE-ADJUSTED HOSPITALIZATION RATES BY COUNTY,
WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE
PENNSYLVANIA RESIDENTS, 2009



NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2009

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	4,273	5,431	9,707	1,113	34.3	3,350	139.0	3,189	123.6	1,614	66.7	441	22.7
Northeast	601	724	1,328	178	45.4	467	157.7	410	128.3	217	69.5	56	22.0
Carbon	45	54	99	18	129.5	44	351.7	25	192.8	10	74.6	2	NA
Lackawanna	96	107	203	13	25.7	84	208.6	58	142.3	39	96.8	9	NA
Lehigh	152	179	331	47	52.6	126	189.1	100	145.0	45	68.2	13	24.7
Luzerne	73	85	161	17	23.8	51	86.1	50	78.2	32	51.9	11	19.4
Monroe	45	93	138	13	28.7	37	118.8	56	155.3	29	88.1	3	NA
Northampton	152	162	314	48	60.0	104	182.9	96	159.2	51	89.7	15	33.3
Pike	8	9	17	0	NA	8	NA	3	NA	6	NA	0	NA
Susquehanna	7	11	18	3	NA	3	NA	10	126.2	1	NA	1	NA
Wayne	14	16	30	13	120.3	7	NA	7	NA	3	NA	0	NA
Wyoming	9	8	17	6	NA	3	NA	5	NA	1	NA	2	NA
Southeast	1,770	2,120	3,890	426	30.9	1,250	124.1	1,263	119.6	731	78.8	220	31.2
Berks	110	147	257	32	28.0	73	96.5	88	104.2	47	63.1	17	29.1
Bucks	251	261	512	54	33.9	150	143.3	176	123.3	101	78.5	31	34.3
Chester	112	132	244	29	20.7	83	90.0	82	74.5	34	36.3	16	25.4
Delaware	240	283	523	58	38.8	173	158.7	167	145.8	91	86.4	34	42.6
Lancaster	119	155	274	28	19.5	92	93.9	86	86.4	46	50.8	22	29.0
Montgomery	207	317	524	79	39.4	157	112.2	140	80.7	104	69.0	44	37.4
Philadelphia	634	688	1,322	113	25.7	438	121.4	441	147.6	274	107.3	56	29.1
Schuylkill	97	137	234	33	103.7	84	313.4	83	253.4	34	119.0	0	NA

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	4,273	5,431	9,707	1,113	34.3	3,350	139.0	3,189	123.6	1,614	66.7	441	22.7
North Central	175	284	459	57	32.7	170	117.5	160	124.9	55	44.0	17	15.7
Bradford	22	31	53	3	NA	23	227.7	16	127.8	11	88.9	0	NA
Centre	36	70	106	10	24.8	39	89.6	42	175.1	8	NA	7	NA
Clinton	6	8	14	1	NA	11	154.3	1	NA	1	NA	0	NA
Columbia	26	37	63	5	NA	22	157.3	24	213.4	9	NA	3	NA
Lycoming	19	25	44	7	NA	17	74.9	8	NA	10	43.4	2	NA
Montour	6	7	13	2	NA	5	NA	5	NA	1	NA	0	NA
Northumberland	34	53	87	16	75.5	31	204.4	27	142.5	10	53.1	3	NA
Potter	2	1	3	1	NA	0	NA	2	NA	0	NA	0	NA
Snyder	6	15	21	6	NA	3	NA	10	136.5	2	NA	0	NA
Sullivan	0	2	2	0	NA	0	NA	2	NA	0	NA	0	NA
Tioga	4	13	17	2	NA	7	NA	6	NA	1	NA	1	NA
Union	14	22	36	4	NA	12	116.2	17	178.4	2	NA	1	NA
South Central	465	605	1,070	122	28.9	402	130.7	343	100.2	154	47.8	49	19.2
Adams	18	22	40	4	NA	16	83.7	14	65.8	3	NA	3	NA
Bedford	5	11	16	1	NA	6	NA	5	NA	4	NA	0	NA
Blair	67	58	125	25	81.1	53	231.9	34	137.8	12	47.8	1	NA
Cumberland	55	82	137	17	29.0	50	103.1	41	89.3	24	55.6	5	NA
Dauphin	48	92	140	17	25.4	46	98.7	43	76.2	26	49.0	8	NA
Franklin	43	49	92	12	31.1	38	143.3	28	100.2	11	40.2	3	NA
Fulton	3	3	6	2	NA	1	NA	2	NA	1	NA	0	NA
Huntingdon	27	14	41	2	NA	18	195.7	14	144.5	6	NA	1	NA
Juniata	5	8	13	2	NA	1	NA	6	NA	2	NA	2	NA
Lebanon	20	30	50	5	NA	17	66.6	19	75.6	7	NA	2	NA
Mifflin	9	21	30	3	NA	12	155.7	9	NA	3	NA	3	NA
Perry	14	21	35	5	NA	13	157.7	13	135.0	3	NA	1	NA
York	151	194	345	27	24.3	131	167.1	115	121.4	52	61.9	20	33.0

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	4,273	5,431	9,707	1,113	34.3	3,350	139.0	3,189	123.6	1,614	66.7	441	22.7
Northwest	428	476	904	119	51.3	337	197.6	289	156.9	139	76.8	20	12.9
Cameron	7	0	7	0	NA	0	NA	3	NA	4	NA	0	NA
Clarion	15	9	24	4	NA	13	172.5	5	NA	1	NA	1	NA
Clearfield	37	37	74	15	84.5	23	153.9	19	104.6	17	101.0	0	NA
Crawford	36	33	69	6	NA	23	144.9	24	141.7	14	78.9	2	NA
Elk	14	16	30	3	NA	15	306.7	7	NA	4	NA	1	NA
Erie	129	162	291	34	45.8	103	178.3	107	192.4	40	77.4	7	NA
Forest	1	2	3	0	NA	2	NA	0	NA	1	NA	0	NA
Jefferson	31	15	46	3	NA	13	168.4	21	235.9	9	NA	0	NA
Lawrence	39	46	85	11	49.1	32	210.9	33	186.3	8	NA	1	NA
McKean	9	21	30	2	NA	15	189.5	6	NA	7	NA	0	NA
Mercer	76	82	158	28	94.5	58	285.4	46	204.2	19	83.4	7	NA
Venango	20	33	53	7	NA	26	290.0	12	112.3	8	NA	0	NA
Warren	14	20	34	6	NA	14	213.8	6	NA	7	NA	1	NA
Southwest	834	1,222	2,056	211	32.6	724	149.3	724	131.6	318	57.6	79	16.9
Allegheny	323	500	823	67	22.6	289	128.8	288	116.3	145	59.1	34	16.6
Armstrong	24	29	53	11	65.5	21	202.3	14	100.5	5	NA	2	NA
Beaver	80	81	161	12	30.2	61	209.5	64	183.2	17	46.6	7	NA
Butler	44	71	115	17	35.1	44	134.8	38	97.0	14	38.6	2	NA
Cambria	75	104	179	25	76.3	69	268.6	47	162.8	27	91.4	11	40.6
Fayette	49	74	123	12	36.0	39	161.9	48	162.1	21	68.2	3	NA
Greene	7	12	19	2	NA	6	NA	5	NA	5	NA	1	NA
Indiana	35	47	82	10	42.7	24	134.0	32	205.1	14	84.5	2	NA
Somerset	22	34	56	11	66.8	16	114.5	22	133.2	7	NA	0	NA
Washington	64	80	144	17	34.2	47	123.6	56	136.4	19	45.0	5	NA
Westmoreland	111	190	301	27	33.1	108	177.9	110	147.7	44	57.2	12	17.5

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED

**NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI),
BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2009**

BLACK POPULATION BY COUNTY				WHITE POPULATION BY COUNTY				HISPANIC POPULATION BY COUNTY			
County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)
Allegheny	102	65.3	52.6-78.0	Allegheny	700	73.0	67.6-78.4	Berks	44	78.1	55.0-101.2
Chester	25	82.2	50.0-114.4	Chester	200	45.7	39.4-52.1 -	Lancaster	6	NA	
Dauphin	22	52.4	30.5-74.3	Dauphin	109	56.5	45.9-67.1 -	Lehigh	73	130.0	100.1-159.8 +
Delaware	56	54.7	40.4-69.0 -	Delaware	446	108.9	98.8-119.0 +	Philadelphia	142	76.8	64.1-89.4
Montgomery	48	63.3	45.4-81.3	Montgomery	422	65.9	59.7-72.2 -				
Philadelphia	519	75.0	68.5-81.4	Philadelphia	614	86.7	79.9-93.6 +				
Pennsylvania	1,045	77.2	72.5-81.9	Pennsylvania	7,880	75.7	74.1-77.4	Pennsylvania	502	82.0	74.8-89.2

**NUMBER FOR SELECT AGE GROUPS AND AGE-SPECIFIC HOSPITALIZATION RATES
BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2009**

Select Counties	Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+		
		Male	Female			All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.
Allegheny	Black	13.6%	47	55	102	12.4%	10	17.7	33	93.2	39	127.7	18	68.8	2	NA
	White	82.9%	268	432	700	85.1%	55	24.5	245	137.3	244	117.1	125	58.3	31	16.9
Chester	Black	6.2%	19	6	25	10.2%	2	NA	12	165.1	3	NA	7	NA	1	NA
	White	89.5%	81	119	200	82.0%	27	22.1	63	78.1	69	70.3	27	31.2	14	23.9
Dauphin	Black	18.0%	8	14	22	15.7%	2	NA	5	NA	11	114.6	2	NA	2	NA
	White	77.0%	37	72	109	77.9%	12	26.3	36	104.9	31	70.6	24	54.4	6	NA
Delaware	Black	18.9%	23	33	56	10.7%	8	NA	10	37.5	26	117.1	10	69.0	2	NA
	White	75.2%	204	242	446	85.3%	43	41.4	161	213.1	133	158.0	79	91.7	30	42.9
Montgomery	Black	8.9%	17	31	48	9.2%	4	NA	23	143.1	8	NA	12	105.7	1	NA
	White	84.2%	170	252	422	80.5%	65	39.6	112	99.5	117	81.7	87	66.3	41	38.2
Philadelphia	Black	46.7%	257	262	519	39.3%	46	19.8	166	101.5	195	140.0	95	83.3	17	23.3
	White	45.8%	289	325	614	46.4%	35	20.6	185	112.4	201	146.2	157	125.5	36	32.2
Pennsylvania	Black	10.8%	507	538	1,045	10.8%	114	25.8	366	114.3	363	134.1	174	86.1	28	21.6
	White	85.5%	3,405	4,472	7,880	81.2%	854	32.3	2,684	135.5	2,599	117.5	1,358	63.0	385	21.6

INJURY HOSPITALIZATIONS: ALL ASSAULT INJURIES

In 2009, among Pennsylvania residents, there were 5,382 hospitalizations due to assault injury. On average, one resident was hospitalized every 100 minutes.

Injury Definition

Assault includes any injury inflicted by another with the intent to cause harm.

Assault includes domestic violence, rape and sexual assault, as well as physical abuse of a child or elder.

Leading mechanisms of assault include being struck by personal weapons (such as fists or a blunt object), firearms (shootings) and cut/pierce (stabbings). These three mechanisms account for 66 percent of all assault injury hospitalizations in PA.

HIGHLIGHTS

- *Age-adjusted rates have generally been **stable** over 2005 to 2009.*
- *Most common demographic is **black males**, ages 15 to 49.*
- *Of all Pennsylvania counties, **Philadelphia** shows the highest rate.*

Trends Over Time

- The age-adjusted hospitalization rate for assault injury increased from 2005 to 2006, from 44.6 to 48.3 hospitalizations per 100,000 population. Rates then decreased to 44.0 hospitalizations per 100,000 population in 2009.
- Males showed significantly higher age-adjusted assault injury hospitalization rates than females over 2005 to 2009 (rates were 69.9 and 17.9, respectively, in 2009).
- Black males and females showed significantly higher age-adjusted assault injury hospitalization rates than white males and females over 2005 to 2009.

Demographic Trends

- Black males and females accounted for nearly half of all assault injury hospitalizations.
- Males showed significantly higher assault injury hospitalization rates than females among ages 15 to 64.
- Among males and females, blacks showed significantly higher assault injury hospitalization rates than whites for all ages for which rates could be calculated.

Regional Trends

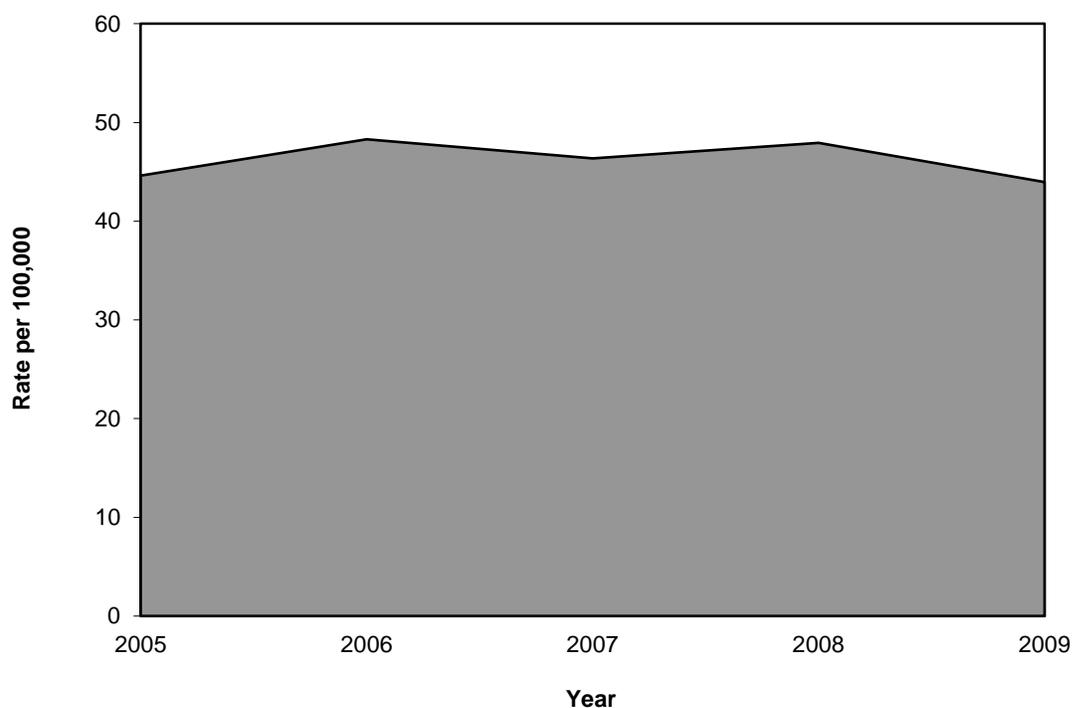
- Three counties showed age-adjusted assault injury hospitalization rates in 2009 that were significantly higher than the comparable state rate: Allegheny, Delaware and Philadelphia. All three counties were urban.

Note: Rates were not able to be calculated for most counties in the state due to a small number of events (i.e., fewer than 20 assault hospitalizations in 2009).

INJURY HOSPITALIZATIONS: ALL ASSAULT

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, 2005-2009

Year	No.	Rate
2005	5,371	44.6
2006	5,816	48.3
2007	5,582	46.4
2008	5,799	47.9
2009	5,382	44.0



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2005-2009

Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2005	21.5	11.3	27.0	67.3	21.1	43.4
2006	22.8	12.9	31.3	75.8	20.1	41.9
2007	21.9	15.9	31.9	71.3	17.4	42.2
2008	28.7	14.9	31.9	73.7	17.8	42.9
2009	21.9	16.3	27.4	67.0	16.9	41.1

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population.

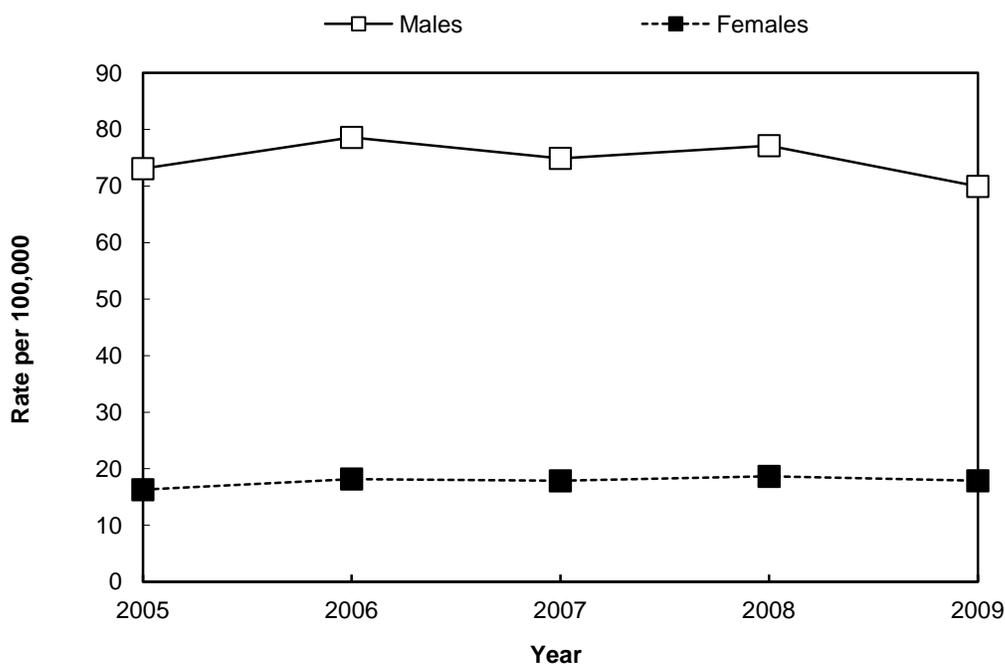
Rates are per 100,000. Data for 2005-2009 based on ICD-9-CM codes. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL ASSAULT

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX PENNSYLVANIA RESIDENTS, 2005-2009

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2005	4,387	73.1 *	2005	984	16.3
2006	4,716	78.6 *	2006	1,099	18.2
2007	4,497	74.9 *	2007	1,085	17.9
2008	4,663	77.1 *	2008	1,134	18.6
2009	4,279	69.9 *	2009	1,099	17.9

** denotes a statistically significant difference between groups at level of $p = .05$*



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2005-2009

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2005	91.1	26.8 *	2005	19.3	8.2 *
2006	99.0	26.4 *	2006	21.5	9.2 *
2007	93.0	28.1 *	2007	20.5	10.7 *
2008	96.0	28.5 *	2008	22.0	9.5 *
2009	86.5	26.5 *	2009	20.7	10.0 *

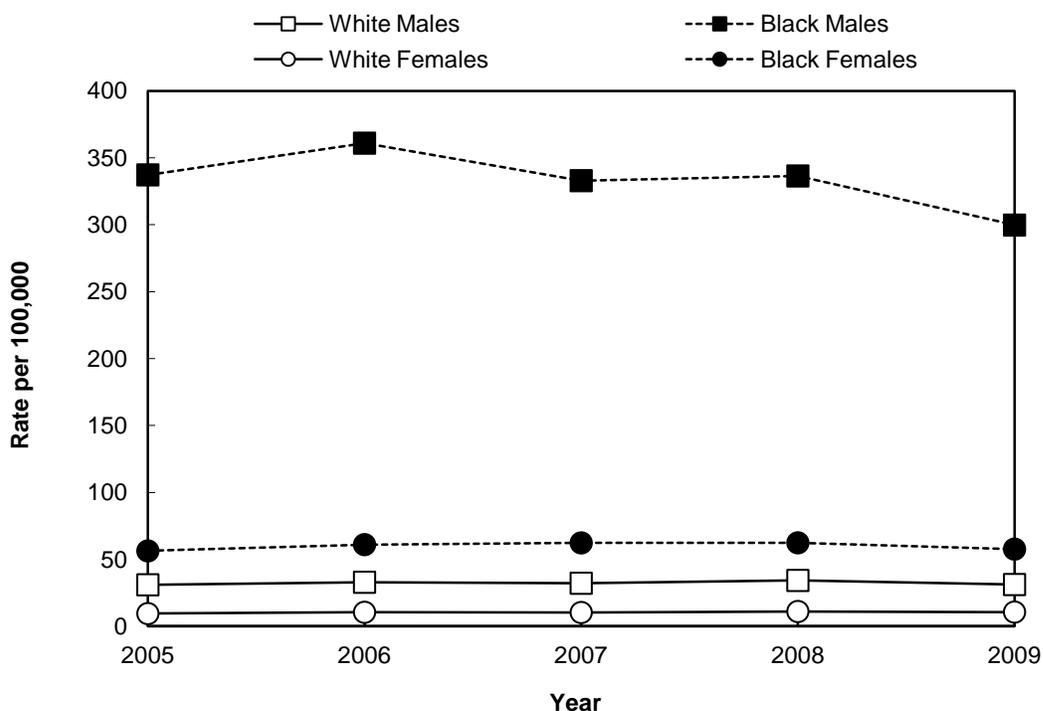
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL ASSAULT

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX AND RACE OR ETHNICITY PENNSYLVANIA RESIDENTS, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	1,597	2,213	497	387	352	63
2006	1,678	2,357	537	431	427	80
2007	1,643	2,195	537	438	362	57
2008	1,760	2,246	577	440	389	55
2009	1,627	2,043	563	418	363	57



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	31.0	337.2 *	9.5	56.3 *	143.2	22.4
2006	32.9	360.9 *	10.5	61.0 *	149.3	30.7
2007	32.2	332.9 *	10.3	62.3 *	119.7	20.7
2008	34.3	336.4 *	11.1	62.4 *	130.9	20.2
2009	31.2	299.7 *	10.6	57.7 *	110.2	16.4

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Hispanics may be of any race. Hispanic numbers include whites, blacks and others of Hispanic ethnicity. Therefore, Hispanics must not be compared to whites or blacks, as the groups are not mutually exclusive.

INJURY HOSPITALIZATIONS: ALL ASSAULT

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2009

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	5,382	42.7	4,279	69.8	1,099	17.0	4,781	52.1	601	17.5
< 5	171	22.9	97	25.4	74	20.3	127	22.6	44	23.9
5-9	17	2.2	11	2.8	6	NA	11	1.9	6	NA
10-14	81	10.1	62	15.2	19	4.8	73	12.3	8	NA
15-19	663	70.8	567	120.4	96	20.6	605	89.5	58	22.2
20-24	947	104.9	794	173.3	153	34.4	849	130.0	98	39.2
25-29	702	92.7	578	148.8	123	33.4	632	111.3	70	37.0
30-34	537	71.5	429	112.9	106	28.6	486	87.9	51	25.8
35-39	468	58.7	373	93.8	95	23.8	415	70.8	53	25.1
40-44	463	53.3	360	83.7	103	23.5	404	63.4	59	25.5
45-49	460	50.2	352	78.0	107	23.1	403	60.2	57	23.1
50-54	370	41.2	307	69.9	63	13.7	328	50.3	42	17.1
55-59	178	21.6	138	34.7	40	9.4	161	27.2	17	7.3
60-64	126	18.0	92	27.6	34	9.3	109	22.0	17	8.4
65-69	51	9.5	38	15.4	13	4.5	48	12.9	3	NA
70-74	48	10.9	32	16.4	16	6.5	43	13.9	5	NA
75-79	32	8.8	15	10.1	17	7.9	26	10.2	6	NA
80-84	27	9.7	13	12.4	14	8.1	21	10.7	6	NA
85 +	40	12.2	20	19.0	20	9.0	39	16.5	1	NA

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY HOSPITALIZATIONS: ALL ASSAULT

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2009

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
TOTAL	1,627	31.0	2,043	314.5		563	10.2	418	58.5		421	65.1
< 5	51	16.5	28	52.4	*	33	11.2	28	53.8	*	12	15.8
5-9	5	NA	6	NA		2	NA	2	NA		0	NA
10-14	19	5.7	31	55.9	*	3	NA	13	24.2		8	NA
15-19	152	39.4	320	512.9	*	35	9.1	46	75.2	*	55	81.9
20-24	289	76.9	388	626.8	*	61	16.7	69	114.9	*	84	151.2
25-29	240	75.3	252	474.3	*	64	21.3	47	91.7	*	57	113.8
30-34	142	45.0	200	431.3	*	51	16.7	43	90.4	*	63	134.5
35-39	116	34.5	198	458.5	*	53	15.9	36	76.7	*	42	87.6
40-44	147	39.7	171	400.4	*	53	14.2	38	78.9	*	41	97.7
45-49	146	36.8	173	416.2	*	56	14.0	40	83.1	*	29	75.4
50-54	147	37.6	131	359.2	*	36	9.0	26	58.5	*	17	61.7
55-59	61	17.0	65	219.4	*	29	7.7	9	NA		3	NA
60-64	52	17.2	31	136.8	*	25	7.6	8	NA		5	NA
65-69	20	8.8	14	94.4	*	9	NA	4	NA		2	NA
70-74	9	NA	23	198.1		12	5.3	2	NA		1	NA
75-79	7	NA	6	NA		14	7.1	3	NA		0	NA
80-84	9	NA	3	NA		12	7.6	2	NA		0	NA
85 +	14	14.4	3	NA		15	7.3	2	NA		2	NA

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Hispanics may be of any race; therefore, their rates must not be compared to whites or blacks.

INJURY HOSPITALIZATIONS: ALL ASSAULT

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2009

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	188	20.4	105	15.4	417	26.5	3,355	66.1	266	16.1	1,051	38.9
< 5	11	21.7	12	34.3	24	27.6	66	20.0	18	17.9	40	28.0
5-9	1	NA	0	NA	0	NA	8	NA	2	NA	6	NA
10-14	3	NA	0	NA	7	NA	47	13.9 +	3	NA	21	12.9
15-19	16	22.9 -	13	19.8 -	43	37.2 -	427	112.7 +	22	19.1 -	142	74.0
20-24	39	61.8 -	14	19.4 -	85	76.0 -	570	155.7 +	39	36.0 -	200	110.2
25-29	13	24.5 -	12	34.8 -	51	55.0 -	449	137.6 +	39	39.2 -	138	91.5
30-34	25	46.1 -	11	29.0 -	34	37.1 -	358	113.7 +	30	30.1 -	79	51.8 -
35-39	22	38.9	8	NA	33	33.7 -	305	91.8 +	26	24.5 -	74	44.9 -
40-44	18	29.2 -	9	NA	30	27.9 -	294	82.5 +	16	13.9 -	96	52.1
45-49	14	21.2 -	11	24.1 -	45	39.5	285	77.4 +	28	23.2 -	77	38.3 -
50-54	10	15.2 -	6	NA	29	25.6 -	239	67.8 +	12	10.1 -	74	36.5
55-59	6	NA	3	NA	13	12.3 -	111	35.3 +	12	10.9 -	33	17.5
60-64	3	NA	5	NA	11	11.8	70	26.9 +	6	NA	31	19.3
65-69	1	NA	0	NA	3	NA	32	16.4 +	5	NA	10	8.3
70-74	1	NA	1	NA	2	NA	33	20.5 +	1	NA	10	9.8
75-79	3	NA	0	NA	1	NA	16	12.2	3	NA	9	NA
80-84	2	NA	0	NA	2	NA	16	16.3 +	2	NA	5	NA
85 +	0	NA	0	NA	4	NA	28	23.5 +	2	NA	6	NA

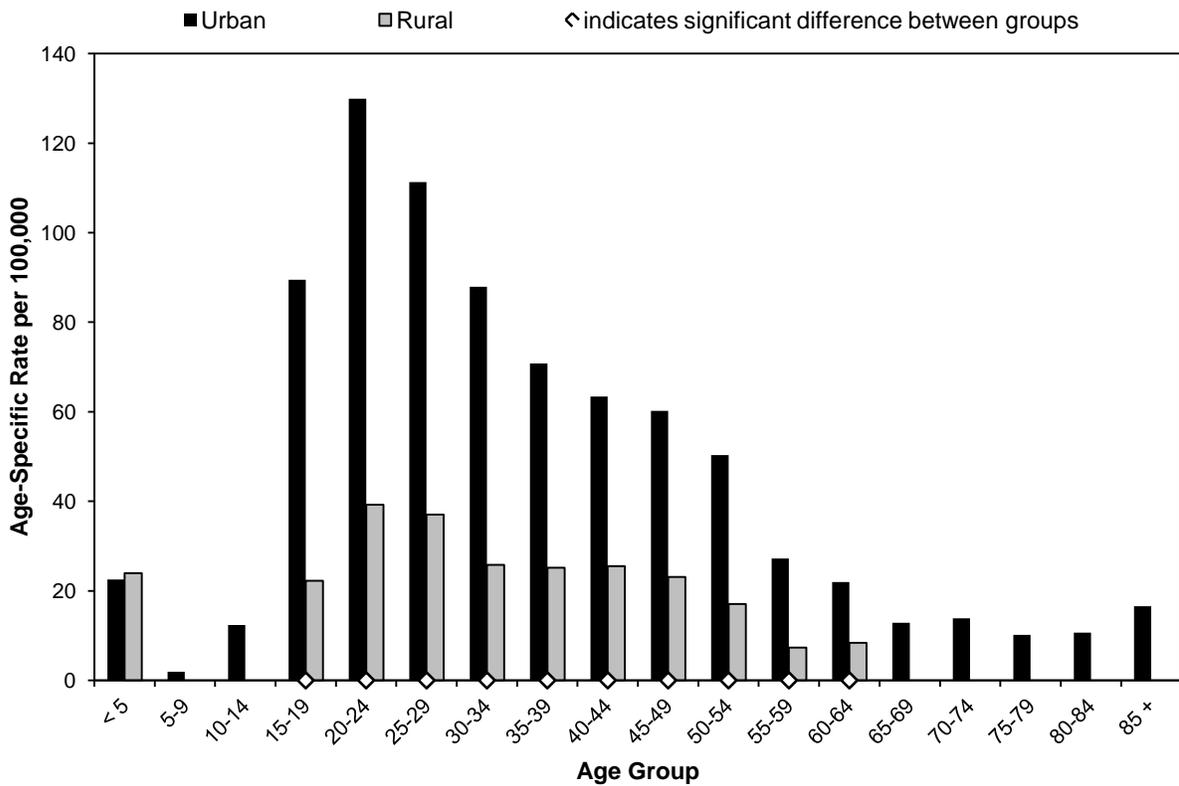
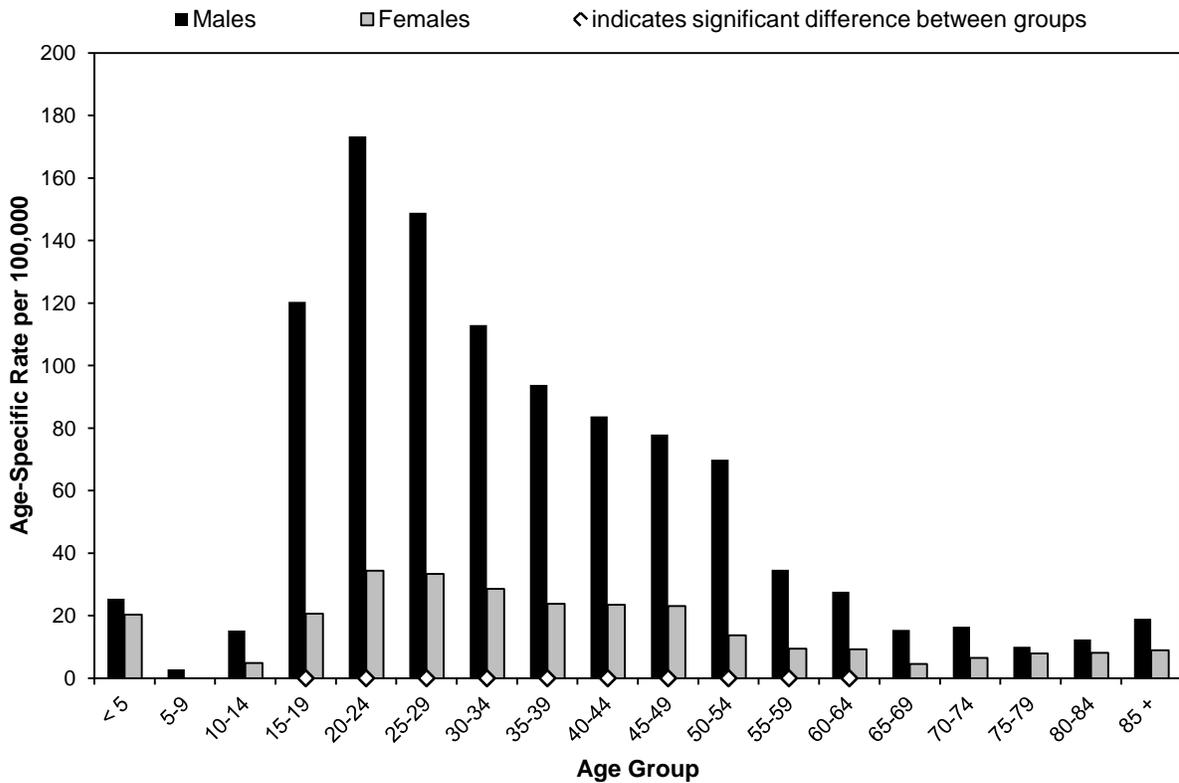
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total.

