

**Injury Deaths and Hospitalizations  
in Pennsylvania  
2004-2008**



## ACKNOWLEDGMENTS

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## REFERENCES

- Pennsylvania Department of Health. *Pennsylvania Vital Statistics 2008*. Harrisburg, PA: Bureau of Health Statistics and Research; 2010.
- Johnson RL, Sarmiento K. *State Injury Indicators: Instructions for Preparing 2005 Data*. Centers for Disease Control and Prevention. National Center for Injury Prevention and Control. Atlanta, GA. 2006.
- National Center for Health Statistics. *ICD-10 Framework: External Cause of Injury Mortality Matrix*. Hyattsville, MD, 2002.
- STIPDA. Injury Surveillance Workgroup 3. *Consensus Recommendations for Using Hospital Discharge Data for Injury Surveillance*. State and Territorial Injury Prevention Directors Association, Marietta, GA. 2003.

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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 2008, 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 2008, contributing to 5,669 deaths. Among white males, unintentional injury was the third leading cause of death. Rates of injury death have increased by 8 percent from 2004 to 2008.

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 2008, intentional injuries represented the second and third leading causes of death among Pennsylvanians ages 15 through 34. 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 2008, as in previous years.

Mortality statistics alone do not convey the full impact of injury. In 2008, Pennsylvania hospitals reported 148,452 discharges of residents with injury-related admissions, corresponding to a rate of 1,062.4 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 2008 exceeded \$7.17 billion. Nearly half of these charges, over \$3.27 billion, were billed to Medicare.

Every 3½ 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 9,140.0 injury hospitalizations per 100,000 persons in 2008. Rates of injury hospitalization have increased by 7 percent from 2004 to 2008. 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.

### **2004-2008 COMBINED INJURY REPORT**

This report describes Pennsylvania's injury burden from 2004 to 2008, 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 2002-2006. Additional charts and tables have been added, including breakouts by urban/rural status and Hispanic ethnicity, as well as expanded leading cause rankings. Analysis of traumatic brain injury data has been promoted to a full chapter. Users should find the improved format of this report, with more data at the district and county level, to be of real benefit in understanding the unique injury problems of their community.

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 2004-2008**

## INJURY DEATHS: ALL INJURIES

In 2008, among Pennsylvania residents, there were 8,061 deaths due to injury. On average, one resident died every 65 minutes.

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### ***Injury Definition***

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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 **increasing** over 2004 to 2008.*
- *Most common demographic is **white males**, ages 15 to 59.*
- *Of all Pennsylvania counties, **Philadelphia** shows the highest rate.*

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### ***Trends Over Time***

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- Age-adjusted injury death rates increased by 8 percent from 2004 to 2008; from 56.2 to 60.9 deaths per 100,000 population.
- Males showed significantly higher age-adjusted injury death rates than females over 2004 to 2008 (rates were 90.5 and 33.5, respectively, in 2008).
- Black males showed significantly higher age-adjusted injury death rates than white males over 2004 to 2008 (rates were 135.2 and 86.8, respectively, in 2008).

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### ***Demographic Trends***

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- White males accounted for over half of all injury deaths in 2004 to 2008.
- 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 70, 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.

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### ***Regional Trends***

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- The Southeast Health District showed the highest age-specific injury death rates, while the North Central and South Central Health Districts showed the lowest rates. However, other districts showed high rates for certain age groups.
- Fifteen counties showed age-adjusted injury death rates for 2004 to 2008 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, 2004-2008

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		
<b>Fall</b>	5,313	6.9	118	0.2	2	NA	16	NA	5,449	7.2	(7.0 - 7.4)	3,169
→ On same level	1,330	1.7	0		0		0		1,330	1.7	(1.6 - 1.8)	741
→ One level to another	1,612	2.2	118	0.2	2	NA	16	NA	1,748	2.4	(2.3 - 2.5)	1,051
→ Unspecified	2,371	3.1	0		0		0		2,371	3.1	(2.9 - 3.2)	1,377
<b>Poisoning</b>	7,297	12.0	1,202	1.9	28	0.0	427	0.7	8,954	14.7	(14.4 - 15.0)	51
→ Drug	6,957	11.5	859	1.4	27	0.0	394	0.6	8,237	13.6	(13.3 - 13.9)	44
→ Non-Drug	340	0.5	343	0.5	1	NA	33	0.1	717	1.1	(1.0 - 1.2)	7
<b>Motor Vehicle Traffic</b>	7,638	11.9	8	NA	6	NA	3	NA	7,655	11.9	(11.7 - 12.2)	2,706
→ MVT Occupant	1,475	2.3	8	NA	6	NA	3	NA	1,492	2.3	(2.2 - 2.4)	513
→ MVT Motorcyclist	932	1.5	0		0		0		932	1.5	(1.4 - 1.6)	375
→ MVT Pedal Cyclist	67	0.1	0		0		0		67	0.1	(0.1 - 0.1)	37
→ MVT Pedestrian	796	1.2	0		0		0		796	1.2	(1.1 - 1.3)	243
→ MVT Other	4	NA	0		0		0		4	NA		4
→ MVT Unspecified	4,364	6.7	0		0		0		4,364	6.7	(6.5 - 6.9)	1,534
All Pedal Cyclist	94	0.2	0		0		0		94	0.2	(0.1 - 0.2)	54
All Pedestrian	974	1.5	0		0		0		974	1.5	(1.4 - 1.6)	296
Other Transport	232	0.4	0		0		0		232	0.4	(0.3 - 0.4)	84
Firearm	140	0.2	3,683	5.7	2,687	4.5	43	0.1	6,606	10.5	(10.3 - 10.8)	3,960
Drowning	474	0.8	72	0.1	6	NA	56	0.1	608	1.0	(0.9 - 1.1)	9
Suffocation	1,629	2.2	1,713	2.8	111	0.2	36	0.1	3,489	5.3	(5.1 - 5.4)	11
Fire/Flames	848	1.3	36	0.1	45	0.1	38	0.1	967	1.5	(1.4 - 1.6)	1
Hot Object/Scald	21	0.0	1	NA	0		0		22	0.0	(0.0 - 0.0)	0
Cut/Pierce	46	0.1	139	0.2	333	0.5	8	NA	526	0.8	(0.8 - 0.9)	34
Struck By/Against	184	0.3	0		32	0.1	0		216	0.3	(0.3 - 0.4)	122
Machinery	193	0.3	0		0		0		193	0.3	(0.3 - 0.3)	45
Overexertion	1	NA	0		0		0		1	NA		0
Nat/Env. Causes	261	0.4	0		0		0		261	0.4	(0.3 - 0.4)	10
→ Bites and Stings	34	0.1	0		0		0		34	0.1	(0.0 - 0.1)	7
Other Spec./NEC	499	1	115	0	128	0	45	0	791	1	(1.1 - 1.3)	267
Unspecified	1,694	2.2	24	0.0	230	0.4	90	0.1	2,038	2.8	(2.6 - 2.9)	519
<b>Total: All Mechanisms</b>	<b>26,675</b>	<b>40.1</b>	<b>7,111</b>	<b>11.1</b>	<b>3,608</b>	<b>6.0</b>	<b>762</b>	<b>1.2</b>	<b>38,213</b>	<b>58.5</b>	<b>(57.9 - 59.1)</b>	<b>11,058</b>

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

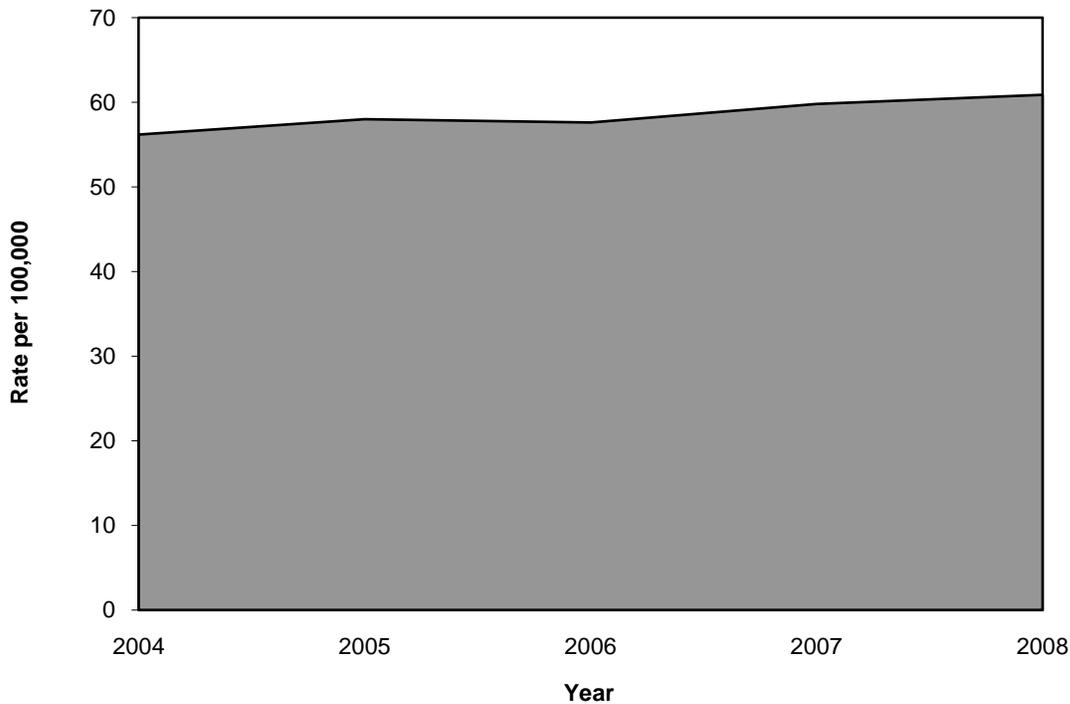
# INJURY DEATHS: ALL INJURIES

## TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES PENNSYLVANIA RESIDENTS, 2004-2008

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Year	No.	Rate
2004	7,314	56.2
2005	7,589	58.0
2006	7,437	57.6
2007	7,812	59.8
2008	8,061	60.9

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## AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2004-2008

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Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2004	56.1	49.8	54.5	57.6	55.8	56.5
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

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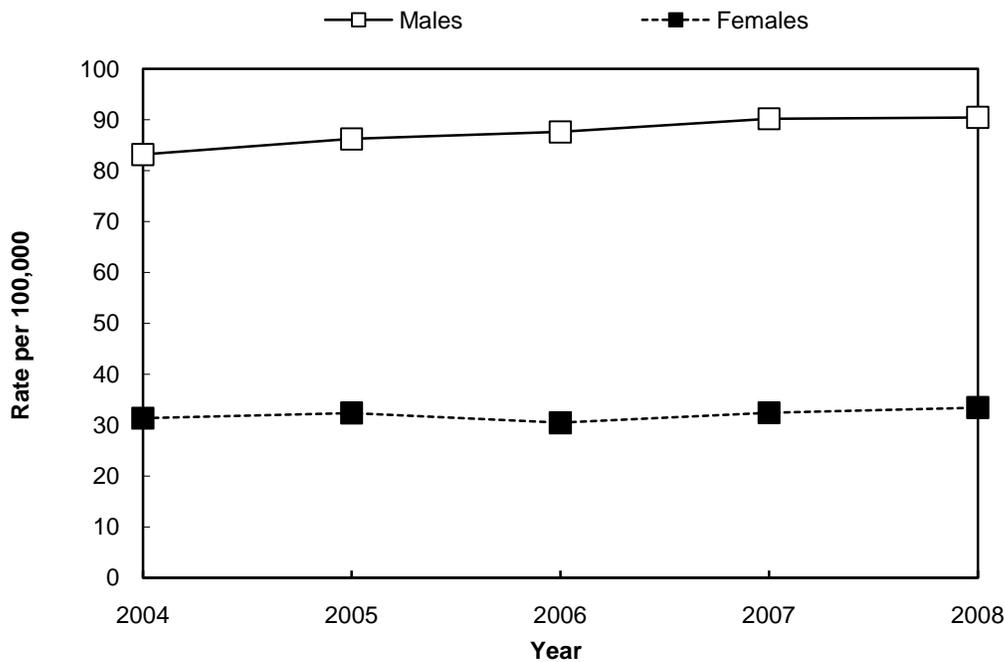
NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2004-2008 based on ICD-10 codes. See Technical Notes.

# INJURY DEATHS: ALL INJURIES

## TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX PENNSYLVANIA RESIDENTS, 2004-2008

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2004	4,985	83.2 *	2004	2,329	31.4
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

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



## AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2004-2008

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2004	82.5	84.8	2004	30.0	35.3 *
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

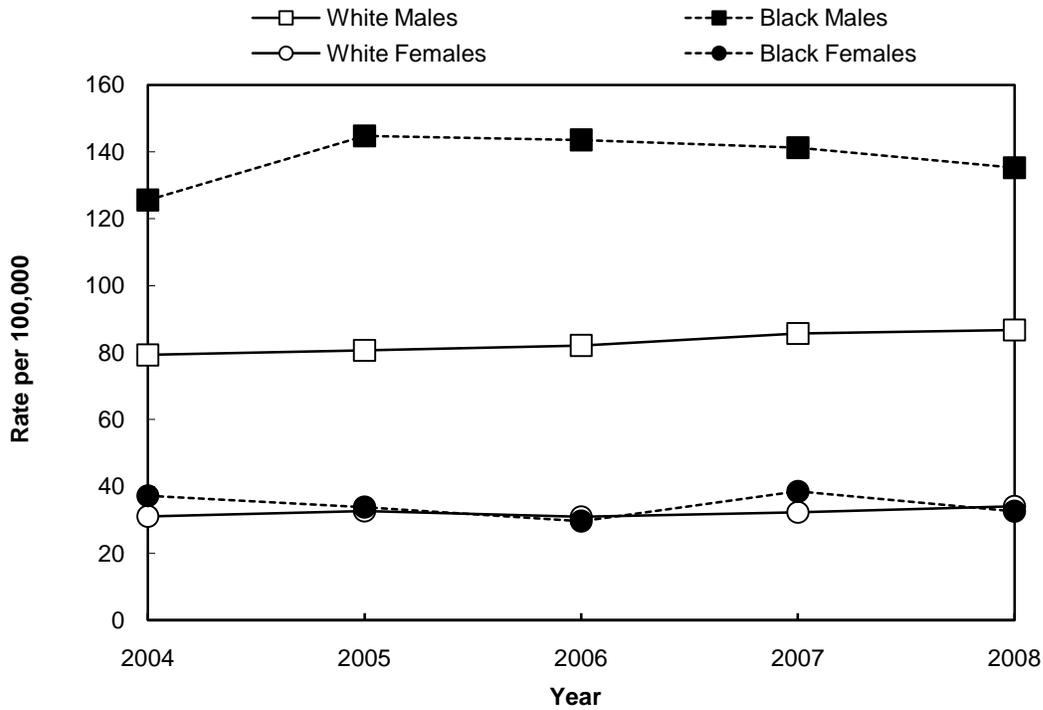
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

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, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	4,188	748	2,061	246	174	39
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



### AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	79.3	125.6 *	31.1	37.2 *	79.0	20.2
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

\* 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, 2004-2008

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL	
	No.	Rate								
<b>TOTAL</b>	<b>38,213</b>	<b>61.5</b>	<b>26,296</b>	<b>87.2</b>	<b>11,917</b>	<b>37.2</b>	<b>27,218</b>	<b>60.5</b>	<b>10,995</b>	<b>64.1</b>
< 5	534	14.6	308	16.4	226	12.6	359	13.1	175	18.8
5-9	173	4.5	116	5.9	57	3.0	114	4.0	59	5.9
10-14	306	7.5	211	10.1	95	4.8	195	6.5	111	10.2
15-19	2,066	44.7	1,589	68.2	477	20.8	1,448	43.7	618	47.3
20-24	3,370	77.8	2,749	124.9	621	29.1	2,472	79.7	898	72.9
25-29	2,807	77.6	2,289	124.1	518	29.2	2,073	77.0	734	79.2
30-34	2,308	61.3	1,788	94.7	520	27.7	1,673	60.6	635	63.2
35-39	2,659	63.9	1,988	96.2	671	32.0	1,933	63.4	726	65.2
40-44	3,241	71.3	2,379	105.8	862	37.6	2,338	70.5	903	73.5
45-49	3,470	74.6	2,507	109.4	963	40.9	2,534	75.1	936	73.3
50-54	2,812	64.0	2,105	97.9	707	31.6	2,057	65.0	755	61.6
55-59	2,041	53.0	1,495	80.3	546	27.5	1,466	53.3	575	52.1
60-64	1,366	43.1	986	65.4	380	22.8	915	40.9	451	48.2
65-69	1,215	46.8	835	70.5	380	27.0	809	44.6	406	51.9
70-74	1,330	59.2	845	86.4	485	38.2	882	56.0	448	66.7
75-79	1,864	96.6	1,097	140.5	767	66.8	1,286	94.6	578	101.6
80-84	2,458	171.0	1,293	240.3	1,165	129.6	1,693	165.2	765	185.4
85 +	4,177	327.0	1,701	458.2	2,476	273.3	2,960	323.3	1,217	336.5

\* 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, 2004-2008

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
<b>TOTAL</b>	<b>21,789</b>	<b>83.8</b>	<b>4,217</b>	<b>134.6</b>	<b>10,627</b>	<b>38.7</b>	<b>1,162</b>	<b>33.5</b>	<b>1,229</b>	<b>46.2</b>		
< 5	206	13.5	93	36.7	*	159	10.9	60	24.4	*	47	15.8
5-9	82	5.1	34	12.9	*	38	2.5	17	6.7	*	11	4.1
10-14	157	9.2	47	16.5	*	73	4.5	20	7.3		17	6.6
15-19	1,092	56.6	479	156.7	*	415	21.9	52	17.4		84	32.0
20-24	2,058	113.0	641	224.1	*	532	30.2	79	27.9		185	79.9
25-29	1,704	111.7	546	227.4	*	431	29.6	72	30.0		183	85.2
30-34	1,360	85.5	406	189.4	*	443	28.3	68	29.8		135	67.1
35-39	1,609	90.8	356	166.1	*	573	32.3	88	37.0		143	72.2
40-44	2,033	103.7	319	147.1	*	749	37.9	103	42.0		107	58.9
45-49	2,158	106.4	332	162.2	*	826	40.2	130	54.7	*	101	63.9
50-54	1,795	93.2	293	167.7	*	614	31.1	88	41.8	*	67	58.3
55-59	1,261	74.9	223	161.5	*	473	26.8	69	39.5	*	40	44.7
60-64	872	63.6	105	101.5	*	336	22.6	40	29.0		30	48.6
65-69	754	69.4	75	98.1	*	335	26.2	39	35.9		18	43.2
70-74	769	85.3	66	108.3		445	38.4	37	38.8		20	68.3
75-79	1,028	141.5	63	141.7		708	66.9	51	65.4		15	70.9
80-84	1,210	241.1	74	247.9		1,105	132.9	52	88.6	*	10	76.1
85 +	1,633	473.2	61	283.3	*	2,372	282.5	97	170.5	*	15	113.1

\* 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 DEATHS: ALL INJURIES

### TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2004-2008

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>2,921</b>	<b>62.6</b>	<b>1,845</b>	<b>54.2</b>	<b>4,787</b>	<b>61.8</b>	<b>15,314</b>	<b>62.1</b>	<b>4,634</b>	<b>57.5</b>	<b>8,712</b>	<b>63.9</b>
< 5	57	22.0 +	29	16.5	62	14.5	199	12.5 -	83	17.1	104	14.4
5-9	23	8.2 +	12	6.6	25	5.5	61	3.8	25	5.0	27	3.5
10-14	27	8.9	20	10.0	34	6.7	108	6.4	52	9.8	65	7.8
15-19	148	41.4	117	37.1 -	243	42.1	905	49.1 +	275	48.1	378	39.5 -
20-24	217	68.3	147	41.7 -	429	81.6	1,495	86.3 +	393	75.5	689	78.0
25-29	172	66.0 -	106	60.9 -	339	79.1	1,247	81.4	328	69.0 -	615	82.3
30-34	172	62.9	97	49.8 -	258	57.0	989	63.5	268	53.8 -	524	66.3
35-39	194	65.5	110	52.2 -	356	69.1	1,125	65.9	307	55.8 -	567	64.4
40-44	230	69.9	140	60.9	418	73.9	1,383	75.5 +	347	57.8 -	723	73.2
45-49	250	72.3	143	60.5 -	423	72.9	1,463	80.0 +	361	59.1 -	830	79.3
50-54	249	75.2 +	108	47.5 -	363	65.4	1,134	67.3	303	52.4 -	655	64.7
55-59	143	48.6	109	53.4	247	49.7	806	55.7	256	49.4	480	53.8
60-64	116	46.5	92	53.1 +	167	39.3	506	43.4	180	42.5	305	41.5
65-69	115	54.8	67	45.1	160	46.3	436	46.8	155	44.6	282	46.2
70-74	117	63.5	71	56.0	170	57.7	468	58.4	190	65.2	314	57.2
75-79	154	97.0	124	117.7 +	256	102.8	615	90.0	230	95.3	485	98.8
80-84	201	172.1	129	167.3	290	159.3	863	167.2	344	199.5 +	631	169.2
85 +	335	333.7	224	340.0	544	335.6	1,502	321.3	535	363.0 +	1,037	310.6

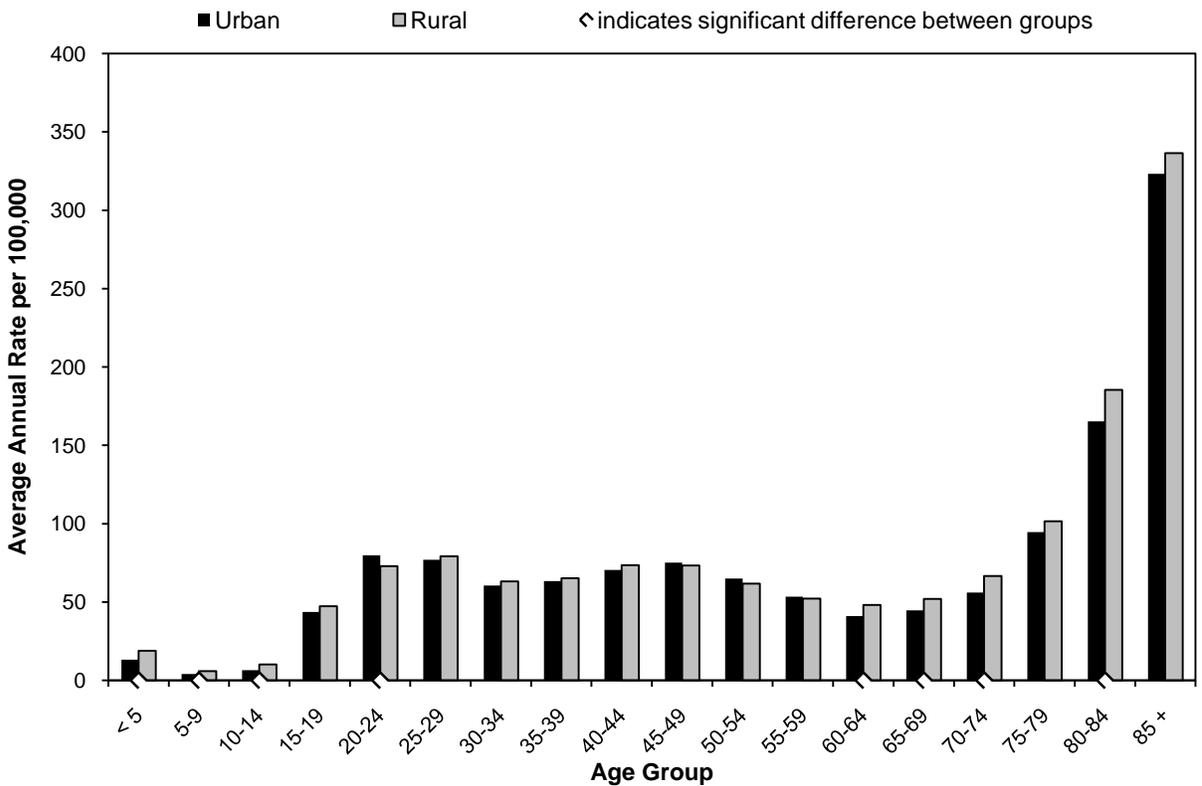
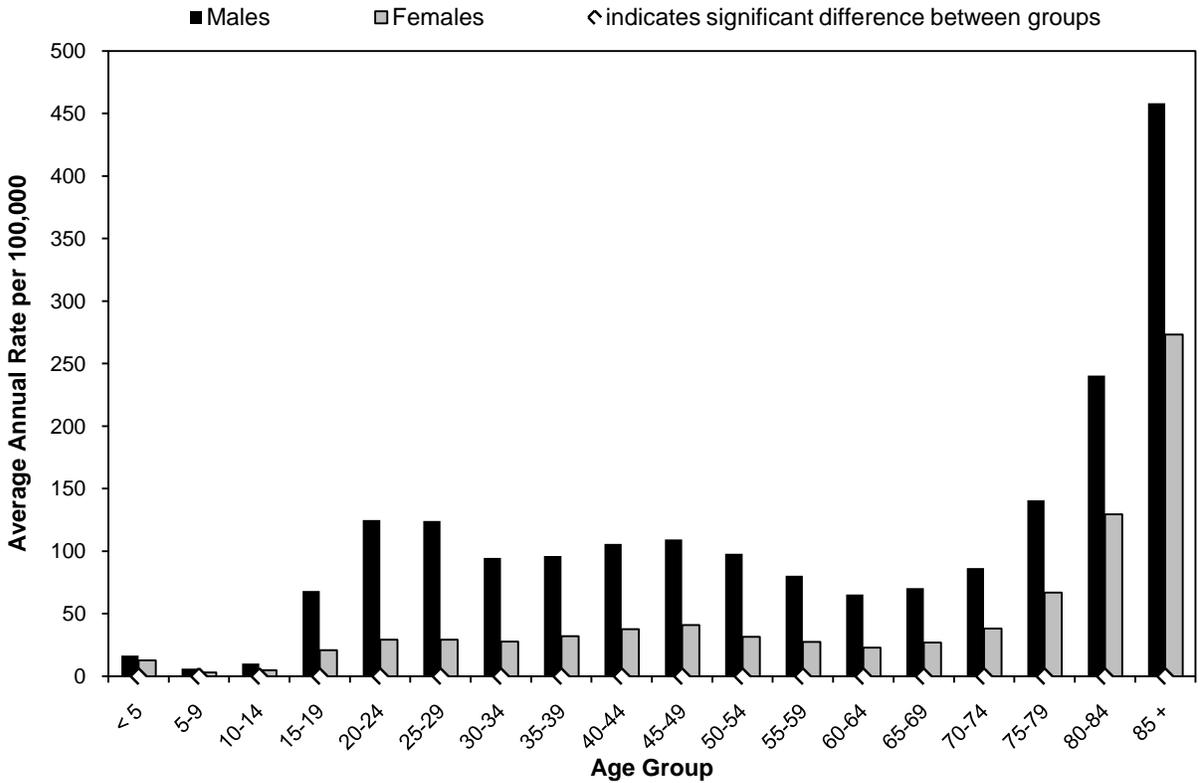
*+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.*

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.

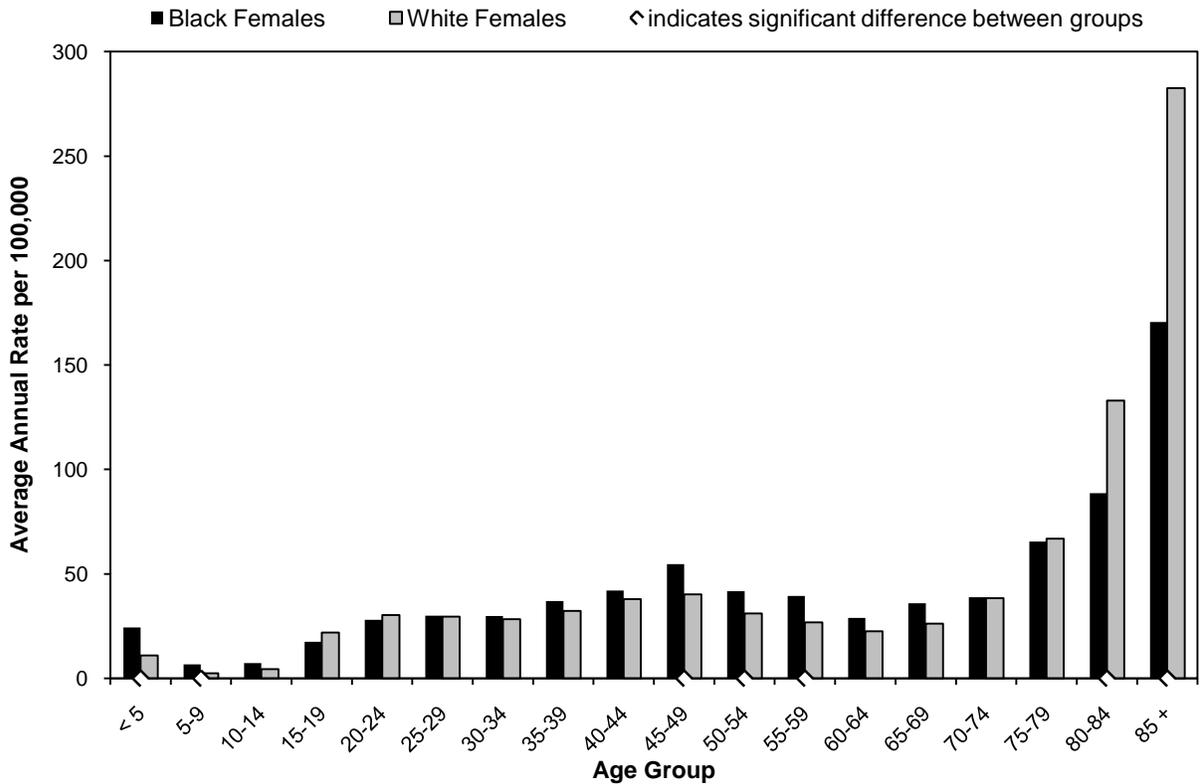
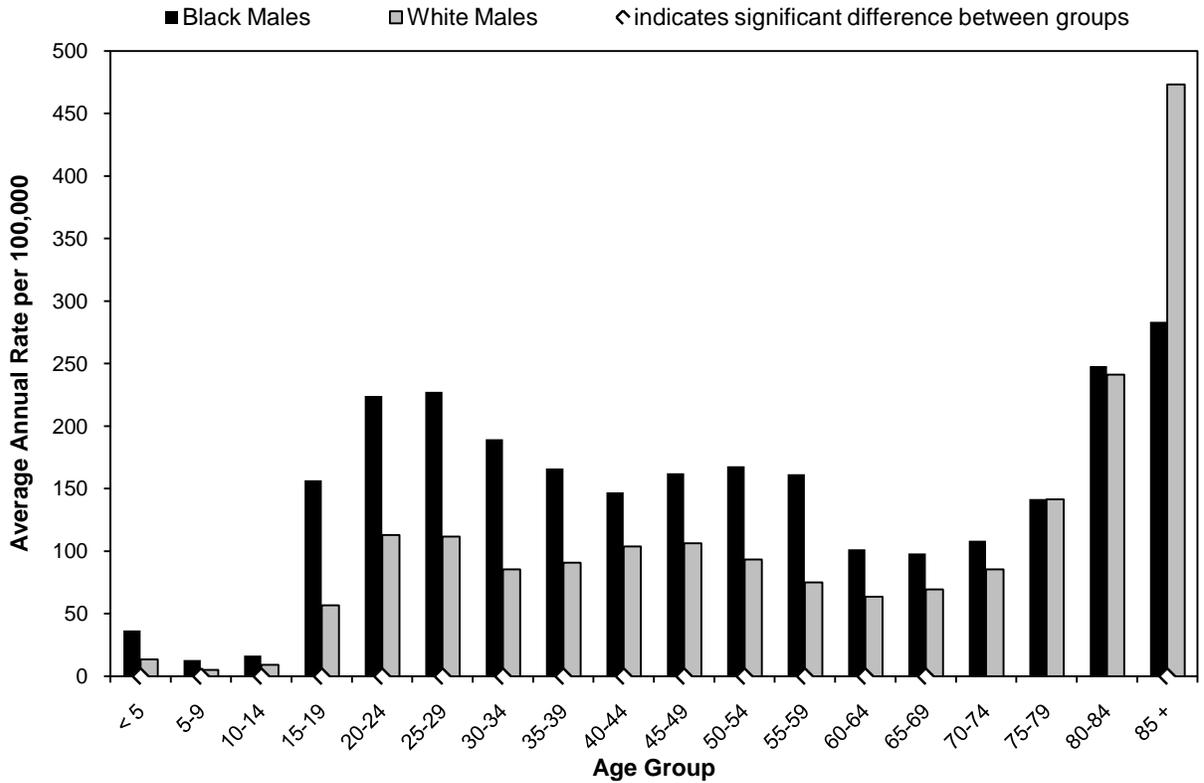
# INJURY DEATHS: ALL INJURIES

AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS  
PENNSYLVANIA RESIDENTS, 2004-2008



# INJURY DEATHS: ALL INJURIES

## AVERAGE ANNUAL DEATH RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2004-2008



# INJURY DEATHS: ALL INJURIES

## NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2004-2008

District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
<b>Northeast</b>	4,787	58.7	57.0-60.3	<b>Southeast</b>	15,314	60.4	59.4-61.3 +
Carbon	235	68.7	59.9-77.5 +	Berks	1,069	52.5	49.3-55.6 -
Lackawanna	655	58.4	54.0-62.9	Bucks	1,528	49.6	47.1-52.1 -
Lehigh	1,003	56.8	53.3-60.3	Chester	1,005	43.0	40.3-45.6 -
Luzerne	1,059	64.2	60.3-68.0 +	Delaware	1,695	57.9	55.1-60.6
Monroe	508	63.2	57.7-68.7	Lancaster	1,225	48.5	45.8-51.2 -
Northampton	715	46.4	43.0-49.8 -	Montgomery	1,886	45.9	43.8-48.0 -
Pike	148	52.6	44.1-61.1	Philadelphia	6,324	85.3	83.2-87.4 +
Susquehanna	149	69.5	58.4-80.7	Schuylkill	582	72.3	66.4-78.1 +
Wayne	212	84.4	73.0-95.7 +				
Wyoming	103	76.0	61.3-90.6 +				
<b>North Central</b>	1,845	51.2	48.9-53.5 -	<b>South Central</b>	4,634	55.2	53.6-56.8 -
Bradford	178	55.3	47.2-63.4	Adams	259	50.5	44.4-56.7 -
Centre	263	42.8	37.6-48.0 -	Bedford	181	72.4	61.8-82.9 +
Clinton	128	64.7	53.5-75.9	Blair	481	71.0	64.7-77.4 +
Columbia	195	56.9	48.9-64.9	Cumberland	506	42.3	38.6-46.0 -
Lycoming	327	51.3	45.8-56.9 -	Dauphin	694	52.9	48.9-56.8 -
Montour	51	56.4	40.9-71.9	Franklin	384	51.9	46.8-57.1 -
Northumberland	312	62.5	55.6-69.4	Fulton	66	86.8	65.8-107.7 +
Potter	72	82.2	63.2-101.2 +	Huntingdon	147	62.0	52.0-72.0
Snyder	94	46.9	37.4-56.4 -	Juniata	69	59.7	45.6-73.7
Sullivan	14	NA		Lebanon	318	46.8	41.6-51.9 -
Tioga	116	51.7	42.3-61.1	Mifflin	158	66.3	55.9-76.6
Union	95	41.2	33.0-49.5 -	Perry	145	65.5	54.8-76.1
				York	1,226	58.1	54.9-61.4
<b>Northwest</b>	2,921	58.9	56.7-61.0	<b>Southwest</b>	8,712	59.0	57.7-60.2
Cameron	29	98.1	62.4-133.8 +	Allegheny	3,838	57.5	55.7-59.4
Clarion	118	55.8	45.7-65.8	Armstrong	249	67.6	59.2-76.0 +
Clearfield	301	67.9	60.2-75.5 +	Beaver	526	54.6	49.9-59.2
Crawford	307	65.3	58.0-72.6	Butler	479	51.3	46.7-55.9 -
Elk	108	62.4	50.6-74.2	Cambria	575	71.6	65.8-77.5 +
Erie	737	50.7	47.0-54.3 -	Fayette	508	65.8	60.1-71.5 +
Forest	18	NA		Greene	145	69.6	58.3-80.9
Jefferson	164	68.2	57.8-78.7	Indiana	276	61.6	54.3-68.9
Lawrence	293	59.3	52.5-66.1	Somerset	278	62.6	55.2-69.9
McKean	127	54.6	45.1-64.0	Washington	629	56.8	52.4-61.2
Mercer	378	60.3	54.2-66.4	Westmoreland	1,209	60.9	57.4-64.3
Venango	195	67.5	58.0-76.9				
Warren	146	67.8	56.8-78.8	<b>Pennsylvania</b>	<b>38,213</b>	<b>58.5</b>	<b>57.9-59.1</b>

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, 2004-2008

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	26,296	11,917	<b>38,213</b>	3,079	19.0	8,485	72.4	9,370	70.2	6,219	54.5	11,044	116.4
<b>Northeast</b>	3,265	1,522	<b>4,787</b>	364	18.5	1,026	72.9	1,197	72.1	777	52.6	1,420	115.1
Carbon	173	62	235	9	NA	45	75.8	55	81.6	61	97.9	62	115.4
Lackawanna	458	197	655	43	16.9	168	86.7	150	70.6	108	55.2	186	96.8
Lehigh	655	348	1,003	65	14.8	186	59.1	218	61.2	152	49.5	382	151.4
Luzerne	721	338	1,059	70	19.4	259	91.5	299	90.3	165	55.2	266	91.8
Monroe	340	168	508	72	30.4	100	70.6	137	71.6	88	57.6	111	117.6
Northampton	485	230	715	53	13.5	123	45.5	166	53.8	110	41.2	263	124.3
Pike	97	51	148	14	19.8	27	60.5	45	67.4	30	47.2	32	77.8
Susquehanna	111	38	149	8	NA	38	109.6	40	92.3	25	55.4	38	114.5
Wayne	152	60	212	21	36.5	50	120.6	64	119.7	25	44.1	52	115.3
Wyoming	73	30	103	9	NA	30	127.4	23	77.9	13	46.9	28	140.2
<b>Southeast</b>	10,818	4,496	<b>15,314</b>	1,273	18.8	3,731	77.4	3,971	74.0	2,446	56.9	3,884	114.2
Berks	751	318	1,069	75	13.4	230	62.5	274	63.1	170	48.6	320	113.6
Bucks	1,041	487	1,528	101	12.3	332	63.2	395	52.9	247	40.9	453	110.6
Chester	671	334	1,005	76	11.1	233	53.3	234	41.7	163	37.5	299	104.5
Delaware	1,122	573	1,695	113	15.0	357	68.0	429	71.6	276	55.8	519	129.4
Lancaster	853	372	1,225	138	19.4	254	54.1	280	54.5	191	44.9	361	102.2
Montgomery	1,221	665	1,886	109	10.8	342	49.1	436	48.8	272	38.2	727	127.2
Philadelphia	4,757	1,567	6,324	612	29.8	1,865	111.9	1,771	121.9	1,042	91.2	1,027	107.0
Schuylkill	402	180	582	49	30.2	118	87.5	152	91.0	85	62.7	178	129.7

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	26,296	11,917	<b>38,213</b>	3,079	19.0	8,485	72.4	9,370	70.2	6,219	54.5	11,044	116.4
<b>North Central</b>	1,239	606	<b>1,845</b>	178	20.4	350	48.5	393	58.0	309	51.1	615	117.4
Bradford	126	52	178	16	19.8	37	70.2	40	60.8	33	54.9	52	101.9
Centre	174	89	263	19	10.1	53	24.4	64	51.1	50	48.7	77	99.2
Clinton	91	37	128	9	NA	28	77.0	26	73.3	25	75.2	40	128.4
Columbia	142	53	195	23	26.9	29	42.1	36	59.3	35	60.8	72	138.2
Lycoming	204	123	327	28	19.1	59	52.6	71	57.9	60	54.2	109	113.8
Montour	31	20	51	7	NA	11	78.2	10	52.6	8	NA	15	93.3
Northumberland	208	104	312	29	27.1	61	79.7	72	72.8	42	46.2	108	125.9
Potter	50	22	72	9	NA	22	159.6	10	57.3	8	NA	23	152.0
Snyder	64	30	94	13	24.9	13	33.0	20	51.9	14	41.4	34	127.0
Sullivan	9	5	14	0	NA	1	NA	2	NA	6	NA	5	NA
Tioga	73	43	116	18	31.4	12	33.9	26	66.9	18	45.8	42	120.3
Union	67	28	95	7	NA	24	47.3	16	32.8	10	28.4	38	126.3
<b>South Central</b>	3,111	1,523	<b>4,634</b>	435	20.8	989	66.2	1,015	57.6	739	48.6	1,454	121.2
Adams	190	69	259	34	24.9	63	67.3	56	51.0	38	41.5	68	98.0
Bedford	122	59	181	20	32.2	49	115.2	40	74.8	24	49.3	48	111.8
Blair	310	171	481	32	20.3	86	75.9	124	95.4	73	59.9	166	152.5
Cumberland	361	145	506	48	16.6	113	50.4	109	45.8	81	39.2	154	90.9
Dauphin	455	239	694	61	18.4	165	71.7	141	48.7	133	54.0	194	109.7
Franklin	259	125	384	36	19.6	80	62.5	71	50.0	67	51.8	129	113.3
Fulton	49	17	66	3	NA	16	117.6	18	114.3	11	75.9	18	154.5
Huntingdon	87	60	147	19	35.6	26	55.6	39	77.8	20	46.3	43	121.9
Juniata	54	15	69	11	35.2	16	78.9	16	66.0	7	NA	19	100.0
Lebanon	208	110	318	34	21.2	60	49.3	59	45.5	53	44.9	112	108.1
Mifflin	103	55	158	17	27.9	42	107.9	24	50.7	20	46.4	55	134.0
Perry	108	37	145	13	21.3	32	79.8	47	92.8	15	33.3	38	135.1
York	805	421	1,226	107	19.7	241	63.3	271	56.5	197	50.5	410	146.6

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	26,296	11,917	<b>38,213</b>	3,079	19.0	8,485	72.4	9,370	70.2	6,219	54.5	11,044	116.4
<b>Northwest</b>	1,973	948	<b>2,921</b>	255	21.2	561	65.9	674	69.4	508	58.1	922	119.7
Cameron	20	9	29	3	NA	3	NA	9	NA	2	NA	12	223.4
Clarion	83	35	118	11	20.6	27	67.4	21	54.5	21	57.1	38	114.4
Clearfield	200	101	301	31	33.4	55	73.9	72	77.1	49	61.2	94	131.0
Crawford	217	90	307	25	20.9	58	73.1	66	73.6	55	63.8	103	145.5
Elk	80	28	108	6	NA	27	103.7	26	69.4	20	63.1	29	96.3
Erie	502	235	737	57	15.0	132	46.4	186	64.3	138	55.9	224	111.8
Forest	10	8	18	1	NA	1	NA	5	NA	3	NA	8	NA
Jefferson	105	59	164	26	46.5	26	65.6	33	69.9	28	64.0	51	124.0
Lawrence	190	103	293	22	18.9	62	81.4	68	72.3	49	56.2	91	106.5
McKean	94	33	127	9	NA	25	62.6	31	64.4	24	60.4	38	102.1
Mercer	239	139	378	31	20.1	79	78.4	80	66.7	69	62.2	119	113.1
Venango	134	61	195	15	21.5	44	96.6	41	71.1	31	54.9	64	134.9
Warren	99	47	146	18	35.4	22	66.7	36	81.5	19	43.8	51	139.0
<b>Southwest</b>	5,890	2,822	<b>8,712</b>	574	17.4	1,828	75.5	2,120	72.7	1,440	54.6	2,749	116.6
Allegheny	2,635	1,203	3,838	252	16.8	823	73.6	967	73.7	675	58.0	1,120	106.2
Armstrong	166	83	249	20	23.1	45	82.0	67	88.9	25	36.0	92	144.2
Beaver	352	174	526	35	16.8	102	70.4	115	61.0	88	50.2	186	115.7
Butler	307	172	479	39	15.9	112	69.3	108	52.8	67	39.7	153	117.6
Cambria	391	184	575	40	23.6	121	94.1	145	95.2	93	64.6	176	126.7
Fayette	351	157	508	32	18.5	113	92.4	123	78.9	92	62.6	148	115.4
Greene	85	60	145	17	36.9	43	108.0	30	68.6	21	52.9	34	113.8
Indiana	200	76	276	15	13.0	58	61.6	53	63.7	53	66.0	97	141.8
Somerset	188	90	278	20	22.8	53	73.7	51	59.6	46	61.5	108	149.3
Washington	417	212	629	37	14.8	125	68.1	156	72.1	103	50.6	208	117.3
Westmoreland	798	411	1,209	67	15.9	233	77.3	305	76.8	177	47.5	427	128.2

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.

# INJURY DEATHS: ALL INJURIES

## NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2004-2008

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	813	102.8	95.7-109.9 +	Allegheny	2,996	51.3	49.4-53.1 -	Berks	119	55.3	45.4-65.3
Chester	85	58.3	45.9-70.7 -	Chester	909	43.2	40.4-46.0 -	Lancaster	63	42.5	32.0-53.0
Dauphin	143	65.2	54.5-75.9 -	Dauphin	541	50.7	46.4-54.9 -	Lehigh	96	49.4	39.5-59.3
Delaware	328	68.5	61.1-75.9 -	Delaware	1,347	57.0	54.0-60.0	Philadelphia	551	79.4	72.8-86.0 +
Montgomery	146	45.0	37.7-52.3 -	Montgomery	1,694	47.3	45.0-49.5 -				
Philadelphia	3,196	97.9	94.5-101.3 +	Philadelphia	2,983	81.5	78.5-84.4 +				
Pennsylvania	5,379	82.8	80.6-85.0	Pennsylvania	32,416	56.4	55.7-57.0	Pennsylvania	1,229	51.4	48.5-54.3

## NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2004-2008

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	13.2%	634	179	<b>813</b>	21.2%	135	48.5	276	165.6	194	125.3	116	97.2	91	100.2
	White	83.5%	1,979	1,017	<b>2,996</b>	78.1%	114	10.0	532	59.5	768	68.8	556	54.4	1,026	107.8
Chester	Black	6.3%	67	18	<b>85</b>	8.5%	10	20.3	28	80.3	13	43.9	21	97.7	13	87.0
	White	90.0%	595	314	<b>909</b>	90.4%	66	11.0	198	51.8	219	43.2	141	35.0	285	107.2
Dauphin	Black	17.8%	99	44	<b>143</b>	20.6%	23	29.3	53	114.2	29	59.7	25	74.4	13	68.3
	White	77.8%	348	193	<b>541</b>	78.0%	38	16.5	107	62.4	109	47.6	106	51.5	181	116.8
Delaware	Black	17.4%	262	66	<b>328</b>	19.4%	48	29.5	129	111.0	70	68.1	37	58.7	43	111.4
	White	77.3%	846	501	<b>1,347</b>	79.5%	64	11.8	221	58.8	354	76.7	235	57.1	473	133.8
Montgomery	Black	8.6%	109	37	<b>146</b>	7.7%	21	21.4	39	52.8	41	51.2	21	39.5	24	82.0
	White	85.0%	1,081	613	<b>1,694</b>	89.8%	83	10.0	296	52.2	385	51.3	243	38.9	687	130.6
Philadelphia	Black	45.6%	2,521	675	<b>3,196</b>	50.5%	440	40.5	1,051	147.5	831	124.7	499	100.7	373	104.4
	White	47.3%	2,133	850	<b>2,983</b>	47.2%	151	18.7	764	95.4	904	131.4	529	91.1	634	111.5
Pennsylvania	Black	10.6%	4,217	1,162	<b>5,379</b>	14.1%	802	36.8	1,812	121.5	1,328	97.9	818	87.0	615	97.5
	White	86.1%	21,789	10,627	<b>32,416</b>	84.8%	2,222	16.7	6,528	67.2	7,948	68.7	5,351	52.4	10,359	118.7

## INJURY DEATHS: UNINTENTIONAL FALLS

In 2008, among Pennsylvania residents, there were 1,266 deaths due to unintentional falls. On average, one resident died every seven hours.

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### ***Injury Definition***

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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 2004 to 2008.*
- *Most common demographic is residents age **80 and older**.*
- *Of all Pennsylvania counties, **York and Lehigh** show the highest rates.*

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### ***Trends Over Time***

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- Age-adjusted death rates for unintentional falls increased by 20 percent from 2004 to 2008, from 6.6 to 8.0 deaths per 100,000 population.
- Males showed significantly higher age-adjusted falls death rates than females over 2004 to 2008 (rates were 10.6 and 6.1, respectively, in 2008).
- White males and females showed higher age-adjusted falls death rates than black males and females over 2004 to 2008.

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### ***Demographic Trends***

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- 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.

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### ***Regional Trends***

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- The South Central Health District showed the highest age-specific falls death rates, while the Northwest Health District showed the lowest rates.
- Five counties showed age-adjusted falls death rates for 2004 to 2008 that were significantly higher than the comparable state rate: Bucks, Montgomery, Lehigh, Westmoreland and York. All of these counties were urban.

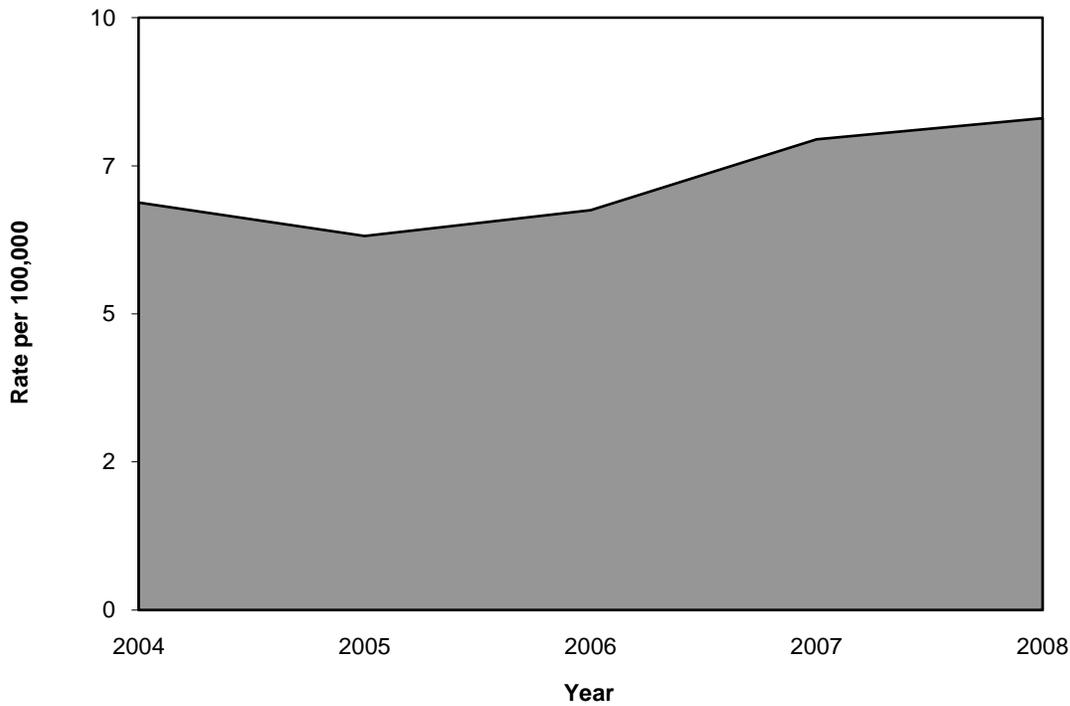
# INJURY DEATHS: UNINT. FALLS

## TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES PENNSYLVANIA RESIDENTS, 2004-2008

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Year	No.	Rate
2004	998	6.6
2005	943	6.1
2006	953	6.5
2007	1,153	7.6
2008	1,266	8.0

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## AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2004-2008

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Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2004	7.0	5.7	5.8	6.5	7.4	6.9
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

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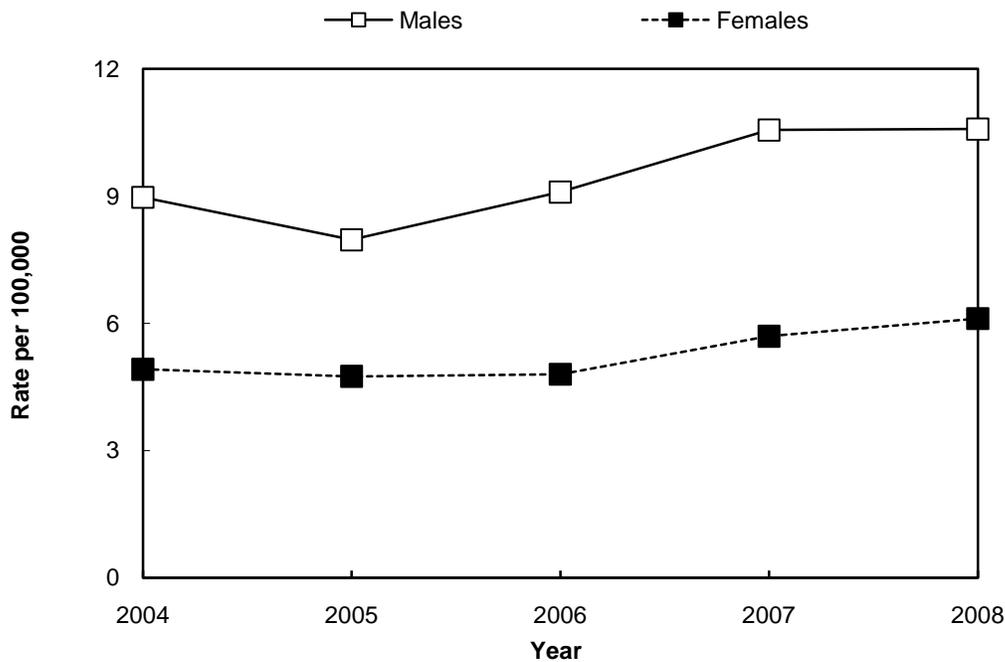
NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2004-2008 based on ICD-10 codes. See Technical Notes.

## INJURY DEATHS: UNINT. FALLS

### TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX PENNSYLVANIA RESIDENTS, 2004-2008

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2004	521	9.0 *	2004	477	4.9
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

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



### AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2004-2008

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2004	9.3	8.3	2004	5.0	4.6
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

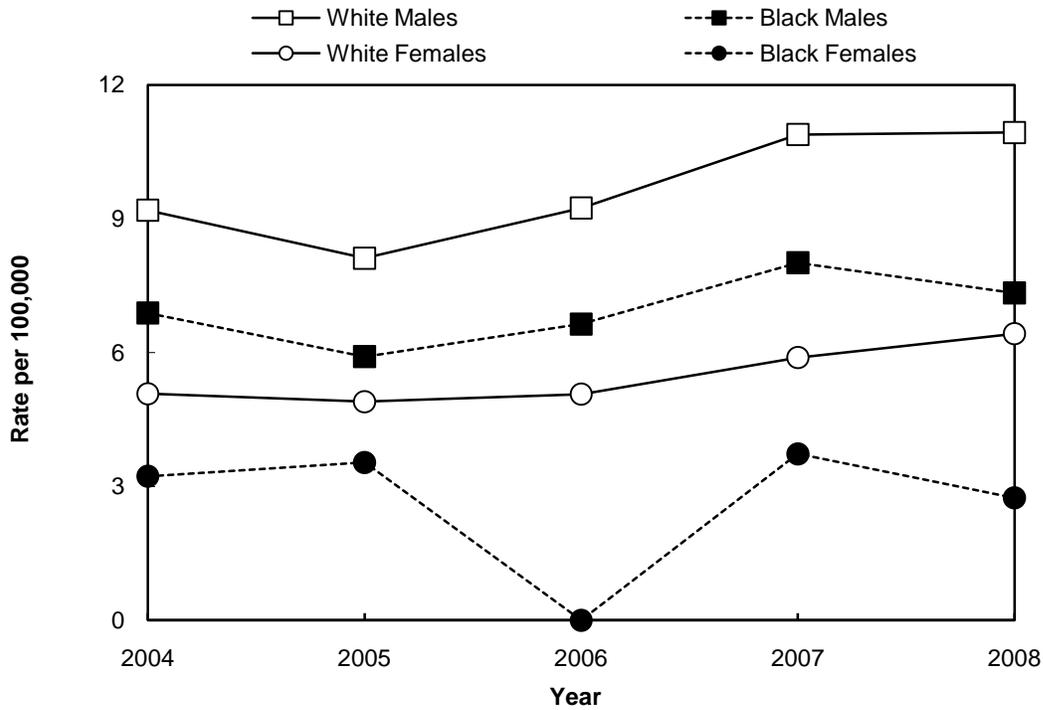
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

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, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	489	29	456	21	9	5
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



### AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	9.2	6.9	5.1	3.2 *	NA	NA
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

\* 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, 2004-2008

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL	
	No.	Rate								
<b>TOTAL</b>	<b>5,313</b>	<b>8.5</b>	<b>2,719</b>	<b>9.0</b>	<b>2,594</b>	<b>8.1</b>	<b>3,850</b>	<b>8.6</b>	<b>1,463</b>	<b>8.5</b>
< 5	16	0.4	10	0.5	6	NA	11	0.4	5	NA
5-9	5	NA	3	NA	2	NA	4	NA	1	NA
10-14	5	NA	1	NA	4	NA	3	NA	2	NA
15-19	13	0.3	9	NA	4	NA	12	0.4	1	NA
20-24	35	0.8	25	1.1	10	0.5	27	0.9	8	NA
25-29	31	0.9	25	1.4	6	NA	25	0.9	6	NA
30-34	31	0.8	24	1.3	7	NA	20	0.7	11	1.1
35-39	44	1.1	39	1.9	5	NA	28	0.9	16	1.4
40-44	101	2.2	79	3.5	22	1.0	70	2.1	31	2.5
45-49	140	3.0	107	4.7	33	1.4	108	3.2	32	2.5
50-54	146	3.3	114	5.3	32	1.4	104	3.3	42	3.4
55-59	191	5.0	135	7.2	56	2.8	146	5.3	45	4.1
60-64	204	6.4	132	8.8	72	4.3	141	6.3	63	6.7
65-69	256	9.9	166	14.0	90	6.4	189	10.4	67	8.6
70-74	349	15.5	201	20.6	148	11.7	239	15.2	110	16.4
75-79	659	34.2	354	45.4	305	26.6	473	34.8	186	32.7
80-84	1,096	76.3	542	100.7	554	61.6	771	75.2	325	78.8
85 +	1,989	155.7	751	202.3	1,238	136.7	1,478	161.4	511	141.3

\* 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, 2004-2008

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
<b>TOTAL</b>	<b>2,546</b>	<b>9.8</b>	<b>150</b>	<b>4.8</b>	<b>2,487</b>	<b>9.0</b>	<b>101</b>	<b>2.9</b>	<b>55</b>	<b>2.1</b>		
< 5	7	NA	3	NA	6	NA	0	NA	2	NA		
5-9	1	NA	2	NA	2	NA	0	NA	0	NA		
10-14	1	NA	0	NA	3	NA	1	NA	0	NA		
15-19	9	NA	0	NA	4	NA	0	NA	0	NA		
20-24	24	1.3	1	NA	8	NA	2	NA	2	NA		
25-29	21	1.4	2	NA	5	NA	1	NA	4	NA		
30-34	22	1.4	2	NA	6	NA	1	NA	0	NA		
35-39	34	1.9	5	NA	4	NA	1	NA	2	NA		
40-44	72	3.7	4	NA	21	1.1	1	NA	4	NA		
45-49	97	4.8	7	NA	24	1.2	9	NA	4	NA		
50-54	93	4.8	18	10.3	*	31	1.6	1	NA	2	NA	
55-59	109	6.5	24	17.4	*	47	2.7	9	NA	6	NA	
60-64	120	8.8	12	11.6		70	4.7	2	NA	4	NA	
65-69	153	14.1	12	15.7		83	6.5	7	NA	5	NA	
70-74	189	21.0	10	16.4		139	12.0	8	NA	6	NA	
75-79	341	46.9	11	24.7	*	287	27.1	16	20.5	7	NA	
80-84	519	103.4	20	67.0	*	535	64.3	17	29.0	*	3	NA
85 +	732	212.1	17	79.0	*	1,212	144.4	25	43.9	*	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. 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, 2004-2008

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>376</b>	<b>8.1</b>	<b>256</b>	<b>7.5</b>	<b>638</b>	<b>8.2</b>	<b>1,919</b>	<b>7.8</b>	<b>711</b>	<b>8.8</b>	<b>1,413</b>	<b>10.4</b>
< 5	0	NA	1	NA	2	NA	7	NA	3	NA	3	NA
5-9	1	NA	0	NA	1	NA	2	NA	1	NA	0	NA
10-14	1	NA	1	NA	1	NA	1	NA	0	NA	1	NA
15-19	0	NA	0	NA	1	NA	8	NA	2	NA	2	NA
20-24	3	NA	0	NA	6	NA	13	0.8	4	NA	9	NA
25-29	2	NA	0	NA	4	NA	11	0.7	8	NA	6	NA
30-34	0	NA	1	NA	3	NA	10	0.6	8	NA	9	NA
35-39	4	NA	3	NA	4	NA	15	0.9	10	1.8	8	NA
40-44	5	NA	5	NA	14	2.5	43	2.3	12	2.0	22	2.2
45-49	9	NA	3	NA	12	2.1	60	3.3	15	2.5	41	3.9
50-54	12	3.6	5	NA	21	3.8	58	3.4	20	3.5	30	3.0
55-59	16	5.4	10	4.9	19	3.8	81	5.6	19	3.7	46	5.2
60-64	16	6.4	14	8.1	29	6.8	67	5.8	27	6.4	51	6.9
65-69	25	11.9	12	8.1	32	9.3	97	10.4	22	6.3 -	68	11.1
70-74	22	11.9	16	12.6	43	14.6	122	15.2	52	17.9	94	17.1
75-79	59	37.1	34	32.3	82	32.9	205	30.0	88	36.5	191	38.9
80-84	73	62.5	58	75.2	130	71.4	377	73.1	163	94.5 +	295	79.1
85 +	128	127.5 -	93	141.1	233	143.7	742	158.7	256	173.7	537	160.8

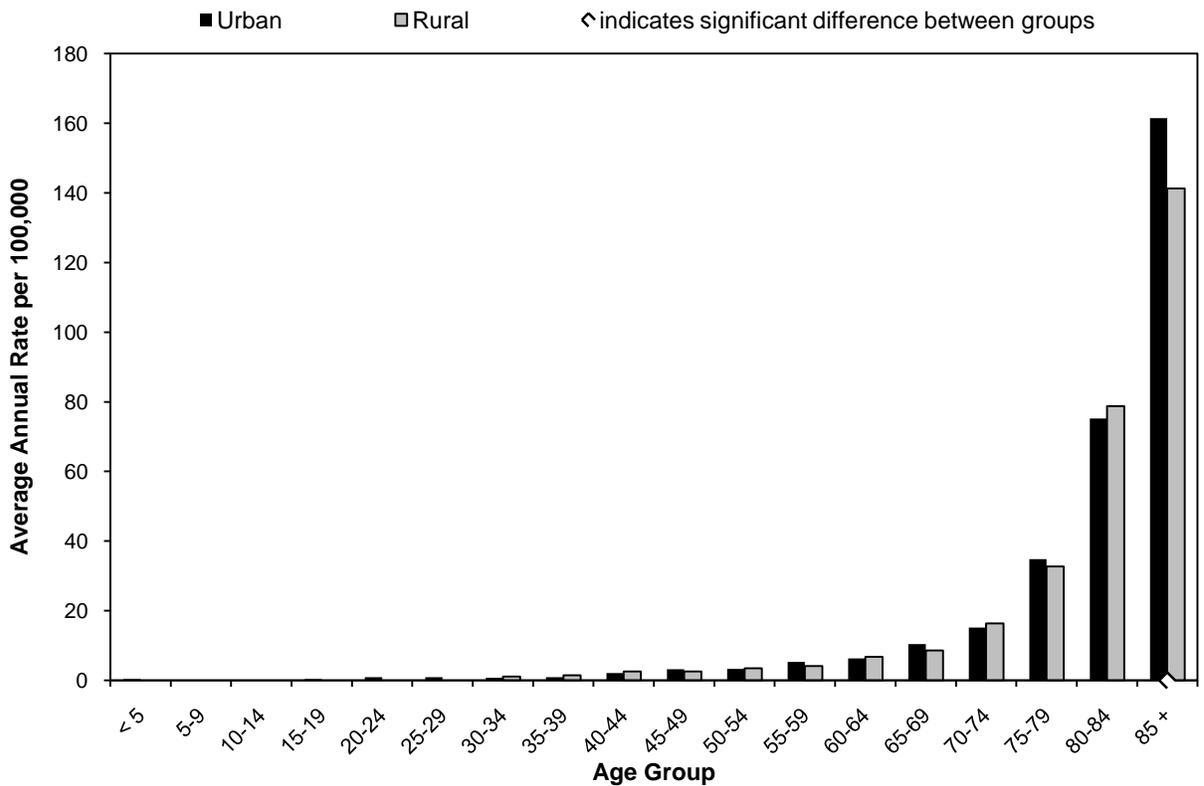
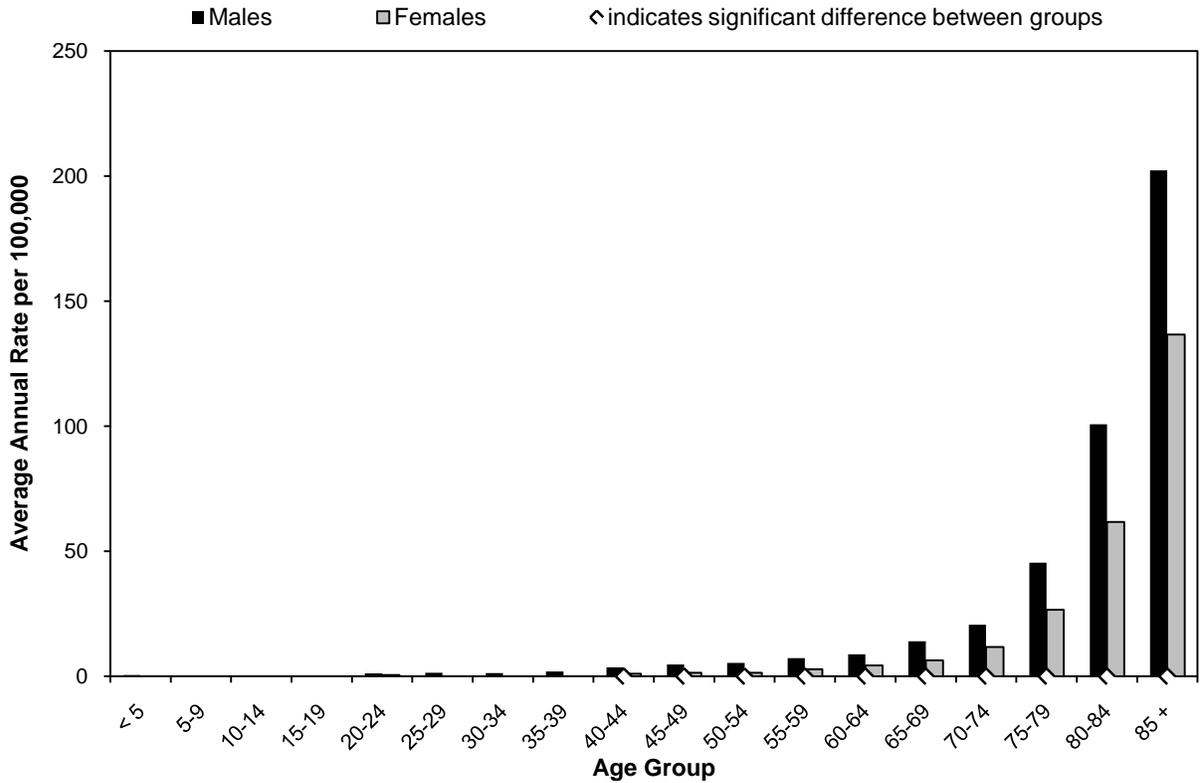
*+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.*

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.