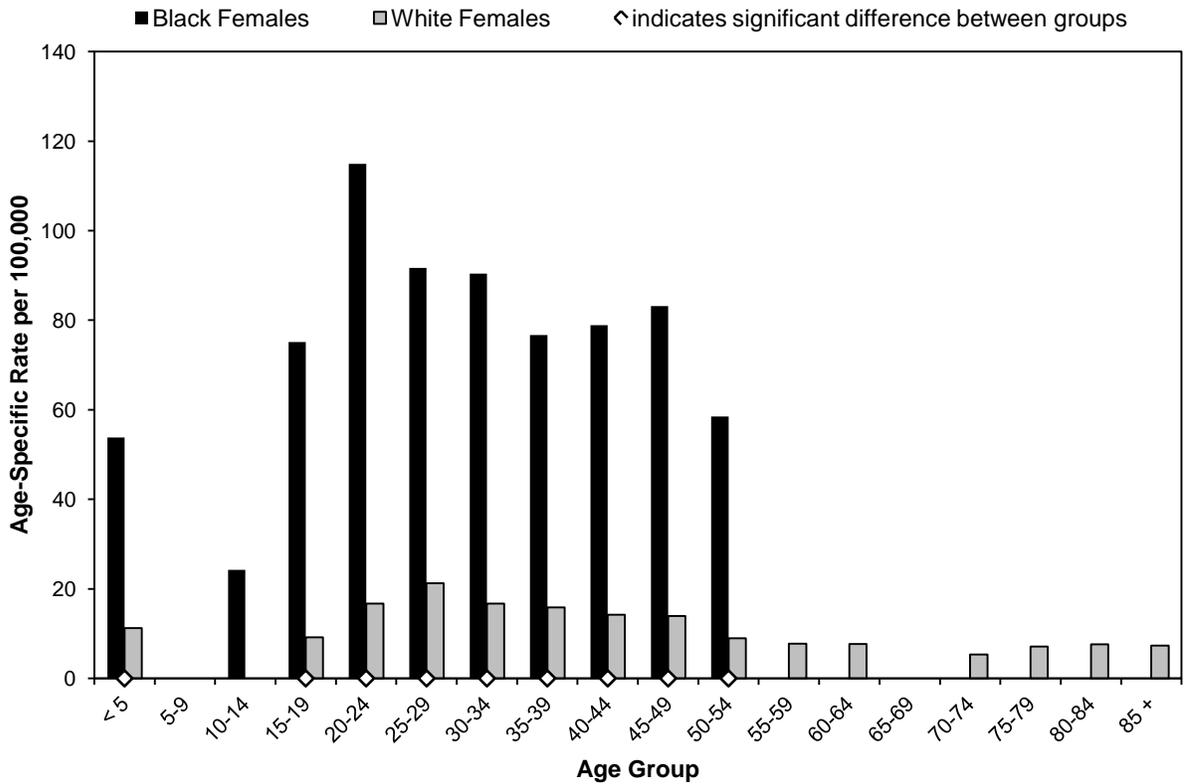
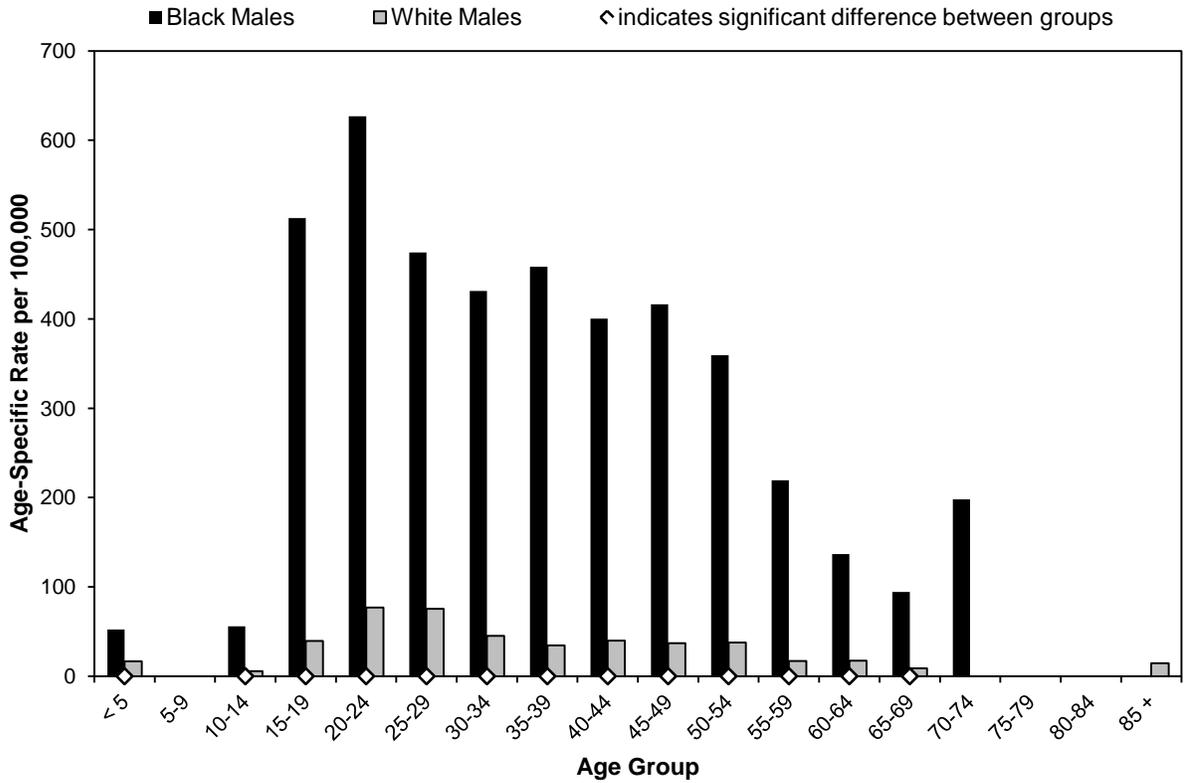
INJURY HOSPITALIZATIONS: ALL ASSAULT

AGE-SPECIFIC HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS PENNSYLVANIA RESIDENTS, 2009



INJURY HOSPITALIZATIONS: ALL ASSAULT

AGE-SPECIFIC HOSPITALIZATION RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2009



INJURY HOSPITALIZATIONS: ALL ASSAULT

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2009

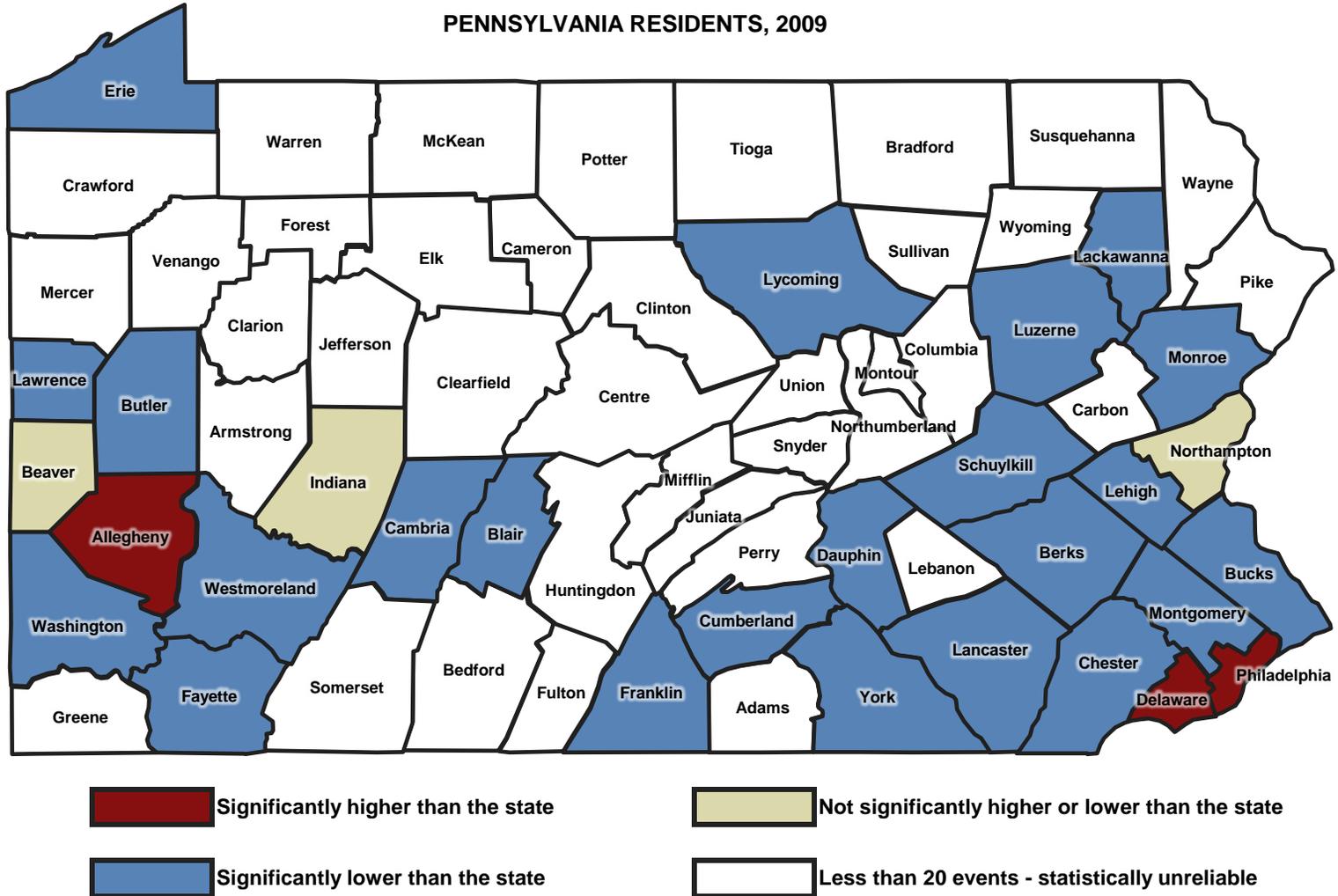
District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
Northeast	417	27.4	24.8-30.0 -	Southeast	3,355	67.0	64.7-69.2 +
Carbon	14	NA		Berks	119	30.5	25.0-35.9 -
Lackawanna	43	22.6	15.9-29.4 -	Bucks	111	19.2	15.7-22.8 -
Lehigh	97	29.1	23.3-34.9 -	Chester	71	14.7	11.3-18.2 -
Luzerne	89	30.5	24.2-36.9 -	Delaware	367	66.8	59.9-73.6 +
Monroe	40	22.8	15.7-29.9 -	Lancaster	103	20.9	16.9-25.0 -
Northampton	114	37.6	30.7-44.5	Montgomery	205	27.4	23.7-31.2 -
Pike	7	NA		Philadelphia	2,340	148.2	142.2-154.2 +
Susquehanna	0	NA		Schuylkill	39	28.9	19.9-38.0 -
Wayne	11	NA					
Wyoming	2	NA					
North Central	105	16.3	13.2-19.4 -	South Central	266	16.9	14.8-18.9 -
Bradford	3	NA		Adams	3	NA	
Centre	13	NA		Bedford	1	NA	
Clinton	6	NA		Blair	30	26.2	16.8-35.6 -
Columbia	15	NA		Cumberland	25	9.9	6.0-13.8 -
Lycoming	22	20.0	11.6-28.3 -	Dauphin	80	33.3	26.0-40.6 -
Montour	6	NA		Franklin	23	16.4	9.7-23.1 -
Northumberland	11	NA		Fulton	2	NA	
Potter	2	NA		Huntingdon	5	NA	
Snyder	5	NA		Juniata	2	NA	
Sullivan	0	NA		Lebanon	9	NA	
Tioga	4	NA		Mifflin	4	NA	
Union	18	NA		Perry	7	NA	
				York	75	18.4	14.2-22.6 -
Northwest	188	21.9	18.8-25.1 -	Southwest	1,051	41.1	38.6-43.5
Cameron	1	NA		Allegheny	694	59.0	54.6-63.4 +
Clarion	12	NA		Armstrong	15	NA	
Clearfield	16	NA		Beaver	54	33.9	24.9-42.9
Crawford	7	NA		Butler	28	16.1	10.1-22.1 -
Elk	4	NA		Cambria	40	28.9	19.9-37.8 -
Erie	90	33.0	26.2-39.8 -	Fayette	38	29.4	20.1-38.7 -
Forest	0	NA		Greene	2	NA	
Jefferson	7	NA		Indiana	23	31.6	18.7-44.5
Lawrence	20	23.5	13.2-33.8 -	Somerset	13	NA	
McKean	5	NA		Washington	49	25.7	18.5-32.9 -
Mercer	16	NA		Westmoreland	95	29.5	23.6-35.4 -
Venango	8	NA					
Warren	2	NA		Pennsylvania	5,382	44.0	42.8-45.1

NOTE: Rates based on less than 20 events are unreliable and were not calculated. See Technical Notes.

+/- denotes that the county's rate is significantly higher or lower than the state at the p=.05 level.

INJURY HOSPITALIZATIONS: ALL ASSAULT

AGE-ADJUSTED HOSPITALIZATION RATES BY COUNTY,
WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE
PENNSYLVANIA RESIDENTS, 2009



NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL ASSAULT

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2009

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	4,279	1,099	5,382	932	28.7	2,186	90.7	1,391	53.9	674	27.9	198	10.2
Northeast	338	79	417	74	18.9	170	57.4	108	33.8	53	17.0	12	4.7
Carbon	9	5	14	1	NA	8	NA	4	NA	0	NA	1	NA
Lackawanna	33	10	43	7	NA	19	47.2	13	31.9	4	NA	0	NA
Lehigh	79	18	97	21	23.5	44	66.0	22	31.9	9	NA	1	NA
Luzerne	73	16	89	17	23.8	30	50.6	28	43.8	10	16.2	4	NA
Monroe	31	9	40	7	NA	15	48.2	10	27.7	7	NA	1	NA
Northampton	96	18	114	20	25.0	51	89.7	21	34.8	18	31.7	4	NA
Pike	6	1	7	0	NA	2	NA	4	NA	1	NA	0	NA
Susquehanna	0	0	0	0	NA	0	NA	0	NA	0	NA	0	NA
Wayne	10	1	11	0	NA	1	NA	5	NA	4	NA	1	NA
Wyoming	1	1	2	1	NA	0	NA	1	NA	0	NA	0	NA
Southeast	2,727	627	3,355	548	39.8	1,377	136.7	884	83.7	420	45.3	125	17.7
Berks	96	23	119	17	14.9	52	68.8	36	42.6	12	16.1	1	NA
Bucks	77	34	111	20	12.5	50	47.8	16	11.2	14	10.9	11	12.2
Chester	58	13	71	12	8.6	29	31.4	18	16.4	9	NA	3	NA
Delaware	286	81	367	54	36.1	149	136.7	103	90.0	50	47.5	11	13.8
Lancaster	83	20	103	16	11.1	49	50.0	23	23.1	13	14.4	2	NA
Montgomery	169	36	205	30	15.0	85	60.8	55	31.7	23	15.3	12	10.2
Philadelphia	1,930	410	2,340	390	88.7	952	263.9	619	207.2	297	116.3	82	42.6
Schuylkill	28	10	39	9	NA	11	41.0	14	42.7	2	NA	3	NA

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	4,279	1,099	5,382	932	28.7	2,186	90.7	1,391	53.9	674	27.9	198	10.2
North Central	77	25	105	25	14.3	37	25.6	28	21.9	14	11.2	1	NA
Bradford	3	0	3	1	NA	2	NA	0	NA	0	NA	0	NA
Centre	8	5	13	3	NA	4	NA	4	NA	2	NA	0	NA
Clinton	5	1	6	4	NA	1	NA	1	NA	0	NA	0	NA
Columbia	11	3	15	6	NA	4	NA	2	NA	3	NA	0	NA
Lycoming	16	6	22	4	NA	10	44.0	5	NA	3	NA	0	NA
Montour	6	0	6	2	NA	2	NA	1	NA	1	NA	0	NA
Northumberland	8	3	11	4	NA	4	NA	3	NA	0	NA	0	NA
Potter	0	2	2	1	NA	0	NA	0	NA	1	NA	0	NA
Snyder	2	3	5	0	NA	2	NA	3	NA	0	NA	0	NA
Sullivan	0	0	0	0	NA	0	NA	0	NA	0	NA	0	NA
Tioga	2	2	4	0	NA	1	NA	1	NA	1	NA	1	NA
Union	16	0	18	0	NA	7	NA	8	NA	3	NA	0	NA
South Central	193	73	266	45	10.7	108	35.1	70	20.4	30	9.3	13	5.1
Adams	2	1	3	1	NA	1	NA	0	NA	1	NA	0	NA
Bedford	1	0	1	0	NA	0	NA	1	NA	0	NA	0	NA
Blair	23	7	30	6	NA	12	52.5	9	NA	3	NA	0	NA
Cumberland	20	5	25	4	NA	10	20.6	3	NA	6	NA	2	NA
Dauphin	58	22	80	16	23.9	35	75.1	21	37.2	5	NA	3	NA
Franklin	15	8	23	4	NA	10	37.7	3	NA	4	NA	2	NA
Fulton	1	1	2	1	NA	0	NA	1	NA	0	NA	0	NA
Huntingdon	5	0	5	2	NA	0	NA	2	NA	1	NA	0	NA
Juniata	1	1	2	0	NA	0	NA	1	NA	1	NA	0	NA
Lebanon	6	3	9	0	NA	3	NA	3	NA	3	NA	0	NA
Mifflin	0	4	4	1	NA	2	NA	1	NA	0	NA	0	NA
Perry	6	1	7	2	NA	3	NA	1	NA	1	NA	0	NA
York	55	20	75	8	NA	32	40.8	24	25.3	5	NA	6	NA

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	4,279	1,099	5,382	932	28.7	2,186	90.7	1,391	53.9	674	27.9	198	10.2
Northwest	138	50	188	31	13.4	77	45.2	54	29.3	19	10.5	7	NA
Cameron	1	0	1	0	NA	1	NA	0	NA	0	NA	0	NA
Clarion	8	4	12	3	NA	5	NA	3	NA	1	NA	0	NA
Clearfield	13	3	16	2	NA	8	NA	4	NA	0	NA	2	NA
Crawford	5	2	7	0	NA	4	NA	2	NA	1	NA	0	NA
Elk	4	0	4	2	NA	1	NA	0	NA	1	NA	0	NA
Erie	70	20	90	15	20.2	37	64.0	26	46.8	10	19.4	2	NA
Forest	0	0	0	0	NA	0	NA	0	NA	0	NA	0	NA
Jefferson	7	0	7	2	NA	2	NA	2	NA	0	NA	1	NA
Lawrence	11	9	20	5	NA	11	72.5	1	NA	3	NA	0	NA
McKean	3	2	5	0	NA	1	NA	3	NA	0	NA	1	NA
Mercer	7	9	16	1	NA	4	NA	7	NA	3	NA	1	NA
Venango	7	1	8	1	NA	3	NA	4	NA	0	NA	0	NA
Warren	2	0	2	0	NA	0	NA	2	NA	0	NA	0	NA
Southwest	806	245	1,051	209	32.3	417	86.0	247	44.9	138	25.0	40	8.6
Allegheny	543	151	694	143	48.2	279	124.3	153	61.8	92	37.5	27	13.2
Armstrong	7	8	15	7	NA	5	NA	3	NA	0	NA	0	NA
Beaver	43	11	54	6	NA	21	72.1	17	48.7	5	NA	5	NA
Butler	20	8	28	6	NA	11	33.7	6	NA	4	NA	1	NA
Cambria	27	13	40	9	NA	12	46.7	9	NA	8	NA	2	NA
Fayette	31	7	38	4	NA	16	66.4	13	43.9	5	NA	0	NA
Greene	1	1	2	0	NA	0	NA	0	NA	0	NA	2	NA
Indiana	15	8	23	5	NA	8	NA	7	NA	2	NA	1	NA
Somerset	11	2	13	7	NA	1	NA	2	NA	2	NA	1	NA
Washington	40	9	49	2	NA	24	63.1	16	39.0	7	NA	0	NA
Westmoreland	68	27	95	20	24.5	40	65.9	21	28.2	13	16.9	1	NA

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL ASSAULT

**NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI),
BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2009**

BLACK POPULATION BY COUNTY				WHITE POPULATION BY COUNTY				HISPANIC POPULATION BY COUNTY			
County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)
Allegheny	361	208.9	187.3-230.4 +	Allegheny	299	30.6	27.2-34.1 +	Berks	34	52.4	34.8-70.0
Chester	23	71.2	42.1-100.3 -	Chester	35	8.2	5.5-10.9 -	Lancaster	2	NA	
Dauphin	42	87.9	61.3-114.4 -	Dauphin	26	14.1	8.7-19.5 -	Lehigh	30	45.0	28.9-61.1
Delaware	200	177.9	153.3-202.6	Delaware	146	36.3	30.4-42.2 +	Philadelphia	256	132.3	116.1-148.6 +
Montgomery	65	87.1	65.9-108.3 -	Montgomery	104	16.9	13.7-20.2				
Philadelphia	1,531	210.7	200.1-221.2 +	Philadelphia	430	58.5	53.0-64.0 +				
Pennsylvania	2,462	173.8	167.0-180.7	Pennsylvania	2,192	21.0	20.1-21.9	Pennsylvania	421	63.2	57.2-69.3

**NUMBER FOR SELECT AGE GROUPS AND AGE-SPECIFIC HOSPITALIZATION RATES
BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2009**

Select Counties	Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+		
		Male	Female			All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.
County and Race	Cty. Pop.															
Allegheny	Black	13.6%	301	60	361	52.0%	99	175.3	150	423.6	76	248.9	31	118.5	5	NA
	White	82.9%	213	86	299	43.1%	38	16.9	111	62.2	73	35.0	57	26.6	20	10.9
Chester	Black	6.2%	20	3	23	32.4%	4	NA	8	NA	8	NA	3	NA	0	NA
	White	89.5%	26	9	35	49.3%	5	NA	14	17.3	8	NA	5	NA	3	NA
Dauphin	Black	18.0%	35	7	42	52.5%	11	68.9	17	174.8	10	104.2	3	NA	1	NA
	White	77.0%	13	13	26	32.5%	3	NA	10	29.1	9	NA	2	NA	2	NA
Delaware	Black	18.9%	161	39	200	54.5%	42	121.9	76	284.8	58	261.3	20	138.0	4	NA
	White	75.2%	110	36	146	39.8%	7	NA	63	83.4	41	48.7	29	33.7	6	NA
Montgomery	Black	8.9%	55	10	65	31.7%	8	NA	25	155.6	23	142.0	8	NA	1	NA
	White	84.2%	84	20	104	50.7%	19	11.6	42	37.3	24	16.8	10	7.6	9	NA
Philadelphia	Black	46.7%	1,262	269	1,531	65.4%	266	114.2	613	374.9	422	303.1	181	158.7	49	67.0
	White	45.8%	347	83	430	18.4%	36	21.2	167	101.5	113	82.2	89	71.2	25	22.3
Pennsylvania	Black	10.8%	2,043	418	2,462	45.7%	474	107.3	1,000	312.2	656	242.3	270	133.6	62	47.8
	White	85.5%	1,627	563	2,192	40.7%	300	11.4	848	42.8	572	25.9	350	16.2	121	6.8

INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

In 2009, among Pennsylvania residents, there were 17,916 injury hospitalizations involving traumatic brain injury (TBI). On average, one resident was hospitalized every 30 minutes.

Injury Definition

Traumatic brain injury (TBI) includes concussions, skull fractures and other intracranial injury.

Whereas other topics in this report reflect external causes of injury, TBI represents a specific injury diagnosis. That is, a variety of external causes may cause a traumatic brain injury.

Leading causes of TBI include motor vehicle accidents and falls. These mechanisms account for over 75 percent of all TBI hospitalizations in PA.

HIGHLIGHTS

- *Age-adjusted rates have generally been **decreasing** over 2005 to 2009.*
- *Most common demographic is residents age **75 and older**.*
- *Of all Pennsylvania counties, **Monroe and Northampton** show the highest rate.*

Trends Over Time

- Age-adjusted hospitalization rates for TBI increased from 2005 to 2006, from 138.8 to 143.0 hospitalizations per 100,000 population. Rates then decreased from 2006 to 2009, to 127.6 hospitalizations per 100,000 population.
- Males showed significantly higher age-adjusted TBI hospitalization rates than females over 2005 to 2009 (rates were 165.3 and 91.1, respectively, in 2009).
- Black males showed significantly higher age-adjusted TBI hospitalization rates than white males over 2005 to 2009 (rates were 209.6 and 146.8, respectively, in 2009).

Demographic Trends

- Males showed significantly higher hospitalization rates than females for all age groups.
- Among males, blacks showed significantly higher TBI hospitalization rates for most ages less than 70, while whites showed significantly higher rates for ages 80 and older.
- Among females, blacks showed significantly higher TBI hospitalization rates for ages less than 5, while whites showed significantly higher rates for ages 75 and older.

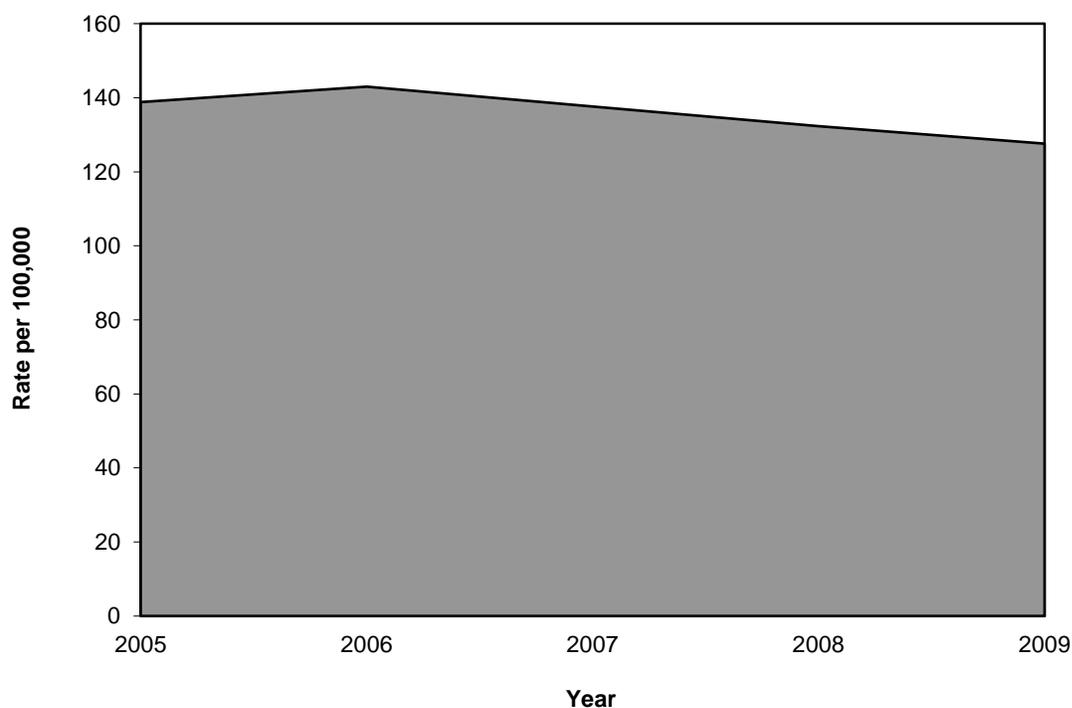
Regional Trends

- The Northeast Health District showed the highest age-specific TBI hospitalization rates, while the North Central and South Central Health Districts showed the lowest rates.
- Ten counties showed age-adjusted TBI hospitalization rates for 2009 that were significantly higher than the comparable state rate.

INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, 2005-2009

Year	No.	Rate
2005	18,365	138.8
2006	18,768	143.0
2007	18,260	137.6
2008	17,981	132.3
2009	17,916	127.6



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2005-2009

Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2005	120.1	92.6	179.6	135.8	110.8	155.4
2006	133.4	101.8	165.3	142.1	121.2	159.1
2007	131.5	102.6	152.1	141.4	107.3	152.0
2008	137.3	92.2	151.8	133.3	99.9	146.3
2009	120.5	93.2	154.1	131.9	97.5	132.8

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population.

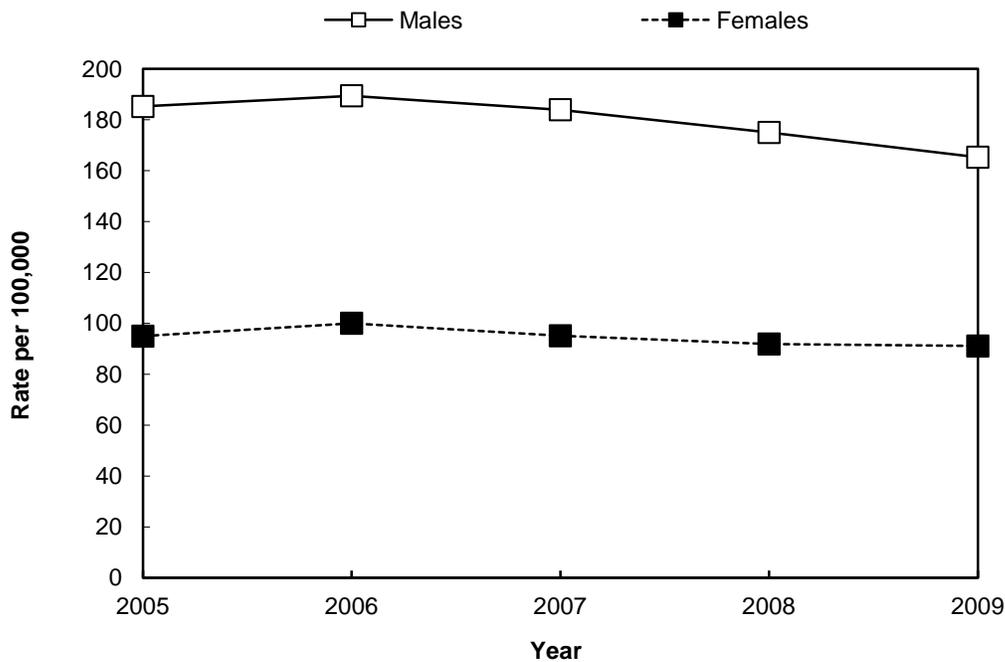
Rates are per 100,000. Data for 2005-2009 based on ICD-9-CM codes. See Technical Notes.

INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX PENNSYLVANIA RESIDENTS, 2005-2009

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2005	11,132	185.2 *	2005	7,231	95.0
2006	11,254	189.5 *	2006	7,511	100.1
2007	11,029	184.0 *	2007	7,221	95.1
2008	10,720	175.0 *	2008	7,242	91.9
2009	10,371	165.3 *	2009	7,507	91.1

* denotes a statistically significant difference between groups at level of $p = .05$



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2005-2009

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2005	187.6	179.3	2005	94.6	96.1
2006	192.0	183.8	2006	100.3	99.7
2007	190.2	169.1 *	2007	95.4	94.8
2008	179.7	163.7 *	2008	93.9	86.9 *
2009	169.9	153.7 *	2009	92.1	88.7

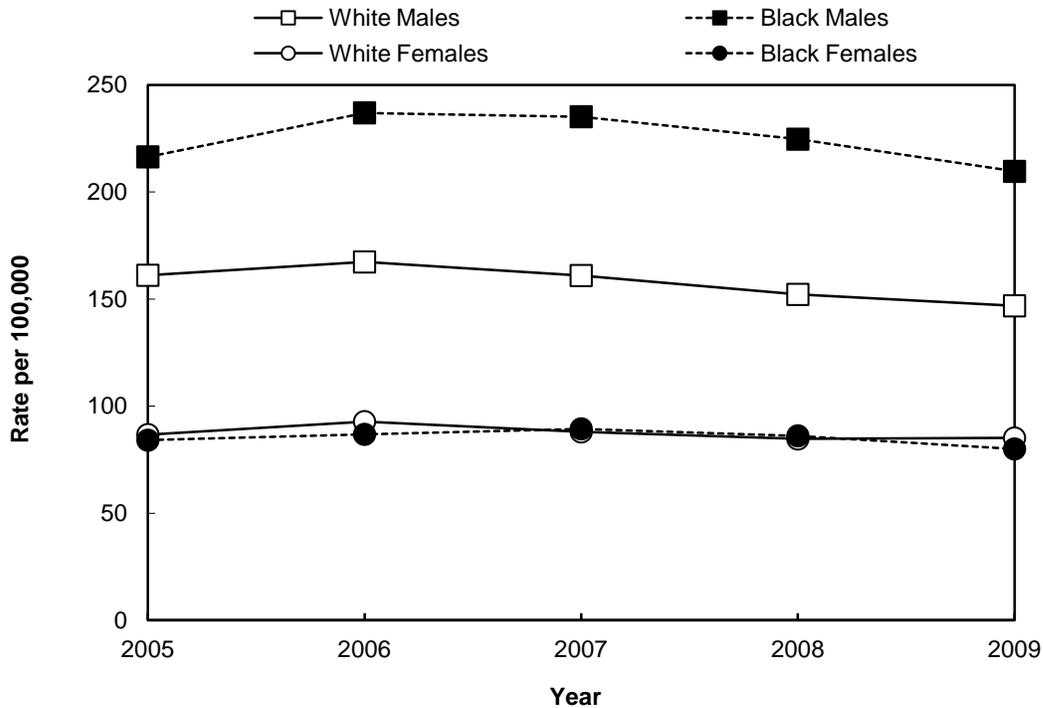
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX AND RACE OR ETHNICITY PENNSYLVANIA RESIDENTS, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	8,490	1,283	5,976	570	459	154
2006	8,660	1,390	6,231	594	445	153
2007	8,418	1,386	5,986	612	383	171
2008	8,151	1,341	5,992	598	443	173
2009	8,081	1,269	6,308	581	442	220



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2005-2009

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2005	161.1	216.4 *	86.7	84.1	207.5	83.7
2006	167.3	236.9 *	92.8	86.8	179.1	69.4
2007	161.0	235.1 *	88.0	89.4	169.0	84.1
2008	152.2	224.6 *	84.7	86.1	181.9	82.6
2009	146.8	209.6 *	85.1	80.0	169.0	97.8

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Hispanics may be of any race. Hispanic numbers include whites, blacks and others of Hispanic ethnicity. Therefore, Hispanics must not be compared to whites or blacks, as the groups are not mutually exclusive.

INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2009

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
TOTAL	17,916	142.1	10,371	169.3	7,507	115.9			13,169	143.5	4,747	138.4
< 5	543	72.7	320	83.7	217	59.5	*	439	78.0	104	56.6	*
5-9	248	32.5	166	42.6	80	21.5	*	187	32.9	61	31.4	
10-14	398	49.7	285	69.9	109	27.8	*	281	47.5	117	56.1	
15-19	1,082	115.5	744	158.0	335	71.9	*	785	116.1	297	113.8	
20-24	1,164	128.9	852	185.9	309	69.5	*	855	130.9	309	123.8	
25-29	864	114.1	662	170.5	202	54.8	*	639	112.5	225	119.0	
30-34	650	86.6	466	122.7	181	48.8	*	464	83.9	186	94.1	
35-39	665	83.4	481	121.0	182	45.5	*	478	81.5	187	88.7	
40-44	761	87.6	538	125.1	221	50.4	*	554	87.0	207	89.5	
45-49	982	107.3	690	152.8	288	62.1	*	744	111.2	238	96.6	
50-54	1,040	115.8	713	162.3	325	70.8	*	789	121.0	251	101.9	*
55-59	938	114.0	595	149.6	343	80.7	*	707	119.6	231	99.7	*
60-64	916	131.0	568	170.7	347	94.8	*	652	131.5	264	130.0	
65-69	839	156.8	471	190.9	368	127.6	*	570	152.8	269	166.0	
70-74	983	222.3	493	253.3	490	198.0	*	728	235.1	255	192.4	*
75-79	1,334	367.4	658	441.0	673	314.6	*	990	387.6	344	319.4	*
80-84	1,764	636.3	760	722.4	1,002	582.5	*	1,302	662.7	462	572.1	*
85 +	2,745	834.9	909	863.1	1,835	821.2		2,005	850.4	740	795.7	

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2009

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
TOTAL	8,081	154.0	1,269	195.4	6,308	114.1	581	81.3	664	102.7		
< 5	183	59.3	63	117.8	*	143	48.7	39	75.0	*	54	71.0
5-9	102	32.3	34	64.6	*	48	15.9	16	31.5		20	29.8
10-14	215	64.6	41	73.9		80	25.1	12	22.3		27	43.6
15-19	570	147.6	108	173.1		266	69.4	39	63.7		48	71.5
20-24	599	159.4	132	213.2	*	226	62.0	35	58.3		76	136.8
25-29	473	148.4	112	210.8	*	150	49.8	30	58.5		40	79.9
30-34	330	104.6	67	144.5	*	126	41.3	33	69.4	*	61	130.2
35-39	337	100.2	85	196.8	*	135	40.4	24	51.1		43	89.7
40-44	397	107.1	79	185.0	*	178	47.7	28	58.1		46	109.6
45-49	525	132.5	115	276.7	*	232	57.8	34	70.7		40	104.1
50-54	533	136.2	110	301.6	*	254	63.2	40	90.0		51	185.2
55-59	464	129.4	83	280.2	*	284	75.6	31	81.2		26	118.9
60-64	467	154.5	65	286.8	*	285	87.2	38	123.8		25	176.0
65-69	386	170.3	47	316.9	*	308	117.8	28	131.5		14	137.6
70-74	414	230.8	36	310.0		423	187.8	30	165.0		30	419.5
75-79	577	417.4	33	385.5		605	308.4	21	141.2	*	17	322.2
80-84	695	713.4	26	420.2	*	909	576.7	30	246.2	*	16	472.8
85 +	814	839.5	33	491.2	*	1,656	807.0	73	478.2	*	30	794.3

* denotes a statistically significant difference between groups at level of $p = .05$

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total. Hispanics may be of any race; therefore, their rates must not be compared to whites or blacks.

INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2009

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
TOTAL	1,281	138.7	707	103.8	2,695	171.1	7,168	141.3	1,741	105.6	4,324	160.0
< 5	26	51.3	29	82.9	88	101.1 +	268	81.1	65	64.6	67	46.9 -
5-9	11	20.5	18	50.3	46	50.7 +	111	33.6	33	32.5	29	19.2 -
10-14	31	53.5	19	49.8	76	76.8 +	157	46.3	52	49.8	63	38.8 -
15-19	73	104.4	42	64.0 -	185	160.2 +	465	122.7	117	101.6	200	104.2
20-24	80	126.7	59	81.7 -	171	152.9 +	485	132.5	103	95.1 -	266	146.6 +
25-29	51	96.0	35	101.6	107	115.4	398	122.0	84	84.3 -	189	125.3
30-34	45	82.9	18	47.4 -	101	110.3 +	298	94.7	51	51.2 -	137	89.9
35-39	43	76.1	22	55.8	113	115.3 +	264	79.5	74	69.6	149	90.4
40-44	57	92.5	26	60.4	120	111.5 +	306	85.9	87	75.3	165	89.5
45-49	62	93.8	36	78.9	151	132.4 +	417	113.3	108	89.5	208	103.4
50-54	65	98.6	31	68.1 -	136	120.2	443	125.7	100	84.6 -	265	130.6 +
55-59	67	109.2	35	82.3	122	115.5	405	128.8 +	77	69.9 -	232	123.0
60-64	57	106.1	41	110.6	148	158.5 +	367	140.9	88	94.1 -	215	133.7
65-69	79	188.0	37	121.6	114	156.8	316	161.8	85	113.8 -	208	173.5
70-74	93	261.2	40	160.2 -	152	259.5	361	224.4	93	154.7 -	244	239.1
75-79	115	389.3	47	233.3 -	191	408.7	494	375.2	113	236.7 -	374	428.6 +
80-84	136	609.9	67	440.0 -	273	769.3 +	612	622.8	166	486.3 -	510	710.0 +
85 +	190	728.6	105	590.9 -	401	976.3 +	1,001	841.4	245	637.3 -	803	929.1 +

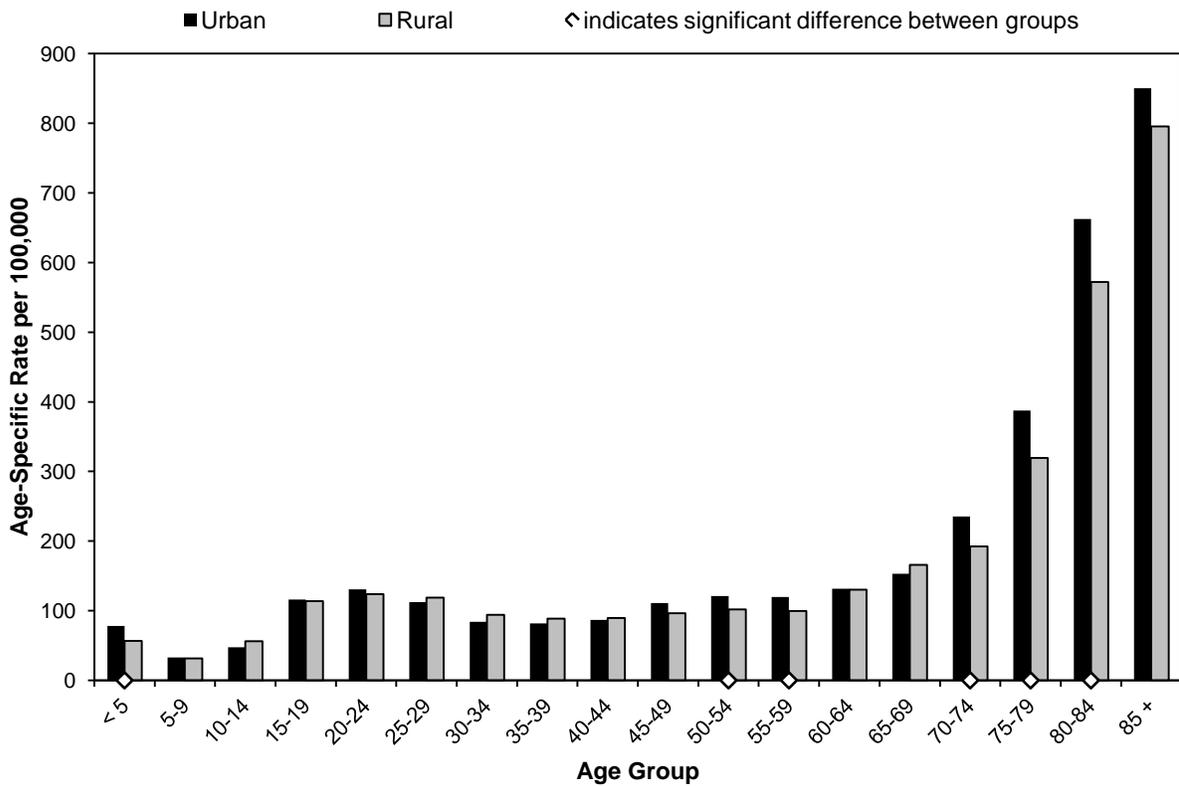
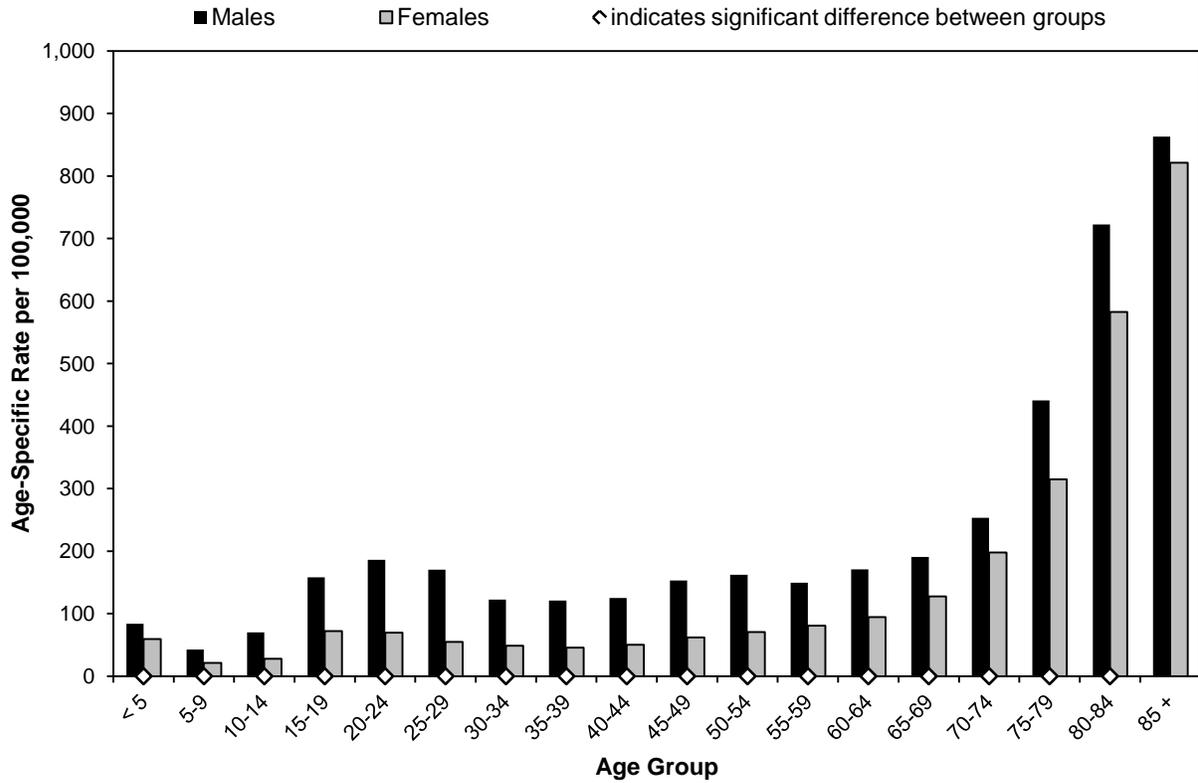
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total.

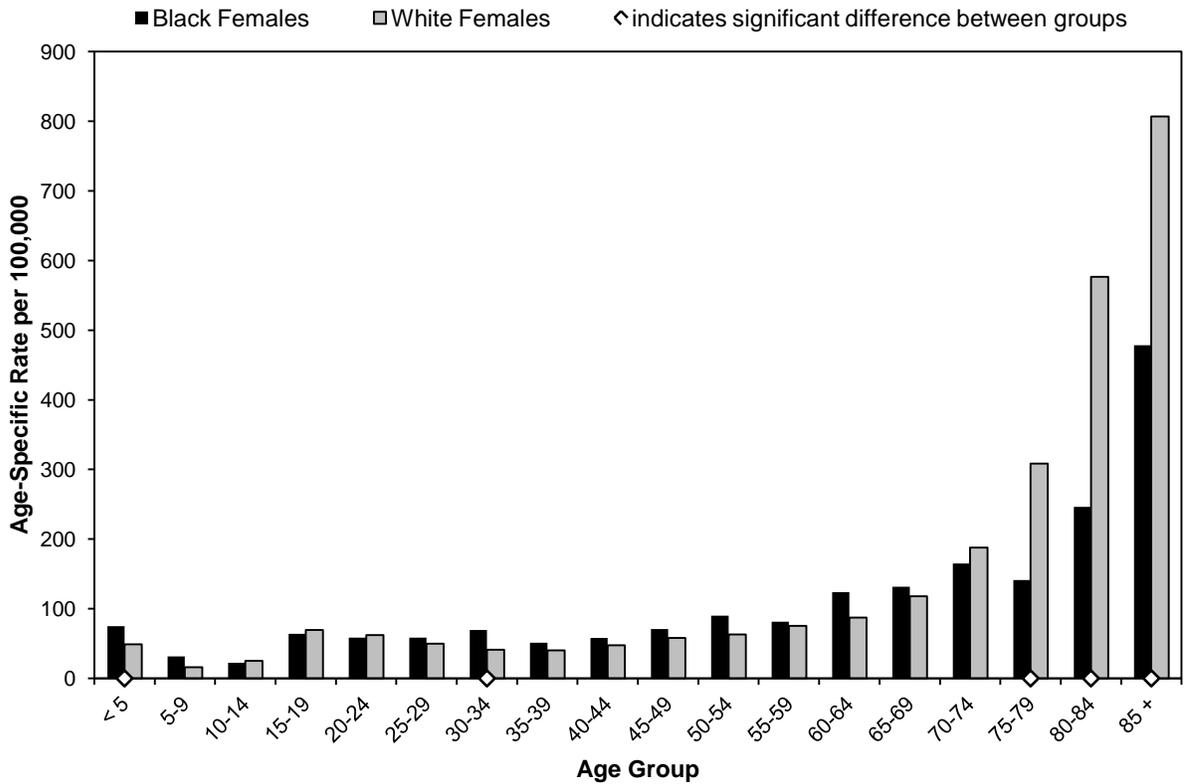
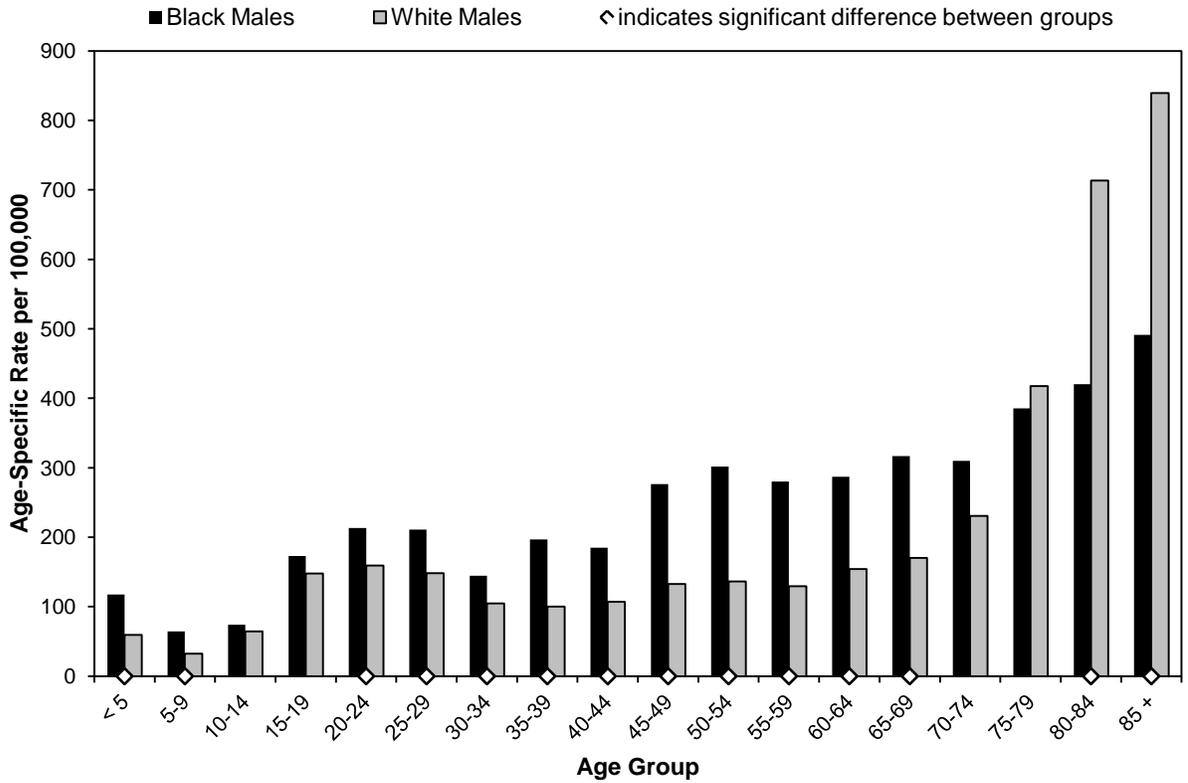
INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

AGE-SPECIFIC HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS PENNSYLVANIA RESIDENTS, 2009



INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

AGE-SPECIFIC HOSPITALIZATION RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2009



INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2009

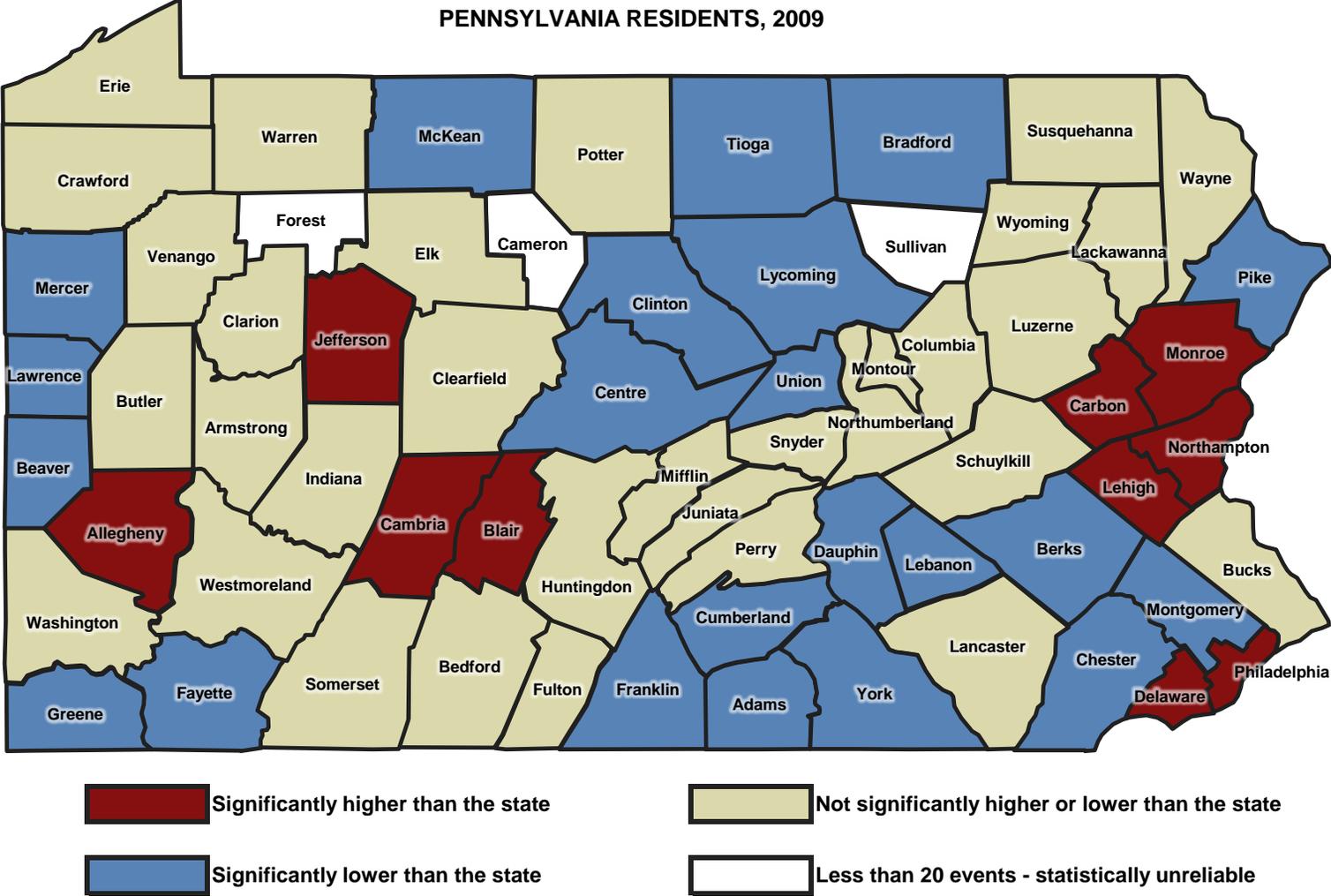
District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
Northeast	2,695	154.1	148.3-159.9 +	Southeast	7,168	131.9	128.8-134.9
Carbon	120	176.3	144.8-207.9 +	Berks	507	114.1	104.2-124.0 -
Lackawanna	310	129.0	114.7-143.4	Bucks	817	123.6	115.1-132.1
Lehigh	566	151.1	138.6-163.5 +	Chester	489	97.1	88.5-105.7 -
Luzerne	481	129.3	117.7-140.9	Delaware	1,093	178.7	168.1-189.3 +
Monroe	331	200.0	178.5-221.6 +	Lancaster	698	127.3	117.8-136.7
Northampton	694	209.5	193.9-225.1 +	Montgomery	990	113.2	106.1-120.2 -
Pike	50	87.5	63.3-111.8 -	Philadelphia	2,336	146.0	140.1-151.9 +
Susquehanna	44	97.7	68.8-126.6	Schuylkill	238	142.8	124.7-161.0
Wayne	67	117.5	89.3-145.6				
Wyoming	32	107.7	70.4-145.1				
North Central	707	93.2	86.4-100.1 -	South Central	1,741	97.5	93.0-102.1 -
Bradford	47	67.9	48.5-87.3 -	Adams	81	71.1	55.6-86.6 -
Centre	115	80.6	65.8-95.3 -	Bedford	74	144.7	111.7-177.7
Clinton	32	80.2	52.4-108.0 -	Blair	238	165.0	144.1-186.0 +
Columbia	87	121.6	96.1-147.2	Cumberland	187	70.6	60.5-80.7 -
Lycoming	120	91.0	74.7-107.3 -	Dauphin	235	85.6	74.7-96.6 -
Montour	29	144.5	91.9-197.1	Franklin	149	93.3	78.4-108.3 -
Northumberland	130	123.0	101.9-144.1	Fulton	31	190.6	123.5-257.6
Potter	23	126.8	75.0-178.7	Huntingdon	53	103.9	75.9-131.8
Snyder	47	104.9	74.9-134.9	Juniata	26	104.9	64.6-145.2
Sullivan	2	NA		Lebanon	136	94.8	78.9-110.7 -
Tioga	33	77.3	50.9-103.7 -	Mifflin	74	148.1	114.4-181.9
Union	42	86.6	60.4-112.8 -	Perry	57	123.2	91.2-155.1
				York	400	90.3	81.5-99.2 -
Northwest	1,281	120.5	113.9-127.1	Southwest	4,324	132.8	128.9-136.8
Cameron	9	NA		Allegheny	2,047	138.4	132.4-144.3 +
Clarion	67	162.0	123.2-200.8	Armstrong	99	124.6	100.0-149.1
Clearfield	143	153.0	127.9-178.0	Beaver	229	110.8	96.5-125.2 -
Crawford	124	127.2	104.8-149.6	Butler	264	128.1	112.6-143.6
Elk	39	118.5	81.3-155.7	Cambria	295	161.2	142.8-179.6 +
Erie	355	116.2	104.1-128.3	Fayette	160	94.7	80.0-109.3 -
Forest	9	NA		Greene	31	70.4	45.6-95.2 -
Jefferson	99	192.2	154.4-230.1 +	Indiana	144	154.3	129.1-179.5
Lawrence	132	107.3	89.0-125.6 -	Somerset	127	135.9	112.3-159.6
McKean	43	82.6	57.9-107.3 -	Washington	329	134.9	120.3-149.5
Mercer	147	101.1	84.8-117.5 -	Westmoreland	599	137.6	126.6-148.7
Venango	67	106.9	81.3-132.4				
Warren	47	102.3	73.1-131.6	Pennsylvania	17,916	127.6	125.7-129.5

NOTE: Rates based on less than 20 events are unreliable and were not calculated. See Technical Notes.

+/- denotes that the county's rate is significantly higher or lower than the state at the p=.05 level.

INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

AGE-ADJUSTED HOSPITALIZATION RATES BY COUNTY,
WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE
PENNSYLVANIA RESIDENTS, 2009



NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. See Technical Notes.

INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2009

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	10,371	7,507	17,916	2,271	69.9	2,678	111.1	2,408	93.3	2,894	119.6	7,665	393.8
Northeast	1,524	1,152	2,695	395	100.7	379	128.0	384	120.1	406	130.1	1,131	444.3
Carbon	65	54	120	21	151.1	15	119.9	18	138.8	26	193.9	40	361.0
Lackawanna	169	139	310	44	87.1	42	104.3	37	90.8	50	124.1	137	370.6
Lehigh	321	245	566	88	98.6	55	82.6	82	118.9	81	122.8	260	493.2
Luzerne	248	217	481	55	77.1	63	106.3	67	104.8	61	99.0	235	414.0
Monroe	206	125	331	51	112.5	65	208.7	51	141.4	59	179.2	105	503.4
Northampton	399	295	694	98	122.6	109	191.7	98	162.6	93	163.7	296	656.7
Pike	29	21	50	14	101.0	11	112.2	12	92.3	6	NA	7	NA
Susquehanna	22	22	44	8	NA	5	NA	7	NA	9	NA	15	215.4
Wayne	46	21	67	11	101.8	9	NA	7	NA	16	131.3	24	242.2
Wyoming	19	13	32	5	NA	5	NA	5	NA	5	NA	12	271.9
Southeast	4,324	2,841	7,168	1,001	72.6	1,181	117.3	987	93.4	1,215	131.0	2,784	394.9
Berks	306	201	507	68	59.6	70	92.6	66	78.2	86	115.5	217	371.0
Bucks	467	350	817	105	65.8	109	104.1	94	65.8	123	95.6	386	426.8
Chester	272	217	489	43	30.8	79	85.6	63	57.3	72	76.8	232	367.9
Delaware	630	463	1,093	149	99.7	184	168.8	149	130.1	175	166.1	436	546.6
Lancaster	416	281	698	149	103.6	101	103.1	80	80.3	106	117.1	262	345.0
Montgomery	548	442	990	120	59.8	117	83.6	98	56.5	170	112.9	485	412.1
Philadelphia	1,538	798	2,336	336	76.4	479	132.8	404	135.2	450	176.2	667	346.2
Schuylkill	147	89	238	31	97.4	42	156.7	33	100.7	33	115.5	99	366.9

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	10,371	7,507	17,916	2,271	69.9	2,678	111.1	2,408	93.3	2,894	119.6	7,665	393.8
North Central	418	278	707	108	61.9	112	77.4	84	65.6	107	85.5	296	272.7
Bradford	25	21	47	6	NA	5	NA	5	NA	12	97.0	19	178.8
Centre	68	45	115	13	32.3	28	64.3	14	58.4	15	68.8	45	270.9
Clinton	15	17	32	6	NA	6	NA	4	NA	6	NA	10	162.2
Columbia	47	39	87	15	86.2	9	NA	8	NA	21	179.6	34	315.2
Lycoming	74	44	120	14	49.5	26	114.5	18	77.2	10	43.4	52	266.6
Montour	20	9	29	5	NA	3	NA	4	NA	9	NA	8	NA
Northumberland	81	48	130	28	132.2	11	72.5	12	63.3	20	106.2	59	343.6
Potter	18	4	23	4	NA	2	NA	5	NA	4	NA	8	NA
Snyder	20	27	47	7	NA	7	NA	2	NA	5	NA	26	447.8
Sullivan	2	0	2	0	NA	0	NA	0	NA	0	NA	2	NA
Tioga	19	13	33	5	NA	6	NA	8	NA	2	NA	12	160.4
Union	29	11	42	5	NA	9	NA	4	NA	3	NA	21	329.3
South Central	1,020	717	1,741	267	63.3	238	77.4	269	78.6	265	82.3	702	275.2
Adams	48	33	81	5	NA	8	NA	11	51.7	12	60.9	45	294.8
Bedford	45	29	74	11	91.6	14	169.6	12	116.2	14	140.1	23	255.7
Blair	146	92	238	24	77.9	32	140.0	39	158.1	38	151.2	105	463.4
Cumberland	102	85	187	18	30.8	23	47.4	30	65.3	31	71.9	85	233.6
Dauphin	140	95	235	44	65.8	31	66.5	27	47.8	38	71.6	95	264.4
Franklin	77	72	149	21	54.4	23	86.8	22	78.7	18	65.8	65	264.6
Fulton	14	17	31	4	NA	2	NA	7	NA	3	NA	15	591.7
Huntingdon	29	23	53	0	NA	11	119.6	15	154.8	12	135.1	15	206.4
Juniata	19	6	26	5	NA	3	NA	5	NA	2	NA	11	276.7
Lebanon	85	51	136	30	92.3	17	66.6	15	59.7	20	80.3	54	241.0
Mifflin	38	34	74	15	124.7	8	NA	13	144.8	10	114.0	28	331.6
Perry	35	22	57	16	132.2	7	NA	11	114.2	10	105.8	13	214.1
York	242	158	400	74	66.5	59	75.3	62	65.5	57	67.9	148	244.1

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Geography District/County	Sex		Total All Ages	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	10,371	7,507	17,916	2,271	69.9	2,678	111.1	2,408	93.3	2,894	119.6	7,665	393.8
Northwest	731	550	1,281	141	60.7	176	103.2	162	87.9	189	104.4	613	394.1
Cameron	6	3	9	0	NA	3	NA	3	NA	0	NA	3	NA
Clarion	39	28	67	11	104.3	13	172.5	10	139.4	7	NA	26	389.0
Clearfield	81	62	143	15	84.5	20	133.8	21	115.6	22	130.8	65	444.4
Crawford	75	49	124	14	60.1	19	119.7	17	100.3	11	62.0	63	429.4
Elk	20	19	39	9	NA	7	NA	6	NA	7	NA	10	164.8
Erie	204	151	355	36	48.5	56	96.9	58	104.3	56	108.4	149	364.0
Forest	4	5	9	1	NA	1	NA	0	NA	2	NA	5	NA
Jefferson	63	36	99	9	NA	15	194.3	12	134.8	13	142.1	50	617.9
Lawrence	75	57	132	11	49.1	11	72.5	5	NA	23	128.3	82	484.7
McKean	22	21	43	6	NA	3	NA	4	NA	6	NA	24	328.9
Mercer	70	77	147	13	43.9	12	59.0	16	71.0	23	101.0	83	398.7
Venango	42	25	67	8	NA	10	111.5	5	NA	10	86.9	34	351.1
Warren	30	17	47	8	NA	6	NA	5	NA	9	NA	19	251.2
Southwest	2,354	1,969	4,324	359	55.4	592	122.1	522	94.9	712	128.9	2,139	457.6
Allegheny	1,122	925	2,047	169	57.0	248	110.5	241	97.3	346	141.0	1,043	510.3
Armstrong	56	43	99	7	NA	19	183.0	11	79.0	19	132.8	43	346.0
Beaver	131	98	229	16	40.2	36	123.6	26	74.4	44	120.7	107	340.9
Butler	142	122	264	31	63.9	43	131.8	28	71.5	45	124.2	117	415.4
Cambria	160	135	295	16	48.8	39	151.8	38	131.6	57	192.9	145	534.9
Fayette	93	67	160	8	NA	27	112.1	21	70.9	29	94.1	75	303.3
Greene	18	13	31	2	NA	7	NA	3	NA	5	NA	14	235.7
Indiana	82	62	144	19	81.2	26	145.1	14	89.7	19	114.7	66	472.6
Somerset	65	62	127	12	72.9	16	114.5	17	102.9	16	102.8	66	457.5
Washington	178	151	329	29	58.3	51	134.1	44	107.2	43	101.9	162	445.6
Westmoreland	307	291	599	50	61.3	80	131.7	79	106.1	89	115.7	301	439.1

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI),
BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2009

BLACK POPULATION BY COUNTY				WHITE POPULATION BY COUNTY				HISPANIC POPULATION BY COUNTY			
County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)	County	No.	Rate	CI (95%)
Allegheny	254	153.8	134.9-172.7	Allegheny	1,655	126.6	120.5-132.7 +	Berks	35	106.3	71.1-141.6
Chester	31	105.4	68.3-142.4	Chester	423	92.0	83.2-100.8 -	Lancaster	6	NA	
Dauphin	44	96.0	67.6-124.3 -	Dauphin	169	76.4	64.9-87.9 -	Lehigh	56	118.3	87.3-149.3
Delaware	198	196.4	169.1-223.8 +	Delaware	824	164.9	153.6-176.1 +	Philadelphia	217	131.7	114.1-149.2
Montgomery	74	115.2	88.9-141.4	Montgomery	795	102.8	95.7-110.0 -				
Philadelphia	961	136.1	127.4-144.7	Philadelphia	972	118.5	111.1-126.0				
Pennsylvania	1,851	139.8	133.4-146.1	Pennsylvania	14,423	115.6	113.8-117.5	Pennsylvania	664	134.3	124.1-144.5

NUMBER FOR SELECT AGE GROUPS AND AGE-SPECIFIC HOSPITALIZATION RATES
BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2009

Select Counties	Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+		
		Male	Female			All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.
County and Race	Cty. Pop.															
Allegheny	Black	13.6%	164	90	254	12.4%	50	88.5	50	141.2	48	157.2	51	195.0	55	311.7
	White	82.9%	875	780	1,655	80.9%	105	46.8	164	91.9	176	84.5	272	126.8	938	510.2
Chester	Black	6.2%	21	10	31	6.3%	3	NA	13	178.9	4	NA	4	NA	7	NA
	White	89.5%	226	197	423	86.5%	36	29.4	53	65.7	55	56.0	63	72.7	216	369.0
Dauphin	Black	18.0%	31	13	44	18.7%	13	81.4	9	NA	2	NA	11	149.7	9	NA
	White	77.0%	95	74	169	71.9%	28	61.3	16	46.6	20	45.5	26	58.9	79	252.7
Delaware	Black	18.9%	128	70	198	18.1%	45	130.6	56	209.9	39	175.7	32	220.8	26	339.8
	White	75.2%	461	363	824	75.4%	96	92.3	112	148.2	98	116.4	126	146.3	392	560.1
Montgomery	Black	8.9%	49	25	74	7.5%	14	71.2	6	NA	17	105.0	19	167.4	18	290.0
	White	84.2%	421	374	795	80.3%	84	51.2	92	81.7	69	48.2	133	101.3	417	388.2
Philadelphia	Black	46.7%	674	287	961	41.1%	166	71.3	197	120.5	210	150.8	201	176.2	187	255.9
	White	45.8%	582	390	972	41.6%	74	43.6	171	103.9	135	98.2	180	143.9	412	368.2
Pennsylvania	Black	10.8%	1,269	581	1,851	10.3%	353	79.9	409	127.7	365	134.8	367	181.6	357	275.2
	White	85.5%	8,081	6,308	14,423	80.5%	1,620	61.4	1,908	96.3	1,812	81.9	2,290	106.2	6,793	380.7

Appendices

LEADING CAUSES OF INJURY DEATH

For 2005 to 2009, the leading causes of injury death among Pennsylvania residents were unintentional poisoning, motor vehicle traffic (MVT) accidents, unintentional falls, suicide by firearm and homicide by firearm. These five causes accounted for 70 percent of injury deaths.

Overview

Unintentional falls were the leading cause of injury death among females.

The top leading cause varied by race and ethnicity: MVT accidents for whites, homicide by firearm for blacks and unintentional poisoning for Hispanics.

Unintentional poisoning was the leading cause of injury death among ages 20 to 64 for both males and females. Unintentional falls were the leading cause of injury death among ages 65 and older.

HIGHLIGHTS

- **Unintentional poisoning** is the leading cause of injury death, specifically among ages 20 to 64.
- **MVT accidents** lead among whites less than age 20.
- **Homicide by firearm** leads among blacks under age 35.

Youth Injury Deaths

- For 2005 to 2009, MVT accidents were the leading cause of injury death among youths less than age 20, whereas the cause ranked second for ages 20 and older.
- Homicide by firearm was the leading cause of injury death among black youths less than age 20, whereas the cause ranked eighth among white youths.
- Fire/flame injury and drowning ranked fifth and sixth, respectively, in causes of injury death among youths less than age 20.

Violent Deaths

- For 2005 to 2009, the leading causes of violent death (suicide or homicide) were suicide by firearm, homicide by firearm, suicide by hanging and suicide by poisoning. These four causes accounted for over 86 percent of violent deaths.
- Suicide by poisoning was the leading cause of violent death among females, whereas the cause ranked fourth among males.

Fatal Traumatic Brain Injuries

- For 2005 to 2009, the leading causes of fatal traumatic brain injury were unintentional falls, suicide by firearm, MVT accidents and homicide by firearm. These four causes accounted for over 87 percent of injury deaths involving traumatic brain injury.
- Suicide by firearm was the leading cause of fatal traumatic brain injury among males, whereas the cause ranked third among females.

For a full list of causes included in the rankings, with ICD definitions, see the Technical Notes.

LEADING CAUSES OF INJURY DEATH: 2005-2009

PENNSYLVANIA RESIDENTS BY GENDER OR AGE GROUP

RANK	TOTAL	GENDER		AGE GROUP				
	All Ages	Males	Females	0-19	20-34	35-49	50-64	65+
1	Poisoning (Unint.) 7,649	Poisoning (Unint.) 5,283	Falls (Unint.) 2,786	MVT (Unint.) 998	Poisoning (Unint.) 2,376	Poisoning (Unint.) 3,205	Poisoning (Unint.) 1,553	Falls (Unint.) 4,685
2	MVT (Unint.) 7,404	MVT (Unint.) 5,204	Poisoning (Unint.) 2,366	Firearm (Asslt.) 470	MVT (Unint.) 2,139	MVT (Unint.) 1,581	MVT (Unint.) 1,172	MVT (Unint.) 1,513
3	Falls (Unint.) 5,644	Firearm (Self-Inf.) 3,427	MVT (Unint.) 2,200	Poisoning (Unint.) 218	Firearm (Asslt.) 1,444	Firearm (Self-Inf.) 1,066	Firearm (Self-Inf.) 1,019	Suffoc. (Unint.) 1,145
4	Firearm (Self-Inf.) 3,781	Falls (Unint.) 2,858	Suffoc. (Unint.) 753	Hanging (Self-Inf.) 160	Firearm (Self-Inf.) 715	Hanging (Self-Inf.) 581	Falls (Unint.) 562	Firearm (Self-Inf.) 854
5	Firearm (Asslt.) 2,665	Firearm (Asslt.) 2,320	Poisoning (Self-Inf.) 551	Fire/Flame (Unint.) 159	Hanging (Self-Inf.) 542	Firearm (Asslt.) 518	Poisoning (Self-Inf.) 401	Poisoning (Unint.) 296
6	Hanging (Self-Inf.) 1,763	Hanging (Self-Inf.) 1,450	Firearm (Self-Inf.) 354	Drowning (Unint.) 137	Poisoning (Self-Inf.) 206	Poisoning (Self-Inf.) 472	Hanging (Self-Inf.) 343	Fire/Flame (Unint.) 294
7	Suffoc. (Unint.) 1,622	Suffoc. (Unint.) 869	Fire/Flame (Unint.) 347	Suffoc. (Unint.) 137	Cut/Pierce (Asslt.) 100	Falls (Unint.) 270	Firearm (Asslt.) 171	Hanging (Self-Inf.) 137
8	Poisoning (Self-Inf.) 1,235	Poisoning (Self-Inf.) 684	Firearm (Asslt.) 345	Firearm (Self-Inf.) 126	Poisoning (Undet.) 97	Poisoning (Undet.) 212	Suffoc. (Unint.) 164	Poisoning (Self-Inf.) 130
9	Fire/Flame (Unint.) 810	Fire/Flame (Unint.) 463	Hanging (Self-Inf.) 313	Transport (Unint.) 40	Falls (Unint.) 90	Fire/Flame (Unint.) 125	Fire/Flame (Unint.) 151	Drowning (Unint.) 81
10	Drowning (Unint.) 480	Drowning (Unint.) 382	Poisoning (Undet.) 188	Cut/Pierce (Asslt.) 39	Drowning (Unint.) 82	Suffoc. (Unint.) 118	Poisoning (Undet.) 115	Firearm (Asslt.) 61
TOTAL	38,746	26,532	12,214	2,929	8,566	9,246	6,633	11,359

NOTES: Some causes may be tied by number of events, including ranks 10 and 11 (not shown). For full list of causes included in these tables, see Technical Notes.

LEADING CAUSES OF INJURY DEATH: 2005-2009

PENNSYLVANIA RESIDENTS BY GENDER AND AGE GROUP

RANK	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
1	MVT (Unint.)	MVT (Unint.)	Poisoning (Unint.)	Poisoning (Unint.)	Poisoning (Unint.)	Poisoning (Unint.)	Poisoning (Unint.)	Poisoning (Unint.)	Falls (Unint.)	Falls (Unint.)
	655	343	1,801	575	2,108	1,097	1,069	484	2,156	2,529
2	Firearm (Asslt.)	Fire/Flame (Unint.)	MVT (Unint.)	MVT (Unint.)	MVT (Unint.)	MVT (Unint.)	Firearm (Self-Inf.)	MVT (Unint.)	MVT (Unint.)	MVT (Unint.)
	430	67	1,673	466	1,157	424	900	319	865	648
3	Poisoning (Unint.)	Poisoning (Unint.)	Firearm (Asslt.)	Firearm (Asslt.)	Firearm (Self-Inf.)	Poisoning (Self-Inf.)	MVT (Unint.)	Poisoning (Self-Inf.)	Firearm (Self-Inf.)	Suffoc. (Unint.)
	159	59	1,314	130	955	216	853	193	812	593
4	Firearm (Self-Inf.)	Suffoc. (Unint.)	Firearm (Self-Inf.)	Hanging (Self-Inf.)	Hanging (Self-Inf.)	Firearm (Self-Inf.)	Falls (Unint.)	Falls (Unint.)	Suffoc. (Unint.)	Poisoning (Unint.)
	114	48	645	91	492	111	400	162	552	151
5	Hanging (Self-Inf.)	Hanging (Self-Inf.)	Hanging (Self-Inf.)	Firearm (Self-Inf.)	Firearm (Asslt.)	Firearm (Asslt.)	Hanging (Self-Inf.)	Firearm (Self-Inf.)	Fire/Flame (Unint.)	Fire/Flame (Unint.)
	114	46	451	70	419	99	291	119	148	146
6	Drowning (Unint.)	Firearm (Asslt.)	Poisoning (Self-Inf.)	Poisoning (Self-Inf.)	Poisoning (Self-Inf.)	Hanging (Self-Inf.)	Poisoning (Self-Inf.)	Poisoning (Undet.)	Poisoning (Unint.)	Poisoning (Self-Inf.)
	103	40	137	69	256	89	208	61	145	59
7	Fire/Flame (Unint.)	Drowning (Unint.)	Drowning (Unint.)	Fire/Flame (Unint.)	Falls (Unint.)	Poisoning (Undet.)	Firearm (Asslt.)	Suffoc. (Unint.)	Hanging (Self-Inf.)	Firearm (Self-Inf.)
	92	34	78	37	213	84	128	57	102	42
8	Suffoc. (Unint.)	Falls (Unint.)	Cut/Pierce (Asslt.)	Poisoning (Undet.)	Poisoning (Undet.)	Falls (Unint.)	Suffoc. (Unint.)	Fire/Flame (Unint.)	Poisoning (Self-Inf.)	Hanging (Self-Inf.)
	89	14	74	34	128	57	107	52	71	35
9	Transport (Unint.)	Poisoning (Self-Inf.)	Falls (Unint.)	Cut/Pierce (Asslt.)	Drowning (Unint.)	Fire/Flame (Unint.)	Fire/Flame (Unint.)	Hanging (Self-Inf.)	Drowning (Unint.)	Firearm (Asslt.)
	35	14	66	26	80	45	99	52	58	33
10	Cut/Pierce (Asslt.)	Firearm (Self-Inf.)	Poisoning (Undet.)	Falls (Unint.)	Fire/Flame (Unint.)	Suffoc. (Unint.)	Drowning (Unint.)	Firearm (Asslt.)	Struck By (Unint.)	Drowning (Unint.)
	30	12	63	24	80	39	63	43	40	23
TOTAL	2,116	813	6,885	1,681	6,709	2,537	4,867	1,766	5,942	5,417

NOTES: Some causes may be tied by number of events, including ranks 10 and 11 (not shown). For full list of causes included in these tables, see Technical Notes.

LEADING CAUSES OF INJURY DEATH: 2005-2009

PENNSYLVANIA RESIDENTS BY RACE OR ETHNICITY AND GENDER

RANK	TOTAL	RACE OR ETHNICITY			MALES		FEMALES	
	All Races	White	Black	Hispanic	White	Black	White	Black
1	Poisoning (Unint.) 7,649	MVT (Unint.) 6,711	Firearm (Asslt.) 1,879	Poisoning (Unint.) 274	MVT (Unint.) 4,702	Firearm (Asslt.) 1,749	Falls (Unint.) 2,675	Poisoning (Unint.) 306
2	MVT (Unint.) 7,404	Poisoning (Unint.) 6,567	Poisoning (Unint.) 1,038	Firearm (Asslt.) 242	Poisoning (Unint.) 4,520	Poisoning (Unint.) 732	Poisoning (Unint.) 2,047	MVT (Unint.) 150
3	Falls (Unint.) 5,644	Falls (Unint.) 5,355	MVT (Unint.) 573	MVT (Unint.) 234	Firearm (Self-Inf.) 3,250	MVT (Unint.) 423	MVT (Unint.) 2,009	Firearm (Asslt.) 130
4	Firearm (Self-Inf.) 3,781	Firearm (Self-Inf.) 3,586	Falls (Unint.) 254	Hanging (Self-Inf.) 66	Falls (Unint.) 2,680	Firearm (Self-Inf.) 161	Suffoc. (Unint.) 651	Falls (Unint.) 102
5	Firearm (Asslt.) 2,665	Hanging (Self-Inf.) 1,575	Suffoc. (Unint.) 211	Firearm (Self-Inf.) 61	Hanging (Self-Inf.) 1,303	Falls (Unint.) 152	Poisoning (Self-Inf.) 528	Suffoc. (Unint.) 94
6	Hanging (Self-Inf.) 1,763	Suffoc. (Unint.) 1,398	Firearm (Self-Inf.) 177	Falls (Unint.) 50	Suffoc. (Unint.) 747	Hanging (Self-Inf.) 119	Firearm (Self-Inf.) 336	Fire/Flame (Unint.) 76
7	Suffoc. (Unint.) 1,622	Poisoning (Self-Inf.) 1,175	Fire/Flame (Unint.) 168	Cut/Pierce (Asslt.) 36	Poisoning (Self-Inf.) 647	Cut/Pierce (Asslt.) 117	Hanging (Self-Inf.) 272	Cut/Pierce (Asslt.) 34
8	Poisoning (Self-Inf.) 1,235	Firearm (Asslt.) 738	Cut/Pierce (Asslt.) 151	Poisoning (Undet.) 35	Firearm (Asslt.) 529	Suffoc. (Unint.) 117	Fire/Flame (Unint.) 264	Hanging (Self-Inf.) 25
9	Fire/Flame (Unint.) 810	Fire/Flame (Unint.) 632	Hanging (Self-Inf.) 144	Drowning (Unint.) 30	Fire/Flame (Unint.) 368	Fire/Flame (Unint.) 92	Firearm (Asslt.) 209	Poisoning (Self-Inf.) 19
10	Drowning (Unint.) 480	Poisoning (Undet.) 423	Drowning (Unint.) 62	Fire/Flame (Unint.) 28	Drowning (Unint.) 325	Drowning (Unint.) 54	Poisoning (Undet.) 173	Firearm (Self-Inf.) 16
TOTAL	38,746	32,928	5,378	1,231	22,022	4,205	10,906	1,173

NOTES: Some causes may be tied by number of events, including ranks 10 and 11 (not shown). For full list of causes included in these tables, see Technical Notes.

LEADING CAUSES OF INJURY DEATH: 2005-2009

PENNSYLVANIA RESIDENTS BY RACE AND AGE GROUP

RANK	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	White	Black	White	Black	White	Black	White	Black	White	Black
1	MVT (Unint.) 882	Firearm (Asslt.) 386	Poisoning (Unint.) 2,196	Firearm (Asslt.) 1,105	Poisoning (Unint.) 2,739	Poisoning (Unint.) 452	Poisoning (Unint.) 1,167	Poisoning (Unint.) 378	Falls (Unint.) 4,515	Falls (Unint.) 148
2	Poisoning (Unint.) 207	MVT (Unint.) 102	MVT (Unint.) 1,901	MVT (Unint.) 198	MVT (Unint.) 1,420	Firearm (Asslt.) 307	MVT (Unint.) 1,080	MVT (Unint.) 75	MVT (Unint.) 1,427	Suffoc. (Unint.) 128
3	Hanging (Self-Inf.) 133	Fire/Flame (Unint.) 56	Firearm (Self-Inf.) 635	Poisoning (Unint.) 160	Firearm (Self-Inf.) 1,013	MVT (Unint.) 138	Firearm (Self-Inf.) 995	Firearm (Asslt.) 69	Suffoc. (Unint.) 1,008	MVT (Unint.) 60
4	Drowning (Unint.) 113	Suffoc. (Unint.) 36	Hanging (Self-Inf.) 476	Firearm (Self-Inf.) 69	Hanging (Self-Inf.) 526	Cut/Pierce (Asslt.) 52	Falls (Unint.) 491	Falls (Unint.) 67	Firearm (Self-Inf.) 831	Fire/Flame (Unint.) 48
5	Firearm (Self-Inf.) 111	Hanging (Self-Inf.) 25	Firearm (Asslt.) 315	Cut/Pierce (Asslt.) 49	Poisoning (Self-Inf.) 442	Firearm (Self-Inf.) 49	Poisoning (Self-Inf.) 389	Fire/Flame (Unint.) 31	Poisoning (Unint.) 257	Poisoning (Unint.) 38
6	Fire/Flame (Unint.) 100	Drowning (Unint.) 24	Poisoning (Self-Inf.) 191	Hanging (Self-Inf.) 49	Falls (Unint.) 240	Hanging (Self-Inf.) 45	Hanging (Self-Inf.) 318	Suffoc. (Unint.) 28	Fire/Flame (Unint.) 245	Firearm (Self-Inf.) 22
7	Suffoc. (Unint.) 100	Cut/Pierce (Asslt.) 21	Poisoning (Undet.) 87	Fire/Flame (Unint.) 18	Poisoning (Undet.) 202	Poisoning (Self-Inf.) 25	Suffoc. (Unint.) 134	Firearm (Self-Inf.) 23	Poisoning (Self-Inf.) 128	Firearm (Asslt.) 12
8	Firearm (Asslt.) 81	Firearm (Self-Inf.) 14	Falls (Unint.) 78	Poisoning (Self-Inf.) 13	Firearm (Asslt.) 198	Falls (Unint.) 24	Fire/Flame (Unint.) 120	Cut/Pierce (Asslt.) 21	Hanging (Self-Inf.) 122	Cut/Pierce (Asslt.) 8
9	Transport (Unint.) 39	Poisoning (Unint.) 10	Drowning (Unint.) 72	Firearm (Unint.) 11	Fire/Flame (Unint.) 107	Suffoc. (Unint.) 16	Poisoning (Undet.) 107	Hanging (Self-Inf.) 19	Drowning (Unint.) 72	Drowning (Unint.) 7
10	Falls (Unint.) 29	Firearm (Unint.) 6	Fire/Flame (Unint.) 60	Falls (Unint.) 10	Suffoc. (Unint.) 102	Fire/Flame (Unint.) 15	Firearm (Asslt.) 96	Drowning (Unint.) 12	Struck By (Unint.) 51	Hanging (Self-Inf.) 6
TOTAL	2,091	792	6,608	1,811	7,840	1,305	5,709	864	10,673	603

NOTES: Some causes may be tied by number of events, including ranks 10 and 11 (not shown). For full list of causes included in these tables, see Technical Notes.

LEADING CAUSES OF INJURY DEATH: 2005-2009

PENNSYLVANIA RESIDENTS BY INJURY INTENT, BRAIN INJURY, AND GENDER

RANK	INTENT		UNINT.		VIOLENCE		Total	TBI	
	Unint.	Violence	Males	Females	Males	Females		Males	Females
1	Poisoning (Unint.)	Firearm (Self-Inf.)	Poisoning (Unint.)	Falls (Unint.)	Firearm (Self-Inf.)	Poisoning (Self-Inf.)	Falls (Unint.)	Firearm (Self-Inf.)	Falls (Unint.)
	7,649	3,781	5,283	2,786	3,427	551	3,245	2,803	1,437
2	MVT (Unint.)	Firearm (Asslt.)	MVT (Unint.)	Poisoning (Unint.)	Firearm (Asslt.)	Firearm (Self-Inf.)	Firearm (Self-Inf.)	MVT (Unint.)	MVT (Unint.)
	7,404	2,665	5,204	2,366	2,320	354	3,073	1,916	680
3	Falls (Unint.)	Hanging (Self-Inf.)	Falls (Unint.)	MVT (Unint.)	Hanging (Self-Inf.)	Firearm (Asslt.)	MVT (Unint.)	Falls (Unint.)	Firearm (Self-Inf.)
	5,644	1,763	2,858	2,200	1,450	345	2,596	1,808	270
4	Suffoc. (Unint.)	Poisoning (Self-Inf.)	Suffoc. (Unint.)	Suffoc. (Unint.)	Poisoning (Self-Inf.)	Hanging (Self-Inf.)	Firearm (Asslt.)	Firearm (Asslt.)	Firearm (Asslt.)
	1,622	1,235	869	753	684	313	820	625	195
5	Fire/Flame (Unint.)	Cut/Pierce (Asslt.)	Fire/Flame (Unint.)	Fire/Flame (Unint.)	Cut/Pierce (Asslt.)	Cut/Pierce (Asslt.)	Transport (Unint.)	Transport (Unint.)	Transport (Unint.)
	810	324	463	347	229	95	91	76	15
6	Drowning (Unint.)	Cut/Pierce (Self-Inf.)	Drowning (Unint.)	Drowning (Unint.)	Cut/Pierce (Self-Inf.)	Cut/Pierce (Self-Inf.)	Struck By (Unint.)	Firearm (Unint.)	Poisoning (Unint.)
	480	144	382	98	117	27	81	71	12
7	Transport (Unint.)	Struck By (Asslt.)	Transport (Unint.)	Transport (Unint.)	Struck By (Asslt.)	Struck By (Asslt.)	Firearm (Unint.)	Struck By (Unint.)	Struck By (Unint.)
	246	32	199	47	20	12	80	71	10
8	Struck By (Unint.)		Struck By (Unint.)	Struck By (Unint.)			Poisoning (Unint.)	Poisoning (Unint.)	Firearm (Unint.)
	174		155	19			42	30	9
9	Firearm (Unint.)		Firearm (Unint.)	Firearm (Unint.)			Struck By (Asslt.)	Struck By (Asslt.)	Struck By (Asslt.)
	137		122	15			25	16	9
10	Cut/Pierce (Unint.)		Cut/Pierce (Unint.)	Burn/Scald (Unint.)			Cut/Pierce (Asslt.)	Cut/Pierce (Asslt.)	Cut/Pierce (Asslt.)
	44		41	9			20	15	5
TOTAL	27,025	10,894	17,131	9,894	8,860	2,034	11,093	8,148	2,945

NOTES: Some causes may be tied by number of events, including ranks 10 and 11 (not shown). For full list of causes included in these tables, see Technical Notes.

LEADING CAUSES OF INJURY HOSPITALIZATION

In 2009, the leading causes of injury hospitalization among Pennsylvania residents were unintentional falls, motor vehicle occupant injuries, self-inflicted poisoning (self-poisoning) and unintentional poisoning. These four causes accounted for 63 percent of injury hospitalizations.

Overview

Unintentional falls were the leading cause of injury hospitalization for males and females of all ages, races and ethnicities, except for ages 20 to 34.

Unintentional falls accounted for over 37 percent of injury hospitalizations among males and over 56 percent of injury hospitalizations among females.

The next leading cause varied by race and ethnicity: MVT occupant for whites, unintentional poisoning for blacks and self-poisoning for Hispanics.

HIGHLIGHTS

- *Unintentional falls lead among all groups except for ages 20 to 34.*
- *Unintentional falls account for over **46 percent** of all injury hospitalizations.*
- *Self-poisoning leads among ages 20 to 34.*

Youth Injury Hospitalizations

- In 2009, MVT occupant was the second leading cause of injury hospitalization among youths less than age 20, specifically among white or male youths. [Falls ranked first.]
- Self-poisoning was the second leading cause of injury hospitalization among female youths less than age 20, whereas the cause ranked seventh among male youths.
- Assault by firearm was the second leading cause of injury hospitalization among black youths less than age 20, whereas the cause did not rank among white youths.

Violence-Related Hospitalizations

- For 2009, the leading violence-related causes of hospitalization (self-inflicted injury or assault) were self-poisoning and assault by personal weapons (such as fists or a blunt object). These causes accounted for 65 percent of violence-related hospitalizations.
- Other leading violence-related causes of hospitalization include self-inflicted cutting (ranked second among females) and assault by firearm (ranked third among males).

Traumatic Brain Injury Hospitalizations

- For 2009, the leading causes of traumatic brain injury hospitalization were unintentional falls and MVT occupant injury, accounting for over 71 percent of traumatic brain injury hospitalizations. Falls were the leading cause of TBI among both males and females.
- The third and fourth leading causes of traumatic brain injury hospitalization for males were assault by personal weapons and motorcycle accidents, respectively.

For a full list of causes included in the rankings, with ICD definitions, see the Technical Notes.

LEADING CAUSES OF INJURY HOSPITALIZATION: 2009

PENNSYLVANIA RESIDENTS BY GENDER OR AGE GROUP

RANK	TOTAL	GENDER		AGE GROUP				
	All Ages	Males	Females	0-19	20-34	35-49	50-64	65+
1	Falls (Unint.) 68,786	Falls (Unint.) 26,024	Falls (Unint.) 42,746	Falls (Unint.) 2,170	Poisoning (Self-Inf.) 2,576	Falls (Unint.) 4,675	Falls (Unint.) 10,372	Falls (Unint.) 49,298
2	MVT Occ. (Unint.) 8,297	MVT Occ. (Unint.) 4,570	Poisoning (Self-Inf.) 4,610	MVT Occ. (Unint.) 1,168	Falls (Unint.) 2,271	Poisoning (Self-Inf.) 2,685	Poisoning (Unint.) 1,774	MVT Occ. (Unint.) 1,797
3	Poisoning (Self-Inf.) 7,837	Poisoning (Unint.) 3,574	MVT Occ. (Unint.) 3,707	Poisoning (Self-Inf.) 850	MVT Occ. (Unint.) 2,249	Poisoning (Unint.) 1,821	MVT Occ. (Unint.) 1,528	Poisoning (Unint.) 1,419
4	Poisoning (Unint.) 6,882	Poisoning (Self-Inf.) 3,226	Poisoning (Unint.) 3,308	Struck By (Unint.) 682	Poisoning (Unint.) 1,259	MVT Occ. (Unint.) 1,555	Poisoning (Self-Inf.) 1,380	Suffoc. (Unint.) 1,077
5	Struck By (Unint.) 3,043	Struck By (Unint.) 1,879	Bite/Sting (Unint.) 1,186	Poisoning (Unint.) 609	Struck By (Asslt.) 784	Poisoning (Undet.) 781	Poisoning (Undet.) 571	Struck By (Unint.) 1,002
6	Ovrexert. (Unint.) 2,201	Struck By (Asslt.) 1,630	Ovrexert. (Unint.) 1,166	Transport (Unint.) 447	Poisoning (Undet.) 552	Struck By (Asslt.) 563	Bite/Sting (Unint.) 542	Ovrexert. (Unint.) 864
7	Poisoning (Undet.) 2,171	MVT Moto. (Unint.) 1,379	Struck By (Unint.) 1,162	Pedest. (Unint.) 421	Firearm (Asslt.) 549	MVT Moto. (Unint.) 559	Ovrexert. (Unint.) 511	Bite/Sting (Unint.) 492
8	Bite/Sting (Unint.) 2,162	Transport (Unint.) 1,340	Poisoning (Undet.) 975	Ped Cyc. (Unint.) 383	Cut/Pierce (Self-Inf.) 520	Bite/Sting (Unint.) 500	Struck By (Unint.) 482	Poisoning (Self-Inf.) 346
9	Struck By (Asslt.) 1,982	Poisoning (Undet.) 1,195	Suffoc. (Unint.) 818	Burn/Scald (Unint.) 367	MVT Moto. (Unint.) 460	Ovrexert. (Unint.) 437	MVT Moto. (Unint.) 405	Transport (Unint.) 329
10	Transport (Unint.) 1,979	Cut/Pierce (Unint.) 1,070	Transport (Unint.) 637	Bite/Sting (Unint.) 336	Transport (Unint.) 455	Struck By (Unint.) 427	Suffoc. (Unint.) 365	Ped Cyc. (Unint.) 297
TOTAL	146,390	70,163	76,155	11,078	17,824	21,461	26,256	69,770

NOTES: Some causes may be tied by number of events, including ranks 10 and 11 (not shown). For full list of causes included in these tables, see Technical Notes.