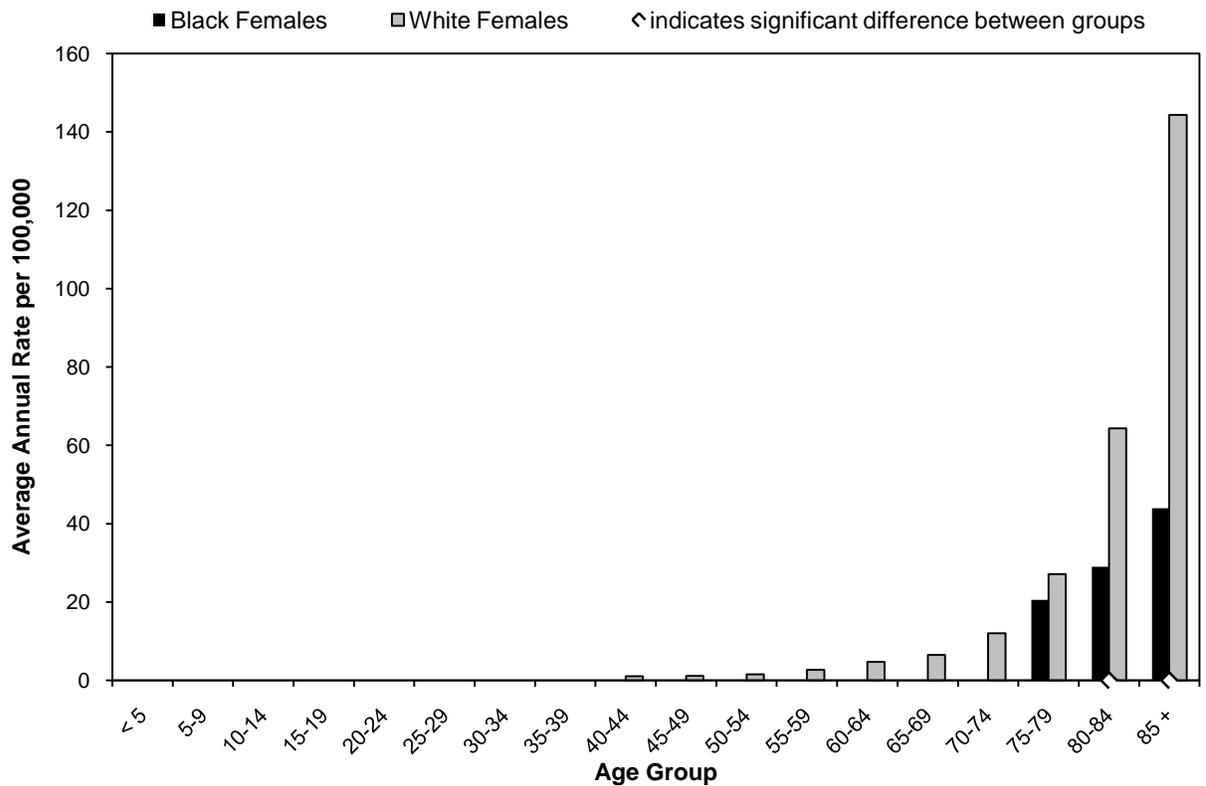
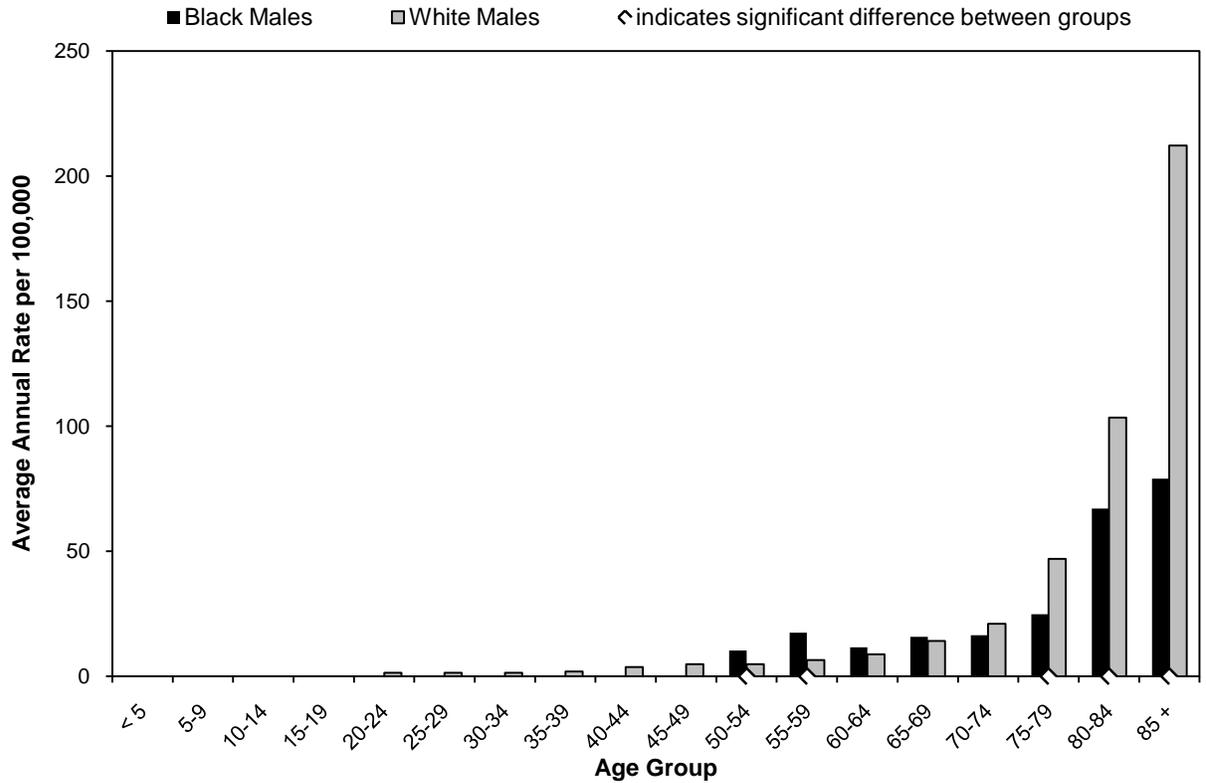
# INJURY DEATHS: UNINT. FALLS

AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS  
PENNSYLVANIA RESIDENTS, 2004-2008



# INJURY DEATHS: UNINT. FALLS

## AVERAGE ANNUAL DEATH RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2004-2008



# INJURY DEATHS: UNINT. FALLS

## NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2004-2008

District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
<b>Northeast</b>	638	6.5	6.0-7.0	<b>Southeast</b>	1,919	6.8	6.5-7.1
Carbon	28	6.6	4.1-9.0	Berks	142	6.3	5.2-7.3
Lackawanna	78	5.1	4.0-6.2 -	Bucks	250	8.3	7.3-9.3 +
Lehigh	213	10.7	9.3-12.1 +	Chester	124	5.6	4.6-6.6 -
Luzerne	95	4.3	3.4-5.2 -	Delaware	273	8.1	7.1-9.0
Monroe	45	6.4	4.6-8.3	Lancaster	152	5.6	4.7-6.5 -
Northampton	123	7.0	5.8-8.3	Montgomery	399	8.6	7.8-9.5 +
Pike	10	NA		Philadelphia	494	6.1	5.6-6.7 -
Susquehanna	20	7.3	4.1-10.6	Schuylkill	85	7.9	6.2-9.5
Wayne	17	NA					
Wyoming	9	NA					
<b>North Central</b>	256	6.3	5.5-7.0	<b>South Central</b>	711	7.6	7.1-8.2
Bradford	18	NA		Adams	40	7.5	5.2-9.8
Centre	38	6.4	4.4-8.4	Bedford	15	NA	
Clinton	16	NA		Blair	76	8.8	6.8-10.8
Columbia	35	8.9	6.0-11.9	Cumberland	78	6.1	4.8-7.5
Lycoming	32	4.3	2.8-5.7 -	Dauphin	86	5.9	4.6-7.1
Montour	11	NA		Franklin	59	6.9	5.1-8.6
Northumberland	53	7.8	5.7-9.9	Fulton	6	NA	
Potter	9	NA		Huntingdon	15	NA	
Snyder	11	NA		Juniata	7	NA	
Sullivan	1	NA		Lebanon	36	4.6	3.1-6.1 -
Tioga	13	NA		Mifflin	23	7.7	4.6-10.8
Union	19	NA		Perry	14	NA	
				York	256	11.7	10.3-13.2 +
<b>Northwest</b>	376	6.2	5.6-6.8	<b>Southwest</b>	1,413	7.4	7.0-7.8
Cameron	2	NA		Allegheny	619	7.1	6.5-7.7
Clarion	12	NA		Armstrong	34	6.9	4.6-9.2
Clearfield	33	5.9	3.9-7.9	Beaver	76	6.1	4.7-7.5
Crawford	40	7.3	5.0-9.5	Butler	60	5.7	4.3-7.2
Elk	15	NA		Cambria	99	8.7	7.0-10.4
Erie	122	7.4	6.1-8.7	Fayette	67	6.6	5.0-8.2
Forest	2	NA		Greene	19	NA	
Jefferson	18	NA		Indiana	42	7.5	5.2-9.7
Lawrence	44	6.6	4.6-8.5	Somerset	56	9.4	7.0-11.9
McKean	16	NA		Washington	107	7.7	6.2-9.2
Mercer	31	3.8	2.5-5.1 -	Westmoreland	234	8.9	7.8-10.1 +
Venango	25	7.1	4.3-9.9				
Warren	16	NA		<b>Pennsylvania</b>	<b>5,313</b>	<b>6.9</b>	<b>6.8-7.1</b>

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

### TOTAL NUMBER OF INJURY DEATHS AND AVERAGE ANNUAL DEATH RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2004-2008

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	2,719	2,594	<b>5,313</b>	39	0.2	97	0.8	285	2.1	541	4.7	4,349	45.8
<b>Northeast</b>	327	311	<b>638</b>	5	NA	13	0.9	30	1.8	69	4.7	520	42.2
Carbon	21	7	28	0	NA	0	NA	0	NA	8	NA	19	35.4
Lackawanna	42	36	78	0	NA	3	NA	0	NA	13	6.6	62	32.3
Lehigh	96	117	213	2	NA	1	NA	10	2.8	11	3.6	189	74.9
Luzerne	53	42	95	1	NA	3	NA	5	NA	20	6.7	66	22.8
Monroe	25	20	45	2	NA	1	NA	5	NA	4	NA	33	34.9
Northampton	61	62	123	0	NA	2	NA	6	NA	4	NA	111	52.4
Pike	3	7	10	0	NA	0	NA	0	NA	3	NA	7	NA
Susquehanna	10	10	20	0	NA	1	NA	1	NA	3	NA	15	45.2
Wayne	9	8	17	0	NA	2	NA	2	NA	2	NA	11	24.4
Wyoming	7	2	9	0	NA	0	NA	1	NA	1	NA	7	NA
<b>Southeast</b>	997	922	<b>1,919</b>	18	0.3	34	0.7	118	2.2	206	4.8	1,543	45.4
Berks	80	62	142	2	NA	3	NA	8	NA	21	6.0	108	38.3
Bucks	118	132	250	2	NA	4	NA	14	1.9	9	NA	221	53.9
Chester	67	57	124	0	NA	3	NA	7	NA	14	3.2	100	35.0
Delaware	123	150	273	4	NA	4	NA	13	2.2	26	5.3	226	56.4
Lancaster	91	61	152	5	NA	3	NA	12	2.3	16	3.8	116	32.8
Montgomery	190	209	399	3	NA	4	NA	14	1.6	23	3.2	355	62.1
Philadelphia	283	211	494	2	NA	12	0.7	44	3.0	89	7.8	347	36.1
Schuylkill	45	40	85	0	NA	1	NA	6	NA	8	NA	70	51.0

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	2,719	2,594	5,313	39	0.2	97	0.8	285	2.1	541	4.7	4,349	45.8
<b>North Central</b>	122	134	<b>256</b>	2	NA	1	NA	11	1.6	29	4.8	213	40.7
Bradford	7	11	18	0	NA	0	NA	3	NA	1	NA	14	27.4
Centre	14	24	38	0	NA	0	NA	1	NA	5	NA	32	41.2
Clinton	6	10	16	0	NA	0	NA	0	NA	1	NA	15	48.1
Columbia	19	16	35	0	NA	0	NA	3	NA	5	NA	27	51.8
Lycoming	12	20	32	0	NA	0	NA	1	NA	3	NA	28	29.2
Montour	5	6	11	0	NA	0	NA	0	NA	3	NA	8	NA
Northumberland	31	22	53	1	NA	0	NA	2	NA	7	NA	43	50.1
Potter	3	6	9	0	NA	0	NA	1	NA	0	NA	8	NA
Snyder	5	6	11	0	NA	0	NA	0	NA	1	NA	10	37.3
Sullivan	0	1	1	0	NA	0	NA	0	NA	0	NA	1	NA
Tioga	9	4	13	0	NA	0	NA	0	NA	1	NA	12	34.4
Union	11	8	19	1	NA	1	NA	0	NA	2	NA	15	49.9
<b>South Central</b>	356	355	<b>711</b>	6	NA	20	1.3	37	2.1	66	4.3	581	48.4
Adams	26	14	40	0	NA	4	NA	3	NA	4	NA	29	41.8
Bedford	9	6	15	0	NA	0	NA	0	NA	3	NA	12	28.0
Blair	36	40	76	0	NA	0	NA	2	NA	9	NA	65	59.7
Cumberland	43	35	78	1	NA	1	NA	10	4.2	6	NA	59	34.8
Dauphin	38	48	86	0	NA	3	NA	4	NA	13	5.3	66	37.3
Franklin	36	23	59	0	NA	2	NA	4	NA	5	NA	48	42.1
Fulton	4	2	6	0	NA	1	NA	0	NA	0	NA	5	NA
Huntingdon	4	11	15	0	NA	0	NA	0	NA	0	NA	15	42.5
Juniata	2	5	7	0	NA	0	NA	1	NA	0	NA	6	NA
Lebanon	20	16	36	1	NA	2	NA	0	NA	3	NA	30	28.9
Mifflin	11	12	23	0	NA	2	NA	0	NA	1	NA	20	48.7
Perry	8	6	14	1	NA	1	NA	3	NA	0	NA	9	NA
York	119	137	256	3	NA	4	NA	10	2.1	22	5.6	217	77.6

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	2,719	2,594	5,313	39	0.2	97	0.8	285	2.1	541	4.7	4,349	45.8
<b>Northwest</b>	199	177	<b>376</b>	2	NA	5	NA	18	1.9	44	5.0	307	39.9
Cameron	1	1	2	0	NA	0	NA	0	NA	0	NA	2	NA
Clarion	6	6	12	0	NA	0	NA	0	NA	1	NA	11	33.1
Clearfield	18	15	33	0	NA	0	NA	2	NA	4	NA	27	37.6
Crawford	21	19	40	0	NA	0	NA	3	NA	7	NA	30	42.4
Elk	8	7	15	0	NA	0	NA	2	NA	2	NA	11	36.5
Erie	61	61	122	0	NA	2	NA	3	NA	14	5.7	103	51.4
Forest	1	1	2	0	NA	0	NA	0	NA	0	NA	2	NA
Jefferson	9	9	18	2	NA	1	NA	0	NA	2	NA	13	31.6
Lawrence	24	20	44	0	NA	1	NA	2	NA	7	NA	34	39.8
McKean	8	8	16	0	NA	1	NA	0	NA	3	NA	12	32.3
Mercer	17	14	31	0	NA	0	NA	3	NA	0	NA	28	26.6
Venango	14	11	25	0	NA	0	NA	3	NA	2	NA	20	42.1
Warren	11	5	16	0	NA	0	NA	0	NA	2	NA	14	38.2
<b>Southwest</b>	718	695	<b>1,413</b>	6	NA	24	1.0	71	2.4	127	4.8	1,185	50.3
Allegheny	312	307	619	3	NA	13	1.2	33	2.5	62	5.3	508	48.2
Armstrong	18	16	34	0	NA	0	NA	2	NA	2	NA	30	47.0
Beaver	46	30	76	0	NA	1	NA	5	NA	8	NA	62	38.6
Butler	24	36	60	0	NA	1	NA	5	NA	3	NA	51	39.2
Cambria	50	49	99	0	NA	2	NA	4	NA	10	6.9	83	59.8
Fayette	33	34	67	0	NA	2	NA	6	NA	5	NA	54	42.1
Greene	7	12	19	0	NA	1	NA	0	NA	2	NA	16	53.5
Indiana	24	18	42	0	NA	0	NA	2	NA	3	NA	37	54.1
Somerset	26	30	56	0	NA	0	NA	1	NA	5	NA	50	69.1
Washington	60	47	107	2	NA	0	NA	5	NA	10	4.9	90	50.8
Westmoreland	118	116	234	1	NA	4	NA	8	NA	17	4.6	204	61.2

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.

## INJURY DEATHS: UNINT. FALLS

### NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2004-2008

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	32	4.2	2.7-5.7	Allegheny	586	7.5	6.9-8.1	Berks	5	NA	
Chester	4	NA		Chester	119	5.9	4.8-7.0 -	Lancaster	1	NA	
Dauphin	7	NA		Dauphin	79	6.2	4.8-7.6	Lehigh	3	NA	
Delaware	18	NA		Delaware	252	8.5	7.5-9.6 +	Philadelphia	28	7.3	4.6-9.9
Montgomery	13	NA		Montgomery	377	8.9	8.0-9.8 +				
Philadelphia	146	4.8	4.0-5.5	Philadelphia	341	7.3	6.5-8.1				
Pennsylvania	251	4.6	4.0-5.2	Pennsylvania	5,033	7.2	7.0-7.4	Pennsylvania	55	4.2	3.1-5.3

### NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2004-2008

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	13.2%	17	15	<b>32</b>	5.2%	2	NA	0	NA	7	NA	8	NA	15	16.5
	White	83.5%	295	291	<b>586</b>	94.7%	1	NA	13	1.5	26	2.3	54	5.3	492	51.7
Chester	Black	6.3%	3	1	<b>4</b>	3.2%	0	NA	1	NA	0	NA	1	NA	2	NA
	White	90.0%	64	55	<b>119</b>	96.0%	0	NA	2	NA	7	NA	13	3.2	97	36.5
Dauphin	Black	17.8%	4	3	<b>7</b>	8.1%	0	NA	1	NA	1	NA	3	NA	2	NA
	White	77.8%	34	45	<b>79</b>	91.9%	0	NA	2	NA	3	NA	10	4.9	64	41.3
Delaware	Black	17.4%	10	8	<b>18</b>	6.6%	0	NA	0	NA	1	NA	3	NA	14	36.3
	White	77.3%	110	142	<b>252</b>	92.3%	4	NA	4	NA	11	2.4	22	5.3	211	59.7
Montgomery	Black	8.6%	8	5	<b>13</b>	3.3%	1	NA	0	NA	0	NA	4	NA	8	NA
	White	85.0%	176	201	<b>377</b>	94.5%	2	NA	4	NA	14	1.9	17	2.7	340	64.7
Philadelphia	Black	45.6%	86	60	<b>146</b>	29.6%	1	NA	5	NA	14	2.1	38	7.7	88	24.6
	White	47.3%	190	151	<b>341</b>	69.0%	1	NA	6	NA	28	4.1	51	8.8	255	44.9
Pennsylvania	Black	10.6%	150	101	<b>251</b>	4.7%	6	NA	9	NA	27	2.0	66	7.0	143	22.7
	White	86.1%	2,546	2,487	<b>5,033</b>	94.7%	33	0.2	86	0.9	252	2.2	470	4.6	4,190	48.0

## INJURY DEATHS: ALL POISONING

In 2008, among Pennsylvania residents, there were 1,997 deaths due to poisoning. On average, one resident died every five hours.

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### ***Injury Definition***

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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.*

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### ***Trends Over Time***

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- Age-adjusted death rates for poisoning increased by 20 percent from 2004 to 2008, from 13.6 to 16.3 deaths per 100,000 population.
- Males showed significantly higher age-adjusted poisoning death rates than females over 2004 to 2008 (rates were 21.7 and 11.0, respectively, in 2008).
- Urban males showed significantly higher age-adjusted poisoning death rates than rural males over 2005 to 2008 (rates were 23.4 and 17.3, respectively, in 2008).

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### ***Demographic Trends***

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- White males ages 20 to 54 comprised over half of all poisoning deaths in 2004 to 2008.
- 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.

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### ***Regional Trends***

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- 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 2004 to 2008 that were significantly higher than the comparable state rate: Allegheny, Cambria, Delaware, Lackawanna, Luzerne and Philadelphia counties. Most counties were urban.

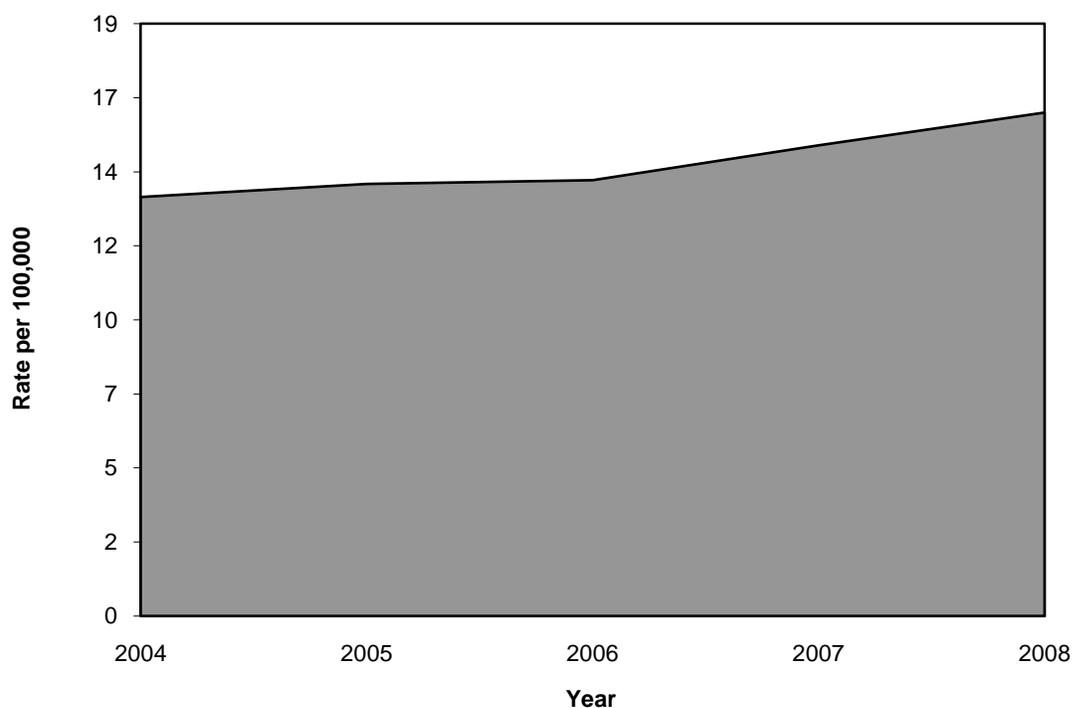
## INJURY DEATHS: ALL POISONING

### TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES PENNSYLVANIA RESIDENTS, 2004-2008

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Year	No.	Rate
2004	1,654	13.6
2005	1,711	14.0
2006	1,708	14.1
2007	1,884	15.3
2008	1,997	16.3

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### AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2004-2008

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Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2004	14.9	9.2	13.7	14.5	9.7	14.9
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

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

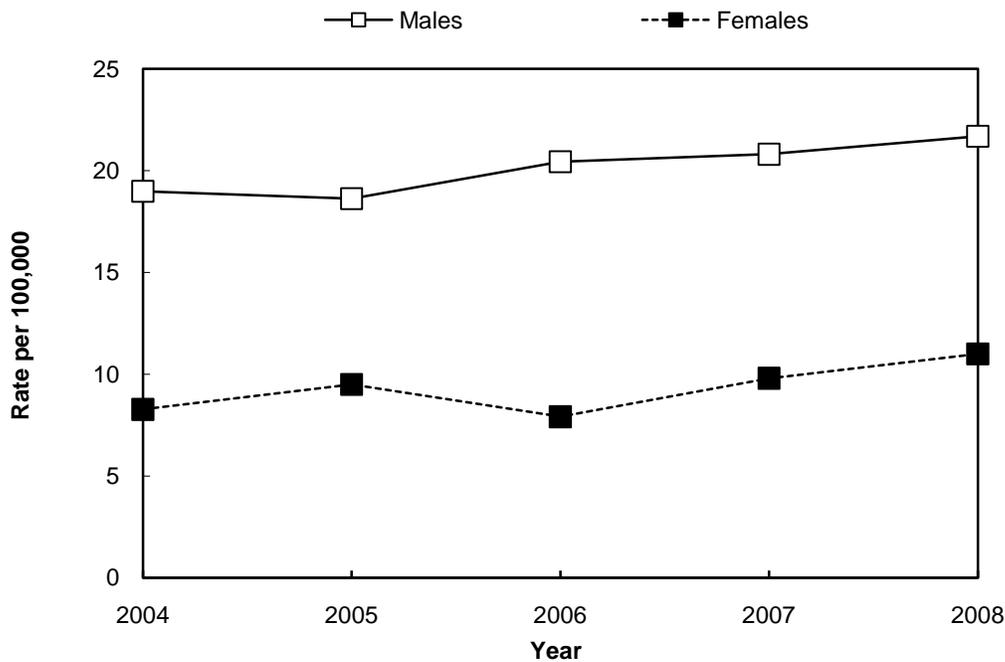
Rates are per 100,000. Data for 2004-2008 based on ICD-10 codes. See Technical Notes.

## INJURY DEATHS: ALL POISONING

### TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX PENNSYLVANIA RESIDENTS, 2004-2008

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2004	1,136	19.0 *	2004	518	8.3
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

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



### AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2004-2008

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2004	19.8	17.0	2004	8.5	7.5
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 *

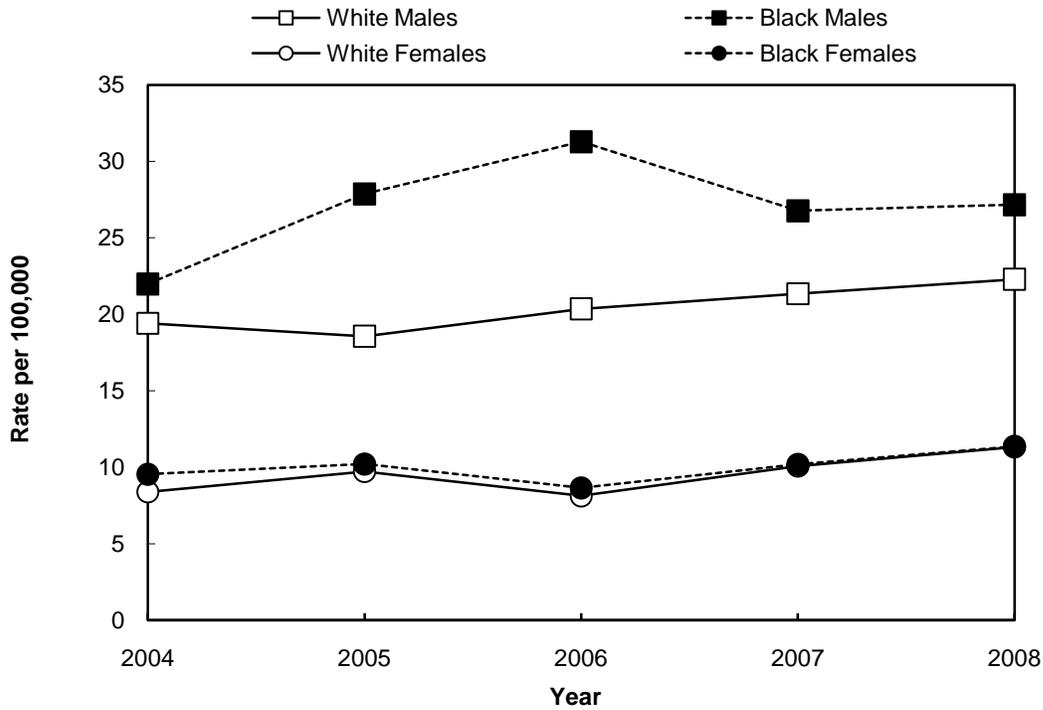
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

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, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	1,007	122	455	61	37	5
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



### AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	19.4	22.0	8.4	9.5	16.4	NA
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

\* 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, 2004-2008

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>8,954</b>	<b>14.4</b>	<b>6,040</b>	<b>20.0</b>	<b>2,914</b>	<b>9.1</b>	<b>6,925</b>	<b>15.4</b>	<b>2,029</b>	<b>11.8</b>
< 5	18	0.5	9	NA	9	NA	13	0.5	5	NA
5-9	2	NA	1	NA	1	NA	1	NA	1	NA
10-14	12	0.3	10	0.5	2	NA	9	NA	3	NA
15-19	244	5.3	184	7.9	60	2.6	172	5.2	72	5.5
20-24	854	19.7	652	29.6	202	9.5	632	20.4	222	18.0
25-29	901	24.9	681	36.9	220	12.4	665	24.7	236	25.5
30-34	821	21.8	592	31.3	229	12.2	630	22.8	191	19.0
35-39	1,030	24.8	682	33.0	348	16.6	795	26.1	235	21.1
40-44	1,369	30.1	900	40.0	469	20.4	1,072	32.3	297	24.2
45-49	1,479	31.8	941	41.0	538	22.8	1,155	34.2	324	25.4
50-54	1,075	24.5	716	33.3	359	16.0	864	27.3	211	17.2
55-59	541	14.0	340	18.3	201	10.1	460	16.7	81	7.3
60-64	192	6.1	114	7.6	78	4.7	148	6.6	44	4.7
65-69	103	4.0	55	4.6	48	3.4	75	4.1	28	3.6
70-74	68	3.0	39	4.0	29	2.3	54	3.4	14	2.1
75-79	96	5.0	51	6.5	45	3.9	71	5.2	25	4.4
80-84	60	4.2	34	6.3	26	2.9	44	4.3	16	3.9
85 +	87	6.8	37	10.0	50	5.5	64	7.0	23	6.4

\* 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, 2004-2008

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>5,251</b>	<b>20.2</b>	<b>758</b>	<b>24.2</b>	<b>2,570</b>	<b>9.4</b>	<b>326</b>	<b>9.4</b>	<b>316</b>	<b>11.9</b>
< 5	5	NA	4	NA	5	NA	3	NA	2	NA
5-9	1	NA	0	NA	0	NA	1	NA	0	NA
10-14	8	NA	2	NA	2	NA	0	NA	0	NA
15-19	175	9.1	6	NA	57	3.0	2	NA	3	NA
20-24	624	34.2	18	6.3	191	10.9	11	3.9	29	12.5
25-29	643	42.1	34	14.2	199	13.7	19	7.9	49	22.8
30-34	521	32.8	70	32.7	196	12.5	31	13.6	38	18.9
35-39	594	33.5	82	38.3	299	16.9	47	19.8	56	28.3
40-44	790	40.3	110	50.7	405	20.5	60	24.4	51	28.1
45-49	812	40.0	127	62.0	465	22.6	71	29.9	38	24.0
50-54	564	29.3	151	86.4	312	15.8	45	21.4	30	26.1
55-59	246	14.6	92	66.6	177	10.0	22	12.6	13	14.5
60-64	82	6.0	32	30.9	70	4.7	8	NA	3	NA
65-69	44	4.0	11	14.4	47	3.7	1	NA	2	NA
70-74	28	3.1	11	18.0	29	2.5	0	NA	1	NA
75-79	45	6.2	5	NA	42	4.0	3	NA	1	NA
80-84	33	6.6	0	NA	26	3.1	0	NA	0	NA
85 +	35	10.1	2	NA	48	5.7	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, 2004-2008

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>618</b>	<b>13.2</b>	<b>255</b>	<b>7.5</b>	<b>1,073</b>	<b>13.8</b>	<b>4,106</b>	<b>16.7</b>	<b>810</b>	<b>10.0</b>	<b>2,092</b>	<b>15.3</b>
< 5	2	NA	0	NA	2	NA	6	NA	2	NA	6	NA
5-9	1	NA	0	NA	0	NA	1	NA	0	NA	0	NA
10-14	0	NA	1	NA	2	NA	4	NA	1	NA	4	NA
15-19	22	6.2	6	NA	29	5.0	108	5.9	26	4.5	53	5.5
20-24	51	16.1	32	9.1 -	109	20.7	378	21.8 +	81	15.6 -	203	23.0 +
25-29	55	21.1	24	13.8 -	117	27.3	392	25.6	102	21.5	211	28.2
30-34	62	22.7	20	10.3 -	112	24.7	380	24.4 +	75	15.1 -	172	21.8
35-39	57	19.3	23	10.9 -	139	27.0	499	29.2 +	88	16.0 -	224	25.4
40-44	84	25.5	49	21.3 -	158	27.9	649	35.4 +	107	17.8 -	322	32.6
45-49	115	33.2	36	15.2 -	165	28.4	678	37.1 +	115	18.8 -	370	35.3 +
50-54	93	28.1	25	11.0 -	115	20.7	499	29.6 +	87	15.0 -	256	25.3
55-59	28	9.5 -	15	7.4 -	57	11.5	261	18.0 +	50	9.7 -	130	14.6
60-64	13	5.2	8	NA	21	4.9	86	7.4	20	4.7	44	6.0
65-69	9	NA	4	NA	11	3.2	47	5.0	16	4.6	16	2.6
70-74	6	NA	3	NA	7	NA	30	3.7	8	NA	14	2.5
75-79	3	NA	5	NA	11	4.4	34	5.0	11	4.6	32	6.5
80-84	6	NA	3	NA	9	NA	21	4.1	8	NA	13	3.5
85 +	10	10.0	1	NA	9	NA	32	6.8	13	8.8	22	6.6

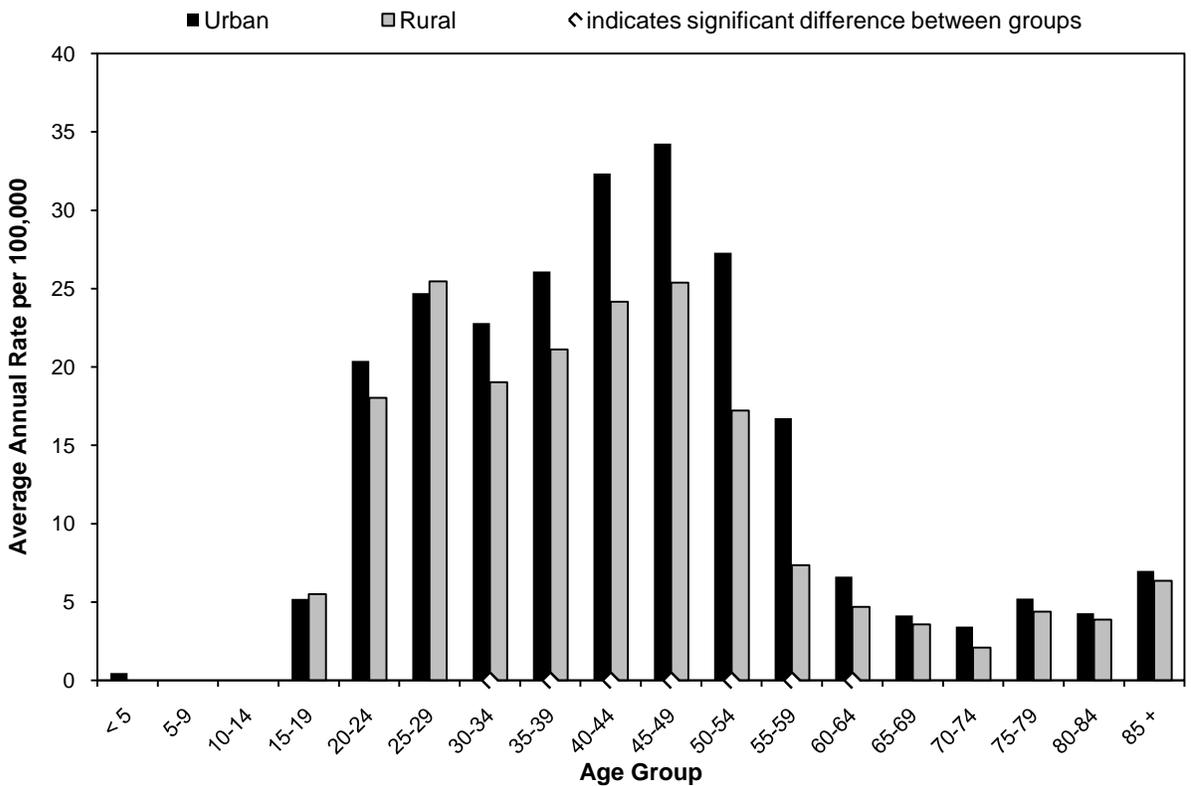
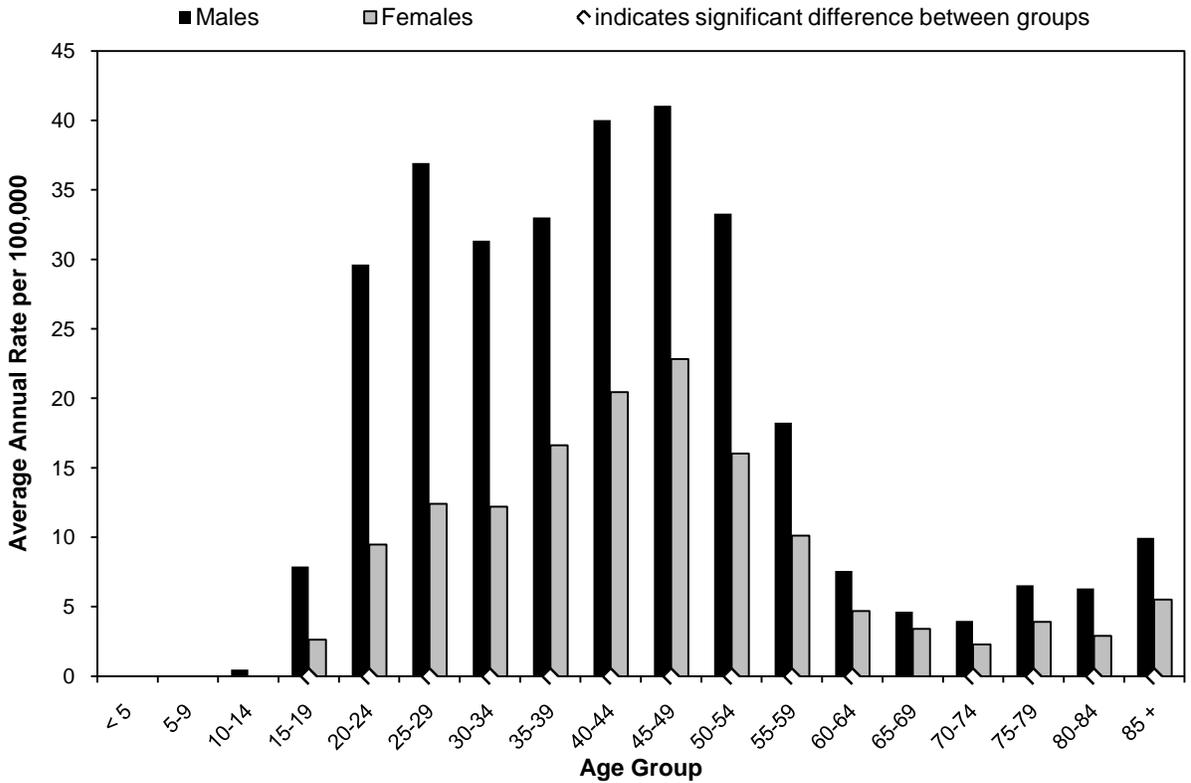
*+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.*

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.

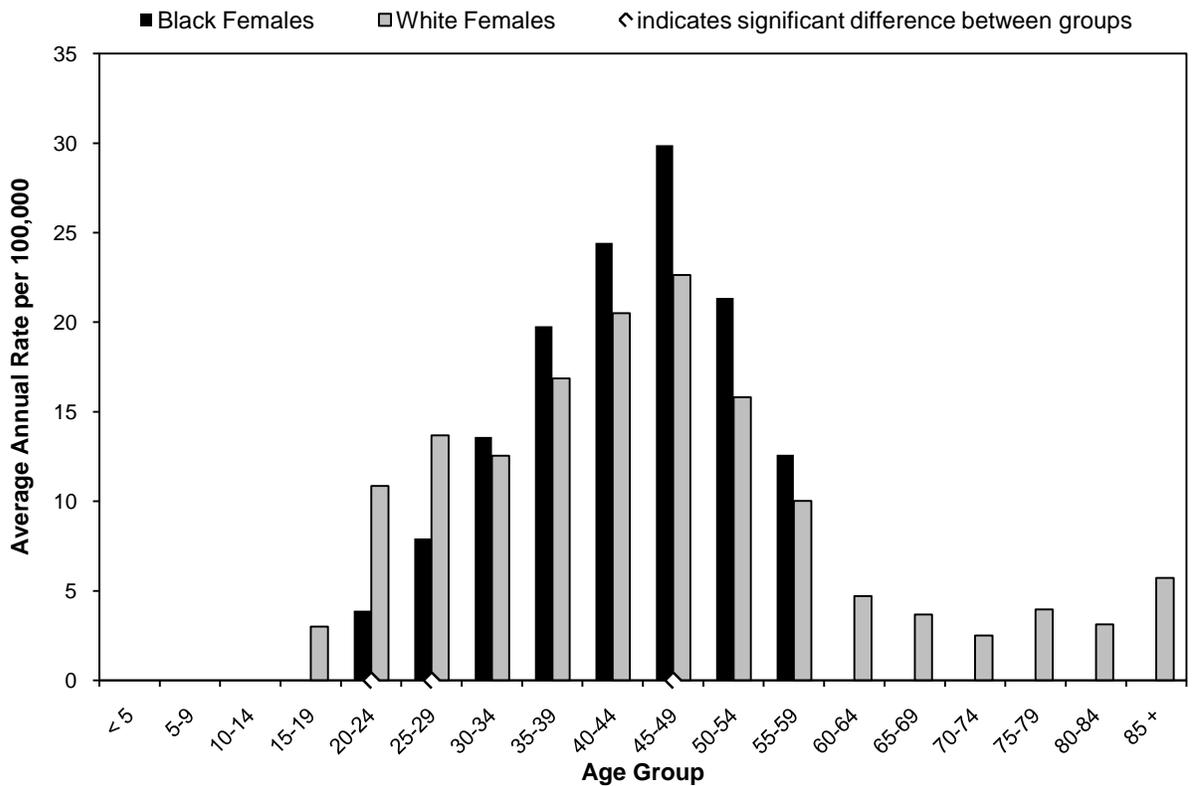
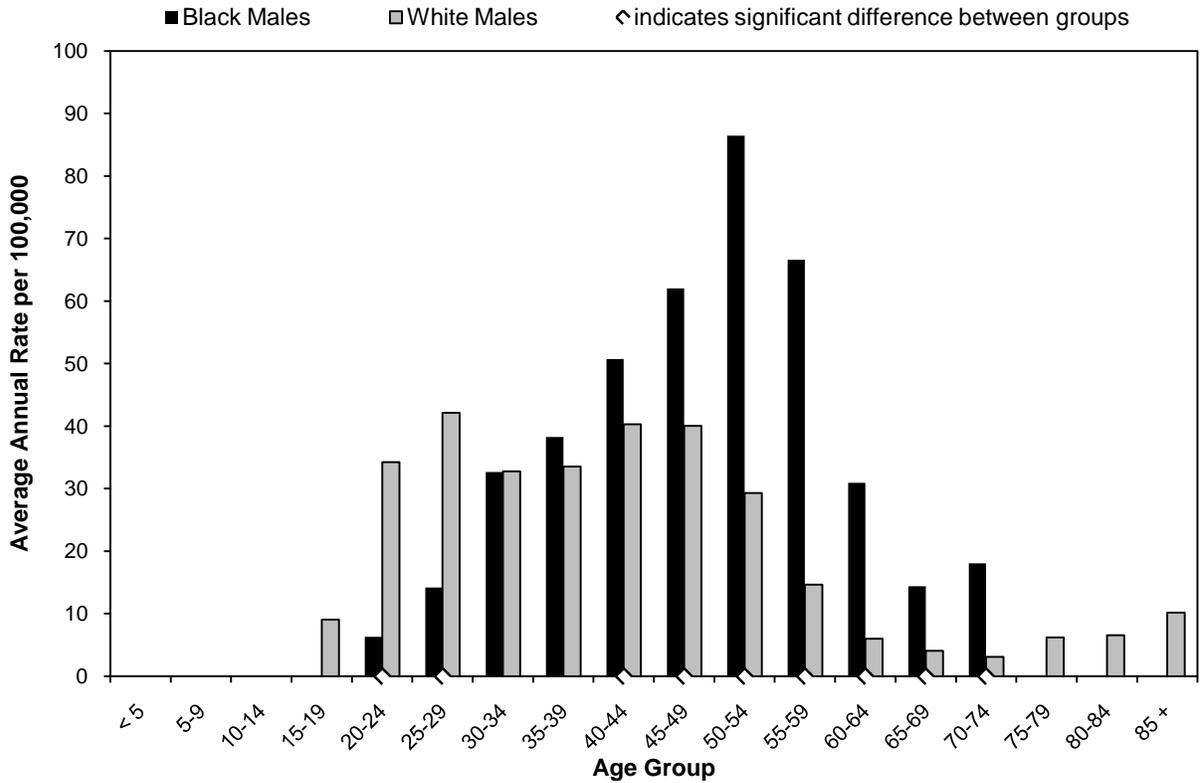
# INJURY DEATHS: ALL POISONING

AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS  
PENNSYLVANIA RESIDENTS, 2004-2008



# INJURY DEATHS: ALL POISONING

## AVERAGE ANNUAL DEATH RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2004-2008



## INJURY DEATHS: ALL POISONING

### NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2004-2008

District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
<b>Northeast</b>	1,073	14.4	13.5-15.2	<b>Southeast</b>	4,106	16.9	16.3-17.4 +
Carbon	48	16.0	11.5-20.5	Berks	200	10.4	8.9-11.8 -
Lackawanna	179	18.3	15.6-21.0 +	Bucks	438	14.4	13.1-15.8
Lehigh	214	13.2	11.4-15.0	Chester	224	9.3	8.1-10.6 -
Luzerne	278	18.7	16.5-20.9 +	Delaware	509	18.5	16.9-20.1 +
Monroe	116	14.3	11.7-16.9	Lancaster	226	9.4	8.2-10.7 -
Northampton	137	9.5	7.9-11.1 -	Montgomery	483	12.6	11.5-13.8 -
Pike	25	8.9	5.4-12.4 -	Philadelphia	1,899	27.4	26.1-28.6 +
Susquehanna	24	13.3	8.0-18.6	Schuylkill	127	17.7	14.6-20.8
Wayne	35	14.4	9.6-19.2				
Wyoming	17	NA					
<b>North Central</b>	255	7.7	6.8-8.7 -	<b>South Central</b>	810	10.2	9.5-10.8 -
Bradford	19	NA		Adams	47	9.7	6.9-12.5 -
Centre	52	8.7	6.3-11.1 -	Bedford	23	10.2	6.0-14.4
Clinton	12	NA		Blair	97	16.2	12.9-19.4
Columbia	31	10.4	6.8-14.1 -	Cumberland	92	8.2	6.5-9.8 -
Lycoming	45	7.5	5.3-9.7 -	Dauphin	122	9.5	7.8-11.2 -
Montour	7	NA		Franklin	57	8.3	6.2-10.5 -
Northumberland	51	12.2	8.9-15.6	Fulton	10	NA	
Potter	11	NA		Huntingdon	20	8.4	4.7-12.1 -
Snyder	7	NA		Juniata	6	NA	
Sullivan	1	NA		Lebanon	55	8.8	6.5-11.2 -
Tioga	10	NA		Mifflin	34	16.0	10.6-21.4
Union	9	NA		Perry	13	NA	
				York	234	11.2	9.8-12.6 -
<b>Northwest</b>	618	13.6	12.5-14.7	<b>Southwest</b>	2,092	15.7	15.0-16.4 +
Cameron	5	NA		Allegheny	1,071	17.5	16.5-18.5 +
Clarion	15	NA		Armstrong	45	14.7	10.4-19.0
Clearfield	59	14.5	10.8-18.2	Beaver	106	12.4	10.0-14.8
Crawford	50	11.7	8.5-15.0	Butler	87	10.0	7.9-12.1 -
Elk	18	NA		Cambria	182	26.0	22.2-29.8 +
Erie	188	13.6	11.7-15.6	Fayette	100	14.6	11.8-17.5
Forest	1	NA		Greene	32	15.4	10.1-20.7
Jefferson	17	NA		Indiana	42	11.1	7.8-14.5
Lawrence	79	18.1	14.1-22.1	Somerset	32	8.8	5.7-11.8 -
McKean	24	11.1	6.6-15.5	Washington	125	12.7	10.5-14.9
Mercer	96	17.0	13.6-20.4	Westmoreland	270	15.5	13.6-17.3
Venango	44	17.8	12.6-23.1				
Warren	22	11.2	6.5-15.9	<b>Pennsylvania</b>	<b>8,954</b>	<b>14.7</b>	<b>14.4-15.0</b>

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, 2004-2008

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
<b>Pennsylvania</b>	6,040	2,914	<b>8,954</b>	276	1.7	2,576	22.0	3,878	29.0	1,808	15.8	414	4.4
<b>Northeast</b>	710	363	<b>1,073</b>	33	1.7	338	24.0	462	27.8	193	13.1	47	3.8
Carbon	36	12	48	2	NA	14	23.6	20	29.7	9	NA	3	NA
Lackawanna	120	59	179	7	NA	68	35.1	74	34.8	23	11.7	7	NA
Lehigh	146	68	214	5	NA	62	19.7	92	25.8	43	14.0	12	4.8
Luzerne	182	96	278	6	NA	102	36.0	114	34.4	51	17.1	5	NA
Monroe	72	44	116	6	NA	28	19.8	52	27.2	24	15.7	6	NA
Northampton	88	49	137	4	NA	37	13.7	56	18.1	30	11.2	10	4.7
Pike	13	12	25	1	NA	4	NA	12	18.0	4	NA	4	NA
Susquehanna	18	6	24	0	NA	10	28.8	13	30.0	1	NA	0	NA
Wayne	24	11	35	1	NA	5	NA	22	41.2	7	NA	0	NA
Wyoming	11	6	17	1	NA	8	NA	7	NA	1	NA	0	NA
<b>Southeast</b>	2,846	1,260	<b>4,106</b>	119	1.8	1,150	23.9	1,826	34.0	846	19.7	164	4.8
Berks	138	62	200	6	NA	47	12.8	98	22.6	36	10.3	13	4.6
Bucks	303	135	438	20	2.4	147	28.0	178	23.8	73	12.1	20	4.9
Chester	152	72	224	11	1.6	72	16.5	82	14.6	45	10.4	14	4.9
Delaware	335	174	509	16	2.1	144	27.4	212	35.4	122	24.7	14	3.5
Lancaster	151	75	226	7	NA	53	11.3	97	18.9	49	11.5	20	5.7
Montgomery	327	156	483	21	2.1	149	21.4	208	23.3	80	11.2	25	4.4
Philadelphia	1,350	549	1,899	34	1.7	501	30.1	884	60.8	430	37.6	50	5.2
Schuylkill	90	37	127	4	NA	37	27.4	67	40.1	11	8.1	8	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	6,040	2,914	<b>8,954</b>	276	1.7	2,576	22.0	3,878	29.0	1,808	15.8	414	4.4
<b>North Central</b>	152	103	<b>255</b>	7	NA	76	10.5	108	15.9	48	7.9	16	3.1
Bradford	11	8	19	1	NA	7	NA	6	NA	4	NA	1	NA
Centre	31	21	52	1	NA	10	4.6	25	20.0	15	14.6	1	NA
Clinton	5	7	12	0	NA	4	NA	5	NA	2	NA	1	NA
Columbia	22	9	31	2	NA	10	14.5	10	16.5	5	NA	4	NA
Lycoming	24	21	45	0	NA	11	9.8	18	14.7	13	11.7	3	NA
Montour	0	7	7	0	NA	2	NA	5	NA	0	NA	0	NA
Northumberland	33	18	51	1	NA	19	24.8	24	24.3	4	NA	3	NA
Potter	7	4	11	1	NA	5	NA	4	NA	1	NA	0	NA
Snyder	5	2	7	1	NA	1	NA	2	NA	2	NA	1	NA
Sullivan	1	0	1	0	NA	0	NA	0	NA	1	NA	0	NA
Tioga	6	4	10	0	NA	2	NA	6	NA	1	NA	1	NA
Union	7	2	9	0	NA	5	NA	3	NA	0	NA	1	NA
<b>South Central</b>	516	294	<b>810</b>	29	1.4	258	17.3	310	17.6	157	10.3	56	4.7
Adams	30	17	47	2	NA	18	19.2	17	15.5	8	NA	2	NA
Bedford	12	11	23	1	NA	11	25.9	8	NA	3	NA	0	NA
Blair	62	35	97	1	NA	31	27.4	45	34.6	18	14.8	2	NA
Cumberland	60	32	92	4	NA	30	13.4	29	12.2	23	11.1	6	NA
Dauphin	74	48	122	6	NA	32	13.9	47	16.2	32	13.0	5	NA
Franklin	38	19	57	4	NA	21	16.4	14	9.9	10	7.7	8	NA
Fulton	8	2	10	0	NA	4	NA	4	NA	1	NA	1	NA
Huntingdon	10	10	20	0	NA	6	NA	8	NA	3	NA	3	NA
Juniata	5	1	6	0	NA	3	NA	2	NA	0	NA	1	NA
Lebanon	37	18	55	3	NA	16	13.1	20	15.4	9	NA	7	NA
Mifflin	22	12	34	1	NA	17	43.7	8	NA	5	NA	3	NA
Perry	7	6	13	0	NA	3	NA	8	NA	1	NA	1	NA
York	151	83	234	7	NA	66	17.3	100	20.8	44	11.3	17	6.1

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	6,040	2,914	<b>8,954</b>	276	1.7	2,576	22.0	3,878	29.0	1,808	15.8	414	4.4
<b>Northwest</b>	412	206	<b>618</b>	25	2.1	168	19.7	256	26.4	134	15.3	34	4.4
Cameron	3	2	5	0	NA	2	NA	2	NA	1	NA	0	NA
Clarion	11	4	15	0	NA	5	NA	5	NA	3	NA	2	NA
Clearfield	34	25	59	4	NA	17	22.8	26	27.8	10	12.5	2	NA
Crawford	35	15	50	1	NA	18	22.7	19	21.2	9	NA	3	NA
Elk	15	3	18	0	NA	9	NA	6	NA	3	NA	0	NA
Erie	124	64	188	1	NA	34	12.0	88	30.4	49	19.8	16	8.0
Forest	1	0	1	0	NA	0	NA	1	NA	0	NA	0	NA
Jefferson	13	4	17	0	NA	6	NA	6	NA	5	NA	0	NA
Lawrence	55	24	79	5	NA	23	30.2	33	35.1	15	17.2	2	NA
McKean	19	5	24	1	NA	6	NA	9	NA	7	NA	1	NA
Mercer	59	37	96	8	NA	27	26.8	32	26.7	24	21.7	5	NA
Venango	28	16	44	2	NA	19	41.7	16	27.7	5	NA	2	NA
Warren	15	7	22	3	NA	2	NA	13	29.4	3	NA	1	NA
<b>Southwest</b>	1,404	688	<b>2,092</b>	63	1.9	586	24.2	916	31.4	430	16.3	97	4.1
Allegheny	739	332	1,071	22	1.5	262	23.4	473	36.1	267	22.9	47	4.5
Armstrong	26	19	45	2	NA	17	31.0	20	26.5	4	NA	2	NA
Beaver	63	43	106	5	NA	29	20.0	41	21.7	24	13.7	7	NA
Butler	58	29	87	5	NA	32	19.8	34	16.6	13	7.7	3	NA
Cambria	125	57	182	11	6.5	53	41.2	82	53.8	29	20.2	7	NA
Fayette	72	28	100	2	NA	33	27.0	47	30.1	12	8.2	6	NA
Greene	18	14	32	1	NA	11	27.6	12	27.5	7	NA	1	NA
Indiana	31	11	42	0	NA	13	13.8	18	21.6	9	NA	2	NA
Somerset	22	10	32	2	NA	17	23.6	10	11.7	0	NA	3	NA
Washington	75	50	125	3	NA	43	23.4	50	23.1	23	11.3	6	NA
Westmoreland	175	95	270	10	2.4	76	25.2	129	32.5	42	11.3	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, 2004-2008

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	149	20.4	17.1-23.7	Allegheny	918	17.9	16.7-19.1 +	Berks	29	12.7	8.1-17.3
Chester	14	NA		Chester	210	9.8	8.5-11.1 -	Lancaster	14	NA	
Dauphin	20	9.2	5.2-13.2 -	Dauphin	100	10.1	8.1-12.0 -	Lehigh	29	14.4	9.2-19.6
Delaware	50	10.6	7.7-13.6 -	Delaware	456	21.8	19.8-23.8 +	Philadelphia	160	23.1	19.5-26.7 +
Montgomery	32	9.6	6.3-12.9 -	Montgomery	445	13.9	12.6-15.2				
Philadelphia	689	22.6	20.9-24.3 +	Philadelphia	1,198	35.6	33.6-37.6 +				
Pennsylvania	1,084	17.7	16.7-18.8	Pennsylvania	7,821	15.0	14.6-15.3	Pennsylvania	316	13.0	11.6-14.5

### NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2004-2008

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	13.2%	98	51	<b>149</b>	13.9%	2	NA	24	14.4	67	43.3	52	43.6	4	NA
	White	83.5%	638	280	<b>918</b>	85.7%	20	1.7	236	26.4	406	36.4	213	20.8	43	4.5
Chester	Black	6.3%	11	3	<b>14</b>	6.3%	0	NA	4	NA	4	NA	6	NA	0	NA
	White	90.0%	141	69	<b>210</b>	93.8%	11	1.8	68	17.8	78	15.4	39	9.7	14	5.3
Dauphin	Black	17.8%	6	14	<b>20</b>	16.4%	2	NA	4	NA	6	NA	8	NA	0	NA
	White	77.8%	67	33	<b>100</b>	82.0%	4	NA	28	16.3	40	17.5	23	11.2	5	NA
Delaware	Black	17.4%	36	14	<b>50</b>	9.8%	3	NA	9	NA	19	18.5	18	28.6	0	NA
	White	77.3%	297	159	<b>456</b>	89.6%	13	2.4	133	35.4	193	41.8	103	25.0	14	4.0
Montgomery	Black	8.6%	23	9	<b>32</b>	6.6%	2	NA	6	NA	13	16.2	7	NA	4	NA
	White	85.0%	301	144	<b>445</b>	92.1%	18	2.2	142	25.0	192	25.6	73	11.7	20	3.8
Philadelphia	Black	45.6%	484	205	<b>689</b>	36.3%	7	NA	95	13.3	329	49.4	233	47.0	25	7.0
	White	47.3%	858	340	<b>1,198</b>	63.1%	26	3.2	403	50.3	548	79.6	196	33.8	25	4.4
Pennsylvania	Black	10.6%	758	326	<b>1,084</b>	12.1%	18	0.8	183	12.3	497	36.6	350	37.2	35	5.6
	White	86.1%	5,251	2,570	<b>7,821</b>	87.3%	253	1.9	2,374	24.4	3,365	29.1	1,451	14.2	377	4.3

## INJURY DEATHS: MOTOR VEHICLE TRAFFIC ACCIDENTS

In 2008, among Pennsylvania residents, there were 1,484 deaths due to motor vehicle traffic (MVT) accidents. On average, one resident died every six hours.

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### ***Injury Definition***

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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 **stable** over 2004 to 2008.*
- *Most common demographic is **white males**, ages 15 to 29.*
- *Of all Pennsylvania counties, **Fulton, Juniata and Perry** show the highest rates.*

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### ***Trends Over Time***

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- Age-adjusted death rates for MVT injury remained largely stable from 2004 to 2008.
- Age-adjusted MVT death rates increased from 2004 to 2005, from 11.6 to 13.0 deaths per 100,000 population. Rates then decreased from 2005 to 2006, almost to prior levels. The age-adjusted MVT death rate in 2008 was 11.5 deaths per 100,000 population.
- Males showed significantly higher age-adjusted MVT death rates than females over 2004 to 2008 (rates were 17.4 and 5.9, respectively, in 2008).
- Rural males and females showed significantly higher age-adjusted MVT death rates than urban males and females over 2004 to 2008.

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### ***Demographic Trends***

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- Males showed significantly higher MVT death rates than females for ages 5 and older.
- Among males, blacks showed significantly 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.

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### ***Regional Trends***

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- The North Central Health District showed the highest age-specific MVT death rates, while the Southeast Health District showed the lowest rates.
- Thirty-two counties showed age-adjusted MVT death rates that were significantly higher than the comparable state rate for 2004 to 2008. Most counties were rural.

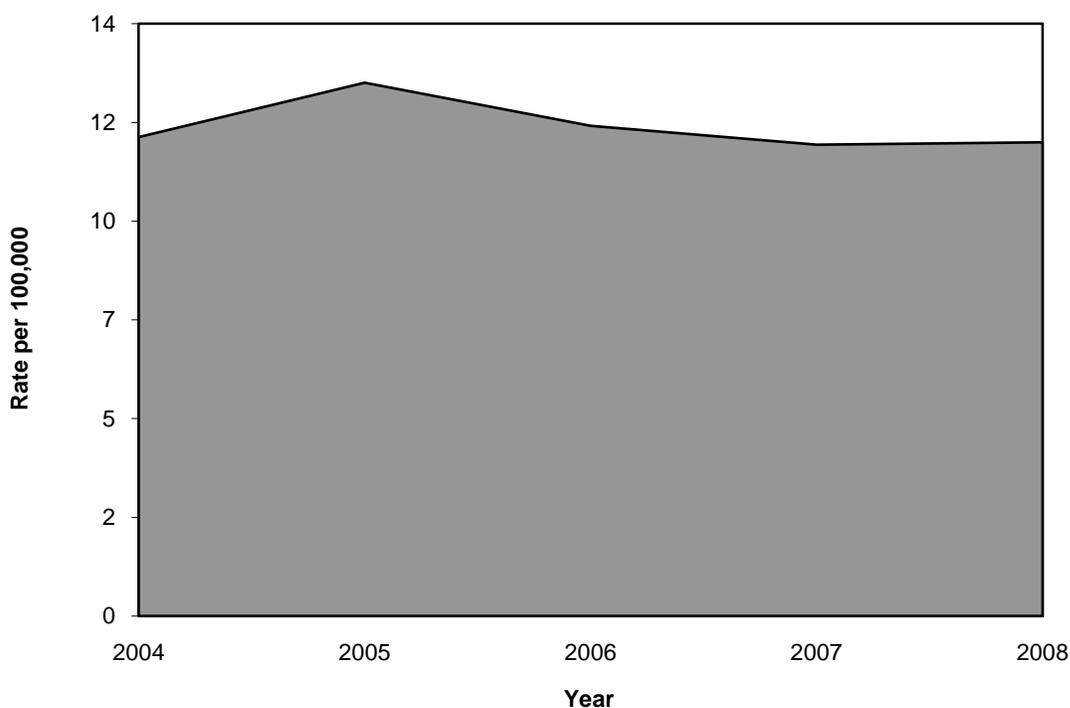
# INJURY DEATHS: MOTOR VEHICLE TRAFFIC

## TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES PENNSYLVANIA RESIDENTS, 2004-2008

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Year	No.	Rate
2004	1,495	11.6
2005	1,667	13.0
2006	1,513	11.9
2007	1,479	11.5
2008	1,484	11.5

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## AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2004-2008

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Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2004	14.8	15.6	13.8	9.3	14.9	10.8
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

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

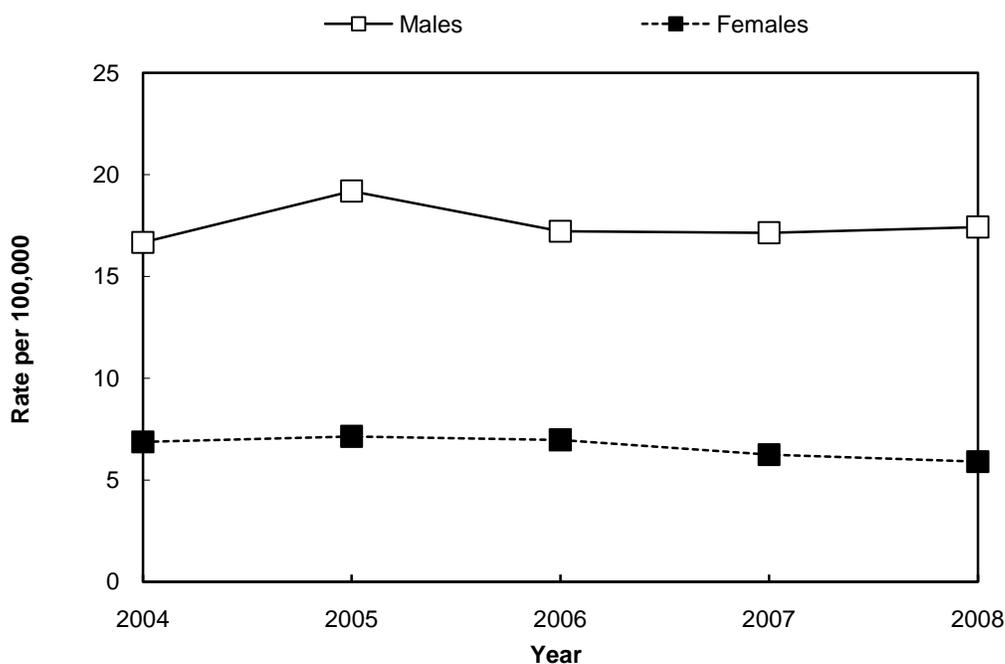
Rates are per 100,000. Data for 2004-2008 based on ICD-10 codes. See Technical Notes.