LEADING CAUSES OF INJURY HOSPITALIZATION: 2009

PENNSYLVANIA RESIDENTS BY GENDER AND AGE GROUP

RANK	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
1	Falls (Unint.) 1,389	Falls (Unint.) 775	MVT Occ. (Unint.) 1,356	Poisoning (Self-Inf.) 1,496	Falls (Unint.) 2,666	Falls (Unint.) 2,006	Falls (Unint.) 5,054	Falls (Unint.) 5,317	Falls (Unint.) 15,563	Falls (Unint.) 33,730
2	MVT Occ. (Unint.) 665	Poisoning (Self-Inf.) 564	Falls (Unint.) 1,352	Falls (Unint.) 918	Poisoning (Self-Inf.) 1,155	Poisoning (Self-Inf.) 1,529	Poisoning (Unint.) 981	Poisoning (Unint.) 793	MVT Occ. (Unint.) 804	MVT Occ. (Unint.) 990
3	Struck By (Unint.) 509	MVT Occ. (Unint.) 500	Poisoning (Self-Inf.) 1,080	MVT Occ. (Unint.) 886	Poisoning (Unint.) 981	Poisoning (Unint.) 840	MVT Occ. (Unint.) 806	Poisoning (Self-Inf.) 790	Suffoc. (Unint.) 524	Poisoning (Unint.) 896
4	Poisoning (Unint.) 352	Poisoning (Unint.) 257	Poisoning (Unint.) 737	Poisoning (Unint.) 522	MVT Occ. (Unint.) 939	MVT Occ. (Unint.) 612	Poisoning (Self-Inf.) 590	MVT Occ. (Unint.) 719	Poisoning (Unint.) 523	Struck By (Unint.) 655
5	Pedest. (Unint.) 332	Struck By (Unint.) 172	Struck By (Asslt.) 644	Cut/Pierce (Self-Inf.) 239	MVT Moto. (Unint.) 463	Poisoning (Undet.) 365	MVT Moto. (Unint.) 359	Bite/Sting (Unint.) 302	Struck By (Unint.) 347	Ovrexert. (Unint.) 586
6	Transport (Unint.) 321	Burn/Scald (Unint.) 165	Firearm (Asslt.) 505	Poisoning (Undet.) 230	Struck By (Asslt.) 459	Bite/Sting (Unint.) 257	Poisoning (Undet.) 331	Ovrexert. (Unint.) 256	Ovrexert. (Unint.) 278	Suffoc. (Unint.) 552
7	Poisoning (Self-Inf.) 286	Bite/Sting (Unint.) 162	MVT Moto. (Unint.) 405	Bite/Sting (Unint.) 159	Poisoning (Undet.) 415	Ovrexert. (Unint.) 174	Struck By (Unint.) 325	Poisoning (Undet.) 240	Bite/Sting (Unint.) 186	Bite/Sting (Unint.) 306
8	Ped Cyc. (Unint.) 243	Ped Cyc. (Unint.) 138	Struck By (Unint.) 369	Struck By (Asslt.) 139	Struck By (Unint.) 329	Cut/Pierce (Self-Inf.) 147	Struck By (Asslt.) 259	Struck By (Unint.) 157	Transport (Unint.) 161	Poisoning (Self-Inf.) 231
9	Struck By (Asslt.) 226	Transport (Unint.) 125	Transport (Unint.) 362	Ovrexert. (Unint.) 109	Cut/Pierce (Unint.) 303	Transport (Unint.) 123	Ovrexert. (Unint.) 255	Suffoc. (Unint.) 151	Cut/Pierce (Unint.) 134	Transport (Unint.) 168
10	Firearm (Asslt.) 214	Cut/Pierce (Self-Inf.) 124	Poisoning (Undet.) 322	Transport (Unint.) 93	Transport (Unint.) 301	Struck By (Asslt.) 103	Bite/Sting (Unint.) 240	Ped Cyc. (Unint.) 129	Ped Cyc. (Unint.) 131	Ped Cyc. (Unint.) 166
TOTAL	6,936	4,122	11,300	6,509	12,943	8,501	14,445	11,802	24,538	45,221

NOTES: Some causes may be tied by number of events, including ranks 10 and 11 (not shown). For full list of causes included in these tables, see Technical Notes.

LEADING CAUSES OF INJURY HOSPITALIZATION: 2009

PENNSYLVANIA RESIDENTS BY RACE OR ETHNICITY AND GENDER

RANK	TOTAL	RACE OR ETHNICITY			MALES		FEMALES	
	All Races	White	Black	Hispanic	White	Black	White	Black
1	Falls (Unint.) 68,786	Falls (Unint.) 60,373	Falls (Unint.) 4,862	Falls (Unint.) 1,350	Falls (Unint.) 22,297	Falls (Unint.) 2,186	Falls (Unint.) 38,062	Falls (Unint.) 2,676
2	MVT Occ. (Unint.) 8,297	MVT Occ. (Unint.) 6,706	Poisoning (Unint.) 1,565	Poisoning (Self-Inf.) 405	MVT Occ. (Unint.) 3,682	Poisoning (Unint.) 933	Poisoning (Self-Inf.) 3,759	Poisoning (Unint.) 632
3	Poisoning (Self-Inf.) 7,837	Poisoning (Self-Inf.) 6,311	Poisoning (Self-Inf.) 885	MVT Occ. (Unint.) 375	Poisoning (Self-Inf.) 2,551	Firearm (Asslt.) 664	MVT Occ. (Unint.) 3,004	Poisoning (Self-Inf.) 482
4	Poisoning (Unint.) 6,882	Poisoning (Unint.) 4,866	MVT Occ. (Unint.) 855	Poisoning (Unint.) 261	Poisoning (Unint.) 2,381	Struck By (Asslt.) 568	Poisoning (Unint.) 2,485	MVT Occ. (Unint.) 356
5	Struck By (Unint.) 3,043	Struck By (Unint.) 2,455	Firearm (Asslt.) 703	Struck By (Asslt.) 149	Struck By (Unint.) 1,467	MVT Occ. (Unint.) 499	Ovrexert. (Unint.) 1,033	Poisoning (Undet.) 196
6	Ovrexert. (Unint.) 2,201	Ovrexert. (Unint.) 1,860	Struck By (Asslt.) 691	Suffoc. (Unint.) 136	Transport (Unint.) 1,219	Poisoning (Self-Inf.) 403	Bite/Sting (Unint.) 1,008	Ped Cyc. (Unint.) 152
7	Poisoning (Undet.) 2,171	Transport (Unint.) 1,812	Poisoning (Undet.) 564	Ped Cyc. (Unint.) 109	MVT Moto. (Unint.) 1,134	Poisoning (Undet.) 368	Struck By (Unint.) 987	Bite/Sting (Unint.) 125
8	Bite/Sting (Unint.) 2,162	Bite/Sting (Unint.) 1,796	Ped Cyc. (Unint.) 395	Struck By (Unint.) 101	Struck By (Asslt.) 835	Ped Cyc. (Unint.) 242	Poisoning (Undet.) 713	Struck By (Asslt.) 122
9	Struck By (Asslt.) 1,982	Poisoning (Undet.) 1,453	Struck By (Unint.) 337	Burn/Scald (Unint.) 101	Ovrexert. (Unint.) 827	Cut/Pierce (Asslt.) 240	Suffoc. (Unint.) 677	Burn/Scald (Unint.) 113
10	Transport (Unint.) 1,979	Suffoc. (Unint.) 1,425	Cut/Pierce (Asslt.) 280	Poisoning (Undet.) 90	Cut/Pierce (Unint.) 815	Struck By (Unint.) 225	Transport (Unint.) 591	Struck By (Unint.) 112
TOTAL	146,390	119,501	17,293	4,534	54,632	10,200	64,805	7,089

NOTES: Some causes may be tied by number of events, including ranks 10 and 11 (not shown). For full list of causes included in these tables, see Technical Notes.

LEADING CAUSES OF INJURY HOSPITALIZATION: 2009

PENNSYLVANIA RESIDENTS BY RACE AND AGE GROUP

RANK	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
	White	Black	White	Black	White	Black	White	Black	White	Black
1	Falls (Unint.) 1,498	Falls (Unint.) 381	Poisoning (Self-Inf.) 2,045	Firearm (Asslt.) 401	Falls (Unint.) 3,573	Falls (Unint.) 728	Falls (Unint.) 8,514	Falls (Unint.) 1,267	Falls (Unint.) 45,156	Falls (Unint.) 2,105
2	MVT Occ. (Unint.) 925	Firearm (Asslt.) 183	MVT Occ. (Unint.) 1,664	Falls (Unint.) 381	Poisoning (Self-Inf.) 2,171	Poisoning (Unint.) 537	MVT Occ. (Unint.) 1,263	Poisoning (Unint.) 536	MVT Occ. (Unint.) 1,614	Poisoning (Unint.) 177
3	Poisoning (Self-Inf.) 634	Ped Cyc. (Unint.) 139	Falls (Unint.) 1,632	MVT Occ. (Unint.) 308	MVT Occ. (Unint.) 1,240	Poisoning (Self-Inf.) 319	Poisoning (Self-Inf.) 1,158	Poisoning (Undet.) 205	Poisoning (Unint.) 1,176	Suffoc. (Unint.) 90
4	Struck By (Unint.) 472	Poisoning (Unint.) 133	Poisoning (Unint.) 956	Poisoning (Self-Inf.) 301	Poisoning (Unint.) 1,178	Poisoning (Undet.) 239	Poisoning (Unint.) 1,154	MVT Occ. (Unint.) 166	Suffoc. (Unint.) 945	MVT Occ. (Unint.) 88
5	Transport (Unint.) 409	Struck By (Unint.) 127	Cut/Pierce (Self-Inf.) 439	Struck By (Asslt.) 236	Poisoning (Undet.) 491	Struck By (Asslt.) 231	Bite/Sting (Unint.) 489	Poisoning (Self-Inf.) 151	Struck By (Unint.) 925	Ped Cyc. (Unint.) 38
6	Poisoning (Unint.) 402	MVT Occ. (Unint.) 112	Struck By (Asslt.) 438	Poisoning (Unint.) 182	MVT Moto. (Unint.) 460	MVT Occ. (Unint.) 181	Ovrexert. (Unint.) 419	Struck By (Asslt.) 113	Ovrexert. (Unint.) 816	Struck By (Unint.) 36
7	Pedest. (Unint.) 312	Burn/Scald (Unint.) 100	Poisoning (Undet.) 435	Cut/Pierce (Asslt.) 126	Bite/Sting (Unint.) 401	Firearm (Asslt.) 94	Struck By (Unint.) 391	Ped Cyc. (Unint.) 83	Bite/Sting (Unint.) 454	Poisoning (Undet.) 31
8	Bite/Sting (Unint.) 217	Struck By (Asslt.) 99	Transport (Unint.) 404	Firearm (Unint.) 69	Transport (Unint.) 385	Cut/Pierce (Asslt.) 81	MVT Moto. (Unint.) 374	Struck By (Unint.) 56	Transport (Unint.) 313	Ovrexert. (Unint.) 26
9	Ped Cyc. (Unint.) 173	Poisoning (Self-Inf.) 94	MVT Moto. (Unint.) 339	MVT Moto. (Unint.) 66	Ovrexert. (Unint.) 344	Ped Cyc. (Unint.) 75	Poisoning (Undet.) 331	Suffoc. (Unint.) 56	Poisoning (Self-Inf.) 303	Burn/Scald (Unint.) 23
10	Cut/Pierce (Self-Inf.) 162	Bite/Sting (Unint.) 76	Struck By (Unint.) 326	Poisoning (Undet.) 65	Struck By (Unint.) 341	Bite/Sting (Unint.) 68	Transport (Unint.) 301	Ovrexert. (Unint.) 52	Ped Cyc. (Unint.) 222	Poisoning (Self-Inf.) 20
TOTAL	7,311	2,290	12,501	3,335	15,780	4,000	20,755	4,020	63,153	3,648

NOTES: Some causes may be tied by number of events, including ranks 10 and 11 (not shown). For full list of causes included in these tables, see Technical Notes.

LEADING CAUSES OF INJURY HOSPITALIZATION: 2009

PENNSYLVANIA RESIDENTS BY INJURY INTENT, BRAIN INJURY, AND GENDER

RANK	INTENT		UNINT.		VIOLENCE		TBI		
	Unint.	Violence	Males	Females	Males	Females	Total	Males	Females
1	Falls (Unint.) 68,786	Poisoning (Self-Inf.) 7,837	Falls (Unint.) 26,024	Falls (Unint.) 42,746	Poisoning (Self-Inf.) 3,226	Poisoning (Self-Inf.) 4,610	Falls (Unint.) 9,678	Falls (Unint.) 4,710	Falls (Unint.) 4,955
2	MVT Occ. (Unint.) 8,297	Struck By (Asslt.) 1,982	MVT Occ. (Unint.) 4,570	MVT Occ. (Unint.) 3,707	Struck By (Asslt.) 1,630	Cut/Pierce (Self-Inf.) 571	MVT Occ. (Unint.) 3,078	MVT Occ. (Unint.) 1,834	MVT Occ. (Unint.) 1,234
3	Poisoning (Unint.) 6,882	Cut/Pierce (Self-Inf.) 1,172	Poisoning (Unint.) 3,574	Poisoning (Unint.) 3,308	Firearm (Asslt.) 890	Struck By (Asslt.) 350	Struck By (Asslt.) 753	Struck By (Asslt.) 669	Ped Cyc. (Unint.) 204
4	Struck By (Unint.) 3,043	Firearm (Asslt.) 963	Struck By (Unint.) 1,879	Bite/Sting (Unint.) 1,186	Cut/Pierce (Self-Inf.) 600	Cut/Pierce (Asslt.) 79	MVT Moto. (Unint.) 529	MVT Moto. (Unint.) 462	Struck By (Unint.) 164
5	Ovrexert. (Unint.) 2,201	Cut/Pierce (Asslt.) 626	MVT Moto. (Unint.) 1,379	Ovrexert. (Unint.) 1,166	Cut/Pierce (Asslt.) 545	Firearm (Asslt.) 73	Ped Cyc. (Unint.) 526	Transport (Unint.) 350	Transport (Unint.) 135
6	Bite/Sting (Unint.) 2,162	Hanging (Self-Inf.) 118	Transport (Unint.) 1,340	Struck By (Unint.) 1,162	Hanging (Self-Inf.) 86	Hanging (Self-Inf.) 31	Struck By (Unint.) 506	Struck By (Unint.) 340	Struck By (Asslt.) 84
7	Transport (Unint.) 1,979	Firearm (Self-Inf.) 87	Cut/Pierce (Unint.) 1,070	Suffoc. (Unint.) 818	Firearm (Self-Inf.) 73	Firearm (Self-Inf.) 14	Transport (Unint.) 487	Ped Cyc. (Unint.) 320	Pedest. (Unint.) 81
8	Suffoc. (Unint.) 1,701		Ovrexert. (Unint.) 1,035	Transport (Unint.) 637			Pedest. (Unint.) 379	Pedest. (Unint.) 296	MVT Moto. (Unint.) 62
9	MVT Moto. (Unint.) 1,594		Bite/Sting (Unint.) 976	Ped Cyc. (Unint.) 595			Firearm (Asslt.) 78	Firearm (Asslt.) 68	Firearm (Asslt.) 10
10	Cut/Pierce (Unint.) 1,444		Pedest. (Unint.) 886	Burn/Scald (Unint.) 523			Firearm (Self-Inf.) 41	Firearm (Self-Inf.) 37	Poisoning (Self-Inf.) 8
TOTAL	125,765	15,089	58,639	67,065	8,552	6,530	17,916	10,371	7,507

NOTES: Some causes may be tied by number of events, including ranks 10 and 11 (not shown). For full list of causes included in these tables, see Technical Notes.

INJURY HOSPITALIZATIONS: TREATMENT CHARGES

In 2009, among Pennsylvania residents, there were 146,390 hospitalizations due to injury. Total treatment charges for these injuries exceeded \$7.46 billion.

Overview

Treatment charges are from hospital billing data. Note: these figures may be greater than amounts actually paid by insurance providers.

Mean charges are not shown because treatment charges are highly skewed. Median charges are more reflective of typical costs.

Treatment charges generally increase over time. Median charges for injury hospitalizations overall have increased by 42 percent from 2005 to 2009.

HIGHLIGHTS

- *Total treatment charges for unintentional falls exceeded **\$3.11 billion** in 2009.*
- *Median charges were highest for **assault by firearm**.*
- ***Insurance coverage** differed among MVT accidents, falls and firearm-related injuries.*

Total Injury Cost Burden

- In 2009, unintentional falls hospitalizations accounted for \$3.11 billion in total charges, or 41.8 percent of the total charges for all injury hospitalizations.
- Unintentional MVT injury hospitalizations accounted for \$1.01 billion in total charges.
- Other large cost burdens included poisoning hospitalizations (with \$483 million in total charges) and assault injury hospitalizations (with \$409 million in total charges).

Highest Median Charges

- Hospitalizations for assault by firearm showed the highest median treatment charges of any major injury. At \$75,296, median charges for assault by firearm were nearly three times greater than median charges for injury hospitalizations overall (\$26,468).
- Among hospitalizations due to MVT accidents, pedestrians and motorcyclists showed higher median treatment charges than motor vehicle occupants.
- Hospitalizations involving traumatic brain injury (TBI) generally showed higher median treatment charges than other hospitalizations by the same external cause.

Charges by Primary Payor

- Medicare was primary payor on most unintentional falls hospitalizations. In 2009, Medicare was billed over two billion dollars to treat falls (70 percent of the total).
- Medicaid was typically the primary payor on poisoning hospitalizations. In 2009, Medicaid was billed over \$195 million to treat poisonings (40 percent of the total).
- Commercial providers were primary payor on most MVT hospitalizations. In 2009, these plans were billed \$778 million to treat MVT injuries (76 percent of the total).

SUMMARY TABLE: HOSPITALIZATION CHARGES

TOTAL NUMBER, CHARGES, MEDIAN CHARGES AND PRIMARY PAYOR BY MECHANISM AND BRAIN INJURY, PENNSYLVANIA RESIDENTS, 2009

Injury Mechanism	All Injury Hospitalizations			Primary Payor			Injuries with TBI			Injuries without TBI		
	No.	Sum	Median	Medicare	Medicaid	Commercial	No.	Sum	Median	No.	Sum	Median
Fall	68,922	\$3,133,431,404	\$27,717	70%	10%	18%	9,705	\$574,834,044	\$31,502	59,217	\$2,558,597,360	\$27,204
→ <i>On same level</i>	21,548	\$893,305,096	\$27,812	74%	6%	18%	2,109	\$95,003,550	\$27,358	19,439	\$798,301,546	\$27,889
→ <i>One level to another</i>	16,250	\$860,618,565	\$30,047	56%	17%	23%	3,326	\$228,589,366	\$33,522	12,924	\$632,029,199	\$29,269
→ <i>Unspecified</i>	31,124	\$1,379,507,743	\$26,597	76%	8%	14%	4,270	\$251,241,128	\$32,339	26,854	\$1,128,266,615	\$25,949
Poisoning	16,904	\$483,631,405	\$14,393	28%	40%	25%	52	\$2,089,920	\$22,053	16,852	\$481,541,485	\$14,366
→ <i>Drug</i>	15,108	\$433,109,697	\$14,464	28%	41%	24%	37	\$1,116,684	\$19,918	15,071	\$431,993,013	\$14,452
→ <i>Non-Drug</i>	1,796	\$50,521,708	\$13,716	33%	31%	27%	15	\$973,236	\$23,809	1,781	\$49,548,472	\$13,684
Motor Vehicle Traffic	12,303	\$1,019,885,075	\$38,358	5%	16%	76%	4,451	\$427,246,676	\$41,302	7,852	\$592,638,399	\$36,870
→ <i>MVT Occupant</i>	8,336	\$619,799,144	\$36,119	3%	9%	85%	3,092	\$253,938,821	\$38,115	5,244	\$365,860,322	\$34,864
→ <i>MVT Motorcyclist</i>	1,594	\$168,931,385	\$45,454	4%	23%	69%	529	\$72,788,355	\$52,916	1,065	\$96,143,030	\$41,860
→ <i>MVT Pedal Cyclist</i>	296	\$24,298,956	\$44,591	2%	23%	71%	134	\$9,063,639	\$35,879	162	\$15,235,318	\$48,065
→ <i>MVT Pedestrian</i>	1,322	\$152,298,899	\$48,264	8%	34%	54%	497	\$72,792,133	\$51,059	825	\$79,506,766	\$47,091
→ <i>MVT Other</i>	85	\$5,753,139	\$37,927	22%	14%	56%	33	\$2,226,098	\$49,483	52	\$3,527,040	\$34,478
→ <i>MVT Unspecified</i>	670	\$48,803,552	\$38,133	19%	10%	69%	166	\$16,437,630	\$53,519	504	\$32,365,922	\$33,465
All Pedal Cyclist	1,126	\$57,639,544	\$28,165	7%	27%	62%	379	\$19,616,253	\$29,788	747	\$38,023,291	\$27,558
All Pedestrian	1,427	\$160,768,292	\$47,377	8%	34%	55%	526	\$75,223,326	\$50,220	901	\$85,544,966	\$45,559
Other Transport	1,979	\$103,984,780	\$27,974	13%	19%	62%	487	\$37,606,597	\$31,528	1,492	\$66,378,183	\$26,794
Firearm	1,424	\$212,452,010	\$64,883	3%	75%	15%	144	\$22,019,104	\$77,645	1,280	\$190,432,906	\$63,987
Drowning	69	\$2,991,823	\$22,760	19%	31%	31%	2	\$127,889	\$63,945	67	\$2,863,934	\$22,760
Suffocation	1,859	\$201,160,206	\$40,084	59%	16%	21%	16	\$4,350,056	\$58,493	1,843	\$196,810,150	\$39,857
Fire/Flames	832	\$115,744,223	\$33,460	34%	30%	30%	6	\$2,573,126	\$47,707	826	\$113,171,097	\$33,172
Hot Object/Scald	1,134	\$68,698,601	\$24,912	28%	41%	28%	1	\$62,594	\$62,594	1,133	\$68,636,007	\$24,853
Cut/Pierce	3,277	\$108,569,339	\$18,197	16%	43%	30%	49	\$2,571,071	\$35,774	3,228	\$105,998,268	\$18,000
Struck By/Against	5,074	\$196,264,925	\$23,818	23%	35%	32%	1,270	\$60,344,188	\$28,422	3,804	\$135,920,737	\$22,653
Machinery	575	\$31,222,782	\$25,276	13%	9%	69%	38	\$2,482,763	\$38,532	537	\$28,740,018	\$24,490
Overexertion	2,201	\$64,939,799	\$19,372	43%	11%	42%	0	\$0	\$0	2,201	\$64,939,799	\$19,372
Nat./Env. Causes	3,344	\$109,294,655	\$14,951	43%	23%	28%	44	\$2,087,295	\$26,830	3,300	\$107,207,360	\$14,858
→ <i>Bites and Stings</i>	2,162	\$44,602,348	\$11,937	31%	23%	40%	9	\$535,062	\$36,487	2,153	\$44,067,286	\$11,915
Other Spec./NEC	11,563	\$775,692,940	\$29,550	41%	25%	31%	464	\$71,656,595	\$62,166	11,099	\$704,036,345	\$28,777
Unspecified	13,995	\$795,093,471	\$29,541	51%	20%	26%	913	\$82,352,006	\$41,825	13,082	\$712,741,465	\$28,850
Total: All Mechanisms	146,390	\$7,464,867,416	\$26,468	46%	19%	31%	17,916	\$1,305,387,731	\$34,872	128,474	\$6,159,479,685	\$25,460

NOTES: Percentages indicate provider's share of total charges, not total number of hospitalizations. Charges are skewed right. Not all payors shown. See Technical Notes.

SUMMARY TABLE: HOSPITALIZATION CHARGES

TOTAL NUMBER, CHARGES AND MEDIAN CHARGES BY MECHANISM AND INTENT, PENNSYLVANIA RESIDENTS, 2009

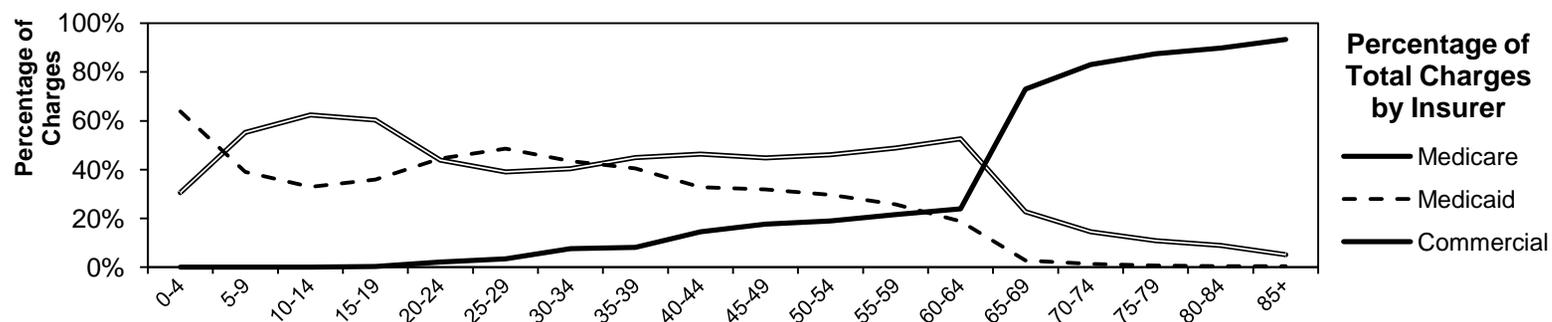
Injury Mechanism	Unintentional Injury			Self-Inflicted Injury			Assault Injury			Undetermined Injury		
	No.	Sum	Median	No.	Sum	Median	No.	Sum	Median	No.	Sum	Median
Fall	68,786	\$3,119,706,697	\$27,702	73	\$8,979,645	\$52,003	12	\$585,073	\$31,070	51	\$4,159,989	\$59,126
→ <i>On same level</i>	21,548	\$893,305,096	\$27,812	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
→ <i>One level to another</i>	16,114	\$846,893,858	\$30,012	73	\$8,979,645	\$52,003	12	\$585,073	\$31,070	51	\$4,159,989	\$59,126
→ <i>Unspecified</i>	31,124	\$1,379,507,743	\$26,597	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
Poisoning	6,882	\$224,487,649	\$16,556	7,837	\$180,582,694	\$12,281	13	\$264,223	\$12,682	2,171	\$78,251,563	\$17,508
→ <i>Drug</i>	5,722	\$194,733,821	\$17,371	7,489	\$169,362,764	\$12,125	10	\$168,615	\$10,878	1,887	\$68,844,497	\$17,848
→ <i>Non-Drug</i>	1,160	\$29,753,828	\$12,683	348	\$11,219,930	\$15,544	3	\$95,608	\$15,898	284	\$9,407,066	\$16,045
Motor Vehicle Traffic	12,264	\$1,017,512,903	\$38,374	20	\$1,043,092	\$36,401	11	\$1,016,213	\$45,864	8	\$312,868	\$31,055
→ <i>MVT Occupant</i>	8,297	\$617,426,972	\$36,118	20	\$1,043,092	\$36,401	11	\$1,016,213	\$45,864	8	\$312,868	\$31,055
→ <i>MVT Motorcyclist</i>	1,594	\$168,931,385	\$45,454	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
→ <i>MVT Pedal Cyclist</i>	296	\$24,298,956	\$44,591	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
→ <i>MVT Pedestrian</i>	1,322	\$152,298,899	\$48,264	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
→ <i>MVT Other</i>	85	\$5,753,139	\$37,927	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
→ <i>MVT Unspecified</i>	670	\$48,803,552	\$38,133	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
All Pedal Cyclist	1,126	\$57,639,544	\$28,165	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
All Pedestrian	1,427	\$160,768,292	\$47,377	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
Other Transport	1,979	\$103,984,780	\$27,974	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
Firearm	266	\$28,122,520	\$48,268	87	\$8,938,607	\$47,532	963	\$161,983,057	\$75,296	92	\$11,668,040	\$72,145
Drowning	62	\$2,724,513	\$23,398	3	\$53,430	\$13,770	0	\$0	\$0	4	\$213,880	\$39,947
Suffocation	1,701	\$193,569,172	\$43,206	144	\$7,079,050	\$24,234	10	\$370,884	\$28,024	4	\$141,100	\$18,599
Fire/Flames	774	\$101,927,889	\$34,881	39	\$11,518,078	\$21,051	3	\$1,645,677	\$13,708	16	\$652,578	\$19,089
Hot Object/Scald	1,111	\$63,766,907	\$24,735	5	\$744,809	\$122,759	11	\$2,905,186	\$56,955	7	\$1,281,699	\$35,775
Cut/Pierce	1,444	\$44,524,774	\$18,980	1,172	\$24,223,454	\$10,967	626	\$38,996,438	\$40,929	33	\$776,085	\$15,112
Struck By/Against	3,043	\$100,216,210	\$20,283	0	\$0	\$0	1,982	\$93,406,915	\$30,785	0	\$0	\$0
Machinery	575	\$31,222,782	\$25,276	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
Overexertion	2,201	\$64,939,799	\$19,372	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
Nat/Env. Causes	3,313	\$107,030,899	\$14,889	5	\$114,417	\$18,484	0	\$0	\$0	26	\$2,149,339	\$35,321
→ <i>Bites and Stings</i>	2,162	\$44,602,348	\$11,937	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
Other Spec./NEC	9,674	\$673,034,982	\$29,941	253	\$11,391,190	\$18,502	1,154	\$65,594,502	\$29,457	397	\$21,290,519	\$30,490
Unspecified	10,755	\$575,227,465	\$28,798	69	\$1,954,847	\$10,181	597	\$42,915,536	\$40,232	2,564	\$174,795,227	\$30,436
Total: All Mechanisms	125,765	\$6,493,809,920	\$27,411	9,707	\$256,623,313	\$12,611	5,382	\$409,683,704	\$36,627	5,373	\$295,692,888	\$25,058

NOTES: Amounts indicate treatment charges from hospital billing data, not amounts actually paid. Charges are skewed right. See Technical Notes.