## INJURY DEATHS: MOTOR VEHICLE TRAFFIC

### TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX PENNSYLVANIA RESIDENTS, 2004-2008

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2004	1,015	16.7 *	2004	480	6.9
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

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



### AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2004-2008

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2004	13.6	24.5 *	2004	5.5	10.6 *
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 *

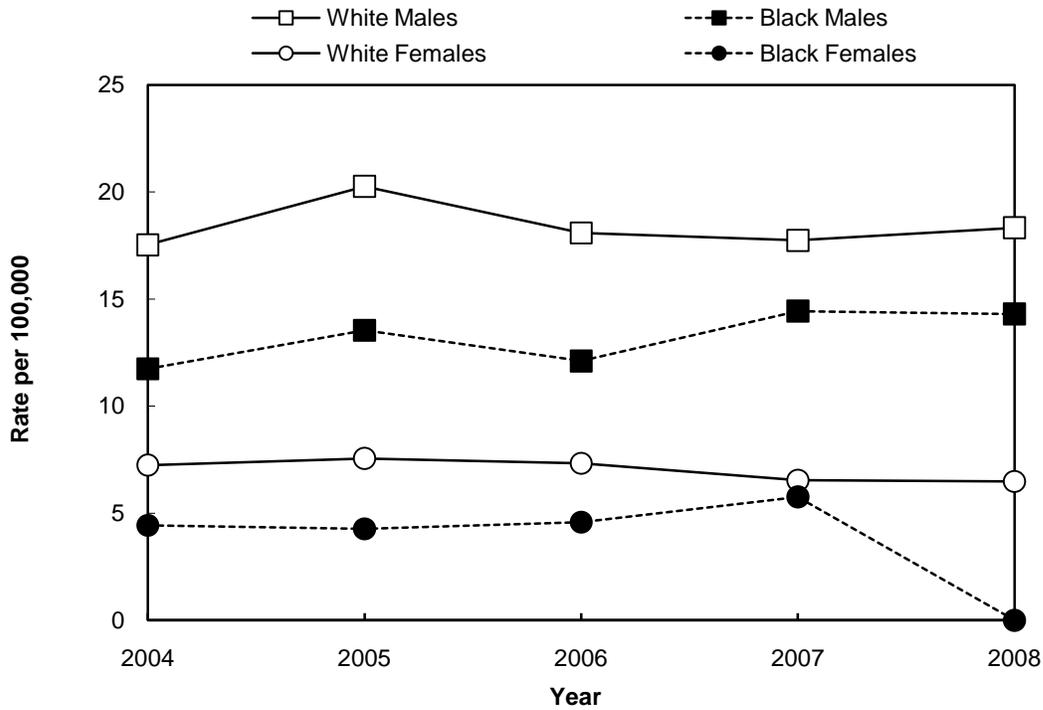
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

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, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	930	72	441	30	30	13
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



**AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2004-2008**

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	17.5	11.7 *	7.2	4.4 *	12.6	NA
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

\* 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, 2004-2008

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>7,638</b>	<b>12.3</b>	<b>5,354</b>	<b>17.8</b>	<b>2,284</b>	<b>7.1</b>	<b>4,521</b>	<b>10.0</b>	<b>3,117</b>	<b>18.2</b>
< 5	79	2.2	43	2.3	36	2.0	52	1.9	27	2.9
5-9	52	1.4	37	1.9	15	0.8	34	1.2	18	1.8
10-14	108	2.6	72	3.5	36	1.8	55	1.8	53	4.9
15-19	847	18.3	568	24.4	279	12.2	475	14.3	372	28.5
20-24	1,044	24.1	829	37.7	215	10.1	650	21.0	394	32.0
25-29	667	18.4	527	28.6	140	7.9	389	14.5	278	30.0
30-34	455	12.1	345	18.3	110	5.9	261	9.5	194	19.3
35-39	510	12.3	388	18.8	122	5.8	295	9.7	215	19.3
40-44	553	12.2	394	17.5	159	6.9	317	9.6	236	19.2
45-49	547	11.8	398	17.4	149	6.3	330	9.8	217	17.0
50-54	455	10.4	345	16.0	110	4.9	265	8.4	190	15.5
55-59	434	11.3	309	16.6	125	6.3	263	9.6	171	15.5
60-64	314	9.9	221	14.7	93	5.6	168	7.5	146	15.6
65-69	282	10.9	184	15.5	98	7.0	165	9.1	117	15.0
70-74	287	12.8	169	17.3	118	9.3	173	11.0	114	17.0
75-79	341	17.7	180	23.1	161	14.0	207	15.2	134	23.6
80-84	348	24.2	183	34.0	165	18.3	219	21.4	129	31.3
85 +	313	24.5	161	43.4	152	16.8	202	22.1	111	30.7

\* 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 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, 2004-2008

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
<b>TOTAL</b>	<b>4,862</b>	<b>18.7</b>	<b>414</b>	<b>13.2</b>	<b>2,093</b>	<b>7.6</b>	<b>147</b>	<b>4.2</b>	<b>250</b>	<b>9.4</b>		
< 5	27	1.8	14	5.5	*	27	1.9	9	NA	9	NA	
5-9	27	1.7	10	3.8		11	0.7	3	NA	2	NA	
10-14	64	3.7	6	NA		31	1.9	5	NA	6	NA	
15-19	508	26.3	51	16.7	*	265	14.0	8	NA	27	10.3	
20-24	737	40.5	76	26.6	*	199	11.3	14	5.0	*	45	19.4
25-29	479	31.4	43	17.9	*	122	8.4	13	5.4		38	17.7
30-34	300	18.9	37	17.3		99	6.3	7	NA		25	12.4
35-39	344	19.4	39	18.2		112	6.3	4	NA		27	13.6
40-44	366	18.7	21	9.7	*	146	7.4	11	4.5	*	17	9.4
45-49	360	17.8	36	17.6		136	6.6	12	5.1		17	10.7
50-54	328	17.0	15	8.6	*	98	5.0	10	4.7		10	8.7
55-59	286	17.0	21	15.2		110	6.2	14	8.0		7	NA
60-64	204	14.9	13	12.6		85	5.7	6	NA		6	NA
65-69	172	15.8	9	NA		89	7.0	6	NA		4	NA
70-74	157	17.4	8	NA		111	9.6	5	NA		4	NA
75-79	174	24.0	4	NA		150	14.2	9	NA		2	NA
80-84	171	34.1	8	NA		158	19.0	6	NA		2	NA
85 +	157	45.5	3	NA		144	17.2	5	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, 2004-2008

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>737</b>	<b>15.8</b>	<b>580</b>	<b>17.1</b>	<b>1,132</b>	<b>14.6</b>	<b>2,332</b>	<b>9.5</b>	<b>1,265</b>	<b>15.7</b>	<b>1,592</b>	<b>11.7</b>
< 5	9	NA	5	NA	12	2.8	29	1.8	8	NA	16	2.2
5-9	6	NA	3	NA	9	NA	18	1.1	10	2.0	6	NA
10-14	9	NA	12	6.0 +	10	2.0	31	1.8 -	27	5.1 +	19	2.3
15-19	69	19.3	80	25.4 +	135	23.4 +	267	14.5 -	161	28.2 +	135	14.1 -
20-24	91	28.7	69	19.6	166	31.6 +	349	20.1 -	182	35.0 +	187	21.2
25-29	68	26.1 +	47	27.0 +	93	21.7	199	13.0 -	103	21.7	157	21.0
30-34	46	16.8 +	36	18.5 +	46	10.2	135	8.7 -	75	15.1	117	14.8 +
35-39	54	18.2 +	34	16.1	79	15.3 +	127	7.4 -	96	17.5 +	120	13.6
40-44	63	19.2 +	45	19.6 +	88	15.6 +	159	8.7 -	94	15.7 +	104	10.5
45-49	49	14.2	41	17.3 +	99	17.1 +	175	9.6 -	75	12.3	108	10.3
50-54	56	16.9 +	32	14.1	60	10.8	126	7.5 -	72	12.4	109	10.8
55-59	32	10.9	41	20.1 +	56	11.3	137	9.5 -	63	12.2	105	11.8
60-64	33	13.2	22	12.7	51	12.0	82	7.0 -	54	12.8	72	9.8
65-69	36	17.1 +	16	10.8	38	11.0	83	8.9	52	15.0 +	57	9.3
70-74	27	14.6	22	17.4	45	15.3	85	10.6	50	17.2 +	58	10.6
75-79	24	15.1	34	32.3 +	60	24.1 +	101	14.8	47	19.5	75	15.3
80-84	39	33.4 +	19	24.6	41	22.5	120	23.3	51	29.6	78	20.9
85 +	26	25.9	22	33.4	44	27.1	108	23.1	44	29.9	69	20.7

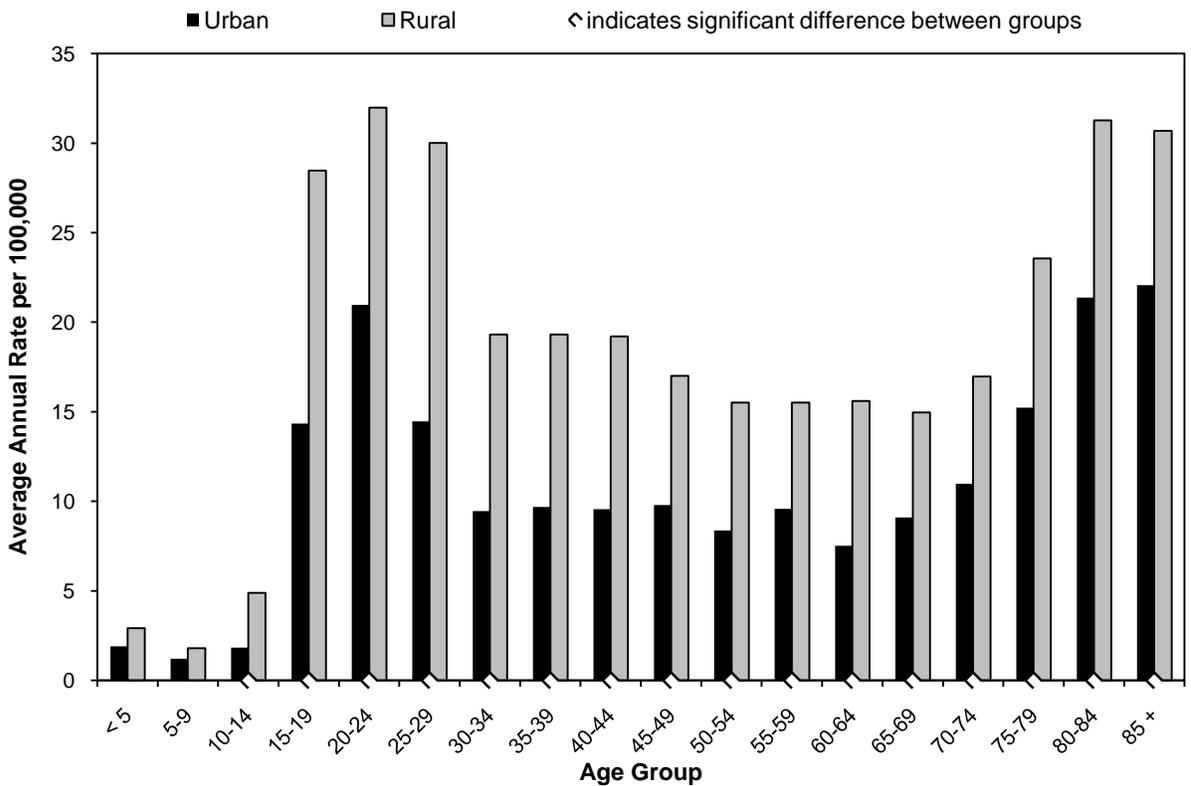
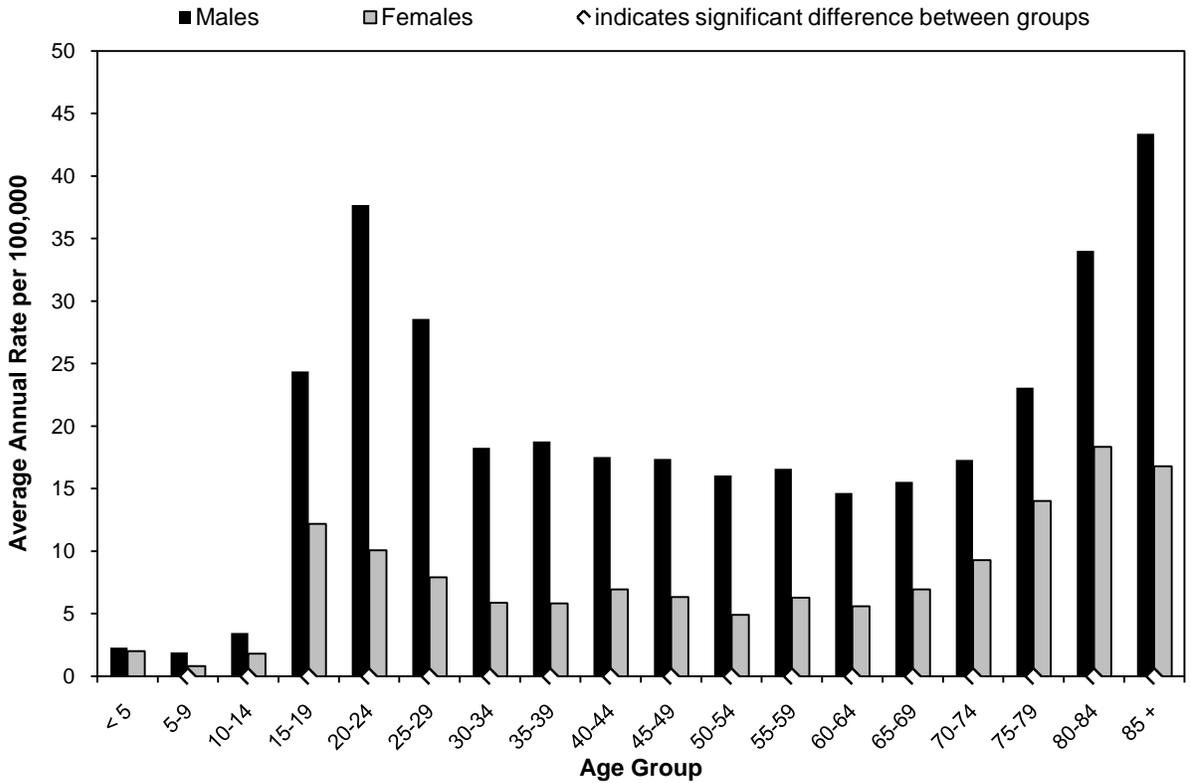
*+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.*

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.

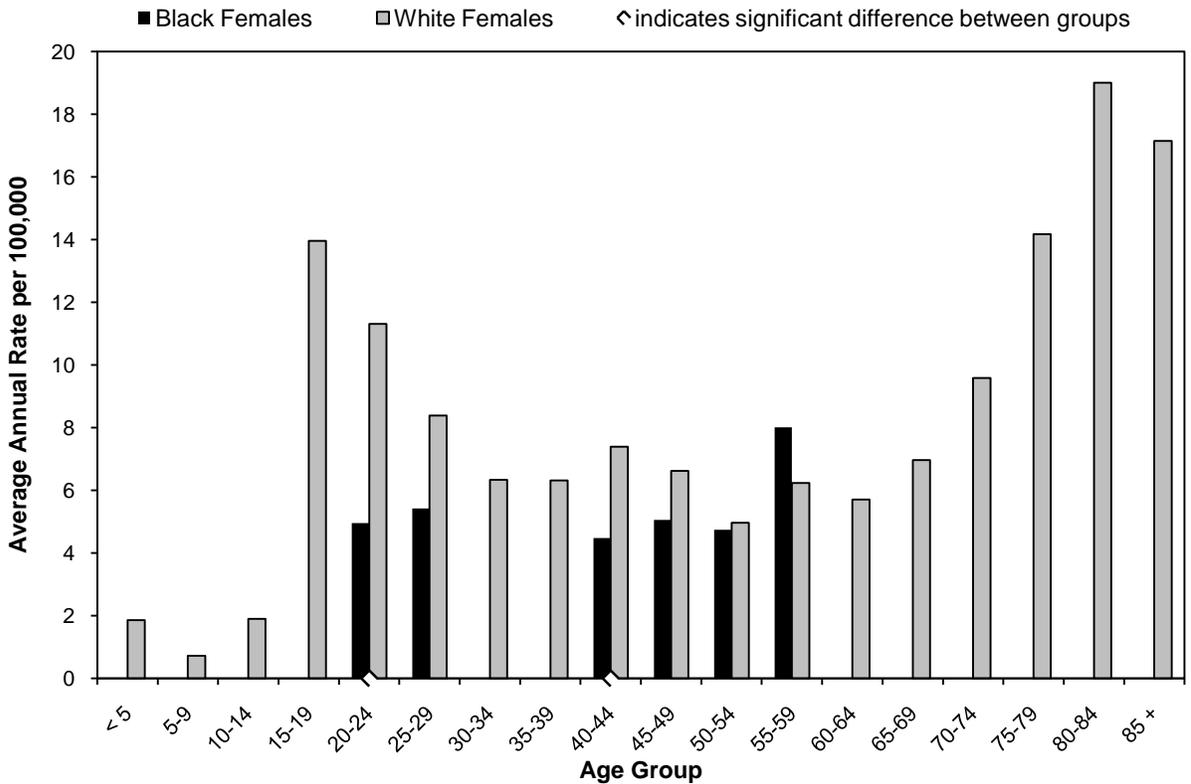
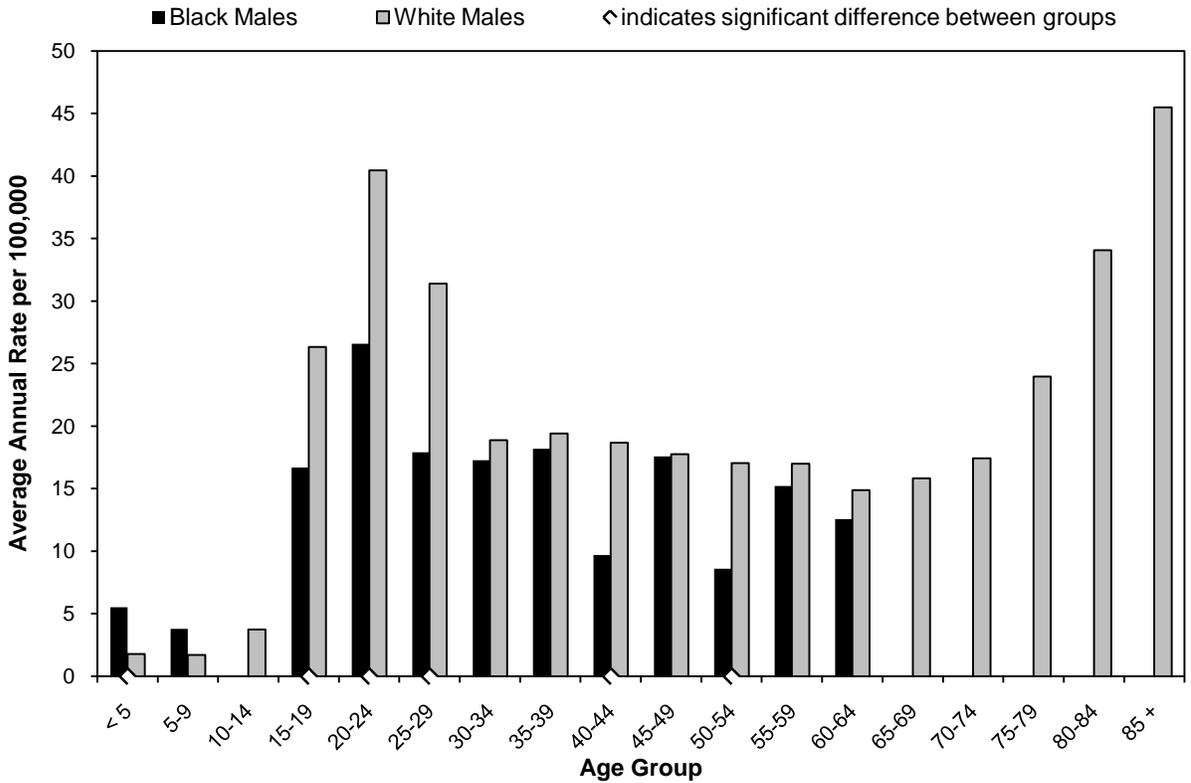
# INJURY DEATHS: MOTOR VEHICLE TRAFFIC

## AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS PENNSYLVANIA RESIDENTS, 2004-2008



# INJURY DEATHS: MOTOR VEHICLE TRAFFIC

## AVERAGE ANNUAL DEATH RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2004-2008



# INJURY DEATHS: MOTOR VEHICLE TRAFFIC

## NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2004-2008

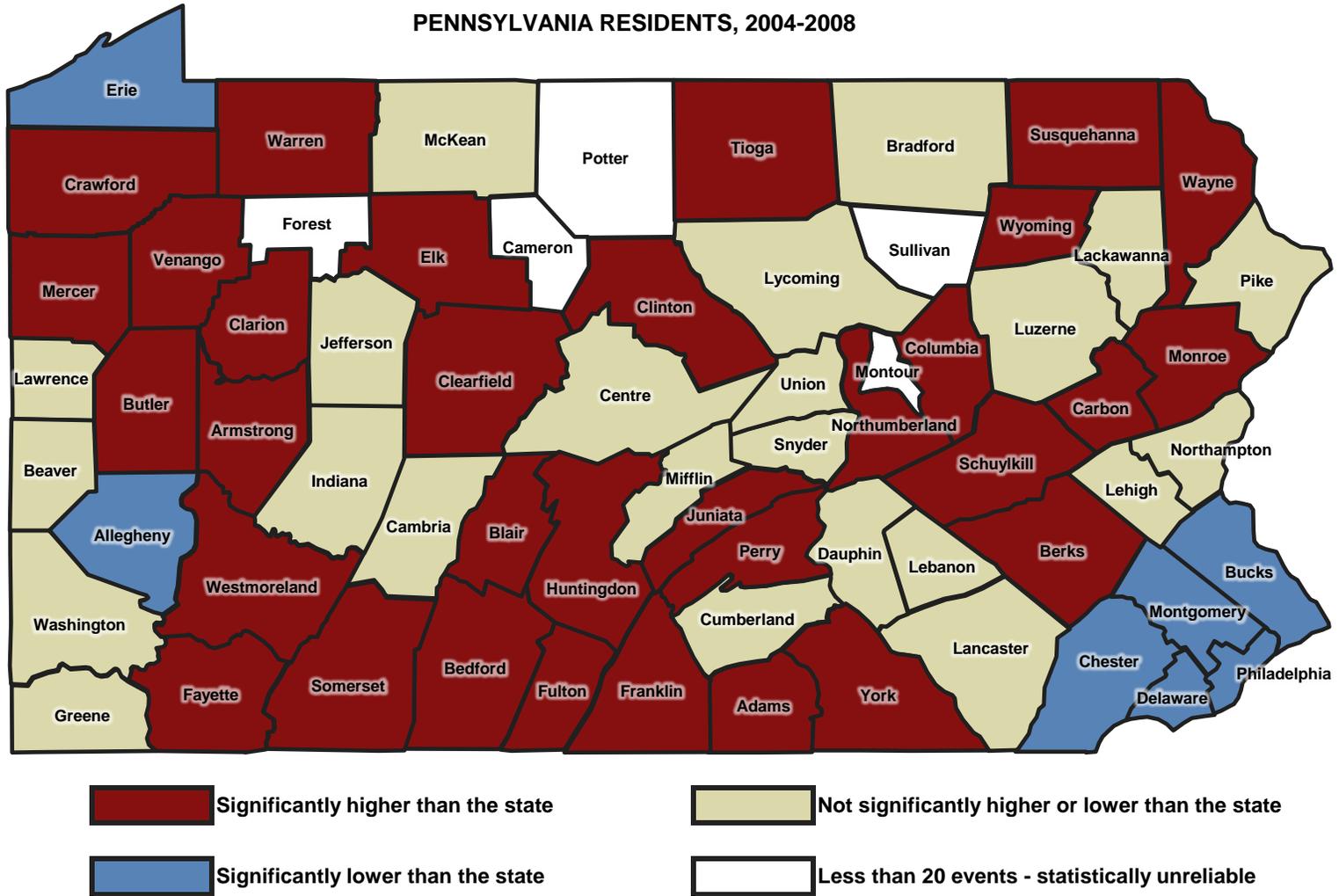
District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
<b>Northeast</b>	1,132	14.2	13.3-15.0 +	<b>Southeast</b>	2,332	9.2	8.8-9.6 -
Carbon	67	20.3	15.4-25.1 +	Berks	277	13.9	12.2-15.5 +
Lackawanna	120	11.1	9.1-13.1	Bucks	271	8.9	7.8-10.0 -
Lehigh	191	11.1	9.6-12.7	Chester	227	9.7	8.4-10.9 -
Luzerne	222	13.8	12.0-15.6	Delaware	173	5.9	5.0-6.8 -
Monroe	180	21.8	18.6-24.9 +	Lancaster	329	13.2	11.7-14.6
Northampton	165	10.8	9.1-12.4	Montgomery	294	7.5	6.7-8.4 -
Pike	43	16.4	11.5-21.3	Philadelphia	588	7.8	7.2-8.4 -
Susquehanna	48	22.9	16.4-29.4 +	Schuylkill	173	22.4	19.1-25.8 +
Wayne	64	26.4	19.9-32.9 +				
Wyoming	32	23.1	15.1-31.1 +				
<b>North Central</b>	580	16.2	14.9-17.5 +	<b>South Central</b>	1,265	15.5	14.6-16.3 +
Bradford	48	15.5	11.1-19.9	Adams	93	18.2	14.5-21.9 +
Centre	86	13.4	10.6-16.2	Bedford	60	24.7	18.5-31.0 +
Clinton	42	21.8	15.2-28.4 +	Blair	101	15.7	12.6-18.7 +
Columbia	57	17.0	12.6-21.4 +	Cumberland	129	10.6	8.8-12.5
Lycoming	93	14.7	11.7-17.7	Dauphin	164	12.9	10.9-14.8
Montour	16	NA		Franklin	129	18.0	14.9-21.1 +
Northumberland	94	20.2	16.1-24.2 +	Fulton	26	35.4	21.8-49.1 +
Potter	18	NA		Huntingdon	52	22.4	16.3-28.5 +
Snyder	34	17.4	11.6-23.3	Juniata	34	29.9	19.9-40.0 +
Sullivan	5	NA		Lebanon	87	13.2	10.4-15.9
Tioga	50	22.8	16.5-29.1 +	Mifflin	36	15.4	10.4-20.4
Union	37	15.8	10.7-20.9	Perry	58	26.8	19.9-33.7 +
				York	296	14.3	12.7-15.9 +
<b>Northwest</b>	737	15.4	14.3-16.5 +	<b>Southwest</b>	1,592	11.3	10.7-11.9
Cameron	8	NA		Allegheny	470	7.2	6.5-7.8 -
Clarion	42	19.6	13.7-25.6 +	Armstrong	66	19.0	14.4-23.5 +
Clearfield	88	21.4	16.9-25.9 +	Beaver	108	12.2	9.9-14.5
Crawford	83	18.0	14.2-21.9 +	Butler	133	14.7	12.2-17.2 +
Elk	38	22.9	15.6-30.2 +	Cambria	107	14.1	11.5-16.8
Erie	142	9.9	8.3-11.5 -	Fayette	152	20.8	17.5-24.0 +
Forest	6	NA		Greene	35	17.0	11.4-22.6
Jefferson	37	15.9	10.8-21.1	Indiana	65	15.9	12.1-19.8
Lawrence	54	11.5	8.4-14.6	Somerset	74	18.3	14.1-22.5 +
McKean	39	17.1	11.7-22.4	Washington	114	11.0	9.0-13.0
Mercer	99	16.5	13.2-19.7 +	Westmoreland	268	14.8	13.0-16.6 +
Venango	52	18.7	13.6-23.8 +				
Warren	49	24.5	17.7-31.4 +	<b>Pennsylvania</b>	<b>7,638</b>	<b>11.9</b>	<b>11.6-12.2</b>

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, 2004-2008



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, 2004-2008

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	5,354	2,284	<b>7,638</b>	1,086	6.7	2,166	18.5	1,610	12.1	1,203	10.5	1,571	16.6
<b>Northeast</b>	780	352	<b>1,132</b>	166	8.4	305	21.7	266	16.0	167	11.3	228	18.5
Carbon	42	25	67	6	NA	14	23.6	17	25.2	16	25.7	14	26.1
Lackawanna	90	30	120	15	5.9	38	19.6	27	12.7	20	10.2	20	10.4
Lehigh	127	64	191	26	5.9	47	14.9	43	12.1	22	7.2	53	21.0
Luzerne	155	67	222	24	6.7	66	23.3	57	17.2	33	11.0	42	14.5
Monroe	121	59	180	38	16.0	45	31.7	35	18.3	27	17.7	35	37.1
Northampton	115	50	165	28	7.1	33	12.2	37	12.0	23	8.6	44	20.8
Pike	28	15	43	5	NA	15	33.6	16	24.0	6	NA	1	NA
Susquehanna	38	10	48	5	NA	14	40.4	14	32.3	10	22.2	5	NA
Wayne	44	20	64	14	24.3	19	45.8	14	26.2	5	NA	12	26.6
Wyoming	20	12	32	5	NA	14	59.5	6	NA	5	NA	2	NA
<b>Southeast</b>	1,662	670	<b>2,332</b>	345	5.1	683	14.2	461	8.6	345	8.0	497	14.6
Berks	203	74	277	39	6.9	82	22.3	63	14.5	42	12.0	51	18.1
Bucks	184	87	271	40	4.9	76	14.5	54	7.2	42	7.0	59	14.4
Chester	155	72	227	35	5.1	84	19.2	34	6.1	30	6.9	44	15.4
Delaware	122	51	173	16	2.1	42	8.0	33	5.5	30	6.1	52	13.0
Lancaster	238	91	329	52	7.3	100	21.3	72	14.0	39	9.2	66	18.7
Montgomery	216	78	294	44	4.4	83	11.9	53	5.9	42	5.9	72	12.6
Philadelphia	420	168	588	96	4.7	170	10.2	121	8.3	88	7.7	112	11.7
Schuylkill	124	49	173	23	14.2	46	34.1	31	18.6	32	23.6	41	29.9

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	5,354	2,284	<b>7,638</b>	1,086	6.7	2,166	18.5	1,610	12.1	1,203	10.5	1,571	16.6
<b>North Central</b>	416	164	<b>580</b>	100	11.4	152	21.1	120	17.7	95	15.7	113	21.6
Bradford	37	11	48	8	NA	14	26.6	9	NA	7	NA	10	19.6
Centre	61	25	86	14	7.4	22	10.1	22	17.6	10	9.7	18	23.2
Clinton	36	6	42	3	NA	14	38.5	10	28.2	10	30.1	5	NA
Columbia	46	11	57	12	14.0	13	18.9	11	18.1	11	19.1	10	19.2
Lycoming	60	33	93	14	9.5	22	19.6	19	15.5	17	15.4	21	21.9
Montour	12	4	16	1	NA	8	NA	4	NA	1	NA	2	NA
Northumberland	68	26	94	16	14.9	23	30.1	21	21.2	16	17.6	18	21.0
Potter	15	3	18	5	NA	9	NA	1	NA	2	NA	1	NA
Snyder	25	9	34	9	NA	6	NA	8	NA	5	NA	6	NA
Sullivan	2	3	5	0	NA	1	NA	1	NA	3	NA	0	NA
Tioga	29	21	50	14	24.4	7	NA	7	NA	8	NA	14	40.1
Union	25	12	37	4	NA	13	25.6	7	NA	5	NA	8	NA
<b>South Central</b>	884	381	<b>1,265</b>	206	9.9	360	24.1	265	15.0	189	12.4	244	20.3
Adams	69	24	93	22	16.1	30	32.1	19	17.3	13	14.2	9	NA
Bedford	38	22	60	11	17.7	18	42.3	9	NA	11	22.6	11	25.6
Blair	74	27	101	14	8.9	26	22.9	24	18.5	12	9.8	25	23.0
Cumberland	96	33	129	22	7.6	45	20.1	24	10.1	15	7.3	23	13.6
Dauphin	104	60	164	18	5.4	47	20.4	31	10.7	30	12.2	38	21.5
Franklin	88	41	129	20	10.9	36	28.1	23	16.2	19	14.7	30	26.3
Fulton	19	7	26	3	NA	7	NA	10	63.5	4	NA	2	NA
Huntingdon	33	19	52	12	22.5	14	30.0	14	27.9	5	NA	7	NA
Juniata	29	5	34	8	NA	9	NA	7	NA	3	NA	7	NA
Lebanon	55	32	87	16	10.0	18	14.8	17	13.1	15	12.7	21	20.3
Mifflin	23	13	36	6	NA	9	NA	6	NA	5	NA	10	24.4
Perry	45	13	58	8	NA	16	39.9	20	39.5	5	NA	9	NA
York	211	85	296	46	8.5	85	22.3	61	12.7	52	13.3	52	18.6

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	5,354	2,284	<b>7,638</b>	1,086	6.7	2,166	18.5	1,610	12.1	1,203	10.5	1,571	16.6
<b>Northwest</b>	507	230	<b>737</b>	93	7.7	205	24.1	166	17.1	121	13.8	152	19.7
Cameron	5	3	8	3	NA	0	NA	1	NA	0	NA	4	NA
Clarion	33	9	42	5	NA	16	39.9	7	NA	6	NA	8	NA
Clearfield	58	30	88	17	18.3	23	30.9	20	21.4	14	17.5	14	19.5
Crawford	52	31	83	6	NA	18	22.7	22	24.5	18	20.9	19	26.8
Elk	28	10	38	3	NA	11	42.2	10	26.7	7	NA	7	NA
Erie	95	47	142	16	4.2	46	16.2	36	12.4	21	8.5	23	11.5
Forest	3	3	6	1	NA	0	NA	3	NA	0	NA	2	NA
Jefferson	21	16	37	7	NA	6	NA	11	23.3	4	NA	9	NA
Lawrence	34	20	54	6	NA	16	21.0	10	10.6	11	12.6	11	12.9
McKean	30	9	39	3	NA	10	25.0	10	20.8	6	NA	10	26.9
Mercer	71	28	99	13	8.4	27	26.8	18	15.0	17	15.3	24	22.8
Venango	38	14	52	6	NA	18	39.5	6	NA	12	21.2	10	21.1
Warren	39	10	49	7	NA	14	42.5	12	27.2	5	NA	11	30.0
<b>Southwest</b>	1,105	487	<b>1,592</b>	176	5.3	461	19.0	332	11.4	286	10.8	337	14.3
Allegheny	308	162	470	40	2.7	121	10.8	93	7.1	95	8.2	121	11.5
Armstrong	48	18	66	11	12.7	15	27.3	18	23.9	3	NA	19	29.8
Beaver	80	28	108	11	5.3	34	23.5	25	13.3	16	9.1	22	13.7
Butler	83	50	133	12	4.9	47	29.1	25	12.2	21	12.4	28	21.5
Cambria	77	30	107	13	7.7	33	25.7	20	13.1	21	14.6	20	14.4
Fayette	114	38	152	18	10.4	43	35.2	29	18.6	33	22.4	29	22.6
Greene	19	16	35	6	NA	12	30.1	6	NA	5	NA	6	NA
Indiana	49	16	65	7	NA	23	24.4	13	15.6	13	16.2	9	NA
Somerset	51	23	74	12	13.7	17	23.6	15	17.5	16	21.4	14	19.4
Washington	84	30	114	14	5.6	33	18.0	27	12.5	22	10.8	18	10.2
Westmoreland	192	76	268	32	7.6	83	27.5	61	15.4	41	11.0	51	15.3

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 DEATHS: MOTOR VEHICLE TRAFFIC

### NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2004-2008

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	10.4	8.2-12.7	Allegheny	387	6.9	6.2-7.6	Berks	22	9.7	5.6-13.7
Chester	19	NA		Chester	203	9.7	8.3-11.0	Lancaster	19	NA	
Dauphin	21	9.9	5.7-14.2	Dauphin	142	14.2	11.8-16.5	Lehigh	15	NA	
Delaware	29	6.2	3.9-8.4	Delaware	140	5.9	4.9-6.8	Philadelphia	78	11.1	8.7-13.6
Montgomery	25	7.1	4.3-9.9	Montgomery	252	7.6	6.6-8.5				
Philadelphia	258	7.8	6.8-8.7	Philadelphia	300	8.0	7.1-8.9				
Pennsylvania	561	8.5	7.8-9.2	Pennsylvania	6,955	12.5	12.3-12.8	Pennsylvania	250	10.0	8.7-11.2

### NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2004-2008

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	13.2%	55	26	<b>81</b>	17.2%	13	4.7	27	16.2	15	9.7	11	9.2	15	16.5
	White	83.5%	252	135	<b>387</b>	82.3%	27	2.4	92	10.3	78	7.0	84	8.2	106	11.1
Chester	Black	6.3%	14	5	<b>19</b>	8.4%	2	NA	10	28.7	2	NA	1	NA	4	NA
	White	90.0%	137	66	<b>203</b>	89.4%	33	5.5	70	18.3	31	6.1	29	7.2	40	15.1
Dauphin	Black	17.8%	15	6	<b>21</b>	12.8%	2	NA	7	NA	6	NA	4	NA	2	NA
	White	77.8%	88	54	<b>142</b>	86.6%	16	7.0	39	22.8	25	10.9	26	12.6	36	23.2
Delaware	Black	17.4%	21	8	<b>29</b>	16.8%	5	NA	9	NA	10	9.7	3	NA	2	NA
	White	77.3%	99	41	<b>140</b>	80.9%	11	2.0	32	8.5	21	4.5	27	6.6	49	13.9
Montgomery	Black	8.6%	20	5	<b>25</b>	8.5%	4	NA	7	NA	9	NA	4	NA	1	NA
	White	85.0%	183	69	<b>252</b>	85.7%	37	4.5	73	12.9	40	5.3	34	5.4	68	12.9
Philadelphia	Black	45.6%	187	71	<b>258</b>	43.9%	52	4.8	83	11.7	65	9.8	31	6.3	27	7.6
	White	47.3%	213	87	<b>300</b>	51.0%	36	4.5	79	9.9	54	7.8	53	9.1	78	13.7
Pennsylvania	Black	10.6%	414	147	<b>561</b>	7.3%	106	4.9	190	12.7	123	9.1	79	8.4	63	10.0
	White	86.1%	4,862	2,093	<b>6,955</b>	91.1%	960	7.2	1,936	19.9	1,464	12.7	1,111	10.9	1,483	17.0

## INJURY DEATHS: FIREARM-RELATED

In 2008, among Pennsylvania residents, there were 1,335 deaths due to firearm-related injuries and violence. On average, one resident died every seven hours.

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### ***Injury Definition***

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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 2004 to 2008.*
- *Most common demographic is **white males**, ages 20 to 54.*
- *Of all Pennsylvania counties, **Philadelphia** shows the highest rate.*

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### ***Trends Over Time***

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- Age-adjusted death rates for firearm-related injury remained stable from 2004 to 2008. The age-adjusted firearms death rate in 2008 was 10.6 deaths per 100,000 population.
- Males showed significantly higher age-adjusted firearm death rates than females over 2004 to 2008 (rates were 19.5 and 2.1, respectively, in 2008).
- Black males showed significantly higher age-adjusted firearm death rates than white males over 2004 to 2008 (rates were 55.7 and 14.6, respectively, in 2008).

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### ***Demographic Trends***

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- 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 higher firearm death rates for ages under 40, while rural populations showed higher rates for ages 40 and older.

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### ***Regional Trends***

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- 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.
- Three counties showed age-adjusted firearm death rates in 2004 to 2008 that were significantly higher than the comparable state rate: Allegheny, Philadelphia and Wayne.

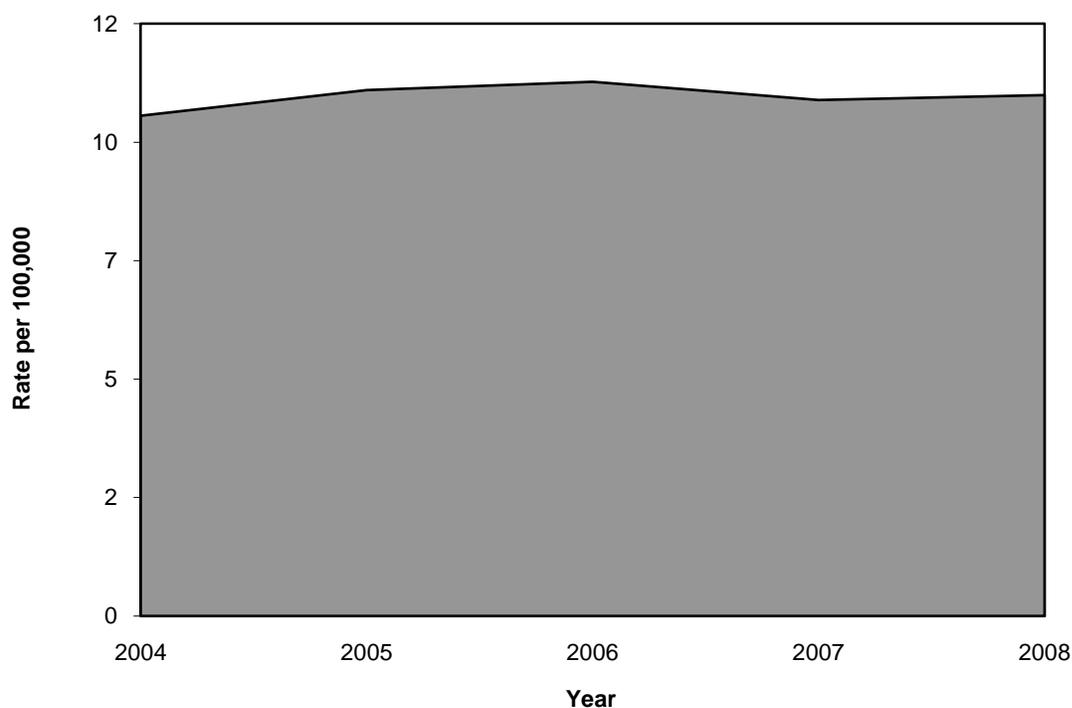
## INJURY DEATHS: FIREARM-RELATED

### TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES PENNSYLVANIA RESIDENTS, 2004-2008

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Year	No.	Rate
2004	1,264	10.1
2005	1,338	10.7
2006	1,361	10.8
2007	1,308	10.5
2008	1,335	10.6

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### AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2004-2008

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Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2004	7.1	7.0	8.2	12.4	8.8	9.5
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

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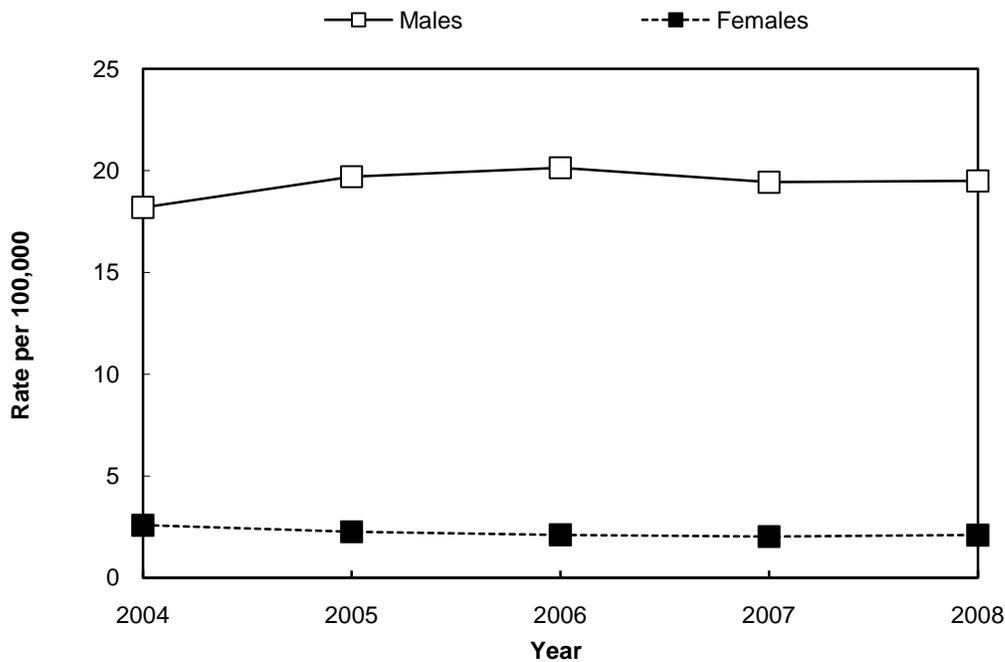
NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2004-2008 based on ICD-10 codes. See Technical Notes.

## INJURY DEATHS: FIREARM-RELATED

### TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX PENNSYLVANIA RESIDENTS, 2004-2008

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2004	1,104	18.2 *	2004	160	2.6
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

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



### AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2004-2008

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2004	19.3	15.2 *	2004	2.5	2.9
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

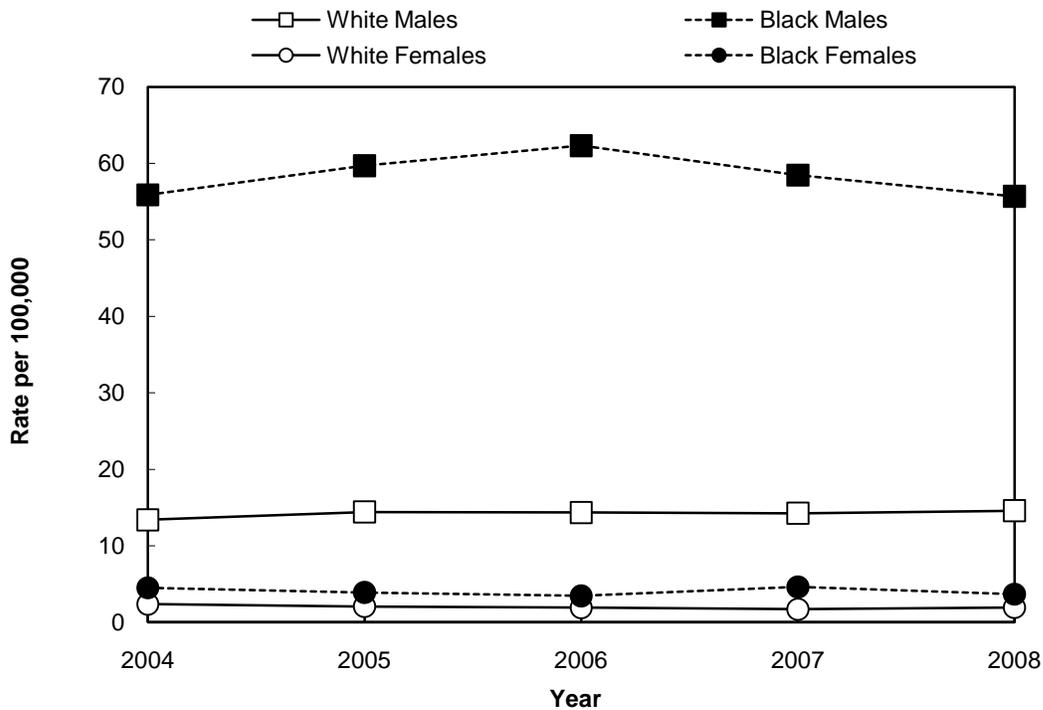
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

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, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	725	372	128	31	46	3
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



### AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	13.4	55.9 *	2.4	4.5 *	16.3	NA
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

\* 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, 2004-2008

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>6,606</b>	<b>10.6</b>	<b>5,906</b>	<b>19.6</b>	<b>700</b>	<b>2.2</b>	<b>5,050</b>	<b>11.2</b>	<b>1,556</b>	<b>9.1</b>
< 5	12	0.3	8	NA	4	NA	9	NA	3	NA
5-9	12	0.3	7	NA	5	NA	9	NA	3	NA
10-14	43	1.1	32	1.5	11	0.6	34	1.1	9	NA
15-19	605	13.1	561	24.1	44	1.9	529	16.0	76	5.8
20-24	909	21.0	845	38.4	64	3.0	788	25.4	121	9.8
25-29	742	20.5	686	37.2	56	3.2	638	23.7	104	11.2
30-34	590	15.7	516	27.3	74	3.9	479	17.3	111	11.1
35-39	539	13.0	466	22.6	73	3.5	419	13.8	120	10.8
40-44	565	12.4	487	21.7	78	3.4	405	12.2	160	13.0
45-49	572	12.3	491	21.4	81	3.4	408	12.1	164	12.8
50-54	516	11.8	448	20.8	68	3.0	358	11.3	158	12.9
55-59	356	9.2	320	17.2	36	1.8	239	8.7	117	10.6
60-64	252	7.9	216	14.3	36	2.2	175	7.8	77	8.2
65-69	205	7.9	186	15.7	19	1.3	130	7.2	75	9.6
70-74	184	8.2	168	17.2	16	1.3	110	7.0	74	11.0
75-79	215	11.1	203	26.0	12	1.0	138	10.1	77	13.5
80-84	164	11.4	146	27.1	18	2.0	104	10.1	60	14.5
85 +	122	9.6	117	31.5	5	NA	75	8.2	47	13.0

\* 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. 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, 2004-2008

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
<b>TOTAL</b>	<b>3,821</b>	<b>14.7</b>	<b>2,027</b>	<b>64.7</b>	<b>550</b>	<b>2.0</b>	<b>142</b>	<b>4.1</b>	<b>300</b>	<b>11.3</b>		
< 5	5	NA	3	NA	3	NA	1	NA	2	NA		
5-9	5	NA	2	NA	4	NA	1	NA	1	NA		
10-14	15	0.9	16	5.6	*	7	NA	4	NA	1	NA	
15-19	181	9.4	378	123.7	*	25	1.3	18	6.0	*	32	12.2
20-24	331	18.2	498	174.1	*	37	2.1	26	9.2	*	80	34.6
25-29	264	17.3	411	171.2	*	33	2.3	21	8.8	*	55	25.6
30-34	250	15.7	261	121.8	*	62	4.0	10	4.4		45	22.4
35-39	303	17.1	159	74.2	*	53	3.0	20	8.4	*	31	15.7
40-44	371	18.9	108	49.8	*	67	3.4	11	4.5		16	8.8
45-49	410	20.2	75	36.6	*	68	3.3	12	5.1		16	10.1
50-54	400	20.8	46	26.3		57	2.9	11	5.2		8	NA
55-59	293	17.4	25	18.1		34	1.9	1	NA		3	NA
60-64	207	15.1	9	NA		32	2.1	4	NA		5	NA
65-69	178	16.4	8	NA		18	1.4	1	NA		1	NA
70-74	162	18.0	6	NA		15	1.3	1	NA		2	NA
75-79	195	26.8	8	NA		12	1.1	0	NA		1	NA
80-84	136	27.1	10	33.5		18	2.2	0	NA		0	NA
85 +	113	32.7	4	NA		5	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, 2004-2008

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>411</b>	<b>8.8</b>	<b>258</b>	<b>7.6</b>	<b>706</b>	<b>9.1</b>	<b>3,135</b>	<b>12.7</b>	<b>688</b>	<b>8.5</b>	<b>1,408</b>	<b>10.3</b>
< 5	0	NA	2	NA	1	NA	4	NA	1	NA	4	NA
5-9	1	NA	0	NA	0	NA	5	NA	2	NA	4	NA
10-14	1	NA	1	NA	4	NA	19	1.1	6	NA	12	1.4
15-19	19	5.3 -	12	3.8 -	35	6.1 -	372	20.2 +	47	8.2 -	120	12.5
20-24	35	11.0 -	18	5.1 -	81	15.4 -	545	31.4 +	57	10.9 -	173	19.6
25-29	20	7.7 -	18	10.3 -	61	14.2 -	429	28.0 +	65	13.7 -	149	19.9
30-34	34	12.4	21	10.8	44	9.7 -	313	20.1 +	52	10.4 -	126	15.9
35-39	32	10.8	21	10.0	68	13.2	268	15.7 +	57	10.4	93	10.6 -
40-44	38	11.6	18	7.8 -	74	13.1	244	13.3	76	12.7	115	11.6
45-49	32	9.2	27	11.4	60	10.3	247	13.5	67	11.0	139	13.3
50-54	43	13.0	21	9.2	76	13.7	197	11.7	58	10.0	121	11.9
55-59	29	9.9	25	12.3	52	10.5	122	8.4	52	10.0	76	8.5
60-64	26	10.4	18	10.4	29	6.8	96	8.2	32	7.6	51	6.9
65-69	17	8.1	12	8.1	36	10.4	57	6.1	25	7.2	58	9.5
70-74	26	14.1 +	10	7.9	22	7.5	58	7.2	24	8.2	44	8.0
75-79	28	17.6 +	16	15.2	35	14.1	63	9.2	26	10.8	47	9.6
80-84	14	12.0	12	15.6	17	9.3	53	10.3	25	14.5	43	11.5
85 +	16	15.9 +	6	NA	11	6.8	40	8.6	16	10.9	33	9.9

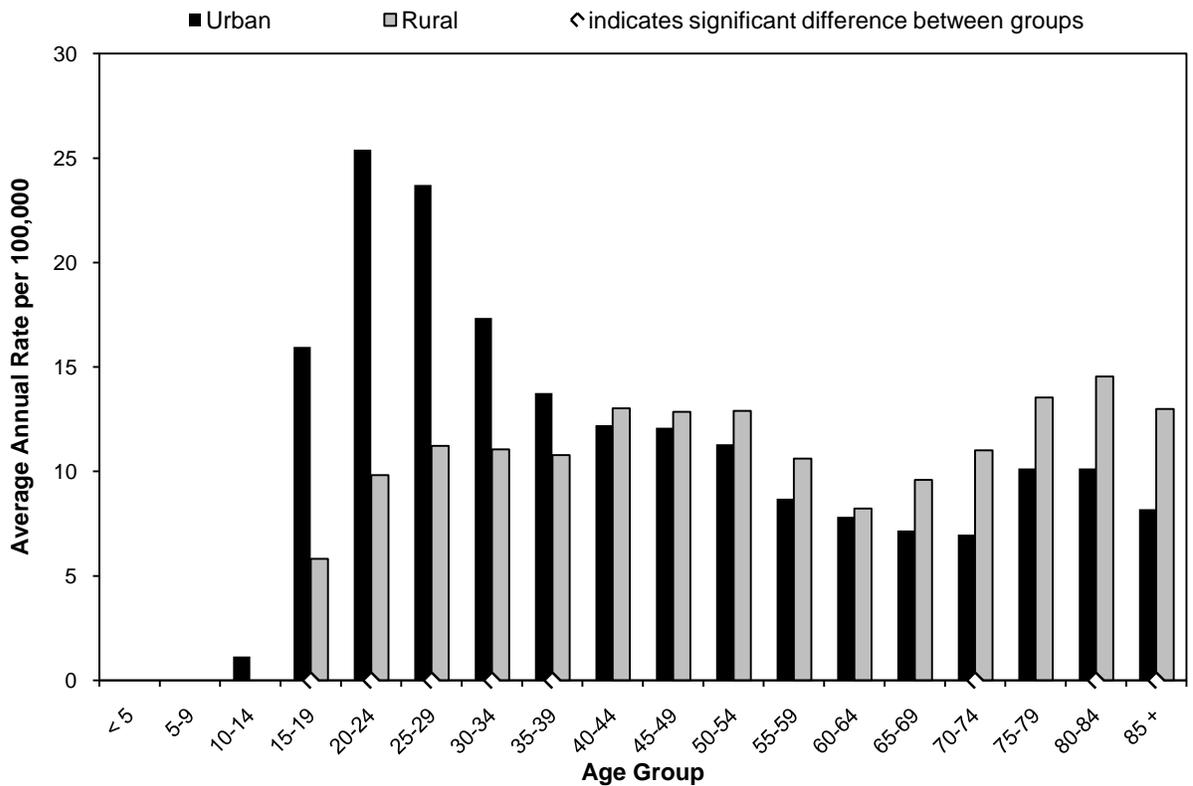
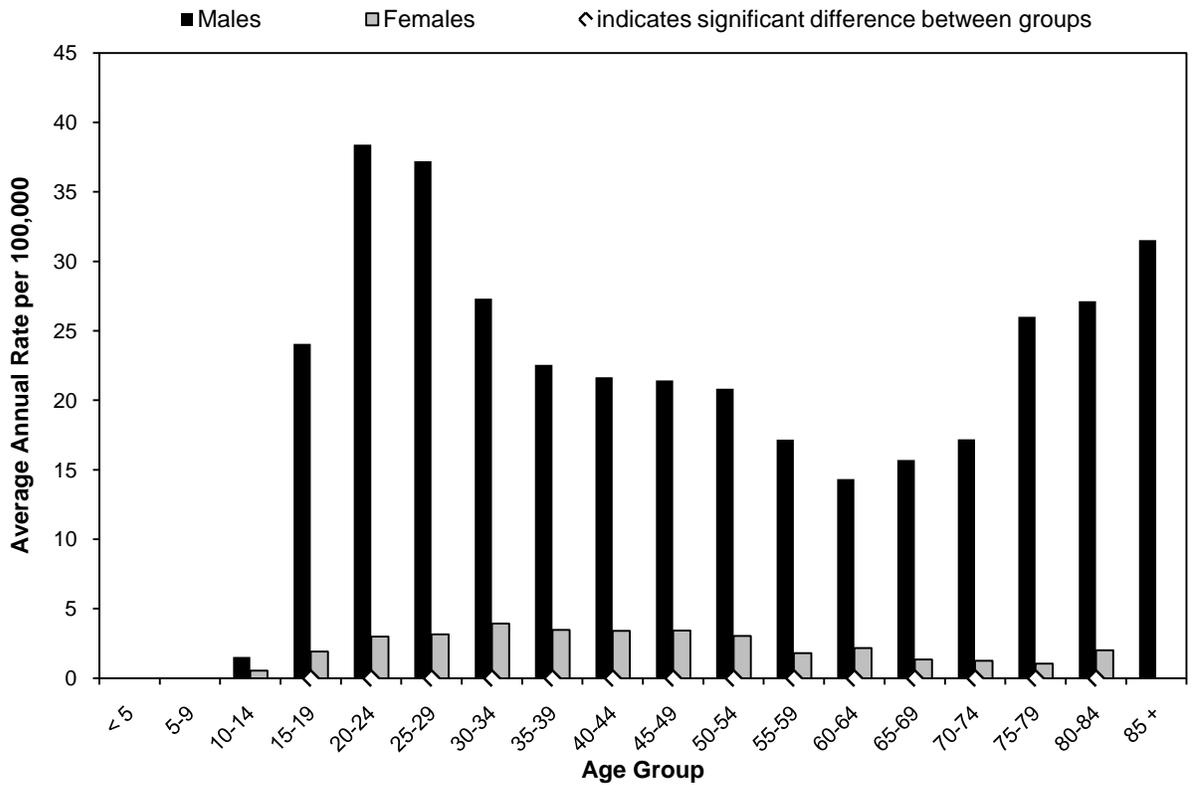
*+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.*

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.

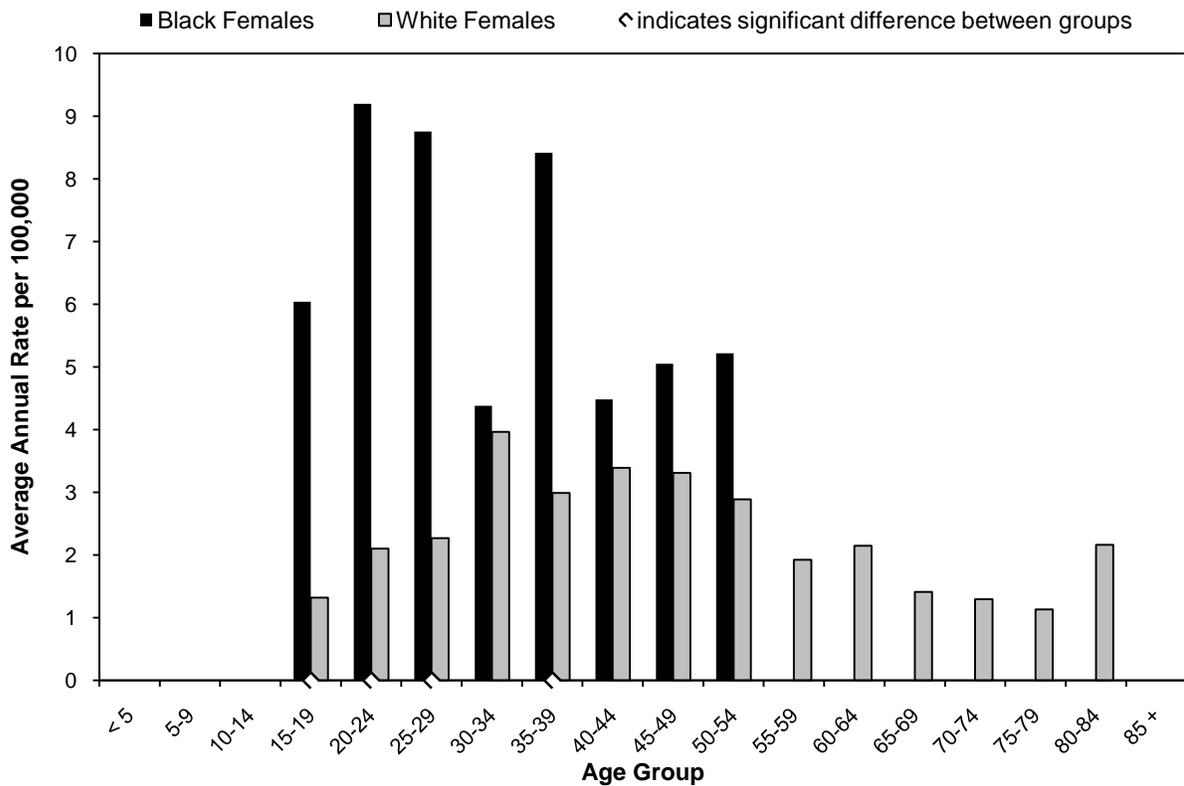
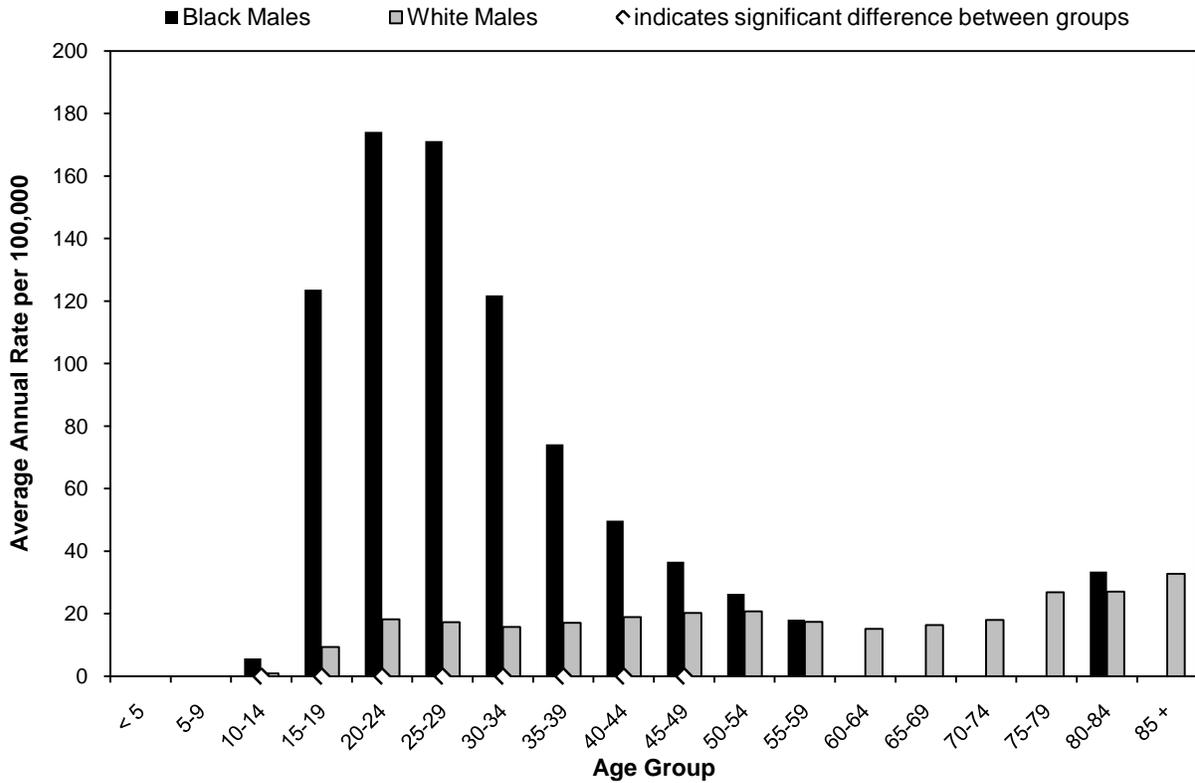
# INJURY DEATHS: FIREARM-RELATED

AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS  
PENNSYLVANIA RESIDENTS, 2004-2008



# INJURY DEATHS: FIREARM-RELATED

## AVERAGE ANNUAL DEATH RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2004-2008



# INJURY DEATHS: FIREARM-RELATED

## NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2004-2008

District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
<b>Northeast</b>	706	8.9	8.2-9.6 -	<b>Southeast</b>	3,135	12.7	12.3-13.1 +
Carbon	32	9.1	6.0-12.3	Berks	206	10.3	8.9-11.8
Lackawanna	88	7.9	6.3-9.6 -	Bucks	198	6.1	5.3-7.0 -
Lehigh	137	8.1	6.8-9.5 -	Chester	150	6.3	5.3-7.3 -
Luzerne	167	10.6	9.0-12.2	Delaware	295	10.6	9.4-11.8
Monroe	70	8.3	6.4-10.3 -	Lancaster	162	6.5	5.5-7.5 -
Northampton	111	7.6	6.2-9.0 -	Montgomery	211	5.3	4.6-6.0 -
Pike	21	7.3	4.2-10.5	Philadelphia	1,836	23.9	22.8-25.0 +
Susquehanna	20	9.0	5.1-13.0	Schuylkill	77	10.0	7.8-12.2
Wayne	44	16.6	11.7-21.5 +				
Wyoming	16	NA					
<b>North Central</b>	258	7.4	6.5-8.3 -	<b>South Central</b>	688	8.4	7.7-9.0 -
Bradford	33	9.7	6.4-13.1	Adams	24	4.6	2.8-6.5 -
Centre	35	5.5	3.7-7.4 -	Bedford	33	13.8	9.1-18.5
Clinton	20	10.9	6.1-15.7	Blair	71	11.0	8.4-13.6
Columbia	25	7.4	4.5-10.4	Cumberland	78	6.6	5.2-8.1 -
Lycoming	49	8.1	5.9-10.4	Dauphin	129	10.2	8.4-11.9
Montour	3	NA		Franklin	50	7.1	5.2-9.1 -
Northumberland	31	6.7	4.3-9.0 -	Fulton	11	NA	
Potter	13	NA		Huntingdon	18	NA	
Snyder	12	NA		Juniata	10	NA	
Sullivan	5	NA		Lebanon	47	7.3	5.2-9.4 -
Tioga	25	11.3	6.9-15.8	Mifflin	23	10.5	6.2-14.7
Union	7	NA		Perry	22	9.7	5.6-13.8
				York	172	8.1	6.9-9.3 -
<b>Northwest</b>	411	8.4	7.6-9.2 -	<b>Southwest</b>	1,408	10.2	9.7-10.7
Cameron	6	NA		Allegheny	742	12.1	11.3-13.0 +
Clarion	22	11.3	6.6-16.0	Armstrong	42	11.7	8.2-15.3
Clearfield	52	11.3	8.2-14.4	Beaver	83	9.2	7.2-11.1
Crawford	47	10.2	7.3-13.1	Butler	71	7.7	5.9-9.5 -
Elk	15	NA		Cambria	65	8.8	6.6-10.9
Erie	82	5.7	4.5-6.9 -	Fayette	65	8.7	6.6-10.9
Forest	1	NA		Greene	15	NA	
Jefferson	34	14.3	9.5-19.1	Indiana	47	10.6	7.6-13.7
Lawrence	42	9.3	6.5-12.1	Somerset	39	8.9	6.1-11.8
McKean	21	9.0	5.2-12.9	Washington	83	7.5	5.9-9.1 -
Mercer	43	7.2	5.0-9.3 -	Westmoreland	156	8.3	7.0-9.6 -
Venango	28	9.2	5.8-12.6				
Warren	18	NA		<b>Pennsylvania</b>	<b>6,606</b>	<b>10.5</b>	<b>10.3-10.8</b>

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, 2004-2008

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	5,906	700	<b>6,606</b>	672	4.2	2,241	19.1	1,676	12.6	1,124	9.8	890	9.4
<b>Northeast</b>	622	84	<b>706</b>	40	2.0	186	13.2	202	12.2	157	10.6	121	9.8
Carbon	30	2	32	0	NA	7	NA	5	NA	12	19.3	8	NA
Lackawanna	76	12	88	2	NA	25	12.9	19	8.9	25	12.8	17	8.8
Lehigh	124	13	137	14	3.2	44	14.0	33	9.3	29	9.4	17	6.7
Luzerne	145	22	167	8	NA	43	15.2	62	18.7	32	10.7	22	7.6
Monroe	59	11	70	6	NA	15	10.6	22	11.5	18	11.8	9	NA
Northampton	97	14	111	8	NA	32	11.8	28	9.1	21	7.9	22	10.4
Pike	19	2	21	0	NA	4	NA	10	15.0	3	NA	4	NA
Susquehanna	17	3	20	1	NA	3	NA	5	NA	6	NA	5	NA
Wayne	40	4	44	0	NA	10	24.1	14	26.2	8	NA	12	26.6
Wyoming	15	1	16	1	NA	3	NA	4	NA	3	NA	5	NA
<b>Southeast</b>	2,838	297	<b>3,135</b>	400	5.9	1,287	26.7	759	14.1	415	9.7	271	8.0
Berks	177	29	206	15	2.7	59	16.0	56	12.9	38	10.9	38	13.5
Bucks	169	29	198	11	1.3	39	7.4	52	7.0	54	9.0	42	10.2
Chester	127	23	150	8	NA	40	9.2	50	8.9	29	6.7	23	8.0
Delaware	270	25	295	36	4.8	119	22.7	68	11.3	39	7.9	33	8.2
Lancaster	141	21	162	21	2.9	42	8.9	40	7.8	38	8.9	20	5.7
Montgomery	180	31	211	6	NA	46	6.6	72	8.1	49	6.9	38	6.7
Philadelphia	1,703	133	1,836	295	14.3	923	55.4	399	27.5	152	13.3	65	6.8
Schuylkill	71	6	77	8	NA	19	14.1	22	13.2	16	11.8	12	8.7

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	5,906	700	<b>6,606</b>	672	4.2	2,241	19.1	1,676	12.6	1,124	9.8	890	9.4
<b>North Central</b>	230	28	<b>258</b>	15	1.7	57	7.9	66	9.7	64	10.6	56	10.7
Bradford	30	3	33	1	NA	5	NA	8	NA	12	20.0	7	NA
Centre	33	2	35	1	NA	8	NA	9	NA	13	12.7	4	NA
Clinton	19	1	20	3	NA	7	NA	3	NA	3	NA	4	NA
Columbia	23	2	25	3	NA	2	NA	6	NA	6	NA	8	NA
Lycoming	42	7	49	3	NA	13	11.6	16	13.0	8	NA	9	NA
Montour	3	0	3	0	NA	0	NA	0	NA	1	NA	2	NA
Northumberland	24	7	31	1	NA	11	14.4	9	NA	4	NA	6	NA
Potter	12	1	13	0	NA	4	NA	3	NA	3	NA	3	NA
Snyder	11	1	12	0	NA	3	NA	2	NA	4	NA	3	NA
Sullivan	5	0	5	0	NA	0	NA	1	NA	2	NA	2	NA
Tioga	22	3	25	3	NA	3	NA	8	NA	7	NA	4	NA
Union	6	1	7	0	NA	1	NA	1	NA	1	NA	4	NA
<b>South Central</b>	598	90	<b>688</b>	56	2.7	174	11.6	200	11.4	142	9.3	116	9.7
Adams	21	3	24	3	NA	3	NA	6	NA	5	NA	7	NA
Bedford	27	6	33	1	NA	12	28.2	12	22.4	2	NA	6	NA
Blair	62	9	71	3	NA	13	11.5	25	19.2	17	14.0	13	11.9
Cumberland	68	10	78	7	NA	18	8.0	21	8.8	15	7.3	17	10.0
Dauphin	115	14	129	12	3.6	49	21.3	25	8.6	26	10.6	17	9.6
Franklin	43	7	50	3	NA	6	NA	19	13.4	13	10.0	9	NA
Fulton	10	1	11	0	NA	3	NA	4	NA	3	NA	1	NA
Huntingdon	14	4	18	2	NA	1	NA	9	NA	4	NA	2	NA
Juniata	10	0	10	2	NA	1	NA	4	NA	3	NA	0	NA
Lebanon	40	7	47	4	NA	16	13.1	11	8.5	9	NA	7	NA
Mifflin	20	3	23	3	NA	7	NA	6	NA	4	NA	3	NA
Perry	17	5	22	0	NA	5	NA	10	19.7	2	NA	5	NA
York	151	21	172	16	2.9	40	10.5	48	10.0	39	10.0	29	10.4