SUMMARY TABLE: HOSPITALIZATION CHARGES

**TOTAL NUMBER, CHARGES, MEDIAN CHARGES AND PRIMARY PAYOR
BY AGE GROUP AND BRAIN INJURY, PENNSYLVANIA RESIDENTS, 2009**

Age Group	Leading Injury Hospitalization	All Injury Hospitalizations			Primary Payor			Injuries with TBI			Injuries without TBI		
		No.	Sum	Median	Medicare	Medicaid	Commercial	No.	Sum	Median	No.	Sum	Median
0-4	Unint. Falls	2,311	\$117,759,941	\$16,100	0%	64%	31%	543	\$34,423,851	\$17,073	1,768	\$83,336,090	\$15,810
5-9	Unint. Falls	1,311	\$50,075,601	\$17,593	0%	39%	55%	248	\$11,002,440	\$19,157	1,063	\$39,073,160	\$17,104
10-14	Unint. Falls	1,955	\$75,093,559	\$18,679	0%	33%	62%	398	\$18,715,803	\$20,422	1,557	\$56,377,756	\$18,286
15-19	MVT Occupant	5,501	\$275,358,151	\$22,505	0%	36%	60%	1,082	\$75,973,964	\$31,517	4,419	\$199,384,187	\$20,476
20-24	MVT Occupant	6,719	\$366,878,859	\$24,837	2%	45%	44%	1,164	\$87,311,863	\$36,392	5,555	\$279,566,996	\$22,076
25-29	Self-Poisoning	5,891	\$320,509,921	\$23,677	3%	49%	39%	864	\$84,079,613	\$36,999	5,027	\$236,430,309	\$21,655
30-34	Self-Poisoning	5,214	\$265,912,646	\$23,915	8%	44%	40%	650	\$59,432,625	\$38,792	4,564	\$206,480,021	\$22,058
35-39	Unint. Falls	5,697	\$296,261,978	\$23,433	8%	40%	45%	665	\$55,162,560	\$35,517	5,032	\$241,099,419	\$21,636
40-44	Unint. Falls	6,984	\$370,259,646	\$24,486	15%	33%	46%	761	\$60,027,328	\$36,904	6,223	\$310,232,317	\$23,039
45-49	Unint. Falls	8,780	\$489,430,994	\$25,697	18%	32%	45%	982	\$100,954,795	\$41,620	7,798	\$388,476,198	\$24,116
50-54	Unint. Falls	9,592	\$515,713,606	\$26,772	19%	30%	46%	1,040	\$88,784,239	\$42,531	8,552	\$426,929,367	\$25,284
55-59	Unint. Falls	8,640	\$508,400,562	\$29,114	22%	26%	49%	938	\$71,609,049	\$38,861	7,702	\$436,791,513	\$28,113
60-64	Unint. Falls	8,024	\$470,475,162	\$30,098	24%	19%	53%	916	\$79,682,771	\$39,333	7,108	\$390,792,391	\$29,020
65-69	Unint. Falls	7,805	\$463,248,094	\$30,139	73%	3%	23%	839	\$69,463,359	\$39,792	6,966	\$393,784,735	\$29,185
70-74	Unint. Falls	8,749	\$474,190,242	\$29,020	83%	1%	15%	983	\$69,574,292	\$37,418	7,766	\$404,615,949	\$28,208
75-79	Unint. Falls	11,634	\$591,445,976	\$29,007	88%	1%	11%	1,334	\$85,848,096	\$35,898	10,300	\$505,597,879	\$28,356
80-84	Unint. Falls	15,527	\$736,085,354	\$27,952	90%	0%	9%	1,764	\$113,493,205	\$35,106	13,763	\$622,592,149	\$27,171
85+	Unint. Falls	26,055	\$1,077,436,116	\$26,656	93%	0%	5%	2,745	\$139,847,878	\$30,435	23,310	\$937,588,238	\$26,323
Total:	Unint. Falls	146,390	\$7,464,867,416	\$26,468	46%	19%	31%	17,916	\$1,305,387,731	\$34,872	128,474	\$6,159,479,685	\$25,460

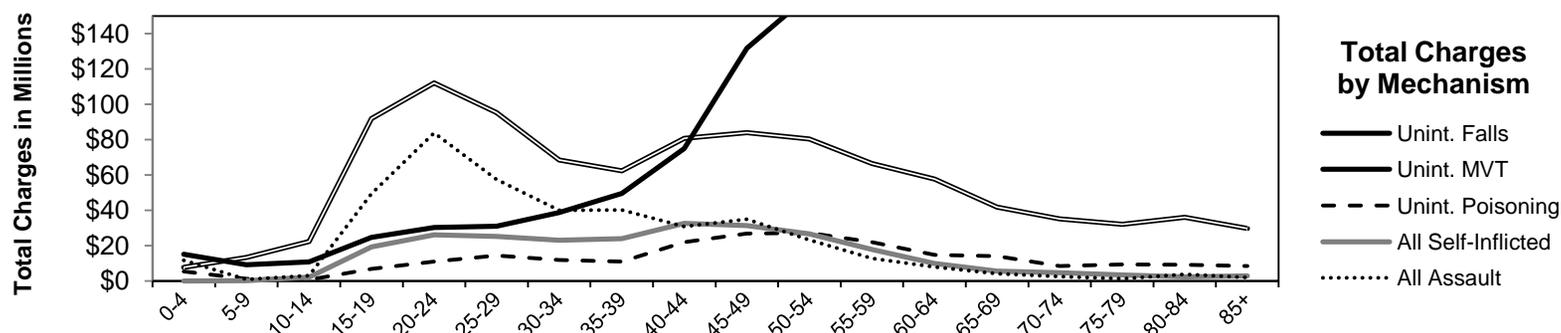


NOTES: Percentages indicate provider's share of total charges, not total number of hospitalizations. Charges are skewed right. Not all payors shown. See Technical Notes.

SUMMARY TABLE: HOSPITALIZATION CHARGES

TOTAL NUMBER, CHARGES AND MEDIAN CHARGES BY AGE GROUP AND SELECT MECHANISMS, PENNSYLVANIA RESIDENTS, 2009

Age Group	Unintentional Falls			Motor Vehicle Traffic			Unint. Poisoning			Self-Inflicted Injury			Assault Injury		
	No.	Sum	Median	No.	Sum	Median	No.	Sum	Median	No.	Sum	Median	No.	Sum	Median
0-4	651	\$15,102,460	\$14,653	113	\$7,808,257	\$28,307	234	\$5,370,263	\$8,523	0	\$0	\$0	171	\$11,689,777	\$26,338
5-9	420	\$9,250,549	\$16,281	214	\$13,276,425	\$30,518	54	\$1,196,132	\$8,117	5	\$100,253	\$19,588	17	\$789,275	\$24,163
10-14	456	\$10,712,521	\$17,579	292	\$22,329,303	\$30,910	52	\$704,606	\$10,310	121	\$2,124,763	\$10,363	81	\$3,004,689	\$21,847
15-19	643	\$24,599,548	\$23,018	1,204	\$91,882,492	\$38,034	269	\$6,772,573	\$12,045	987	\$19,345,710	\$10,030	663	\$49,425,192	\$35,516
20-24	693	\$30,319,594	\$27,802	1,435	\$112,117,593	\$39,377	432	\$10,882,353	\$12,713	1,268	\$26,056,181	\$10,509	947	\$83,758,384	\$39,304
25-29	752	\$31,033,386	\$26,896	981	\$95,343,083	\$41,518	460	\$14,451,660	\$14,060	1,088	\$25,124,808	\$10,847	702	\$57,540,718	\$35,408
30-34	826	\$38,702,464	\$26,060	761	\$68,468,680	\$39,406	367	\$11,950,418	\$14,406	994	\$22,975,960	\$11,910	537	\$39,984,183	\$38,878
35-39	1,008	\$49,486,224	\$27,278	753	\$62,257,032	\$37,526	411	\$10,947,580	\$13,677	1,014	\$23,952,629	\$11,618	468	\$40,096,610	\$40,620
40-44	1,480	\$74,902,559	\$29,225	842	\$80,709,012	\$36,982	582	\$22,018,850	\$16,776	1,071	\$32,514,553	\$13,534	463	\$30,843,676	\$36,620
45-49	2,187	\$131,757,779	\$29,611	941	\$83,963,312	\$43,164	828	\$26,804,267	\$17,160	1,104	\$31,353,068	\$13,624	460	\$34,917,975	\$37,790
50-54	3,071	\$161,822,564	\$29,175	958	\$80,422,755	\$40,020	810	\$27,131,242	\$18,671	877	\$26,673,412	\$15,608	370	\$23,171,513	\$37,918
55-59	3,464	\$183,896,486	\$30,055	788	\$66,499,264	\$41,152	568	\$22,054,869	\$21,564	474	\$17,748,135	\$18,696	178	\$12,775,689	\$40,594
60-64	3,837	\$193,717,813	\$30,059	634	\$57,577,212	\$40,035	396	\$14,734,338	\$21,461	263	\$9,911,052	\$18,645	126	\$7,856,380	\$33,265
65-69	4,222	\$234,405,087	\$30,454	521	\$41,802,457	\$36,706	317	\$14,044,449	\$18,547	152	\$5,589,410	\$18,740	51	\$4,179,454	\$52,153
70-74	5,365	\$259,361,716	\$28,933	462	\$35,208,943	\$38,495	255	\$8,504,395	\$18,491	95	\$4,630,358	\$20,101	48	\$2,486,735	\$26,960
75-79	7,869	\$363,816,983	\$28,804	474	\$32,063,132	\$32,719	274	\$9,293,220	\$19,872	78	\$3,474,341	\$23,346	32	\$1,155,047	\$23,074
80-84	11,276	\$493,127,880	\$27,819	479	\$36,095,894	\$36,628	268	\$9,109,781	\$20,552	62	\$2,254,917	\$20,622	27	\$3,688,354	\$35,655
85+	20,566	\$813,691,083	\$26,686	412	\$29,688,058	\$39,137	305	\$8,516,654	\$18,550	54	\$2,793,764	\$28,018	40	\$1,989,041	\$30,342
Total:	68,786	\$3,119,706,697	\$27,702	12,264	\$1,017,512,903	\$38,374	6,882	\$224,487,649	\$16,556	9,707	\$256,623,313	\$12,611	5,382	\$409,683,704	\$36,627



NOTES: Amounts indicate treatment charges from hospital billing data, not amounts actually paid. Charges are skewed right. See Technical Notes.

INJURY HOSPITALIZATION RATES: PENNSYLVANIA

NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES MECHANISM BY INTENT, PENNSYLVANIA RESIDENTS, 2009

Injury Mechanism	Ages 0-4		Ages 5-9		Ages 10-14		Ages 15-19		Ages 20-24		Ages 25-29		Ages 30-34		Ages 35-39		Ages 40-44	
	No.	Rate																
Fall	651	87.2	420	55.1	457	57.1	656	70.0	715	79.2	773	102.1	844	112.4	1,022	128.2	1,492	171.8
→ On same level	49	6.6	97	12.7	219	27.4	270	28.8	187	20.7	202	26.7	235	31.3	286	35.9	416	47.9
→ One level to another	498	66.7	232	30.4	146	18.2	223	23.8	314	34.8	323	42.7	363	48.4	434	54.4	583	67.1
→ Unspecified	104	13.9	91	11.9	92	11.5	163	17.4	214	23.7	248	32.8	246	32.8	302	37.9	493	56.8
Poisoning	239	32.0	62	8.1	152	19.0	1,122	119.7	1,549	171.5	1,513	199.8	1,329	177.0	1,463	183.5	1,685	194.1
→ Drug	148	19.8	37	4.9	124	15.5	1,047	111.7	1,442	159.7	1,413	186.6	1,232	164.1	1,342	168.3	1,499	172.6
→ Non-Drug	91	12.2	25	3.3	28	3.5	75	8.0	107	11.8	100	13.2	97	12.9	121	15.2	186	21.4
Motor Vehicle Traffic	113	15.1	214	28.1	292	36.5	1,207	128.8	1,441	159.6	990	130.8	766	102.0	754	94.6	844	97.2
→ MVT Occupant	60	8.0	73	9.6	109	13.6	929	99.1	1,051	116.4	686	90.6	532	70.9	470	59.0	501	57.7
→ MVT Motorcyclist	1	NA	9	NA	16	2.0	66	7.0	179	19.8	160	21.1	121	16.1	162	20.3	196	22.6
→ MVT Pedal Cyclist	2	NA	29	3.8	50	6.2	41	4.4	37	4.1	20	2.6	20	2.7	12	1.5	19	2.2
→ MVT Pedestrian	49	6.6	100	13.1	108	13.5	101	10.8	93	10.3	73	9.6	48	6.4	59	7.4	65	7.5
→ MVT Other	0	NA	3	NA	4	NA	13	1.4	7	NA	7	NA	5	NA	7	NA	5	NA
→ MVT Unspecified	1	NA	0	NA	5	NA	57	6.1	74	8.2	44	5.8	40	5.3	44	5.5	58	6.7
All Pedal Cyclist	10	1.3	100	13.1	193	24.1	118	12.6	96	10.6	66	8.7	55	7.3	48	6.0	68	7.8
All Pedestrian	58	7.8	103	13.5	112	14.0	110	11.7	99	11.0	86	11.4	50	6.7	64	8.0	70	8.1
Other Transport	19	2.5	43	5.6	135	16.9	250	26.7	190	21.0	161	21.3	104	13.9	144	18.1	135	15.5
Firearm	2	NA	2	NA	21	2.6	292	31.2	382	42.3	228	30.1	159	21.2	102	12.8	70	8.1
Drowning	28	3.7	4	NA	2	NA	8	NA	1	NA	1	NA	2	NA	3	NA	4	NA
Suffocation	56	7.5	10	1.3	7	NA	28	3.0	45	5.0	32	4.2	39	5.2	34	4.3	59	6.8
Fire/Flames	31	4.2	18	2.4	23	2.9	44	4.7	48	5.3	49	6.5	40	5.3	55	6.9	62	7.1
Hot Object/Scald	274	36.7	44	5.8	32	4.0	26	2.8	49	5.4	45	5.9	46	6.1	48	6.0	62	7.1
Cut/Pierce	31	4.2	34	4.5	77	9.6	352	37.6	494	54.7	365	48.2	312	41.6	265	33.2	312	35.9
Struck By/Against	93	12.5	105	13.8	214	26.7	545	58.2	542	60.0	399	52.7	311	41.4	321	40.3	304	35.0
Machinery	10	1.3	8	NA	6	NA	22	2.3	38	4.2	44	5.8	42	5.6	39	4.9	59	6.8
Overexertion	7	NA	6	NA	42	5.2	83	8.9	74	8.2	84	11.1	93	12.4	124	15.6	122	14.1
Nat/Env. Causes	176	23.6	91	11.9	68	8.5	108	11.5	120	13.3	123	16.2	133	17.7	161	20.2	235	27.1
→ Bites and Stings	138	18.5	72	9.4	48	6.0	78	8.3	85	9.4	105	13.9	102	13.6	125	15.7	186	21.4
Other Spec./NEC	335	44.9	96	12.6	170	21.2	394	42.0	600	66.4	596	78.7	555	73.9	622	78.0	869	100.1
Unspecified	229	30.7	80	10.5	110	13.7	278	29.7	366	40.5	429	56.7	402	53.6	499	62.6	616	70.9
Total: All Mechanisms	2,311	309.4	1,311	171.9	1,955	244.2	5,501	587.1	6,719	744.1	5,891	778.1	5,214	694.6	5,697	714.7	6,984	804.4

NOTES: Data based on ICD-9-CM codes. Age-specific rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATION RATES: PENNSYLVANIA

NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES MECHANISM BY INTENT, PENNSYLVANIA RESIDENTS, 2009

Injury Mechanism	Ages 45-49		Ages 50-54		Ages 55-59		Ages 60-64		Ages 65-69		Ages 70-74		Ages 75-79		Ages 80-84		Ages 85+	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Fall	2,199	240.2	3,082	343.2	3,471	421.9	3,837	548.9	4,223	789.3	5,368	1,214.0	7,869	2,167.2	11,276	4,067.4	20,567	6,255.8
→ On same level	588	64.2	882	98.2	1,056	128.4	1,243	177.8	1,340	250.5	1,795	406.0	2,543	700.4	3,676	1,326.0	6,464	1,966.1
→ One level to another	810	88.5	1,034	115.1	1,042	126.7	1,023	146.3	1,041	194.6	1,160	262.3	1,595	439.3	2,041	736.2	3,388	1,030.5
→ Unspecified	801	87.5	1,166	129.8	1,373	166.9	1,571	224.7	1,842	344.3	2,413	545.7	3,731	1,027.5	5,559	2,005.2	10,715	3,259.2
Poisoning	2,141	233.8	1,874	208.7	1,157	140.6	696	99.6	494	92.3	359	81.2	368	101.3	343	123.7	358	108.9
→ Drug	1,898	207.3	1,658	184.6	1,028	125.0	611	87.4	416	77.8	306	69.2	314	86.5	299	107.9	294	89.4
→ Non-Drug	243	26.5	216	24.0	129	15.7	85	12.2	78	14.6	53	12.0	54	14.9	44	15.9	64	19.5
Motor Vehicle Traffic	946	103.3	963	107.2	789	95.9	636	91.0	521	97.4	462	104.5	474	130.5	479	172.8	412	125.3
→ MVT Occupant	592	64.7	569	63.4	535	65.0	432	61.8	358	66.9	346	78.3	372	102.5	384	138.5	337	102.5
→ MVT Motorcyclist	201	22.0	203	22.6	117	14.2	85	12.2	43	8.0	16	3.6	14	3.9	2	NA	3	NA
→ MVT Pedal Cyclist	15	1.6	21	2.3	8	NA	10	1.4	5	NA	4	NA	2	NA	1	NA	0	NA
→ MVT Pedestrian	88	9.6	116	12.9	80	9.7	75	10.7	67	12.5	68	15.4	48	13.2	42	15.1	42	12.8
→ MVT Other	3	NA	9	NA	6	NA	0	NA	6	NA	1	NA	3	NA	4	NA	2	NA
→ MVT Unspecified	47	5.1	45	5.0	43	5.2	34	4.9	42	7.9	27	6.1	35	9.6	46	16.6	28	8.5
All Pedal Cyclist	84	9.2	81	9.0	74	9.0	60	8.6	35	6.5	18	4.1	11	3.0	7	NA	2	NA
All Pedestrian	93	10.2	117	13.0	84	10.2	84	12.0	75	14.0	70	15.8	58	16.0	44	15.9	50	15.2
Other Transport	146	15.9	117	13.0	111	13.5	95	13.6	54	10.1	73	16.5	59	16.2	62	22.4	81	24.6
Firearm	57	6.2	35	3.9	23	2.8	24	3.4	8	NA	6	NA	2	NA	3	NA	7	NA
Drowning	4	NA	2	NA	1	NA	1	NA	1	NA	2	NA	3	NA	2	NA	0	NA
Suffocation	77	8.4	109	12.1	140	17.0	132	18.9	171	32.0	188	42.5	185	51.0	228	82.2	319	97.0
Fire/Flames	77	8.4	80	8.9	43	5.2	52	7.4	54	10.1	43	9.7	41	11.3	27	9.7	45	13.7
Hot Object/Scald	79	8.6	99	11.0	65	7.9	55	7.9	48	9.0	27	6.1	41	11.3	44	15.9	50	15.2
Cut/Pierce	284	31.0	214	23.8	145	17.6	121	17.3	72	13.5	55	12.4	50	13.8	42	15.1	52	15.8
Struck By/Against	383	41.8	362	40.3	253	30.8	184	26.3	150	28.0	170	38.4	190	52.3	218	78.6	330	100.4
Machinery	58	6.3	47	5.2	58	7.1	41	5.9	27	5.0	26	5.9	26	7.2	15	5.4	9	NA
Overexertion	191	20.9	183	20.4	166	20.2	162	23.2	154	28.8	143	32.3	159	43.8	193	69.6	215	65.4
Nat/Env. Causes	275	30.0	330	36.7	281	34.2	227	32.5	212	39.6	176	39.8	183	50.4	191	68.9	254	77.3
→ Bites and Stings	189	20.6	223	24.8	176	21.4	143	20.5	145	27.1	90	20.4	102	28.1	84	30.3	71	21.6
Other Spec./NEC	946	103.3	997	111.0	882	107.2	748	107.0	621	116.1	621	140.4	708	195.0	811	292.5	992	301.7
Unspecified	843	92.1	1,037	115.5	985	119.7	954	136.5	957	178.9	1,014	229.3	1,257	346.2	1,585	571.7	2,354	716.0
Total: All Mechanisms	8,780	958.9	9,592	1,068.0	8,640	1,050.3	8,024	1,147.9	7,805	1,458.8	8,749	1,978.6	11,634	3,204.1	15,527	5,600.8	26,055	7,925.1

NOTES: Data based on ICD-9-CM codes. Age-specific rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATION RATES: MALES

NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES MECHANISM BY INTENT, PENNSYLVANIA RESIDENTS, 2009

Injury Mechanism	Ages 0-4		Ages 5-9		Ages 10-14		Ages 15-19		Ages 20-24		Ages 25-29		Ages 30-34		Ages 35-39		Ages 40-44	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Fall	378	98.9	259	66.4	312	76.5	449	95.3	421	91.9	469	120.8	492	129.5	571	143.7	840	195.3
→ On same level	32	8.4	63	16.2	162	39.7	196	41.6	99	21.6	101	26.0	107	28.2	128	32.2	203	47.2
→ One level to another	288	75.4	145	37.2	88	21.6	136	28.9	200	43.6	212	54.6	245	64.5	281	70.7	381	88.6
→ Unspecified	58	15.2	51	13.1	62	15.2	117	24.8	122	26.6	156	40.2	140	36.9	162	40.8	256	59.5
Poisoning	146	38.2	32	8.2	50	12.3	466	98.9	764	166.7	733	188.7	642	169.0	677	170.3	828	192.5
→ Drug	93	24.3	19	4.9	29	7.1	422	89.6	696	151.9	677	174.3	583	153.5	608	153.0	708	164.6
→ Non-Drug	53	13.9	13	3.3	21	5.1	44	9.3	68	14.8	56	14.4	59	15.5	69	17.4	120	27.9
Motor Vehicle Traffic	86	22.5	136	34.9	187	45.8	722	153.3	927	202.3	653	168.1	477	125.6	500	125.8	542	126.0
→ MVT Occupant	40	10.5	39	10.0	52	12.7	537	114.0	634	138.4	425	109.4	309	81.3	288	72.5	299	69.5
→ MVT Motorcyclist	1	NA	6	NA	12	2.9	61	13.0	158	34.5	146	37.6	101	26.6	140	35.2	154	35.8
→ MVT Pedal Cyclist	1	NA	23	5.9	46	11.3	32	6.8	28	6.1	14	3.6	14	3.7	9	NA	16	3.7
→ MVT Pedestrian	43	11.3	66	16.9	72	17.6	51	10.8	63	13.7	44	11.3	30	7.9	36	9.1	40	9.3
→ MVT Other	0	NA	2	NA	1	NA	11	2.3	7	NA	3	NA	5	NA	5	NA	2	NA
→ MVT Unspecified	1	NA	0	NA	4	NA	30	6.4	37	8.1	21	5.4	18	4.7	22	5.5	31	7.2
All Pedal Cyclist	8	NA	67	17.2	160	39.2	97	20.6	77	16.8	51	13.1	41	10.8	40	10.1	55	12.8
All Pedestrian	46	12.0	68	17.4	74	18.1	55	11.7	67	14.6	53	13.6	31	8.2	41	10.3	44	10.2
Other Transport	15	3.9	25	6.4	93	22.8	188	39.9	152	33.2	125	32.2	85	22.4	107	26.9	97	22.6
Firearm	2	NA	1	NA	20	4.9	279	59.2	356	77.7	204	52.5	141	37.1	92	23.1	64	14.9
Drowning	18	4.7	2	NA	1	NA	7	NA	1	NA	1	NA	1	NA	2	NA	4	NA
Suffocation	31	8.1	6	NA	4	NA	17	3.6	32	7.0	19	4.9	29	7.6	17	4.3	32	7.4
Fire/Flames	17	4.4	17	4.4	19	4.7	35	7.4	34	7.4	41	10.6	23	6.1	49	12.3	39	9.1
Hot Object/Scald	153	40.0	22	5.6	16	3.9	15	3.2	28	6.1	23	5.9	25	6.6	30	7.5	38	8.8
Cut/Pierce	23	6.0	22	5.6	35	8.6	215	45.7	340	74.2	265	68.2	228	60.0	188	47.3	222	51.6
Struck By/Against	58	15.2	69	17.7	176	43.1	434	92.1	442	96.5	324	83.4	263	69.2	251	63.2	247	57.4
Machinery	7	NA	7	NA	5	NA	20	4.2	36	7.9	42	10.8	41	10.8	36	9.1	55	12.8
Overexertion	6	NA	4	NA	21	5.1	66	14.0	43	9.4	47	12.1	52	13.7	75	18.9	78	18.1
Nat/Env. Causes	92	24.1	48	12.3	43	10.5	50	10.6	61	13.3	67	17.3	62	16.3	86	21.6	130	30.2
→ Bites and Stings	72	18.8	36	9.2	31	7.6	35	7.4	35	7.6	52	13.4	46	12.1	64	16.1	96	22.3
Other Spec./NEC	174	45.5	53	13.6	121	29.7	267	56.7	402	87.7	400	103.0	395	104.0	408	102.7	610	141.8
Unspecified	140	36.6	44	11.3	77	18.9	192	40.8	242	52.8	274	70.6	249	65.5	320	80.5	375	87.2
Total: All Mechanisms	1,356	354.8	793	203.4	1,296	317.6	3,491	741.2	4,334	945.8	3,733	961.2	3,233	851.1	3,445	866.8	4,244	986.9

NOTES: Data based on ICD-9-CM codes. Age-specific rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATION RATES: MALES

NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES MECHANISM BY INTENT, PENNSYLVANIA RESIDENTS, 2009

Injury Mechanism	Ages 45-49		Ages 50-54		Ages 55-59		Ages 60-64		Ages 65-69		Ages 70-74		Ages 75-79		Ages 80-84		Ages 85+	
	No.	Rate																
Fall	1,279	283.2	1,684	383.4	1,708	429.4	1,675	503.3	1,797	728.5	2,046	1,051.1	2,771	1,857.2	3,599	3,420.8	5,353	5,082.4
→ On same level	297	65.8	404	92.0	431	108.4	446	134.0	495	200.7	613	314.9	836	560.3	1,070	1,017.0	1,611	1,529.6
→ One level to another	527	116.7	619	140.9	606	152.4	506	152.0	486	197.0	490	251.7	588	394.1	722	686.3	941	893.4
→ Unspecified	455	100.8	661	150.5	671	168.7	723	217.2	816	330.8	943	484.4	1,347	902.8	1,807	1,717.5	2,801	2,659.4
Poisoning	1,047	231.9	944	214.9	602	151.3	358	107.6	191	77.4	142	72.9	135	90.5	119	113.1	123	116.8
→ Drug	898	198.9	807	183.7	523	131.5	298	89.5	143	58.0	114	58.6	112	75.1	102	96.9	99	94.0
→ Non-Drug	149	33.0	137	31.2	79	19.9	60	18.0	48	19.5	28	14.4	23	15.4	17	16.2	24	22.8
Motor Vehicle Traffic	631	139.7	591	134.5	491	123.4	343	103.1	283	114.7	208	106.9	223	149.5	207	196.8	175	166.2
→ MVT Occupant	357	79.1	300	68.3	298	74.9	211	63.4	178	72.2	151	77.6	167	111.9	164	155.9	144	136.7
→ MVT Motorcyclist	169	37.4	180	41.0	100	25.1	79	23.7	40	16.2	16	8.2	12	8.0	1	NA	3	NA
→ MVT Pedal Cyclist	12	2.7	20	4.6	6	NA	7	NA	5	NA	3	NA	2	NA	1	NA	0	NA
→ MVT Pedestrian	59	13.1	63	14.3	54	13.6	29	8.7	33	13.4	25	12.8	23	15.4	17	16.2	15	14.2
→ MVT Other	3	NA	5	NA	6	NA	0	NA	6	NA	1	NA	3	NA	1	NA	1	NA
→ MVT Unspecified	31	6.9	23	5.2	27	6.8	17	5.1	21	8.5	12	6.2	16	10.7	23	21.9	12	11.4
All Pedal Cyclist	67	14.8	66	15.0	56	14.1	46	13.8	26	10.5	11	5.7	11	7.4	6	NA	1	NA
All Pedestrian	64	14.2	64	14.6	57	14.3	33	9.9	38	15.4	26	13.4	28	18.8	18	17.1	21	19.9
Other Transport	97	21.5	74	16.8	65	16.3	56	16.8	31	12.6	40	20.5	26	17.4	30	28.5	34	32.3
Firearm	45	10.0	32	7.3	16	4.0	23	6.9	5	NA	6	NA	2	NA	2	NA	7	NA
Drowning	1	NA	1	NA	1	NA	1	NA	0	NA	1	NA	3	NA	0	NA	0	NA
Suffocation	42	9.3	64	14.6	76	19.1	86	25.8	89	36.1	103	52.9	88	59.0	127	120.7	128	121.5
Fire/Flames	55	12.2	54	12.3	26	6.5	31	9.3	36	14.6	24	12.3	21	14.1	14	13.3	18	17.1
Hot Object/Scald	47	10.4	58	13.2	41	10.3	27	8.1	23	9.3	11	5.7	20	13.4	13	12.4	12	11.4
Cut/Pierce	201	44.5	149	33.9	102	25.6	85	25.5	49	19.9	36	18.5	36	24.1	21	20.0	20	19.0
Struck By/Against	305	67.5	287	65.3	173	43.5	131	39.4	87	35.3	87	44.7	75	50.3	66	62.7	76	72.2
Machinery	47	10.4	43	9.8	46	11.6	35	10.5	22	8.9	25	12.8	24	16.1	12	11.4	7	NA
Overexertion	110	24.4	100	22.8	84	21.1	71	21.3	58	23.5	59	30.3	56	37.5	48	45.6	57	54.1
Nat/Env. Causes	141	31.2	176	40.1	152	38.2	97	29.1	101	40.9	84	43.2	67	44.9	79	75.1	89	84.5
→ Bites and Stings	83	18.4	106	24.1	81	20.4	53	15.9	62	25.1	37	19.0	32	21.4	35	33.3	20	19.0
Other Spec./NEC	630	139.5	666	151.6	577	145.1	492	147.8	357	144.7	329	169.0	364	244.0	357	339.3	373	354.1
Unspecified	516	114.3	639	145.5	548	137.8	521	156.5	485	196.6	528	271.2	573	384.0	660	627.3	823	781.4
Total: All Mechanisms	5,254	1,163.5	5,609	1,276.9	4,761	1,196.9	4,075	1,224.4	3,640	1,475.7	3,738	1,920.3	4,498	3,014.7	5,360	5,094.6	7,302	6,932.9

NOTES: Data based on ICD-9-CM codes. Age-specific rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATION RATES: FEMALES

NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES MECHANISM BY INTENT, PENNSYLVANIA RESIDENTS, 2009

Injury Mechanism	Ages 0-4		Ages 5-9		Ages 10-14		Ages 15-19		Ages 20-24		Ages 25-29		Ages 30-34		Ages 35-39		Ages 40-44	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Fall	268	73.5	161	43.2	144	36.7	207	44.4	294	66.1	304	82.4	351	94.7	451	112.8	651	148.6
→ On same level	17	4.7	34	9.1	57	14.5	74	15.9	88	19.8	101	27.4	128	34.5	158	39.5	213	48.6
→ One level to another	205	56.2	87	23.3	57	14.5	87	18.7	114	25.6	111	30.1	117	31.6	153	38.3	201	45.9
→ Unspecified	46	12.6	40	10.7	30	7.6	46	9.9	92	20.7	92	25.0	106	28.6	140	35.0	237	54.1
Poisoning	93	25.5	30	8.0	102	26.0	656	140.8	785	176.5	780	211.5	687	185.3	785	196.4	857	195.6
→ Drug	55	15.1	18	4.8	95	24.2	625	134.1	746	167.7	736	199.6	649	175.0	733	183.4	791	180.5
→ Non-Drug	38	10.4	12	3.2	7	NA	31	6.7	39	8.8	44	11.9	38	10.2	52	13.0	66	15.1
Motor Vehicle Traffic	27	7.4	76	20.4	105	26.8	483	103.6	512	115.1	336	91.1	284	76.6	251	62.8	300	68.5
→ MVT Occupant	20	5.5	33	8.9	57	14.5	390	83.7	415	93.3	261	70.8	218	58.8	181	45.3	201	45.9
→ MVT Motorcyclist	0	NA	3	NA	4	NA	5	NA	21	4.7	13	3.5	20	5.4	20	5.0	41	9.4
→ MVT Pedal Cyclist	1	NA	6	NA	4	NA	9	NA	9	NA	6	NA	6	NA	3	NA	3	NA
→ MVT Pedestrian	6	NA	33	8.9	36	9.2	50	10.7	30	6.7	29	7.9	18	4.9	23	5.8	25	5.7
→ MVT Other	0	NA	1	NA	3	NA	2	NA	0	NA	4	NA	0	NA	2	NA	3	NA
→ MVT Unspecified	0	NA	0	NA	1	NA	27	5.8	37	8.3	23	6.2	22	5.9	22	5.5	27	6.2
All Pedal Cyclist	2	NA	33	8.9	30	7.6	21	4.5	19	4.3	15	4.1	14	3.8	8	NA	13	3.0
All Pedestrian	12	3.3	34	9.1	38	9.7	54	11.6	32	7.2	33	8.9	19	5.1	23	5.8	26	5.9
Other Transport	4	NA	18	4.8	41	10.4	62	13.3	38	8.5	36	9.8	19	5.1	37	9.3	38	8.7
Firearm	0	NA	1	NA	1	NA	13	2.8	26	5.8	24	6.5	17	4.6	9	NA	6	NA
Drowning	9	NA	2	NA	1	NA	1	NA	0	NA	0	NA	1	NA	1	NA	0	NA
Suffocation	25	6.9	4	NA	3	NA	10	2.1	13	2.9	12	3.3	10	2.7	17	4.3	27	6.2
Fire/Flames	14	3.8	1	NA	4	NA	9	NA	14	3.1	8	NA	17	4.6	6	NA	23	5.2
Hot Object/Scald	121	33.2	22	5.9	16	4.1	11	2.4	21	4.7	22	6.0	21	5.7	18	4.5	24	5.5
Cut/Pierce	8	NA	12	3.2	42	10.7	137	29.4	154	34.6	100	27.1	82	22.1	77	19.3	90	20.5
Struck By/Against	35	9.6	35	9.4	38	9.7	111	23.8	99	22.3	74	20.1	48	12.9	70	17.5	57	13.0
Machinery	3	NA	1	NA	1	NA	2	NA	2	NA	2	NA	1	NA	3	NA	4	NA
Overexertion	1	NA	2	NA	21	5.4	17	3.6	31	7.0	37	10.0	41	11.1	49	12.3	44	10.0
Nat/Env. Causes	83	22.8	43	11.5	25	6.4	58	12.4	59	13.3	56	15.2	71	19.1	75	18.8	105	24.0
→ Bites and Stings	66	18.1	36	9.7	17	4.3	43	9.2	50	11.2	53	14.4	56	15.1	61	15.3	90	20.5
Other Spec./NEC	161	44.1	43	11.5	49	12.5	127	27.3	198	44.5	196	53.2	160	43.1	214	53.5	259	59.1
Unspecified	89	24.4	36	9.7	33	8.4	85	18.2	124	27.9	155	42.0	153	41.3	179	44.8	240	54.8
Total: All Mechanisms	948	259.9	515	138.1	654	166.7	2,005	430.3	2,382	535.6	2,155	584.4	1,972	531.8	2,247	562.2	2,736	624.4

NOTES: Data based on ICD-9-CM codes. Age-specific rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATION RATES: FEMALES

NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES MECHANISM BY INTENT, PENNSYLVANIA RESIDENTS, 2009

Injury Mechanism	Ages 45-49		Ages 50-54		Ages 55-59		Ages 60-64		Ages 65-69		Ages 70-74		Ages 75-79		Ages 80-84		Ages 85+	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Fall	918	197.8	1,398	304.6	1,763	414.9	2,161	590.1	2,426	841.3	3,322	1,342.1	5,096	2,382.5	7,675	4,461.7	15,213	6,808.5
→ On same level	291	62.7	478	104.2	625	147.1	797	217.6	845	293.0	1,182	477.5	1,706	797.6	2,606	1,514.9	4,853	2,171.9
→ One level to another	281	60.6	415	90.4	436	102.6	516	140.9	555	192.5	670	270.7	1,007	470.8	1,318	766.2	2,447	1,095.1
→ Unspecified	346	74.6	505	110.0	702	165.2	848	231.6	1,026	355.8	1,470	593.9	2,383	1,114.1	3,751	2,180.6	7,913	3,541.4
Poisoning	1,093	235.5	930	202.7	555	130.6	338	92.3	303	105.1	217	87.7	233	108.9	224	130.2	235	105.2
→ Drug	1,000	215.5	851	185.4	505	118.9	313	85.5	273	94.7	192	77.6	202	94.4	197	114.5	195	87.3
→ Non-Drug	93	20.0	79	17.2	50	11.8	25	6.8	30	10.4	25	10.1	31	14.5	27	15.7	40	17.9
Motor Vehicle Traffic	312	67.2	369	80.4	298	70.1	290	79.2	238	82.5	254	102.6	248	115.9	271	157.5	237	106.1
→ MVT Occupant	233	50.2	269	58.6	237	55.8	218	59.5	180	62.4	195	78.8	203	94.9	219	127.3	193	86.4
→ MVT Motorcyclist	32	6.9	22	4.8	17	4.0	6	NA	3	NA	0	NA	1	NA	1	NA	0	NA
→ MVT Pedal Cyclist	3	NA	1	NA	2	NA	3	NA	0	NA	1	NA	0	NA	0	NA	0	NA
→ MVT Pedestrian	29	6.2	51	11.1	26	6.1	46	12.6	34	11.8	43	17.4	25	11.7	25	14.5	27	12.1
→ MVT Other	0	NA	4	NA	0	NA	0	NA	0	NA	0	NA	0	NA	3	NA	1	NA
→ MVT Unspecified	15	3.2	22	4.8	16	3.8	17	4.6	21	7.3	15	6.1	19	8.9	23	13.4	16	7.2
All Pedal Cyclist	17	3.7	15	3.3	18	4.2	14	3.8	9	NA	7	NA	0	NA	1	NA	1	NA
All Pedestrian	29	6.2	51	11.1	27	6.4	51	13.9	37	12.8	44	17.8	30	14.0	26	15.1	29	13.0
Other Transport	48	10.3	43	9.4	46	10.8	39	10.6	23	8.0	33	13.3	33	15.4	32	18.6	47	21.0
Firearm	12	2.6	3	NA	7	NA	1	NA	3	NA	0	NA	0	NA	1	NA	0	NA
Drowning	3	NA	1	NA	0	NA	0	NA	1	NA	1	NA	0	NA	2	NA	0	NA
Suffocation	35	7.5	45	9.8	64	15.1	46	12.6	82	28.4	84	33.9	97	45.3	101	58.7	191	85.5
Fire/Flames	22	4.7	25	5.4	17	4.0	21	5.7	18	6.2	19	7.7	20	9.4	13	7.6	27	12.1
Hot Object/Scald	32	6.9	41	8.9	24	5.6	28	7.6	25	8.7	16	6.5	21	9.8	31	18.0	38	17.0
Cut/Pierce	83	17.9	65	14.2	43	10.1	35	9.6	23	8.0	19	7.7	14	6.5	21	12.2	32	14.3
Struck By/Against	77	16.6	75	16.3	80	18.8	53	14.5	63	21.8	83	33.5	115	53.8	152	88.4	254	113.7
Machinery	11	2.4	4	NA	12	2.8	6	NA	5	NA	1	NA	2	NA	3	NA	2	NA
Overexertion	81	17.5	83	18.1	82	19.3	91	24.8	96	33.3	84	33.9	103	48.2	145	84.3	158	70.7
Nat/Env. Causes	134	28.9	154	33.6	129	30.4	130	35.5	111	38.5	92	37.2	116	54.2	112	65.1	165	73.8
→ Bites and Stings	106	22.8	117	25.5	95	22.4	90	24.6	83	28.8	53	21.4	70	32.7	49	28.5	51	22.8
Other Spec./NEC	316	68.1	331	72.1	305	71.8	256	69.9	264	91.6	292	118.0	344	160.8	454	263.9	619	277.0
Unspecified	327	70.5	398	86.7	437	102.9	433	118.2	472	163.7	486	196.4	683	319.3	925	537.7	1,531	685.2
Total: All Mechanisms	3,518	758.1	3,979	867.1	3,879	913.0	3,944	1,077.0	4,165	1,444.4	5,010	2,024.1	7,130	3,333.4	10,164	5,908.6	18,752	8,392.3

NOTES: Data based on ICD-9-CM codes. Age-specific rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATION RATES: WHITE MALES

NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES MECHANISM BY INTENT, PENNSYLVANIA RESIDENTS, 2009

Injury Mechanism	Ages 0-4		Ages 5-9		Ages 10-14		Ages 15-19		Ages 20-24		Ages 25-29		Ages 30-34		Ages 35-39		Ages 40-44	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Fall	231	74.9	178	56.3	233	70.0	347	89.9	295	78.5	352	110.5	357	113.2	428	127.3	656	177.0
→ On same level	26	8.4	50	15.8	123	37.0	164	42.5	73	19.4	73	22.9	83	26.3	101	30.0	163	44.0
→ One level to another	176	57.1	88	27.8	70	21.0	98	25.4	145	38.6	167	52.4	173	54.8	218	64.8	298	80.4
→ Unspecified	29	9.4	40	12.6	40	12.0	85	22.0	77	20.5	112	35.1	101	32.0	109	32.4	195	52.6
Poisoning	82	26.6	20	6.3	28	8.4	360	93.2	601	159.9	579	181.7	493	156.3	503	149.6	555	149.8
→ Drug	54	17.5	12	3.8	17	5.1	332	86.0	561	149.3	538	168.8	450	142.7	452	134.4	480	129.5
→ Non-Drug	28	9.1	8	NA	11	3.3	28	7.3	40	10.6	41	12.9	43	13.6	51	15.2	75	20.2
Motor Vehicle Traffic	32	10.4	65	20.6	113	34.0	570	147.6	691	183.9	492	154.4	326	103.3	364	108.2	433	116.8
→ MVT Occupant	18	5.8	26	8.2	36	10.8	440	113.9	490	130.4	333	104.5	220	69.7	220	65.4	241	65.0
→ MVT Motorcyclist	1	NA	5	NA	8	NA	49	12.7	117	31.1	106	33.3	70	22.2	104	30.9	130	35.1
→ MVT Pedal Cyclist	0	NA	13	4.1	32	9.6	24	6.2	21	5.6	11	3.5	5	NA	5	NA	13	3.5
→ MVT Pedestrian	13	4.2	20	6.3	34	10.2	28	7.3	38	10.1	25	7.8	17	5.4	15	4.5	23	6.2
→ MVT Other	0	NA	1	NA	0	NA	8	NA	3	NA	1	NA	3	NA	4	NA	2	NA
→ MVT Unspecified	0	NA	0	NA	3	NA	21	5.4	22	5.9	16	5.0	11	3.5	16	4.8	24	6.5
All Pedal Cyclist	3	NA	43	13.6	124	37.3	76	19.7	57	15.2	41	12.9	25	7.9	31	9.2	47	12.7
All Pedestrian	15	4.9	20	6.3	35	10.5	30	7.8	42	11.2	32	10.0	18	5.7	17	5.1	27	7.3
Other Transport	14	4.5	23	7.3	86	25.8	168	43.5	135	35.9	112	35.1	77	24.4	98	29.1	88	23.7
Firearm	0	NA	0	NA	4	NA	30	7.8	56	14.9	39	12.2	29	9.2	26	7.7	20	5.4
Drowning	13	4.2	0	NA	1	NA	5	NA	0	NA	0	NA	1	NA	2	NA	3	NA
Suffocation	15	4.9	4	NA	3	NA	12	3.1	27	7.2	16	5.0	21	6.7	15	4.5	28	7.6
Fire/Flames	6	NA	11	3.5	14	4.2	26	6.7	25	6.7	32	10.0	17	5.4	40	11.9	28	7.6
Hot Object/Scald	55	17.8	12	3.8	9	NA	8	NA	20	5.3	18	5.6	18	5.7	18	5.4	23	6.2
Cut/Pierce	13	4.2	12	3.8	22	6.6	118	30.6	213	56.7	174	54.6	149	47.2	129	38.4	146	39.4
Struck By/Against	29	9.4	40	12.6	119	35.8	267	69.1	284	75.6	206	64.6	151	47.9	134	39.8	169	45.6
Machinery	6	NA	7	NA	4	NA	18	4.7	26	6.9	33	10.4	31	9.8	29	8.6	45	12.1
Overexertion	4	NA	4	NA	16	4.8	48	12.4	30	8.0	33	10.4	36	11.4	55	16.4	60	16.2
Nat/Env. Causes	55	17.8	38	12.0	29	8.7	35	9.1	43	11.4	54	16.9	42	13.3	67	19.9	94	25.4
→ Bites and Stings	44	14.3	26	8.2	18	5.4	25	6.5	26	6.9	41	12.9	32	10.1	51	15.2	70	18.9
Other Spec./NEC	89	28.9	38	12.0	82	24.6	175	45.3	260	69.2	265	83.2	239	75.8	255	75.8	426	115.0
Unspecified	76	24.6	28	8.9	48	14.4	130	33.7	157	41.8	203	63.7	167	52.9	231	68.7	254	68.5
Total: All Mechanisms	725	235.1	510	161.3	904	271.6	2,371	613.9	2,903	772.4	2,645	830.1	2,175	689.5	2,422	720.2	3,066	827.3

NOTES: Data based on ICD-9-CM codes. Age-specific rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATION RATES: WHITE MALES

NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES MECHANISM BY INTENT, PENNSYLVANIA RESIDENTS, 2009

Injury Mechanism	Ages 45-49		Ages 50-54		Ages 55-59		Ages 60-64		Ages 65-69		Ages 70-74		Ages 75-79		Ages 80-84		Ages 85+	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Fall	984	248.3	1,335	341.2	1,372	382.7	1,407	465.3	1,547	682.4	1,799	1,003.0	2,508	1,814.3	3,317	3,404.7	4,993	5,149.1
→ On same level	231	58.3	331	84.6	349	97.3	376	124.4	434	191.4	548	305.5	762	551.2	1,004	1,030.5	1,522	1,569.6
→ One level to another	410	103.5	491	125.5	493	137.5	414	136.9	423	186.6	431	240.3	520	376.2	658	675.4	853	879.7
→ Unspecified	343	86.6	513	131.1	530	147.8	617	204.1	690	304.4	820	457.2	1,226	886.9	1,655	1,698.7	2,618	2,699.9
Poisoning	674	170.1	597	152.6	384	107.1	235	77.7	134	59.1	112	62.4	110	79.6	96	98.5	111	114.5
→ Drug	574	144.9	518	132.4	339	94.6	195	64.5	102	45.0	91	50.7	92	66.6	84	86.2	90	92.8
→ Non-Drug	100	25.2	79	20.2	45	12.6	40	13.2	32	14.1	21	11.7	18	13.0	12	12.3	21	21.7
Motor Vehicle Traffic	498	125.7	482	123.2	414	115.5	293	96.9	240	105.9	182	101.5	201	145.4	188	193.0	158	162.9
→ MVT Occupant	285	71.9	239	61.1	254	70.8	177	58.5	152	67.0	138	76.9	150	108.5	151	155.0	131	135.1
→ MVT Motorcyclist	144	36.3	162	41.4	95	26.5	74	24.5	38	16.8	16	8.9	12	8.7	1	NA	2	NA
→ MVT Pedal Cyclist	8	NA	13	3.3	3	NA	6	NA	4	NA	3	NA	2	NA	1	NA	0	NA
→ MVT Pedestrian	31	7.8	45	11.5	36	10.0	19	6.3	23	10.1	13	7.2	19	13.7	13	13.3	13	13.4
→ MVT Other	3	NA	4	NA	4	NA	0	NA	5	NA	1	NA	2	NA	1	NA	1	NA
→ MVT Unspecified	27	6.8	19	4.9	22	6.1	17	5.6	18	7.9	11	6.1	16	11.6	21	21.6	11	11.3
All Pedal Cyclist	50	12.6	51	13.0	44	12.3	38	12.6	23	10.1	9	NA	11	8.0	4	NA	1	NA
All Pedestrian	35	8.8	46	11.8	38	10.6	23	7.6	26	11.5	14	7.8	23	16.6	14	14.4	17	17.5
Other Transport	88	22.2	64	16.4	60	16.7	54	17.9	28	12.4	39	21.7	24	17.4	28	28.7	33	34.0
Firearm	16	4.0	18	4.6	7	NA	14	4.6	3	NA	4	NA	2	NA	2	NA	2	NA
Drowning	1	NA	1	NA	1	NA	1	NA	0	NA	1	NA	3	NA	0	NA	0	NA
Suffocation	36	9.1	49	12.5	69	19.2	71	23.5	72	31.8	82	45.7	83	60.0	116	119.1	116	119.6
Fire/Flames	40	10.1	42	10.7	20	5.6	22	7.3	31	13.7	20	11.2	18	13.0	11	11.3	15	15.5
Hot Object/Scald	38	9.6	40	10.2	33	9.2	19	6.3	21	9.3	10	5.6	16	11.6	10	10.3	11	11.3
Cut/Pierce	142	35.8	112	28.6	75	20.9	65	21.5	42	18.5	34	19.0	31	22.4	20	20.5	20	20.6
Struck By/Against	178	44.9	179	45.7	124	34.6	105	34.7	74	32.6	76	42.4	65	47.0	61	62.6	62	63.9
Machinery	36	9.1	38	9.7	40	11.2	33	10.9	17	7.5	22	12.3	23	16.6	12	12.3	7	NA
Overexertion	81	20.4	77	19.7	64	17.9	61	20.2	52	22.9	55	30.7	51	36.9	45	46.2	55	56.7
Nat/Env. Causes	112	28.3	143	36.5	115	32.1	82	27.1	87	38.4	65	36.2	52	37.6	59	60.6	70	72.2
→ Bites and Stings	66	16.7	100	25.6	69	19.2	47	15.5	60	26.5	36	20.1	29	21.0	29	29.8	19	19.6
Other Spec./NEC	466	117.6	503	128.6	454	126.6	394	130.3	294	129.7	266	148.3	314	227.1	309	317.2	335	345.5
Unspecified	359	90.6	464	118.6	424	118.3	417	137.9	409	180.4	448	249.8	498	360.3	589	604.6	757	780.7
Total: All Mechanisms	3,795	957.8	4,183	1,069.1	3,699	1,031.8	3,309	1,094.4	3,073	1,355.5	3,222	1,796.4	4,012	2,902.3	4,867	4,995.6	6,750	6,961.1

NOTES: Data based on ICD-9-CM codes. Age-specific rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATION RATES: WHITE FEMALES

NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES MECHANISM BY INTENT, PENNSYLVANIA RESIDENTS, 2009

Injury Mechanism	Ages 0-4		Ages 5-9		Ages 10-14		Ages 15-19		Ages 20-24		Ages 25-29		Ages 30-34		Ages 35-39		Ages 40-44	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Fall	160	54.5	110	36.5	102	32.0	141	36.8	197	54.0	206	68.4	259	84.9	335	100.2	476	127.5
→ On same level	13	4.4	24	8.0	46	14.4	48	12.5	61	16.7	70	23.3	103	33.8	116	34.7	150	40.2
→ One level to another	124	42.3	59	19.6	34	10.7	62	16.2	73	20.0	74	24.6	77	25.2	122	36.5	148	39.6
→ Unspecified	23	7.8	27	9.0	22	6.9	31	8.1	63	17.3	62	20.6	79	25.9	97	29.0	178	47.7
Poisoning	57	19.4	12	4.0	61	19.1	500	130.5	610	167.3	624	207.3	532	174.4	613	183.4	645	172.8
→ Drug	40	13.6	7	NA	56	17.6	479	125.0	585	160.4	596	198.0	504	165.2	577	172.6	606	162.3
→ Non-Drug	17	5.8	5	NA	5	NA	21	5.5	25	6.9	28	9.3	28	9.2	36	10.8	39	10.4
Motor Vehicle Traffic	14	4.8	34	11.3	70	22.0	397	103.6	378	103.6	235	78.1	189	62.0	190	56.8	240	64.3
→ MVT Occupant	11	3.7	22	7.3	41	12.9	330	86.1	310	85.0	181	60.1	140	45.9	140	41.9	165	44.2
→ MVT Motorcyclist	0	NA	0	NA	2	NA	4	NA	15	4.1	12	4.0	18	5.9	13	3.9	37	9.9
→ MVT Pedal Cyclist	0	NA	4	NA	3	NA	7	NA	8	NA	6	NA	5	NA	2	NA	2	NA
→ MVT Pedestrian	3	NA	7	NA	20	6.3	32	8.4	17	4.7	18	6.0	10	3.3	13	3.9	12	3.2
→ MVT Other	0	NA	1	NA	3	NA	2	NA	0	NA	3	NA	0	NA	2	NA	2	NA
→ MVT Unspecified	0	NA	0	NA	1	NA	22	5.7	28	7.7	15	5.0	16	5.2	20	6.0	22	5.9
All Pedal Cyclist	0	NA	22	7.3	26	8.2	16	4.2	16	4.4	13	4.3	10	3.3	7	NA	11	2.9
All Pedestrian	7	NA	7	NA	21	6.6	36	9.4	18	4.9	21	7.0	11	3.6	13	3.9	13	3.5
Other Transport	4	NA	17	5.6	41	12.9	55	14.4	33	9.0	30	10.0	17	5.6	33	9.9	35	9.4
Firearm	0	NA	1	NA	1	NA	4	NA	8	NA	16	5.3	5	NA	3	NA	3	NA
Drowning	5	NA	2	NA	0	NA	0	NA	0	NA	0	NA	0	NA	1	NA	0	NA
Suffocation	14	4.8	3	NA	1	NA	10	2.6	11	3.0	10	3.3	9	NA	11	3.3	19	5.1
Fire/Flames	8	NA	0	NA	4	NA	6	NA	10	2.7	6	NA	15	4.9	3	NA	17	4.6
Hot Object/Scald	44	15.0	11	3.6	8	NA	9	NA	18	4.9	11	3.7	11	3.6	12	3.6	16	4.3
Cut/Pierce	5	NA	7	NA	34	10.7	103	26.9	112	30.7	80	26.6	60	19.7	62	18.6	71	19.0
Struck By/Against	17	5.8	23	7.6	27	8.5	72	18.8	54	14.8	44	14.6	33	10.8	37	11.1	37	9.9
Machinery	2	NA	0	NA	0	NA	1	NA	2	NA	2	NA	1	NA	3	NA	4	NA
Overexertion	1	NA	1	NA	17	5.3	11	2.9	21	5.8	28	9.3	31	10.2	40	12.0	37	9.9
Nat/Env. Causes	56	19.1	26	8.6	17	5.3	37	9.7	47	12.9	47	15.6	62	20.3	59	17.7	89	23.8
→ Bites and Stings	45	15.3	22	7.3	11	3.5	26	6.8	40	11.0	45	14.9	51	16.7	49	14.7	75	20.1
Other Spec./NEC	73	24.9	22	7.3	29	9.1	92	24.0	148	40.6	135	44.8	112	36.7	167	50.0	186	49.8
Unspecified	45	15.3	23	7.6	20	6.3	57	14.9	72	19.7	110	36.5	102	33.4	126	37.7	174	46.6
Total: All Mechanisms	509	173.5	310	102.9	456	143.1	1,508	393.7	1,730	474.3	1,594	529.5	1,444	473.4	1,700	508.7	2,059	551.6

NOTES: Data based on ICD-9-CM codes. Age-specific rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATION RATES: WHITE FEMALES

NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES MECHANISM BY INTENT, PENNSYLVANIA RESIDENTS, 2009

Injury Mechanism	Ages 45-49		Ages 50-54		Ages 55-59		Ages 60-64		Ages 65-69		Ages 70-74		Ages 75-79		Ages 80-84		Ages 85+	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Fall	715	178.1	1,122	279.2	1,454	386.9	1,834	561.0	2,102	804.2	2,971	1,319.0	4,654	2,372.6	7,103	4,506.3	14,161	6,901.1
→ On same level	237	59.0	390	97.1	526	140.0	698	213.5	753	288.1	1,082	480.4	1,570	800.4	2,435	1,544.8	4,553	2,218.8
→ One level to another	214	53.3	326	81.1	364	96.9	438	134.0	471	180.2	584	259.3	905	461.4	1,211	768.3	2,241	1,092.1
→ Unspecified	264	65.8	406	101.0	564	150.1	698	213.5	878	335.9	1,305	579.4	2,179	1,110.9	3,457	2,193.2	7,367	3,590.2
Poisoning	848	211.3	726	180.7	437	116.3	266	81.4	245	93.7	185	82.1	198	100.9	199	126.2	206	100.4
→ Drug	779	194.1	671	167.0	397	105.6	248	75.9	221	84.6	163	72.4	174	88.7	175	111.0	168	81.9
→ Non-Drug	69	17.2	55	13.7	40	10.6	18	5.5	24	9.2	22	9.8	24	12.2	24	15.2	38	18.5
Motor Vehicle Traffic	250	62.3	287	71.4	230	61.2	242	74.0	198	75.8	218	96.8	227	115.7	245	155.4	214	104.3
→ MVT Occupant	191	47.6	223	55.5	187	49.8	187	57.2	157	60.1	169	75.0	189	96.4	200	126.9	174	84.8
→ MVT Motorcyclist	29	7.2	21	5.2	15	4.0	6	NA	3	NA	0	NA	1	NA	0	NA	0	NA
→ MVT Pedal Cyclist	3	NA	1	NA	0	NA	3	NA	0	NA	1	NA	0	NA	0	NA	0	NA
→ MVT Pedestrian	14	3.5	21	5.2	16	4.3	33	10.1	20	7.7	34	15.1	20	10.2	20	12.7	25	12.2
→ MVT Other	0	NA	3	NA	0	NA	0	NA	0	NA	0	NA	0	NA	2	NA	1	NA
→ MVT Unspecified	13	3.2	18	4.5	12	3.2	13	4.0	18	6.9	14	6.2	17	8.7	23	14.6	14	6.8
All Pedal Cyclist	14	3.5	12	3.0	13	3.5	13	4.0	9	NA	6	NA	0	NA	1	NA	1	NA
All Pedestrian	14	3.5	21	5.2	17	4.5	37	11.3	22	8.4	34	15.1	24	12.2	21	13.3	27	13.2
Other Transport	42	10.5	42	10.5	44	11.7	37	11.3	22	8.4	31	13.8	31	15.8	30	19.0	47	22.9
Firearm	9	NA	2	NA	5	NA	0	NA	1	NA	0	NA	0	NA	0	NA	0	NA
Drowning	3	NA	0	NA	0	NA	0	NA	1	NA	1	NA	0	NA	1	NA	0	NA
Suffocation	25	6.2	37	9.2	47	12.5	33	10.1	72	27.5	65	28.9	84	42.8	94	59.6	169	82.4
Fire/Flames	15	3.7	16	4.0	14	3.7	14	4.3	15	5.7	17	7.5	14	7.1	10	6.3	18	8.8
Hot Object/Scald	23	5.7	28	7.0	17	4.5	18	5.5	18	6.9	11	4.9	16	8.2	25	15.9	36	17.5
Cut/Pierce	64	15.9	47	11.7	34	9.0	23	7.0	20	7.7	17	7.5	13	6.6	21	13.3	30	14.6
Struck By/Against	54	13.5	57	14.2	57	15.2	45	13.8	49	18.7	79	35.1	109	55.6	145	92.0	244	118.9
Machinery	10	2.5	4	NA	10	2.7	5	NA	3	NA	1	NA	2	NA	3	NA	1	NA
Overexertion	71	17.7	73	18.2	69	18.4	75	22.9	88	33.7	80	35.5	93	47.4	142	90.1	155	75.5
Nat/Env. Causes	111	27.7	128	31.9	112	29.8	110	33.6	93	35.6	81	36.0	100	51.0	95	60.3	142	69.2
→ Bites and Stings	90	22.4	100	24.9	90	23.9	83	25.4	71	27.2	50	22.2	64	32.6	45	28.5	51	24.9
Other Spec./NEC	230	57.3	250	62.2	246	65.5	208	63.6	230	88.0	238	105.7	305	155.5	413	262.0	552	269.0
Unspecified	240	59.8	305	75.9	345	91.8	362	110.7	395	151.1	415	184.2	611	311.5	849	538.6	1,424	694.0
Total: All Mechanisms	2,721	677.9	3,135	780.1	3,135	834.1	3,286	1,005.2	3,563	1,363.2	4,415	1,960.1	6,461	3,293.8	9,377	5,949.0	17,402	8,480.5

NOTES: Data based on ICD-9-CM codes. Age-specific rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATION RATES: BLACK MALES

NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES MECHANISM BY INTENT, PENNSYLVANIA RESIDENTS, 2009

Injury Mechanism	Ages 0-4		Ages 5-9		Ages 10-14		Ages 15-19		Ages 20-24		Ages 25-29		Ages 30-34		Ages 35-39		Ages 40-44	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Fall	82	153.3	38	72.2	50	90.1	60	96.2	76	122.8	70	131.8	69	148.8	92	213.0	112	262.2
→ On same level	4	NA	4	NA	23	41.5	21	33.7	13	21.0	16	30.1	8	NA	17	39.4	24	56.2
→ One level to another	62	115.9	29	55.1	9	NA	18	28.8	33	53.3	24	45.2	40	86.3	38	88.0	49	114.7
→ Unspecified	16	29.9	5	NA	18	32.4	21	33.7	30	48.5	30	56.5	21	45.3	37	85.7	39	91.3
Poisoning	44	82.3	8	NA	9	NA	49	78.5	100	161.5	77	144.9	92	198.4	112	259.4	224	524.5
→ Drug	24	44.9	4	NA	5	NA	37	59.3	78	126.0	69	129.9	85	183.3	100	231.6	189	442.5
→ Non-Drug	20	37.4	4	NA	4	NA	12	19.2	22	35.5	8	NA	7	NA	12	27.8	35	82.0
Motor Vehicle Traffic	33	61.7	41	77.9	51	91.9	84	134.6	124	200.3	90	169.4	91	196.2	89	206.1	59	138.1
→ MVT Occupant	11	20.6	5	NA	10	18.0	50	80.1	73	117.9	49	92.2	55	118.6	43	99.6	34	79.6
→ MVT Motorcyclist	0	NA	1	NA	2	NA	6	NA	19	30.7	23	43.3	19	41.0	20	46.3	10	23.4
→ MVT Pedal Cyclist	1	NA	6	NA	12	21.6	6	NA	4	NA	1	NA	5	NA	3	NA	2	NA
→ MVT Pedestrian	20	37.4	29	55.1	26	46.9	15	24.0	19	30.7	14	26.4	6	NA	17	39.4	8	NA
→ MVT Other	0	NA	0	NA	1	NA	3	NA	2	NA	0	NA	2	NA	1	NA	0	NA
→ MVT Unspecified	1	NA	0	NA	0	NA	4	NA	7	NA	3	NA	4	NA	5	NA	5	NA
All Pedal Cyclist	3	NA	10	19.0	27	48.7	9	NA	8	NA	6	NA	11	23.7	5	NA	5	NA
All Pedestrian	20	37.4	29	55.1	27	48.7	17	27.2	19	30.7	16	30.1	6	NA	18	41.7	8	NA
Other Transport	0	NA	0	NA	0	NA	5	NA	4	NA	3	NA	2	NA	1	NA	3	NA
Firearm	2	NA	1	NA	14	25.2	218	349.4	261	421.6	135	254.1	85	183.3	54	125.0	33	77.3
Drowning	2	NA	1	NA	0	NA	1	NA	1	NA	0	NA	0	NA	0	NA	1	NA
Suffocation	10	18.7	1	NA	1	NA	4	NA	2	NA	2	NA	3	NA	2	NA	3	NA
Fire/Flames	7	NA	5	NA	5	NA	3	NA	1	NA	5	NA	2	NA	4	NA	6	NA
Hot Object/Scald	47	87.9	7	NA	5	NA	2	NA	2	NA	2	NA	5	NA	2	NA	8	NA
Cut/Pierce	7	NA	9	NA	9	NA	62	99.4	73	117.9	51	96.0	42	90.6	37	85.7	51	119.4
Struck By/Against	16	29.9	15	28.5	37	66.7	109	174.7	101	163.2	78	146.8	63	135.9	74	171.4	58	135.8
Machinery	0	NA	0	NA	0	NA	0	NA	4	NA	3	NA	2	NA	3	NA	4	NA
Overexertion	0	NA	0	NA	4	NA	11	17.6	9	NA	11	20.7	11	23.7	14	32.4	13	30.4
Nat/Env. Causes	22	41.1	5	NA	7	NA	14	22.4	13	21.0	3	NA	13	28.0	11	25.5	26	60.9
→ Bites and Stings	16	29.9	5	NA	6	NA	9	NA	5	NA	2	NA	10	21.6	5	NA	19	44.5
Other Spec./NEC	57	106.6	10	19.0	24	43.3	65	104.2	106	171.2	98	184.5	106	228.6	116	268.6	139	325.5
Unspecified	38	71.1	10	19.0	18	32.4	35	56.1	60	96.9	50	94.1	43	92.7	60	138.9	92	215.4
Total: All Mechanisms	369	690.0	155	294.4	250	450.7	727	1,165.2	941	1,520.1	685	1,289.3	635	1,369.4	674	1,560.8	835	1,955.1

NOTES: Data based on ICD-9-CM codes. Age-specific rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATION RATES: BLACK MALES

NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES MECHANISM BY INTENT, PENNSYLVANIA RESIDENTS, 2009

Injury Mechanism	Ages 45-49		Ages 50-54		Ages 55-59		Ages 60-64		Ages 65-69		Ages 70-74		Ages 75-79		Ages 80-84		Ages 85+	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Fall	197	473.9	246	674.6	217	732.5	186	820.8	164	1,105.8	145	1,248.6	150	1,752.1	122	1,971.6	139	2,069.1
→ On same level	44	105.9	50	137.1	53	178.9	48	211.8	39	263.0	39	335.8	44	514.0	33	533.3	37	550.8
→ One level to another	72	173.2	90	246.8	75	253.2	59	260.3	39	263.0	41	353.1	32	373.8	29	468.6	39	580.5
→ Unspecified	81	194.9	106	290.7	89	300.4	79	348.6	86	579.9	65	559.7	74	864.4	60	969.6	63	937.8
Poisoning	297	714.5	297	814.4	191	644.7	98	432.4	43	289.9	26	223.9	18	210.3	12	193.9	8	NA
→ Drug	259	623.1	248	680.0	165	557.0	85	375.1	30	202.3	20	172.2	14	163.5	9	NA	7	NA
→ Non-Drug	38	91.4	49	134.4	26	87.8	13	57.4	13	87.7	6	NA	4	NA	3	NA	1	NA
Motor Vehicle Traffic	83	199.7	67	183.7	46	155.3	37	163.3	24	161.8	12	103.3	15	175.2	6	NA	7	NA
→ MVT Occupant	42	101.0	37	101.5	27	91.1	24	105.9	14	94.4	4	NA	12	140.2	5	NA	7	NA
→ MVT Motorcyclist	13	31.3	9	NA	0	NA	4	NA	0	NA								
→ MVT Pedal Cyclist	4	NA	3	NA	3	NA	1	NA	0	NA								
→ MVT Pedestrian	22	52.9	15	41.1	15	50.6	8	NA	9	NA	7	NA	2	NA	1	NA	0	NA
→ MVT Other	0	NA	1	NA	0	NA	0	NA	1	NA	0	NA	1	NA	0	NA	0	NA
→ MVT Unspecified	2	NA	2	NA	1	NA	0	NA	0	NA	1	NA	0	NA	0	NA	0	NA
All Pedal Cyclist	8	NA	9	NA	10	33.8	5	NA	1	NA	1	NA	0	NA	1	NA	0	0.0
All Pedestrian	23	55.3	15	41.1	16	54.0	8	NA	10	67.4	7	NA	2	NA	1	NA	0	0.0
Other Transport	4	NA	1	NA	0	NA	2	NA	0	NA	0	NA	0	NA	1	NA	0	0.0
Firearm	25	60.1	13	35.6	6	NA	6	NA	1	NA	2	NA	0	NA	0	NA	4	NA
Drowning	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA
Suffocation	4	NA	11	30.2	6	NA	10	44.1	8	NA	14	120.6	2	NA	7	NA	9	NA
Fire/Flames	10	24.1	10	27.4	4	NA	5	NA	2	NA	1	NA	1	NA	2	NA	1	NA
Hot Object/Scald	6	NA	9	NA	3	NA	3	NA	1	NA	0	NA	3	NA	3	NA	1	NA
Cut/Pierce	43	103.4	25	68.6	21	70.9	11	48.5	4	NA	0	NA	2	NA	0	NA	0	NA
Struck By/Against	98	235.8	77	211.1	41	138.4	14	61.8	7	NA	8	NA	5	NA	2	NA	5	NA
Machinery	4	NA	3	NA	4	NA	0	NA	1	NA	2	NA	0	NA	0	NA	0	NA
Overexertion	18	43.3	16	43.9	11	37.1	4	NA	2	NA	3	NA	0	NA	3	NA	1	NA
Nat/Env. Causes	21	50.5	27	74.0	29	97.9	11	48.5	9	NA	14	120.6	9	NA	14	226.2	13	193.5
→ Bites and Stings	10	24.1	5	NA	7	NA	3	NA	1	NA	0	NA	0	NA	1	NA	0	NA
Other Spec./NEC	113	271.9	125	342.8	95	320.7	73	322.1	42	283.2	49	421.9	30	350.4	27	436.3	19	282.8
Unspecified	130	312.8	139	381.2	95	320.7	79	348.6	58	391.1	54	465.0	45	525.6	50	808.0	43	640.1
Total: All Mechanisms	1,058	2,545.3	1,072	2,939.6	777	2,622.9	543	2,396.1	368	2,481.3	331	2,850.3	280	3,270.6	250	4,040.1	250	3,721.3

NOTES: Data based on ICD-9-CM codes. Age-specific rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATION RATES: BLACK FEMALES

NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES MECHANISM BY INTENT, PENNSYLVANIA RESIDENTS, 2009

Injury Mechanism	Ages 0-4		Ages 5-9		Ages 10-14		Ages 15-19		Ages 20-24		Ages 25-29		Ages 30-34		Ages 35-39		Ages 40-44	
	No.	Rate																
Fall	59	113.4	26	51.2	23	42.8	45	73.5	59	98.3	66	128.8	58	122.0	74	157.6	125	259.4
→ On same level	2	NA	6	NA	7	NA	17	27.8	15	25.0	21	41.0	14	29.4	23	49.0	40	83.0
→ One level to another	46	88.4	13	25.6	14	26.1	15	24.5	26	43.3	23	44.9	26	54.7	21	44.7	37	76.8
→ Unspecified	11	21.1	7	NA	2	NA	13	21.2	18	30.0	22	42.9	18	37.9	30	63.9	48	99.6
Poisoning	21	40.4	10	19.7	18	33.5	93	151.9	98	163.2	95	185.4	87	182.9	116	247.0	152	315.5
→ Drug	7	NA	6	NA	17	31.7	86	140.5	88	146.5	85	165.9	81	170.3	102	217.2	131	271.9
→ Non-Drug	14	26.9	4	NA	1	NA	7	NA	10	16.7	10	19.5	6	NA	14	29.8	21	43.6
Motor Vehicle Traffic	7	NA	22	43.3	14	26.1	43	70.2	70	116.6	52	101.5	50	105.1	31	66.0	31	64.3
→ MVT Occupant	5	NA	2	NA	3	NA	27	44.1	56	93.3	38	74.1	39	82.0	19	40.5	18	37.4
→ MVT Motorcyclist	0	NA	1	NA	0	NA	0	NA	3	NA	1	NA	1	NA	3	NA	1	NA
→ MVT Pedal Cyclist	0	NA	2	NA	0	NA	1	NA	0	NA	0	NA	1	NA	1	NA	1	NA
→ MVT Pedestrian	2	NA	17	33.4	11	20.5	12	19.6	8	NA	6	NA	5	NA	8	NA	9	NA
→ MVT Other	0	NA	1	NA	0	NA	0	NA	1	NA								
→ MVT Unspecified	0	NA	0	NA	0	NA	3	NA	3	NA	6	NA	4	NA	0	NA	1	NA
All Pedal Cyclist	0	NA	9	NA	1	NA	2	NA	0	NA	0	NA	3	NA	1	NA	1	NA
All Pedestrian	4	NA	18	35.4	12	22.3	12	19.6	8	NA	6	NA	5	NA	8	NA	9	NA
Other Transport	0	NA	0	NA	0	NA	3	NA	3	NA	1	NA	0	NA	1	NA	1	NA
Firearm	0	NA	0	NA	0	NA	9	NA	14	23.3	5	NA	7	NA	4	NA	1	NA
Drowning	3	NA	0	NA	1	NA	0	NA	0	NA	0	NA	1	NA	0	NA	0	NA
Suffocation	8	NA	1	NA	1	NA	0	NA	1	NA	1	NA	1	NA	4	NA	5	NA
Fire/Flames	5	NA	1	NA	0	NA	3	NA	3	NA	0	NA	1	NA	3	NA	5	NA
Hot Object/Scald	33	63.4	7	NA	3	NA	1	NA	2	NA	8	NA	7	NA	2	NA	5	NA
Cut/Pierce	2	NA	5	NA	3	NA	21	34.3	25	41.6	11	21.5	14	29.4	11	23.4	12	24.9
Struck By/Against	8	NA	6	NA	7	NA	29	47.4	30	50.0	21	41.0	12	25.2	27	57.5	17	35.3
Machinery	1	NA	0	NA	1	NA	0	NA										
Overexertion	0	NA	0	NA	2	NA	6	NA	6	NA	4	NA	6	NA	5	NA	5	NA
Nat/Env. Causes	19	36.5	10	19.7	7	NA	16	26.1	11	18.3	7	NA	4	NA	13	27.7	15	31.1
→ Bites and Stings	15	28.8	8	NA	5	NA	12	19.6	9	NA	6	NA	1	NA	10	21.3	14	29.1
Other Spec./NEC	54	103.8	13	25.6	18	33.5	21	34.3	39	64.9	48	93.7	38	79.9	30	63.9	52	107.9
Unspecified	28	53.8	10	19.7	10	18.6	18	29.4	38	63.3	32	62.4	34	71.5	39	83.0	58	120.4
Total: All Mechanisms	250	480.6	119	234.1	110	204.8	309	504.8	399	664.5	351	684.9	322	677.1	360	766.6	484	1,004.5

NOTES: Data based on ICD-9-CM codes. Age-specific rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATION RATES: BLACK FEMALES

NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES MECHANISM BY INTENT, PENNSYLVANIA RESIDENTS, 2009

Injury Mechanism	Ages 45-49		Ages 50-54		Ages 55-59		Ages 60-64		Ages 65-69		Ages 70-74		Ages 75-79		Ages 80-84		Ages 85+	
	No.	Rate																
Fall	142	295.1	204	458.9	213	557.6	207	674.1	186	873.6	192	1,056.0	238	1,600.6	255	2,092.6	515	3,373.5
→ On same level	37	76.9	60	135.0	71	185.9	58	188.9	47	220.7	57	313.5	78	524.6	74	607.3	151	989.1
→ One level to another	45	93.5	72	162.0	49	128.3	48	156.3	51	239.5	45	247.5	59	396.8	46	377.5	117	766.4
→ Unspecified	60	124.7	72	162.0	93	243.5	101	328.9	88	413.3	90	495.0	101	679.3	135	1,107.8	247	1,618.0
Poisoning	196	407.3	161	362.2	87	227.8	58	188.9	44	206.7	22	121.0	22	148.0	18	147.7	15	98.3
→ Drug	177	367.8	142	319.4	78	204.2	52	169.3	38	178.5	19	104.5	17	114.3	16	131.3	14	91.7
→ Non-Drug	19	39.5	19	42.7	9	NA	6	NA	6	NA	3	NA	5	NA	2	NA	1	NA
Motor Vehicle Traffic	38	79.0	57	128.2	44	115.2	29	94.4	24	112.7	15	82.5	9	NA	12	98.5	7	NA
→ MVT Occupant	27	56.1	31	69.7	31	81.2	16	52.1	15	70.4	11	60.5	8	NA	7	NA	5	NA
→ MVT Motorcyclist	0	NA	0	NA	1	NA	0	NA	0	NA	0	NA	0	NA	1	NA	0	NA
→ MVT Pedal Cyclist	0	NA																
→ MVT Pedestrian	9	NA	23	51.7	9	NA	10	32.6	7	NA	4	NA	1	NA	3	NA	2	NA
→ MVT Other	0	NA	1	NA	0	NA												
→ MVT Unspecified	2	NA	3	NA	3	NA	3	NA	2	NA	0	NA	0	NA	0	NA	0	NA
All Pedal Cyclist	2	NA	1	NA	2	NA	0	NA										
All Pedestrian	9	NA	23	51.7	9	NA	11	35.8	7	NA	5	NA	1	NA	3	NA	2	NA
Other Transport	2	NA	0	NA	1	NA	2	NA	0	NA	1	NA	1	NA	2	NA	0	NA
Firearm	3	NA	0	NA	1	NA	1	NA	2	NA	0	NA	0	NA	1	NA	0	NA
Drowning	0	NA																
Suffocation	6	NA	6	NA	11	28.8	12	39.1	7	NA	17	93.5	9	NA	4	NA	15	98.3
Fire/Flames	6	NA	9	NA	1	NA	5	NA	1	NA	2	NA	4	NA	0	NA	1	NA
Hot Object/Scald	9	NA	10	22.5	5	NA	9	NA	6	NA	4	NA	2	NA	2	NA	2	NA
Cut/Pierce	15	31.2	11	24.7	5	NA	6	NA	3	NA	1	NA	0	NA	0	NA	0	NA
Struck By/Against	18	37.4	15	33.7	16	41.9	7	NA	7	NA	2	NA	3	NA	3	NA	7	NA
Machinery	0	NA	0	NA	2	NA	0	NA	1	NA	0	NA	0	NA	0	NA	1	NA
Overexertion	7	NA	4	NA	7	NA	10	32.6	4	NA	2	NA	7	NA	2	NA	2	NA
Nat/Env. Causes	15	31.2	23	51.7	12	31.4	17	55.4	9	NA	6	NA	14	94.2	13	106.7	23	150.7
→ Bites and Stings	10	20.8	14	31.5	3	NA	6	NA	4	NA	1	NA	5	NA	2	NA	0	NA
Other Spec./NEC	58	120.5	71	159.7	45	117.8	38	123.8	24	112.7	37	203.5	24	161.4	22	180.5	43	281.7
Unspecified	72	149.6	81	182.2	71	185.9	49	159.6	49	230.1	36	198.0	48	322.8	49	402.1	69	452.0
Total: All Mechanisms	589	1,224.0	653	1,469.0	523	1,369.2	451	1,468.8	367	1,723.7	338	1,859.1	381	2,562.4	383	3,143.0	700	4,585.4

NOTES: Data based on ICD-9-CM codes. Age-specific rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Technical Notes

INJURY DEATHS

Data Source

Pennsylvania's Certificate of Death is the source document for the injury mortality data contained in this report. A copy of this certificate is available upon request. Death certificates are usually completed by hospital personnel, physicians and funeral directors.

There is a cut-off date of March 1 of the following year for compiling annual mortality files, e.g., the cut-off date for 2009 death certificates was March 1, 2010. Data pertaining to a 2009 death for which a certificate was filed after the March 1, 2010 deadline are not included in this report.

Files are updated on an annual basis after the cut-off date. Data from certificates received after a cut-off date or corrections to previously filed records are made at these times. Therefore, it is possible that injury mortality data previously obtained from or published by the Bureau of Health Statistics and Research may differ slightly from the data which appear in this report.

Deaths of Pennsylvania residents that occurred in another state are included in this report if copies of certificates were obtained by the cut-off date. The inclusion of these data are made possible by an agreement among all registration areas in the United States for resident exchange of copies of death certificates.

Data Quality

The Bureau of Health Statistics and Research maintains query and field programs for improving the quality of data collected on death certificates.

A query program is a system used to follow back with hospital personnel, funeral directors and physicians concerning incomplete or conflicting information reported on the certificate. The follow-back contact is usually done by telephone and is based on both manual and computer editing procedures. The field program attempts to improve death certificate information by educating the participants in the death registration system of the uses and importance of mortality data. The field program completes this mission by conducting seminars with various associations representing the types of persons mentioned above. In addition to regularly scheduled seminars, the field representatives make site visits when problems with registration relating to a particular area or institution are discovered.

The National Center for Health Statistics (NCHS) monitors Pennsylvania's coding of statistical data on death certificates. A 0.5 percent sample of death records coded and submitted monthly by the state is used as a quality control mechanism by NCHS. NCHS codes these sample records independently and then conducts an item-by-item computer match of codes entered by the state and NCHS. NCHS has established a 2 percent upper limit for coding differences involving any one data item of these sample records, with the exception of cause of death. A 5.0 percent limit is established for that item due to the complexity of the cause of death coding process.

Data Confidentiality

The confidentiality of death certificates is strictly maintained by the Bureau of Health Statistics and Research. All published and special reports of vital statistics contain only aggregated data. Individually identifiable information is only released, as provided for in Act 66, Vital Statistics Law of 1953, for health research purposes and to government agencies in pursuance of their official duties upon completion, review and approval of an application for access to protected data. Certified copies are also released to family members or legal representatives for determination of personal or property rights.

Injury Cause Definitions

Underlying cause of death is classified according to the tenth revision of the International Classification of Diseases (ICD-10). Current injury coding definitions are based on the *ICD-10 Framework for Injury Mortality Data – External Cause*, published by the National Center for Health Statistics. The list below shows the cause of death and corresponding ICD-10 codes used to classify resident deaths in this report.

INJURY CAUSE	ICD-10 CODES
<i>All Fatal Injuries</i>	V01-Y36, Y85-Y87, Y89, U01-U03
<i>Unintentional Injuries</i>	V01-X59, Y85-Y86
<i>Motor Vehicle Traffic</i>	V02-V04 (.1, .9), V09.2, V12-V14 (.3-.9), V19 (.4-.6), V20-V28 (.3-.9), V29 (.4-.9), V30-V79 (.4-.9), V80 (.3-.5), V81.1, V82.1, V83-V86 (.0-.3), V87 (.0-.8), V89.2
<i>Unintentional Falls</i>	W00-W19
<i>Poisoning</i>	X40-X49, X60-X69, X85-X90, Y10-Y19, Y35.2, U01 (.6,.7)
<i>Firearm-related</i>	W32-W34, X72-X74, X93-X95, Y22-Y24, Y35.0, U01.4
<i>Suicide</i>	X60-X84, Y87.0, U03
<i>Homicide</i>	X85-X99, Y00-Y09, Y87.1, U01-U02

Leading Causes of Injury Death: ICD-10 Codes

These are the injury definitions used in the rankings for leading causes of death.

UNINTENTIONAL INJURY

Falls – W00-W19

Poisoning – X60-X69

MVT – V02-V04 (.1, .9), V09.2, V12-V14 (.3-.9), V19 (.4-.6), V20-V28 (.3-.9), V29 (.4-.9), V30-V79 (.4-.9), V80 (.3-.5), V81.1, V82.1, V83-V86 (.0-.3), V87 (.0-.8), V89.2

Transport – V00-V99 (*all remaining) except for V90, V92

Firearm – W32-W34

Drowning – W65-W74, V90, V92

Suffocation – W75-W84

Fire/Flames – X00-X09

Burn/Scald – X10-X19

Cut/Pierce – W25-W29, W45

Struck By – W20-W22, W50-W52

Bite/Sting – W53-W59, X20-X27, X29

Overexertion – X50

SUICIDE (SELF-INFLICTED INJURY)

Poisoning – X60-X69

Firearm – X72-X74

Hanging – X70

Cut/Pierce – X78

HOMICIDE (ASSAULT INJURY)

Firearm – X93-X95, U01.4

Cut/Pierce – X99

Struck By – Y00, Y04

INJURY OF UNDETERMINED INTENT

Poisoning – Y10-Y19

INJURY HOSPITALIZATIONS

Source of Data

The Pennsylvania Health Care Cost Containment Council (PHC4) is the source for all injury hospitalization data in this report. This data, which includes hospital charge and treatment information, is collected on a quarterly basis and is then verified by PHC4 staff. Please see the PHC4 website www.phc4.org for more information.

The hospitalization injury data set used in this report is a sub-set of the entire inpatient hospitalization data set received from PHC4. The following steps are used to create the hospitalization injury data set:

1. The total hospitalization data set, when received, is grouped by quarter. The four quarters are combined to get a data set for the entire year.
2. A list of facilities in operation for each of the four quarters, also from PHC4, is created. For this report, only Specialty General Acute Care, Long Term Acute Care and General Acute Care Facilities are included.
3. The list of facilities is merged with the total hospitalization data set. Only hospitalizations of Pennsylvania residents treated at an acute facility are included.
4. The E-code field is searched. If invalid E-codes are found, the field is changed to a blank. If a location ecode (E849) is found, it is moved to a separate location field.
5. If there is no valid E-code in the E-code field, the primary and secondary diagnosis fields are searched for a valid E-code. The *first* valid E-code found in one of these diagnosis fields is moved to the E-code field.
6. All records with a valid E-code in the E-code field *or* a valid N-code in the primary diagnosis field are included in the hospitalization injury data set. See the chart below for inclusion and exclusion criteria for N-codes.

Include	Exclude
800–909.2	< 800
909.4,909.9	909.3, 909.5
910–994.9	995.0–995.4
995.5–995.59	995.6–995.7
995.80–995.85	995.86,995.89
	995.90–995.94
	996–999

Data Confidentiality

The confidentiality of hospitalization discharge records is maintained by PHC4. The release of individual identifying information by the Pennsylvania Department of Health is forbidden. Please contact PHC4 at www.phc4.org for more information.

Data Quality

The responsibility for hospital data quality testing and editing lies with PHC4. Please contact PHC4 at www.phc4.org for more information.

Some of the limitations to consider when interpreting hospitalization data include:

- The consistency with which E-codes are used and assigned may vary among hospitals.
- Varying specificity among E-codes and the use of non-specific E-codes.
- Lack of injury documentation in medical record leading to incomplete E-coding.
- Injuries with an undetermined intent might be coded by medical records personnel as “unintentional” per national E-code assignment guidelines. This situation likely results in substantial under reporting of “intentional” injuries.
- Possibility of double counting some cases because there was no way to identify re-admissions. This could happen, for example, if a patient was admitted to a hospital and then transferred to a different hospital.
- Hospital coding errors are not always captured during the PHC4 editing process and may have resulted in a small number of coding errors being introduced in some fields.

Injury Cause Definitions

Hospitalization data are classified according to the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM). Current coding definitions are based on the *Consensus Recommendations for Using Hospital Discharge Data for Injury Surveillance*, published by the Safe States Alliance (formerly STIPDA) in 2003. The list below shows the cause of hospitalization and corresponding ICD-9-CM external cause of injury codes (e-codes) used to classify injury hospitalizations in this report.

INJURY CAUSE	ICD-9-CM CODES
<i>All Injuries</i>	See ‘Source of Data’ above. Full PHC4 dataset included.
<i>Unintentional Injuries</i>	E800-E869, E880-E929
<i>Motor Vehicle Traffic</i>	E810-E819
<i>Unintentional Falls</i>	E880-E886, E888
<i>Poisoning</i>	E850-E869, E950-E952, E962, E972, E980-E982, E979 (.6, .7)
<i>Self-Poisoning</i>	E950-E952
<i>All Self-Inflicted</i>	E950-E959
<i>All Assault</i>	E960-E969, E979, E999.1

Leading Causes of Injury Hospitalization: ICD-9-CM Codes

These are the injury definitions used in the rankings for leading causes of hospitalization.

UNINTENTIONAL INJURY

Falls – E880-E886, E880

Poisoning – E850-E858, E860-E869

MVT Occupant – E810-E819 (.0-.1)

MVT Motorcycle – E810-E819 (.2-.3)

Pedal Cycle – E800-E807 (.3), E810-E825 (.6), E826-E829 (.1), E826.9

Pedestrian – E800-E807 (.2), E810-E825 (.7), E826-E829 (.0)

Transport – E800-E807 (*), E810-E825 (*), E826-E829 (*), E831, E833-E848
(*all remaining)

Firearm – E922 (.0-.3, .8-.9)

Drowning – E830, E832, E910

Suffocation – E911-E913

Fire/Flames – E890-E899

Burn/Scald – E924

Cut/Pierce – E920

Struck By – E916-E917

Bite/Sting – E905 (.0-.6, .9), E906 (.0-.5, .9)

Overexertion – E927

SELF-INFLICTED INJURY

Poisoning – E950-E952

Firearm – E955 (.0-.4)

Hanging – E953.0

Cut/Pierce – E956

ASSAULT INJURY

Firearm – E965 (.0-.4), E9794

Cut/Pierce – E966

Struck By – E960.0, E968.2

INJURY OF UNDETERMINED INTENT

Poisoning – E980-E982

CALCULATING AND COMPARING RATES

Definitions

AGE-SPECIFIC RATE -

Number of events for a specified age group per 100,000 population of that age.

AGE-ADJUSTED RATE (DIRECT METHOD) -

Age-specific rates for a selected population are applied to a standard population (in this report the 2000 United States standard million population was used) to calculate what rate *would be expected* if the selected population had the same age distribution as the standard population. The total of these expected events divided by the total of the standard population and multiplied by 100,000 yields the age-adjusted rate per 100,000.

It is important to use the same standard population in the computation of each age-adjusted rate to allow comparability among age-adjusted rates. Age-adjusted rates are artificial measurements and should never be compared with any other type of rate or be used to calculate the actual number of events. The age distribution for the 2000 United States standard million population, used in calculating rates for this report, is shown below:

2000 US STANDARD MILLION POPULATION

<i>All Ages</i>	<i>1,000,000</i>
0-4	69,135
5-9	72,533
10-14	73,032
15-19	72,169
20-24	66,478
25-29	64,529
30-34	71,044
35-39	80,762
40-44	81,851
45-49	72,118
50-54	62,716
55-59	48,454
60-64	38,793
65-69	34,264
70-74	31,773
75-79	26,999
80-84	17,842
85+	15,508

Reliability of Rates

Rates based on a random sample of a population are subject to error due to sampling variability. Yet rates based on full population counts (as in this report) are also estimates subject to error. An observed death rate can be thought of as a sample or estimate of the true or underlying death rate. This idea of an “underlying” death rate is an abstract concept, since the observed rate did actually occur, but it is this underlying rate that health policies should seek to address rather than annual rates, which may fluctuate dramatically.

Variation of a rate is directly related to the number of events used to calculate the rate. The smaller the number of events used in the calculation of a rate, the higher the variability of the rate will be. Rates based on small numbers of events, as well as rates for a geographic area or demographic group with very small population, should be of particular concern and be used cautiously.

When few events or small populations are evident in calculating/studying rates, multiple-year summary rates, referred to as average annual rates, will sometimes provide a much better perspective or measurement of an outcome. Expanding the period of time studied enlarges the absolute numbers and adds more credence to a statement regarding a rate. The next section details the method used in this report to calculate average annual rates.

It is also common practice among data users familiar with health statistics to calculate what is called a standard error (SE) of a rate. This statistic defines a rate’s variability and can be used to calculate a confidence interval (CI) to determine the actual variance of a rate 95 percent of the time. Standard error and confidence intervals are discussed in the section ‘*Comparing Age-Adjusted Rates*’.

Calculating Average Annual Rates

The average annual rate is a ratio of the number of events of interest in an at-risk population over a multi-year period, divided by the sum of populations at-risk each year. Note: the denominator does *not* reflect an estimate of the actual population for the multi-year period, as individuals who lived in the same county for more than one year would be counted more than once. Rather, the number reflects units of time spent in residence.

Use the following formula to compute average annual rate:

$$\frac{\sum_{i=1}^n k_i}{\sum_{i=1}^n p_i} \times 100,000 = \text{Rate per 100,000 per year}$$

Where:

k_i = number of events of interest for the i^{th} year of the multi-year period

p_i = population estimate (or Census count) in the i^{th} year of the multi-year period

n = number of years in the multi-year period

Example: Calculating Average Annual Rates

Below is the data for deaths due to unintentional falls in Allegheny County for all persons age 80-84 for the years 2006-2008. Let's use this data to calculate an average annual death rate for this multi-year period.

UNINTENTIONAL FALLS DEATHS, 2006-2008

County	Year	Age	Count	Population
Allegheny	2006	80-84	13	34,461
Allegheny	2007	80-84	16	34,088
Allegheny	2008	80-84	29	33,507

First compute the numerator. The number of deaths, or count, is the event of interest. Because there are three years in the multi-year period, $n=3$.

$$\sum_{i=1}^3 k_i = k_1 + k_2 + k_3 = 13 + 16 + 29 = 58$$

Next compute the denominator. It is the sum of the annual population estimates.

$$\sum_{i=1}^3 p_i = p_1 + p_2 + p_3 = 34,461 + 34,088 + 33,507 = 102,056$$

Finally put these values into the formula to compute the average annual death rate.

$$\frac{\sum_{i=1}^3 k_i}{\sum_{i=1}^3 p_i} \times 100,000 = \frac{58}{102,056} \times 100,000 = 57 \text{ deaths per } 100,000 \text{ per year}$$

Comparing Age-Adjusted Rates

As mentioned above, a first step in comparing rates is the computation of a standard error (SE), defining the rate's variability. The usual formula given for computing the standard error of an age-adjusted rate (Chiang, 1961) is very complex and not often understood or used by the average health data user. However, the standard error can be approximated with the following less complex formula (Keyfitz, 1966):

$$\text{SE} = R / \sqrt{N}$$

Where:

R = age-adjusted rate

N = number of deaths

As an example let's use the state's 2004-2008 age-adjusted rate for poisoning deaths of 14.7 to calculate an estimated SE. The rate was based on 8,954 deaths. The square root of 8,954 is 94.6. By dividing the rate of 14.7 by 94.6, one obtains the estimated SE of 0.15. This estimated SE can then be used to compute a 95 percent confidence interval (CI) for the rate. The standard formula for determining the 95 percent CI of a rate is:

$$R \pm (1.96 \times \text{SE})$$

Following this formula for the rate in this example produces a value of $14.7 \pm (1.96 \times 0.15)$, which is equal to 14.7 ± 0.30 . By subtracting and adding 0.30 to the original rate of 14.7, a range is produced. This range (14.4 – 15.0) is the estimated 95 percent confidence interval for the rate. One could then state with 95 percent certainty that the actual age-adjusted rate of poisoning deaths for the state during 2004-2008 was between 14.4 and 15.0.

To compare a particular county's age-adjusted poisoning death rate for 2004-2008 with the state's corresponding rate, one repeats the steps shown above to obtain a 95 percent CI for that county's rate. If the CIs for the state and county rates do not overlap, then the two rates are considered to be significantly different at the 95 percent confidence level.

Note: Confidence limits in this report are only shown rounded to the nearest tenth. Yet significance tests use the CIs before they are rounded in order to determine significance. Therefore, it is possible for a county's upper or lower confidence limit (rounded) to appear equal to the state's upper or lower confidence limit and have the county rate still be significantly different from the state rate. Comparison of confidence limits is an approximate method.

Example: Comparing Age-Adjusted Rates

As an example, the following table shows the total counts, age-adjusted rates and confidence intervals for poisoning deaths in Pennsylvania, as well as Blair, Cambria and Huntingdon Counties for 2004-2008.

POISONING DEATHS, PA 2004-2008

County	Count	Rate	CI
Pennsylvania	8,954	14.7	14.4-15.0
Blair	97	16.2	12.9-19.4
Cambria	182	26.0	22.2-29.8
Huntingdon	20	8.4	4.7-12.1

Both Blair and Cambria counties had poisoning death rates above the state rate. However, upon closer examination, we see that the state rate fell within the CI for Blair County. Therefore, we can say (with 95 percent confidence) that there was no significant difference between the poisoning death rates in Blair County and Pennsylvania. On the other hand, Cambria County's CI did *not* contain the value of the state rate. Thus, we can say that Cambria County's poisoning death rate was significantly higher than the state's rate for the period of 2004-2008. By similar logic, we can say that Huntingdon County's poisoning death rate was significantly lower than the state's rate for 2004-2008.

This example points to an important result that the user should note. The smaller the number of events upon which the rate is based, the larger the SE and range of the CI will be. This clearly demonstrates the greater variability (and lower reliability) of rates based on smaller numbers. As a general rule, age-adjusted rates based on fewer than 20 events are considered unstable and are not recommended for comparative use or in determining significance. For this reason, the CIs were not computed, compared or shown for any age-adjusted death rate in this report based on less than 20 events.

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