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	5,906	700	<b>6,606</b>	672	4.2	2,241	19.1	1,676	12.6	1,124	9.8	890	9.4
<b>Northwest</b>	366	45	<b>411</b>	21	1.7	89	10.5	102	10.5	98	11.2	101	13.1
Cameron	5	1	6	0	NA	0	NA	4	NA	1	NA	1	NA
Clarion	19	3	22	0	NA	5	NA	6	NA	7	NA	4	NA
Clearfield	48	4	52	3	NA	7	NA	11	11.8	14	17.5	17	23.7
Crawford	43	4	47	4	NA	8	NA	12	13.4	10	11.6	13	18.4
Elk	15	0	15	0	NA	2	NA	5	NA	5	NA	3	NA
Erie	78	4	82	4	NA	20	7.0	21	7.3	20	8.1	17	8.5
Forest	1	0	1	0	NA	0	NA	0	NA	1	NA	0	NA
Jefferson	30	4	34	1	NA	9	NA	8	NA	6	NA	10	24.3
Lawrence	38	4	42	4	NA	14	18.4	10	10.6	7	NA	7	NA
McKean	20	1	21	1	NA	6	NA	2	NA	4	NA	8	NA
Mercer	36	7	43	1	NA	11	10.9	12	10.0	12	10.8	7	NA
Venango	20	8	28	2	NA	4	NA	8	NA	6	NA	8	NA
Warren	13	5	18	1	NA	3	NA	3	NA	5	NA	6	NA
<b>Southwest</b>	1,252	156	<b>1,408</b>	140	4.2	448	18.5	347	11.9	248	9.4	225	9.5
Allegheny	673	69	742	98	6.6	290	25.9	163	12.4	104	8.9	87	8.2
Armstrong	39	3	42	1	NA	6	NA	19	25.2	7	NA	9	NA
Beaver	72	11	83	5	NA	25	17.3	17	9.0	21	12.0	15	9.3
Butler	62	9	71	7	NA	17	10.5	21	10.3	11	6.5	15	11.5
Cambria	60	5	65	4	NA	19	14.8	18	11.8	13	9.0	11	7.9
Fayette	53	12	65	4	NA	14	11.4	21	13.5	8	NA	18	14.0
Greene	13	2	15	1	NA	7	NA	2	NA	3	NA	2	NA
Indiana	42	5	47	4	NA	12	12.7	7	NA	15	18.7	9	NA
Somerset	33	6	39	1	NA	8	NA	9	NA	12	16.0	9	NA
Washington	66	17	83	4	NA	15	8.2	23	10.6	22	10.8	19	10.7
Westmoreland	139	17	156	11	2.6	35	11.6	47	11.8	32	8.6	31	9.3

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 DEATHS: FIREARM-RELATED

### NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2004-2008

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	44.3	39.8-48.8 +	Allegheny	367	6.6	5.9-7.3 -	Berks	28	9.8	6.2-13.5
Chester	21	13.4	7.7-19.2 -	Chester	127	5.9	4.8-6.9 -	Lancaster	13	NA	
Dauphin	49	20.9	15.0-26.7 -	Dauphin	76	7.1	5.5-8.7	Lehigh	26	8.8	5.4-12.2
Delaware	157	29.0	24.4-33.5	Delaware	137	6.0	5.0-7.0 -	Philadelphia	167	19.5	16.5-22.4 +
Montgomery	35	9.9	6.6-13.2 -	Montgomery	173	4.9	4.2-5.7 -				
Philadelphia	1,352	39.2	37.1-41.3 +	Philadelphia	446	12.4	11.3-13.6 +				
Pennsylvania	2,169	30.4	29.1-31.7	Pennsylvania	4,371	7.8	7.6-8.1	Pennsylvania	300	10.6	9.4-11.8

### NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2004-2008

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	13.2%	345	26	<b>371</b>	50.0%	83	29.8	213	127.8	54	34.9	14	11.7	7	NA
	White	83.5%	325	42	<b>367</b>	49.5%	15	1.3	74	8.3	108	9.7	90	8.8	80	8.4
Chester	Black	6.3%	17	4	<b>21</b>	14.0%	3	NA	12	34.4	2	NA	3	NA	1	NA
	White	90.0%	108	19	<b>127</b>	84.7%	5	NA	27	7.1	48	9.5	25	6.2	22	8.3
Dauphin	Black	17.8%	45	4	<b>49</b>	38.0%	9	NA	31	66.8	6	NA	3	NA	0	NA
	White	77.8%	67	9	<b>76</b>	58.9%	3	NA	16	9.3	18	7.9	22	10.7	17	11.0
Delaware	Black	17.4%	147	10	<b>157</b>	53.2%	29	17.8	95	81.7	24	23.3	5	NA	4	NA
	White	77.3%	122	15	<b>137</b>	46.4%	7	NA	23	6.1	44	9.5	34	8.3	29	8.2
Montgomery	Black	8.6%	31	4	<b>35</b>	16.6%	3	NA	19	25.7	9	NA	3	NA	1	NA
	White	85.0%	146	27	<b>173</b>	82.0%	3	NA	27	4.8	60	8.0	46	7.4	37	7.0
Philadelphia	Black	45.6%	1,271	81	<b>1,352</b>	73.6%	261	24.0	751	105.4	259	38.9	60	12.1	21	5.9
	White	47.3%	396	50	<b>446</b>	24.3%	33	4.1	149	18.6	128	18.6	91	15.7	44	7.7
Pennsylvania	Black	10.6%	2,027	142	<b>2,169</b>	32.8%	423	19.4	1,227	82.3	385	28.4	96	10.2	38	6.0
	White	86.1%	3,821	550	<b>4,371</b>	66.2%	245	1.8	977	10.1	1,272	11.0	1,023	10.0	852	9.8

## INJURY DEATHS: ALL UNINTENTIONAL INJURIES

In 2008, among Pennsylvania residents, there were 5,669 deaths due to unintentional injury. On average, one resident died every 90 minutes.

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### *Injury Definition*

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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 **increasing** over 2004 to 2008.*
- *Most common demographic is **white males**, ages 20 to 54.*
- *Of all Pennsylvania counties, **Wayne** shows the highest rate.*

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### *Trends Over Time*

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- Age-adjusted death rates for unintentional injury increased by 9 percent from 2004 to 2008, from 38.3 to 41.9 deaths per 100,000 population.
- Males showed significantly higher age-adjusted death rates than females over 2004 to 2008 (rates were 58.9 and 26.4, respectively, in 2008).
- Rural males and females showed significantly higher age-adjusted death rates than urban males and females over 2004 to 2008.

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### *Demographic Trends*

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- 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 5 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 74.

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### *Regional Trends*

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- The Northwest Health District generally showed the highest age-specific death rates for unintentional injury, while the Southeast Health District showed the lowest rates. Other districts showed high rates for certain age groups.
- Twenty-seven counties showed age-adjusted death rates for 2004 to 2008 that were significantly higher than the comparable state rate. Most counties were rural.

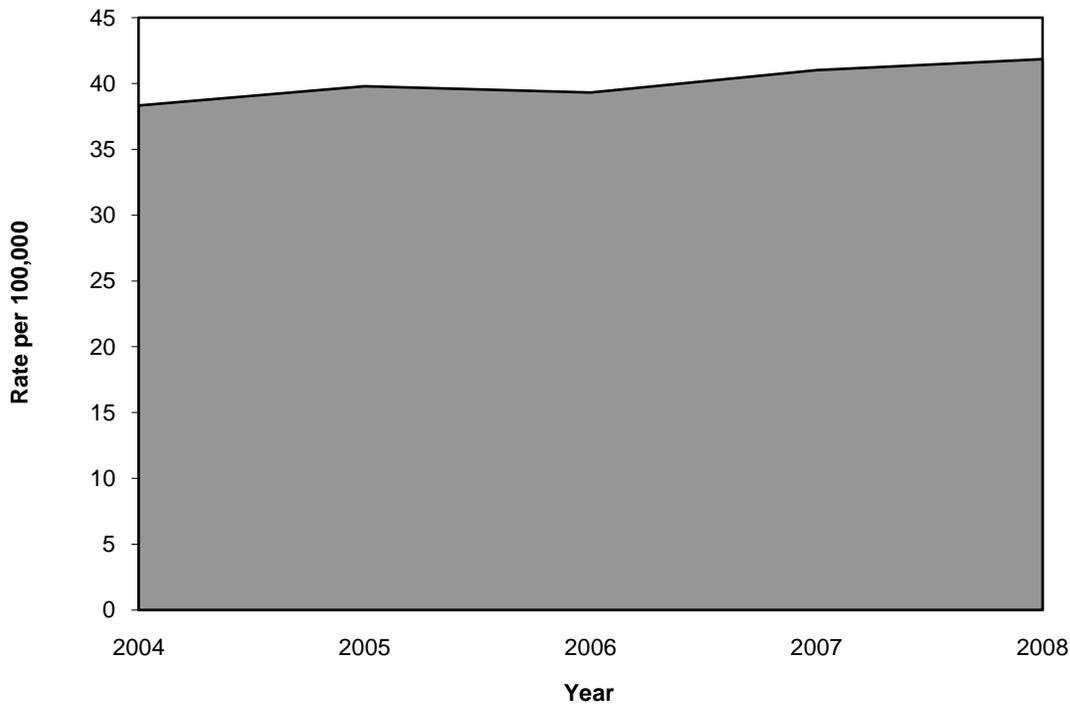
# INJURY DEATHS: ALL UNINTENTIONAL

## TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES PENNSYLVANIA RESIDENTS, 2004-2008

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Year	No.	Rate
2004	5,091	38.3
2005	5,314	39.8
2006	5,143	39.3
2007	5,458	41.0
2008	5,669	41.9

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## AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2004-2008

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Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2004	44.6	38.0	37.9	36.1	39.9	39.7
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

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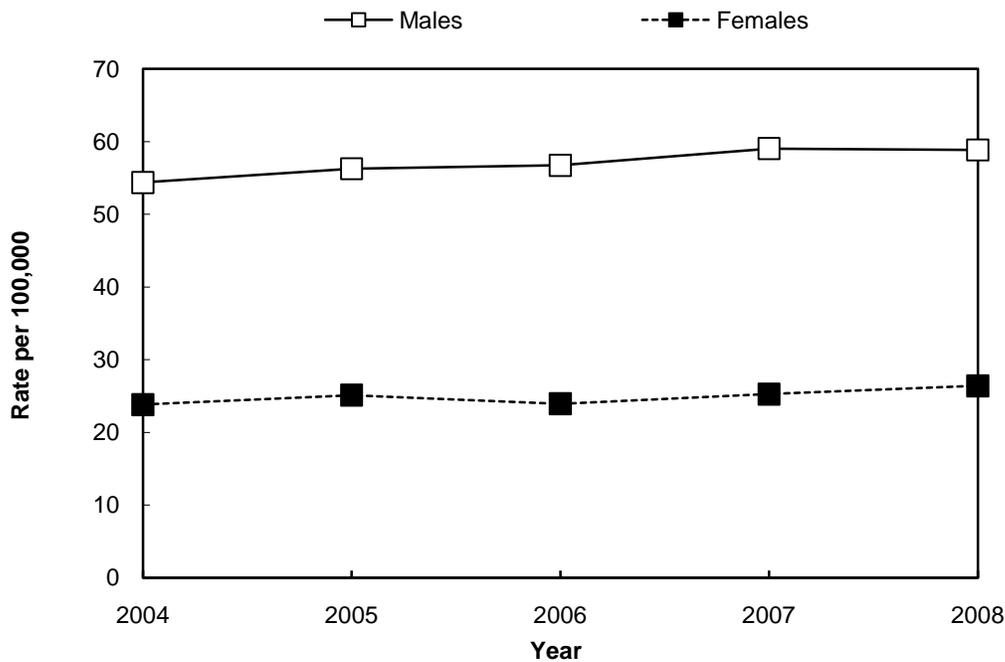
NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2004-2008 based on ICD-10 codes. See Technical Notes.

## INJURY DEATHS: ALL UNINTENTIONAL

### TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX PENNSYLVANIA RESIDENTS, 2004-2008

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2004	3,238	54.4 *	2004	1,853	23.8
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

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



### AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2004-2008

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2004	51.3	62.2 *	2004	22.2	28.3 *
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 *

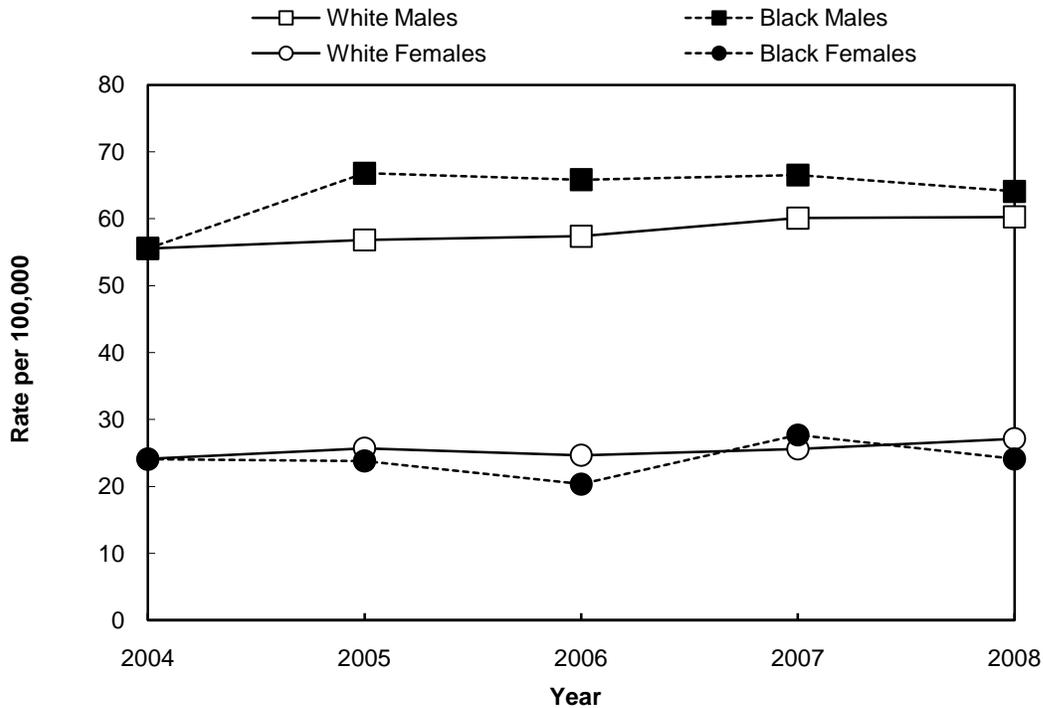
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

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, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	2,915	293	1,681	156	95	30
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



### AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	55.6	55.6	24.1	24.1	47.2	16.8
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

\* 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, 2004-2008

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
<b>TOTAL</b>	<b>26,675</b>	<b>42.9</b>	<b>17,029</b>	<b>56.5</b>	<b>9,646</b>	<b>30.1</b>		<b>18,264</b>	<b>40.6</b>	<b>8,411</b>	<b>49.0</b>	
< 5	388	10.6	226	12.1	162	9.1	*	254	9.3	134	14.4	*
5-9	148	3.9	104	5.3	44	2.4	*	93	3.3	55	5.5	*
10-14	210	5.1	148	7.1	62	3.1	*	117	3.9	93	8.6	*
15-19	1,247	27.0	893	38.3	354	15.5	*	739	22.3	508	38.9	*
20-24	2,054	47.4	1,616	73.4	438	20.5	*	1,363	43.9	691	56.1	*
25-29	1,664	46.0	1,304	70.7	360	20.3	*	1,113	41.4	551	59.5	*
30-34	1,337	35.5	996	52.7	341	18.2	*	901	32.6	436	43.4	*
35-39	1,624	39.0	1,163	56.3	461	22.0	*	1,125	36.9	499	44.8	*
40-44	2,077	45.7	1,471	65.4	606	26.4	*	1,477	44.6	600	48.8	*
45-49	2,250	48.4	1,580	68.9	670	28.4	*	1,612	47.8	638	50.0	
50-54	1,754	39.9	1,293	60.1	461	20.6	*	1,256	39.7	498	40.7	
55-59	1,332	34.6	941	50.5	391	19.7	*	947	34.5	385	34.9	
60-64	898	28.3	622	41.3	276	16.6	*	576	25.8	322	34.4	*
65-69	896	34.5	573	48.4	323	22.9	*	591	32.6	305	39.0	*
70-74	1,065	47.4	629	64.3	436	34.3	*	704	44.7	361	53.7	*
75-79	1,547	80.2	830	106.3	717	62.4	*	1,063	78.2	484	85.1	
80-84	2,208	153.6	1,094	203.3	1,114	123.9	*	1,515	147.8	693	168.0	*
85 +	3,969	310.8	1,540	414.8	2,429	268.1	*	2,815	307.5	1,154	319.0	

\* 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. 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, 2004-2008

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
<b>TOTAL</b>	<b>15,161</b>	<b>58.3</b>	<b>1,713</b>	<b>54.7</b>	<b>8,757</b>	<b>31.9</b>	<b>801</b>	<b>23.1</b>	<b>715</b>	<b>26.9</b>		
< 5	161	10.5	59	23.3	*	119	8.2	38	15.4	*	31	10.4
5-9	76	4.7	28	10.6	*	32	2.1	11	4.3		10	3.7
10-14	123	7.2	20	7.0		52	3.2	9	NA		13	5.0
15-19	807	41.8	73	23.9	*	335	17.7	13	4.4	*	39	14.8
20-24	1,484	81.5	107	37.4	*	403	22.9	32	11.3	*	81	35.0
25-29	1,199	78.6	91	37.9	*	317	21.8	34	14.2	*	97	45.2
30-34	876	55.1	110	51.3		298	19.1	38	16.7		69	34.3
35-39	1,006	56.8	146	68.1	*	402	22.7	51	21.5		90	45.5
40-44	1,309	66.8	149	68.7		525	26.6	75	30.5		73	40.2
45-49	1,376	67.9	196	95.7	*	565	27.5	102	42.9	*	65	41.1
50-54	1,078	56.0	208	119.1	*	398	20.2	59	28.0	*	43	37.4
55-59	769	45.7	165	119.5	*	330	18.7	58	33.2	*	27	30.2
60-64	536	39.1	82	79.2	*	243	16.3	29	21.0		18	29.1
65-69	510	46.9	59	77.2	*	287	22.5	31	28.6		12	28.8
70-74	567	62.9	53	87.0	*	400	34.6	33	34.6		13	44.4
75-79	776	106.8	49	110.2		663	62.7	47	60.3		13	61.5
80-84	1,024	204.0	61	204.4		1,057	127.1	50	85.2	*	8	NA
85 +	1,479	428.6	56	260.1	*	2,331	277.6	91	160.0	*	13	98.1

\* 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 DEATHS: ALL UNINTENTIONAL

### TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2004-2008

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>2,224</b>	<b>47.6</b>	<b>1,412</b>	<b>41.5</b>	<b>3,420</b>	<b>44.1</b>	<b>9,852</b>	<b>40.0</b>	<b>3,436</b>	<b>42.6</b>	<b>6,331</b>	<b>46.4</b>
< 5	45	17.3 +	22	12.5	46	10.7	135	8.5 -	65	13.4	75	10.4
5-9	21	7.5 +	12	6.6	24	5.2	46	2.8 -	23	4.6	22	2.8
10-14	23	7.6	19	9.5 +	22	4.3	58	3.4 -	42	7.9 +	46	5.5
15-19	113	31.6	101	32.0	185	32.1 +	418	22.7 -	211	36.9 +	219	22.9 -
20-24	160	50.4	118	33.5 -	282	53.6 +	766	44.2	295	56.7 +	433	49.0
25-29	136	52.2	74	42.5	224	52.3	621	40.5 -	224	47.1	385	51.5 +
30-34	110	40.2	66	33.9	161	35.5	513	33.0	171	34.3	316	40.0 +
35-39	124	41.9	67	31.8	221	42.9	628	36.8	202	36.7	382	43.4 +
40-44	158	48.0	94	40.9	269	47.5	860	47.0	203	33.8 -	493	49.9 +
45-49	183	52.9	90	38.0 -	275	47.4	917	50.1	228	37.3 -	557	53.2 +
50-54	176	53.2 +	68	29.9 -	211	38.0	674	40.0	201	34.7 -	424	41.9
55-59	101	34.3	79	38.7	155	31.2	517	35.7	154	29.7	326	36.6
60-64	78	31.3	60	34.6	112	26.3	311	26.7	123	29.0	214	29.1
65-69	87	41.4	50	33.7	113	32.7	325	34.9	115	33.1	206	33.7
70-74	85	46.1	59	46.5	136	46.1	371	46.3	158	54.3	256	46.6
75-79	125	78.7	103	97.8 +	201	80.7	509	74.5	194	80.4	415	84.5
80-84	184	157.6	115	149.1	260	142.9	764	148.0	313	181.5 +	572	153.4
85 +	314	312.8	215	326.3	521	321.4	1,417	303.1	512	347.4 +	990	296.5

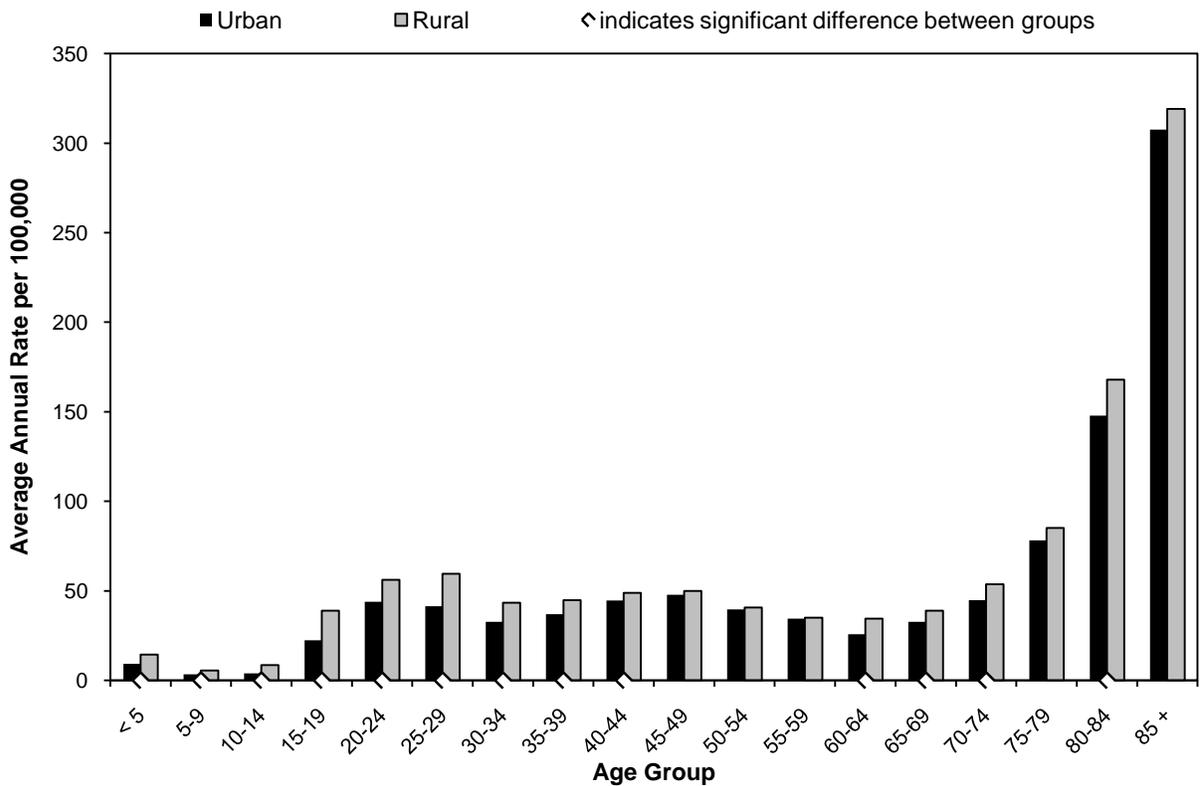
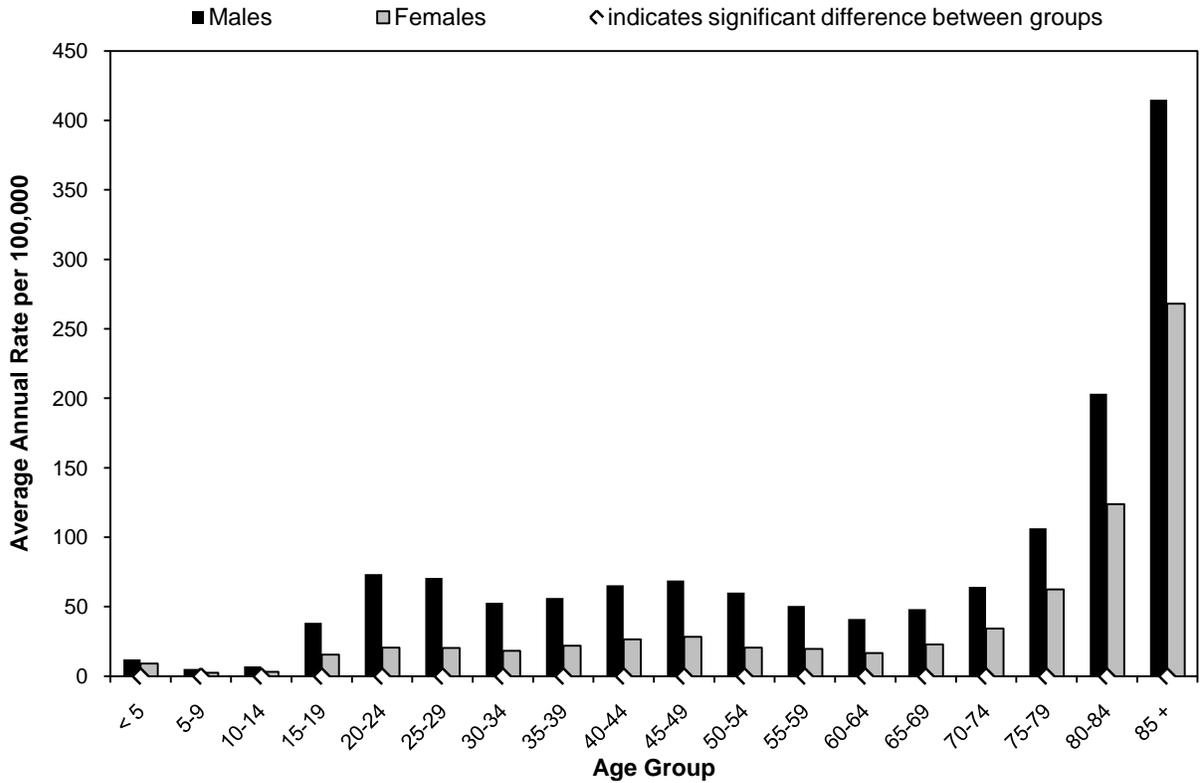
*+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.*

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.

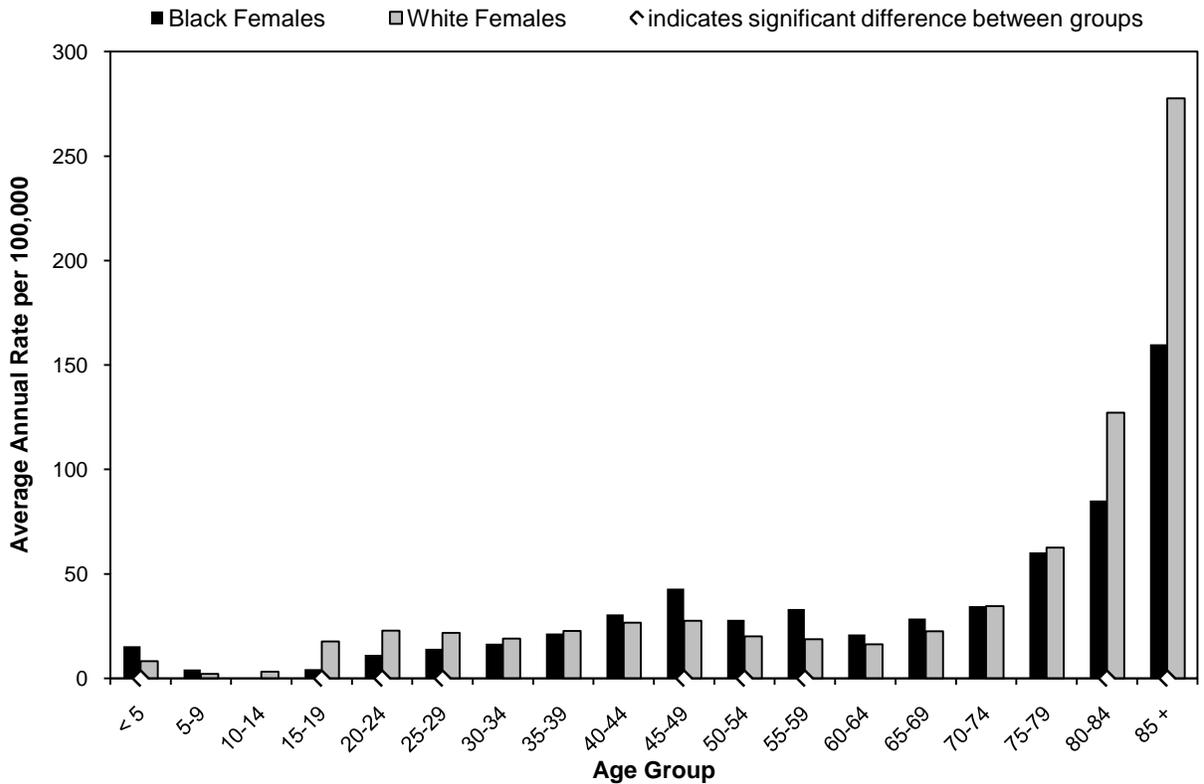
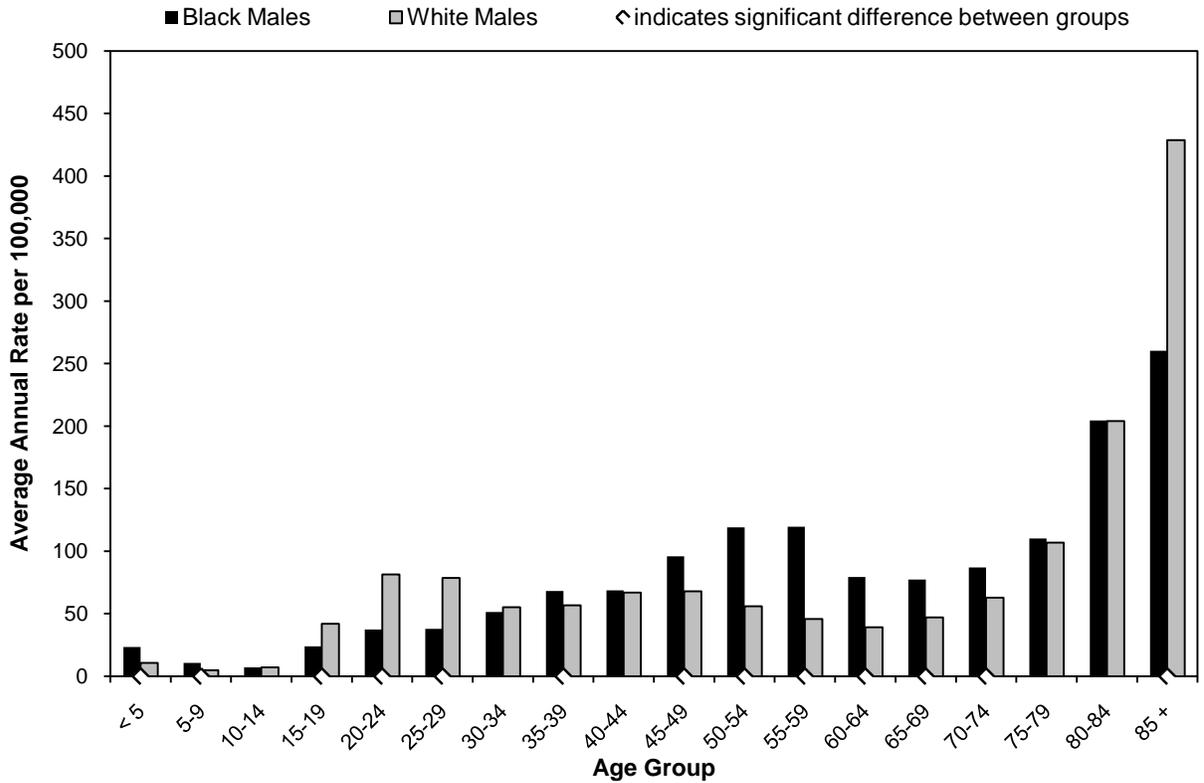
# INJURY DEATHS: ALL UNINTENTIONAL

## AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS PENNSYLVANIA RESIDENTS, 2004-2008



# INJURY DEATHS: ALL UNINTENTIONAL

## AVERAGE ANNUAL DEATH RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2004-2008



# INJURY DEATHS: ALL UNINTENTIONAL

## NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2004-2008

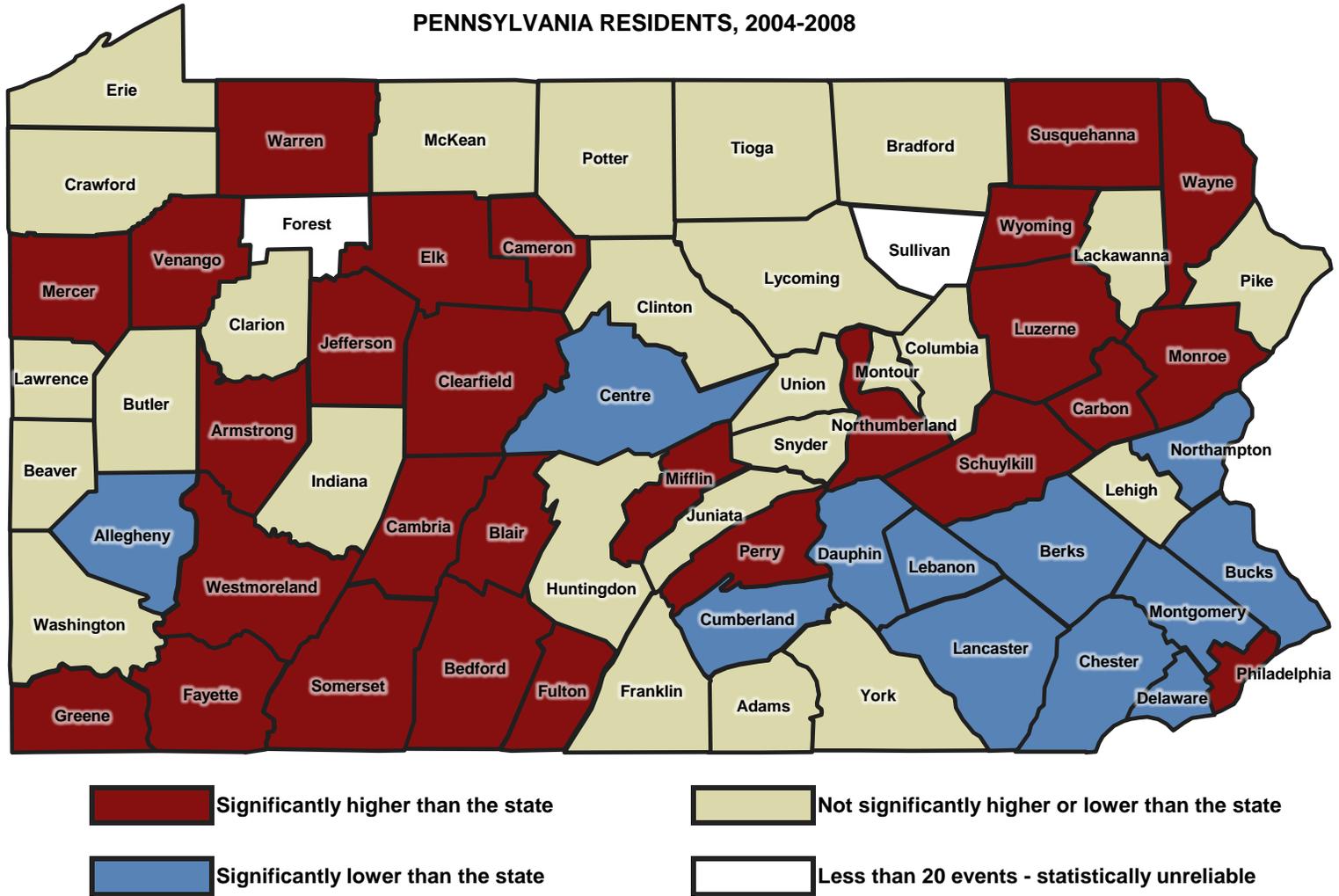
District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
<b>Northeast</b>	3,420	41.2	39.8-42.6	<b>Southeast</b>	9,852	38.3	37.5-39.1 -
Carbon	171	50.5	43.0-58.1 +	Berks	669	32.2	29.8-34.7 -
Lackawanna	469	40.9	37.2-44.6	Bucks	1,071	35.2	33.1-37.3 -
Lehigh	705	39.0	36.2-41.9	Chester	709	30.7	28.5-33.0 -
Luzerne	759	44.9	41.7-48.1 +	Delaware	1,075	35.6	33.5-37.8 -
Monroe	378	47.4	42.7-52.2 +	Lancaster	924	36.5	34.1-38.8 -
Northampton	487	30.8	28.1-33.5 -	Montgomery	1,396	33.6	31.8-35.3 -
Pike	104	37.4	30.2-44.6	Philadelphia	3,567	48.6	47.0-50.2 +
Susquehanna	116	52.9	43.3-62.5 +	Schuylkill	441	53.5	48.5-58.5 +
Wayne	155	62.3	52.5-72.1 +				
Wyoming	76	55.6	43.1-68.1 +				
<b>North Central</b>	1,412	38.5	36.5-40.5	<b>South Central</b>	3,436	40.6	39.2-41.9
Bradford	126	39.2	32.4-46.0	Adams	205	39.9	34.4-45.3
Centre	194	31.5	27.1-35.9 -	Bedford	137	54.4	45.3-63.5 +
Clinton	98	47.8	38.3-57.2	Blair	364	52.8	47.4-58.2 +
Columbia	156	45.1	38.0-52.1	Cumberland	367	30.2	27.2-33.3 -
Lycoming	241	36.7	32.1-41.4	Dauphin	475	35.6	32.4-38.8 -
Montour	42	47.4	33.0-61.7	Franklin	299	39.9	35.4-44.4
Northumberland	257	50.5	44.3-56.7 +	Fulton	49	64.5	46.4-82.5 +
Potter	48	53.3	38.2-68.4	Huntingdon	114	47.8	39.0-56.6
Snyder	72	35.9	27.6-44.2	Juniata	58	50.0	37.2-62.9
Sullivan	8	NA		Lebanon	236	34.2	29.8-38.5 -
Tioga	89	38.9	30.8-47.0	Mifflin	122	49.6	40.8-58.4 +
Union	81	35.0	27.4-42.6	Perry	111	50.6	41.2-60.0 +
				York	899	42.6	39.8-45.4
<b>Northwest</b>	2,224	44.2	42.3-46.0 +	<b>Southwest</b>	6,331	41.6	40.6-42.6 +
Cameron	22	70.6	41.1-100.1 +	Allegheny	2,585	37.2	35.8-38.6 -
Clarion	93	42.8	34.1-51.5	Armstrong	193	51.2	44.0-58.5 +
Clearfield	234	52.9	46.1-59.7 +	Beaver	401	40.8	36.8-44.8
Crawford	221	46.2	40.1-52.3	Butler	361	38.3	34.4-42.3
Elk	90	52.3	41.5-63.1 +	Cambria	449	54.5	49.4-59.5 +
Erie	541	36.7	33.6-39.8	Fayette	404	51.8	46.7-56.8 +
Forest	16	NA		Greene	110	52.5	42.7-62.4 +
Jefferson	123	50.6	41.6-59.5 +	Indiana	209	45.0	38.9-51.1
Lawrence	221	42.9	37.2-48.6	Somerset	218	48.3	41.9-54.8 +
McKean	97	41.3	33.1-49.5	Washington	472	42.1	38.3-45.9
Mercer	298	46.5	41.2-51.8 +	Westmoreland	929	45.6	42.7-48.6 +
Venango	153	53.2	44.7-61.6 +				
Warren	115	53.2	43.5-62.9 +	<b>Pennsylvania</b>	<b>26,675</b>	<b>40.1</b>	<b>39.6-40.5</b>

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, 2004-2008



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, 2004-2008

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	17,029	9,646	<b>26,675</b>	1,993	12.3	5,055	43.1	5,951	44.6	3,984	34.9	9,685	102.1
<b>Northeast</b>	2,177	1,243	<b>3,420</b>	277	14.0	667	47.4	765	46.1	478	32.4	1,231	99.8
Carbon	115	56	171	9	NA	31	52.2	41	60.8	37	59.4	51	94.9
Lackawanna	308	161	469	30	11.8	111	57.3	102	48.0	63	32.2	163	84.8
Lehigh	424	281	705	43	9.8	102	32.4	128	35.9	85	27.7	347	137.5
Luzerne	485	274	759	54	15.0	174	61.4	191	57.7	109	36.5	231	79.8
Monroe	243	135	378	58	24.5	75	52.9	93	48.6	58	37.9	94	99.6
Northampton	304	183	487	36	9.2	68	25.2	96	31.1	62	23.2	225	106.3
Pike	60	44	104	12	17.0	19	42.5	28	41.9	19	29.9	26	63.2
Susquehanna	85	31	116	7	NA	27	77.9	29	66.9	19	42.1	34	102.5
Wayne	103	52	155	21	36.5	35	84.4	44	82.3	17	30.0	38	84.2
Wyoming	50	26	76	7	NA	25	106.2	13	44.0	9	NA	22	110.1
<b>Southeast</b>	6,406	3,446	<b>9,852</b>	657	9.7	1,900	39.4	2,405	44.8	1,502	34.9	3,386	99.6
Berks	442	227	669	48	8.6	127	34.5	136	31.3	91	26.0	267	94.8
Bucks	693	378	1,071	74	9.0	225	42.8	257	34.4	131	21.7	384	93.7
Chester	445	264	709	61	8.9	160	36.6	129	23.0	97	22.3	262	91.6
Delaware	657	418	1,075	49	6.5	174	33.2	232	38.7	163	32.9	457	114.0
Lancaster	610	314	924	98	13.8	178	37.9	206	40.1	116	27.3	326	92.3
Montgomery	869	527	1,396	83	8.2	233	33.5	267	29.9	152	21.3	661	115.7
Philadelphia	2,409	1,158	3,567	210	10.2	718	43.1	1,076	74.1	692	60.5	869	90.5
Schuylkill	281	160	441	34	20.9	85	63.0	102	61.1	60	44.3	160	116.6

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	17,029	9,646	<b>26,675</b>	1,993	12.3	5,055	43.1	5,951	44.6	3,984	34.9	9,685	102.1
<b>North Central</b>	898	514	<b>1,412</b>	154	17.6	258	35.8	251	37.1	207	34.2	542	103.5
Bradford	83	43	126	14	17.4	27	51.2	25	38.0	19	31.6	41	80.3
Centre	121	73	194	17	9.0	36	16.6	42	33.5	28	27.3	71	91.5
Clinton	67	31	98	7	NA	20	55.0	17	47.9	18	54.2	36	115.5
Columbia	106	50	156	20	23.4	25	36.3	25	41.2	26	45.1	60	115.2
Lycoming	141	100	241	22	15.0	42	37.5	37	30.2	42	37.9	98	102.3
Montour	25	17	42	6	NA	10	71.1	8	NA	5	NA	13	80.9
Northumberland	166	91	257	26	24.3	46	60.1	52	52.6	34	37.4	99	115.4
Potter	34	14	48	7	NA	15	108.8	4	NA	3	NA	19	125.6
Snyder	44	28	72	12	23.0	6	NA	14	36.3	9	NA	31	115.8
Sullivan	4	4	8	0	NA	1	NA	1	NA	4	NA	2	NA
Tioga	51	38	89	16	27.9	9	NA	15	38.6	11	28.0	38	108.9
Union	56	25	81	7	NA	21	41.3	11	22.5	8	NA	34	113.0
<b>South Central</b>	2,171	1,265	<b>3,436</b>	341	16.3	690	46.2	633	35.9	478	31.4	1,292	107.7
Adams	145	60	205	29	21.2	52	55.6	36	32.8	29	31.7	59	85.1
Bedford	92	45	137	18	29.0	35	82.3	24	44.9	20	41.1	40	93.2
Blair	214	150	364	24	15.2	64	56.5	82	63.1	43	35.3	151	138.7
Cumberland	250	117	367	38	13.1	84	37.4	64	26.9	47	22.8	133	78.5
Dauphin	284	191	475	41	12.4	89	38.7	87	30.0	87	35.3	171	96.7
Franklin	193	106	299	31	16.9	63	49.2	43	30.3	45	34.8	116	101.8
Fulton	35	14	49	3	NA	13	95.6	11	69.8	5	NA	17	146.0
Huntingdon	64	50	114	17	31.8	22	47.1	23	45.9	12	27.8	40	113.4
Juniata	43	15	58	10	32.0	14	69.1	12	49.5	4	NA	18	94.7
Lebanon	142	94	236	27	16.8	37	30.4	38	29.3	34	28.8	100	96.5
Mifflin	77	45	122	12	19.7	31	79.6	14	29.5	13	30.2	52	126.7
Perry	81	30	111	12	19.7	24	59.9	34	67.1	10	22.2	31	110.2
York	551	348	899	79	14.6	162	42.6	165	34.4	129	33.1	364	130.1

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	17,029	9,646	<b>26,675</b>	1,993	12.3	5,055	43.1	5,951	44.6	3,984	34.9	9,685	102.1
<b>Northwest</b>	1,402	822	<b>2,224</b>	202	16.8	406	47.7	465	47.9	355	40.6	795	103.2
Cameron	14	8	22	3	NA	2	NA	5	NA	1	NA	11	204.8
Clarion	64	29	93	11	20.6	20	49.9	16	41.5	13	35.3	33	99.3
Clearfield	142	92	234	27	29.1	46	61.8	52	55.7	34	42.5	75	104.5
Crawford	144	77	221	18	15.0	40	50.4	41	45.7	36	41.8	86	121.5
Elk	62	28	90	5	NA	24	92.2	21	56.1	14	44.2	26	86.3
Erie	341	200	541	40	10.5	84	29.5	126	43.5	95	38.5	196	97.8
Forest	8	8	16	1	NA	0	NA	5	NA	2	NA	8	NA
Jefferson	69	54	123	23	41.1	16	40.4	21	44.5	22	50.3	41	99.7
Lawrence	129	92	221	14	12.0	41	53.8	44	46.8	38	43.6	83	97.1
McKean	67	30	97	6	NA	18	45.1	25	51.9	18	45.3	30	80.6
Mercer	180	118	298	27	17.5	59	58.5	56	46.7	47	42.4	109	103.6
Venango	104	49	153	12	17.2	38	83.4	27	46.8	23	40.7	53	111.7
Warren	78	37	115	15	29.5	18	54.6	26	58.9	12	27.7	44	119.9
<b>Southwest</b>	3,975	2,356	<b>6,331</b>	362	11.0	1,134	46.8	1,432	49.1	964	36.5	2,439	103.4
Allegheny	1,606	979	2,585	114	7.6	415	37.1	626	47.7	450	38.7	980	92.9
Armstrong	120	73	193	15	17.3	34	61.9	44	58.4	17	24.5	83	130.1
Beaver	248	153	401	29	14.0	65	44.9	87	46.1	55	31.4	165	102.6
Butler	218	143	361	27	11.0	80	49.5	74	36.2	44	26.1	136	104.5
Cambria	294	155	449	32	18.9	86	66.9	103	67.6	69	47.9	159	114.5
Fayette	269	135	404	25	14.5	89	72.8	93	59.7	68	46.3	129	100.6
Greene	60	50	110	13	28.2	30	75.4	21	48.0	15	37.8	31	103.7
Indiana	142	67	209	10	8.7	38	40.3	39	46.9	35	43.6	87	127.2
Somerset	138	80	218	18	20.5	38	52.8	36	42.1	28	37.4	98	135.5
Washington	304	168	472	30	12.0	88	47.9	108	49.9	62	30.5	184	103.8
Westmoreland	576	353	929	49	11.6	171	56.7	201	50.6	121	32.5	387	116.1

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 DEATHS: ALL UNINTENTIONAL

### NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2004-2008

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	352	46.7	41.8-51.5	Allegheny	2,222	36.9	35.4-38.4 -	Berks	59	29.2	21.7-36.6
Chester	54	37.3	27.3-47.2	Chester	648	31.2	28.8-33.6 -	Lancaster	44	31.6	22.3-41.0
Dauphin	73	34.6	26.7-42.6	Dauphin	400	37.1	33.4-40.7	Lehigh	51	30.1	21.8-38.3
Delaware	126	30.2	24.9-35.5 -	Delaware	939	38.4	36.0-40.9	Philadelphia	303	47.6	42.2-53.0 +
Montgomery	88	28.2	22.3-34.1 -	Montgomery	1,274	35.1	33.2-37.0 -				
Philadelphia	1,454	46.6	44.2-49.0 +	Philadelphia	2,047	55.1	52.7-57.5 +				
Pennsylvania	2,514	41.6	40.0-43.2	Pennsylvania	23,918	40.9	40.4-41.4	Pennsylvania	715	31.6	29.3-34.0

### NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2004-2008

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	13.2%	230	122	<b>352</b>	13.6%	37	13.3	53	31.8	101	65.2	82	68.7	79	87.0
	White	83.5%	1,369	853	<b>2,222</b>	86.0%	76	6.6	357	39.9	524	46.9	366	35.8	899	94.4
Chester	Black	6.3%	43	11	<b>54</b>	7.6%	6	NA	16	45.9	7	NA	14	65.1	11	73.6
	White	90.0%	397	251	<b>648</b>	91.4%	55	9.1	140	36.6	120	23.6	83	20.6	250	94.1
Dauphin	Black	17.8%	43	30	<b>73</b>	15.4%	11	14.0	15	32.3	18	37.0	18	53.5	11	57.8
	White	77.8%	239	161	<b>400</b>	84.2%	30	13.1	73	42.6	69	30.2	68	33.1	160	103.3
Delaware	Black	17.4%	88	38	<b>126</b>	11.7%	13	8.0	18	15.5	35	34.0	26	41.3	34	88.1
	White	77.3%	563	376	<b>939</b>	87.3%	36	6.6	154	41.0	194	42.0	135	32.8	420	118.8
Montgomery	Black	8.6%	65	23	<b>88</b>	6.3%	11	11.2	12	16.2	25	31.2	18	33.9	22	75.2
	White	85.0%	782	492	<b>1,274</b>	91.3%	68	8.2	217	38.2	237	31.6	127	20.4	625	118.9
Philadelphia	Black	45.6%	972	482	<b>1,454</b>	40.8%	109	10.0	202	28.4	451	67.7	370	74.7	321	89.8
	White	47.3%	1,395	652	<b>2,047</b>	57.4%	87	10.8	499	62.3	613	89.1	317	54.6	531	93.4
Pennsylvania	Black	10.6%	1,713	801	<b>2,514</b>	9.4%	251	11.5	412	27.6	719	53.0	601	63.9	530	84.1
	White	86.1%	15,161	8,757	<b>23,918</b>	89.7%	1,705	12.8	4,577	47.1	5,183	44.8	3,354	32.9	9,094	104.2

## INJURY DEATHS: SUICIDES

In 2008, among Pennsylvania residents, there were 1,522 deaths due to self-inflicted injury (suicides). On average, one resident died every six hours.

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### ***Injury Definition***

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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 2004 to 2008.*
- *Most common demographic is **white males**, ages 15 to 59.*
- *Of all Pennsylvania counties, **Potter and Wayne** show the highest rates.*

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### ***Trends Over Time***

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- Age-adjusted death rates for suicide increased by 8 percent from 2004 to 2008.
- The age-adjusted suicide rate remained stable from 2004 to 2007 at 11.0 deaths per 100,000 population and increased in 2008 to 11.9 deaths per 100,000 population.
- Males showed significantly higher age-adjusted suicide rates than females over 2004 to 2008 (rates were 20.2 and 4.1, respectively, in 2008).
- White males showed significantly higher age-adjusted suicide rates than black males over 2004 to 2008 (rates were 21.7 and 11.5, respectively, in 2008).

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### ***Demographic Trends***

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- White males ages 15 to 59 accounted for over half of all suicides in 2004 to 2008.
- Males showed significantly higher suicide rates than females for all age groups.
- Among males, whites showed significantly higher suicide rates for most ages 15 to 59.
- Urban and rural populations showed very similar suicide rates for all age groups.

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### ***Regional Trends***

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- The Northeast Health District showed the highest age-specific suicide rates, while the Southeast Health District showed the lowest rates.
- Seven counties showed age-adjusted suicide rates in 2004 to 2008 that were significantly higher than the comparable state rate: Bedford, Cambria, Lackawanna, Luzerne, Potter, Schuylkill and Wayne. Most counties were rural.

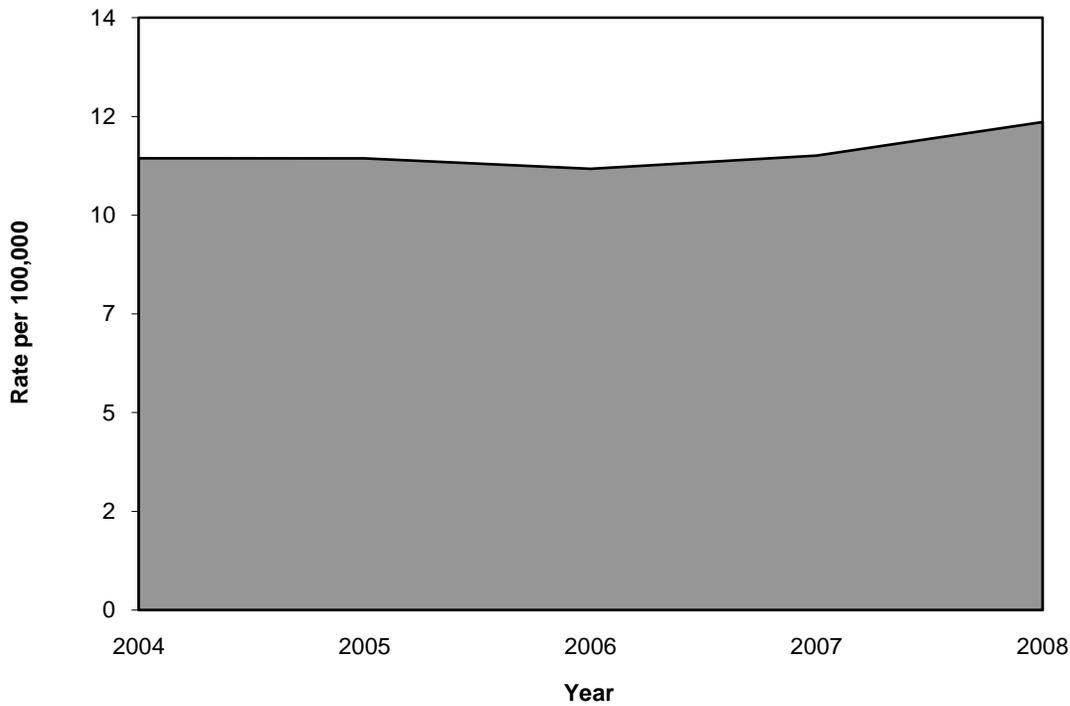
## INJURY DEATHS: SUICIDES

### TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES PENNSYLVANIA RESIDENTS, 2004-2008

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Year	No.	Rate
2004	1,397	11.0
2005	1,404	11.0
2006	1,372	10.7
2007	1,416	11.0
2008	1,522	11.9

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### AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2004-2008

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Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2004	9.2	9.2	12.4	10.6	11.8	11.5
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

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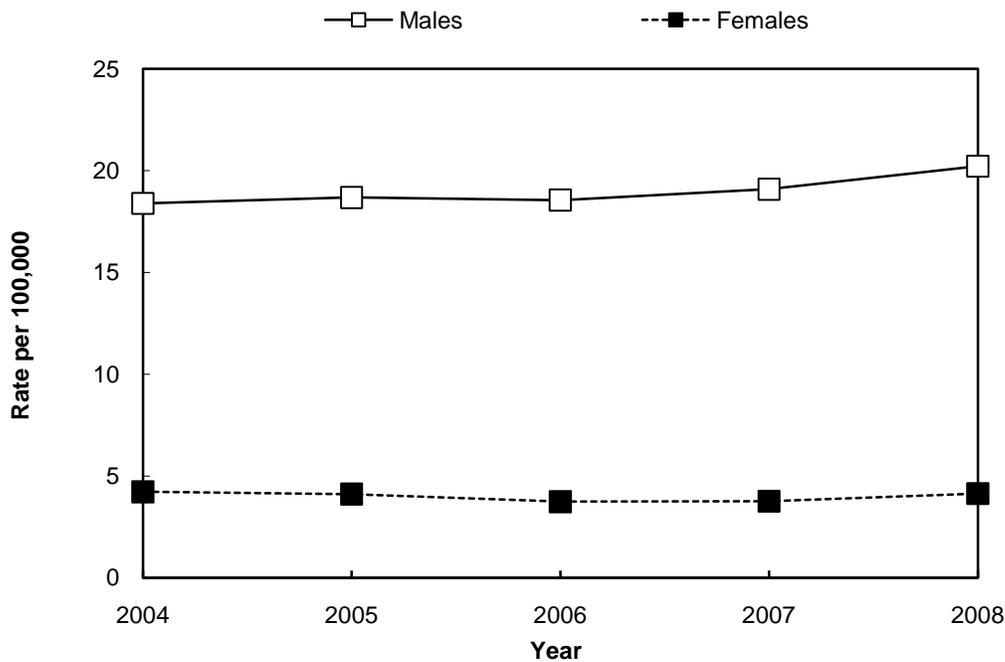
NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2004-2008 based on ICD-10 codes. See Technical Notes.

## INJURY DEATHS: SUICIDES

### TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX PENNSYLVANIA RESIDENTS, 2004-2008

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2004	1,125	18.4 *	2004	272	4.2
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

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



### AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2004-2008

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2004	18.3	18.8	2004	4.2	4.4
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

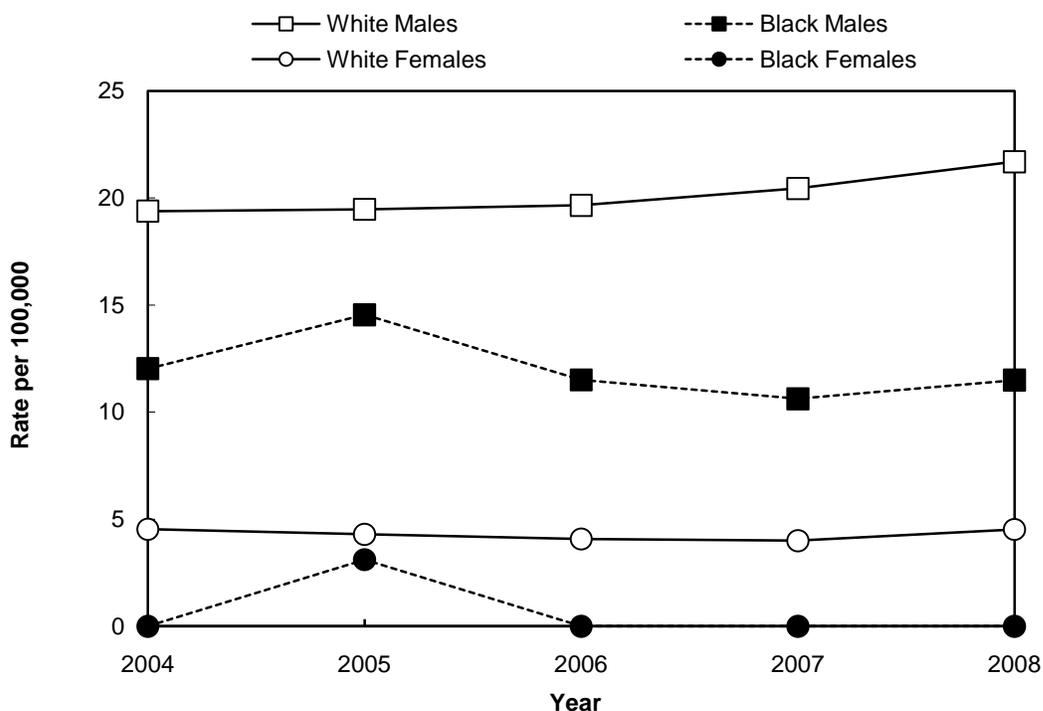
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

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, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	1,043	72	254	16	29	4
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



### AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	19.4	12.0 *	4.5	NA	13.8	NA
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

\* 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, 2004-2008

AGE GROUP	PA TOTAL		MALE		FEMALE			URBAN		RURAL	
	No.	Rate	No.	Rate	No.	Rate		No.	Rate	No.	Rate
<b>TOTAL</b>	<b>7,111</b>	<b>11.4</b>	<b>5,813</b>	<b>19.3</b>	<b>1,298</b>	<b>4.1</b>		<b>4,994</b>	<b>11.1</b>	<b>2,117</b>	<b>12.3</b>
< 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	46	1.1	32	1.5	14	0.7	*	35	1.2	11	1.0
15-19	278	6.0	219	9.4	59	2.6	*	189	5.7	89	6.8
20-24	537	12.4	456	20.7	81	3.8	*	384	12.4	153	12.4
25-29	512	14.2	432	23.4	80	4.5	*	364	13.5	148	16.0
30-34	515	13.7	410	21.7	105	5.6	*	360	13.0	155	15.4
35-39	637	15.3	511	24.7	126	6.0	*	453	14.9	184	16.5
40-44	791	17.4	647	28.8	144	6.3	*	547	16.5	244	19.9
45-49	898	19.3	708	30.9	190	8.1	*	644	19.1	254	19.9
50-54	798	18.2	629	29.2	169	7.5	*	575	18.2	223	18.2
55-59	564	14.6	458	24.6	106	5.3	*	399	14.5	165	15.0
60-64	381	12.0	309	20.5	72	4.3	*	271	12.1	110	11.7
65-69	276	10.6	232	19.6	44	3.1	*	181	10.0	95	12.1
70-74	226	10.1	192	19.6	34	2.7	*	148	9.4	78	11.6
75-79	276	14.3	245	31.4	31	2.7	*	184	13.5	92	16.2
80-84	208	14.5	183	34.0	25	2.8	*	146	14.2	62	15.0
85 +	164	12.8	146	39.3	18	2.0	*	111	12.1	53	14.7

\* 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 DEATHS: SUICIDES

### TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2004-2008

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>5,402</b>	<b>20.8</b>	<b>353</b>	<b>11.3</b>	<b>1,206</b>	<b>4.4</b>	<b>73</b>	<b>2.1</b>	<b>164</b>	<b>6.2</b>
< 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	27	1.6	4	NA	11	0.7	3	NA	4	NA
15-19	200	10.4	18	5.9	49	2.6	9	NA	11	4.2
20-24	397	21.8	48	16.8	68	3.9	8	NA	21	9.1
25-29	384	25.2	36	15.0	66	4.5	11	4.6	22	10.2
30-34	368	23.1	36	16.8	93	5.9	10	4.4	23	11.4
35-39	467	26.3	40	18.7	114	6.4	10	4.2	15	7.6
40-44	600	30.6	42	19.4	139	7.0	3	NA	19	10.5
45-49	663	32.7	41	20.0	185	9.0	3	NA	15	9.5
50-54	598	31.1	25	14.3	160	8.1	9	NA	11	9.6
55-59	435	25.8	22	15.9	104	5.9	2	NA	10	11.2
60-64	299	21.8	8	NA	72	4.8	0	NA	4	NA
65-69	222	20.4	9	NA	41	3.2	2	NA	3	NA
70-74	185	20.5	6	NA	32	2.8	2	NA	3	NA
75-79	239	32.9	5	NA	31	2.9	0	NA	1	NA
80-84	174	34.7	9	NA	24	2.9	0	NA	1	NA
85 +	142	41.1	2	NA	17	2.0	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, 2004-2008

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>576</b>	<b>12.3</b>	<b>366</b>	<b>10.8</b>	<b>1,037</b>	<b>13.4</b>	<b>2,577</b>	<b>10.5</b>	<b>925</b>	<b>11.5</b>	<b>1,630</b>	<b>12.0</b>
< 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	1	NA	9	NA	19	1.1	7	NA	7	NA
15-19	30	8.4	15	4.8	33	5.7	97	5.3	42	7.3	61	6.4
20-24	39	12.3	23	6.5 -	93	17.7 +	199	11.5	63	12.1	120	13.6
25-29	28	10.8	25	14.4	80	18.7 +	190	12.4	63	13.3	126	16.9 +
30-34	43	15.7	25	12.8	72	15.9	185	11.9	67	13.5	123	15.6
35-39	60	20.3 +	37	17.6	101	19.6 +	232	13.6	77	14.0	130	14.8
40-44	61	18.6	36	15.7	115	20.3	288	15.7	119	19.8	172	17.4
45-49	56	16.2	46	19.4	116	20.0	338	18.5	116	19.0	226	21.6
50-54	67	20.2	36	15.8	129	23.2 +	287	17.0	87	15.0	192	19.0
55-59	39	13.3	27	13.2	77	15.5	208	14.4	87	16.8	126	14.1
60-64	35	14.0	26	15.0	48	11.3	149	12.8	50	11.8	73	9.9
65-69	27	12.9	17	11.4	41	11.9	83	8.9	37	10.7	71	11.6
70-74	27	14.6 +	10	7.9	29	9.8	80	10.0	30	10.3	50	9.1
75-79	28	17.6	21	19.9	50	20.1 +	83	12.1	31	12.8	63	12.8
80-84	15	12.8	12	15.6	26	14.3	73	14.1	28	16.2	54	14.5
85 +	18	17.9	9	NA	17	10.5	64	13.7	21	14.2	35	10.5

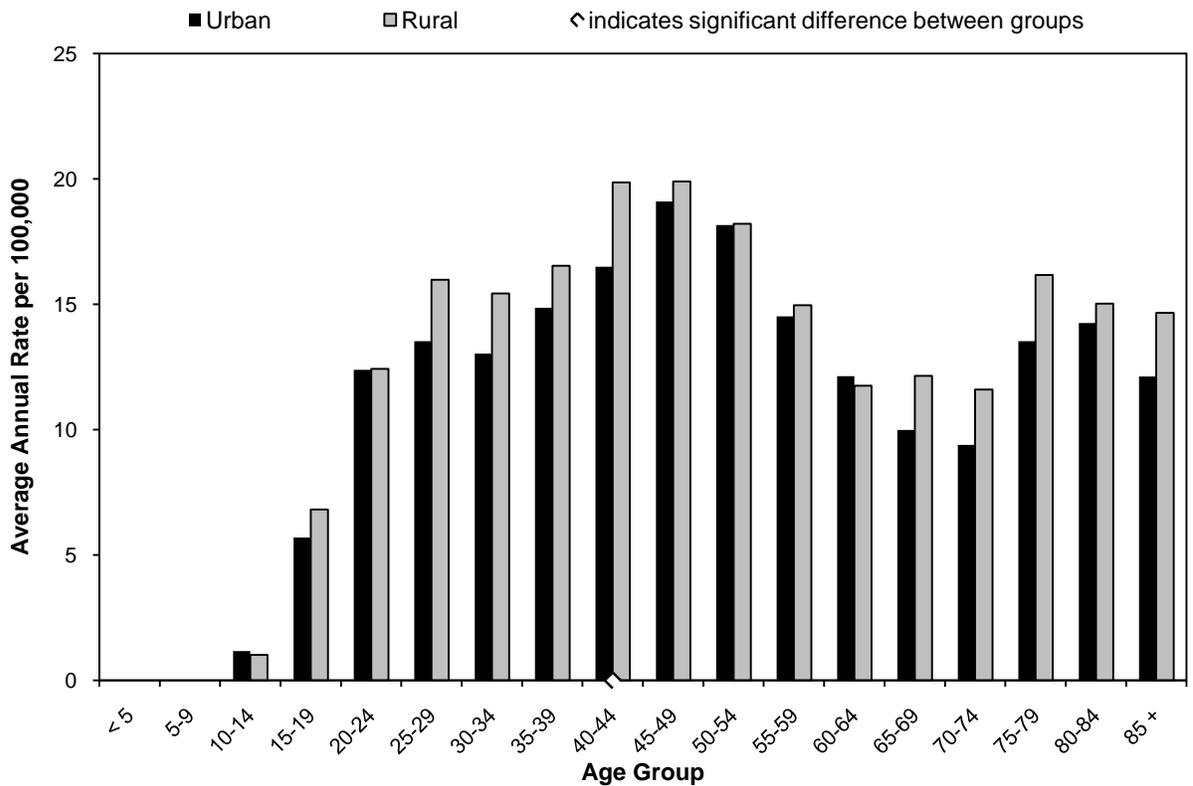
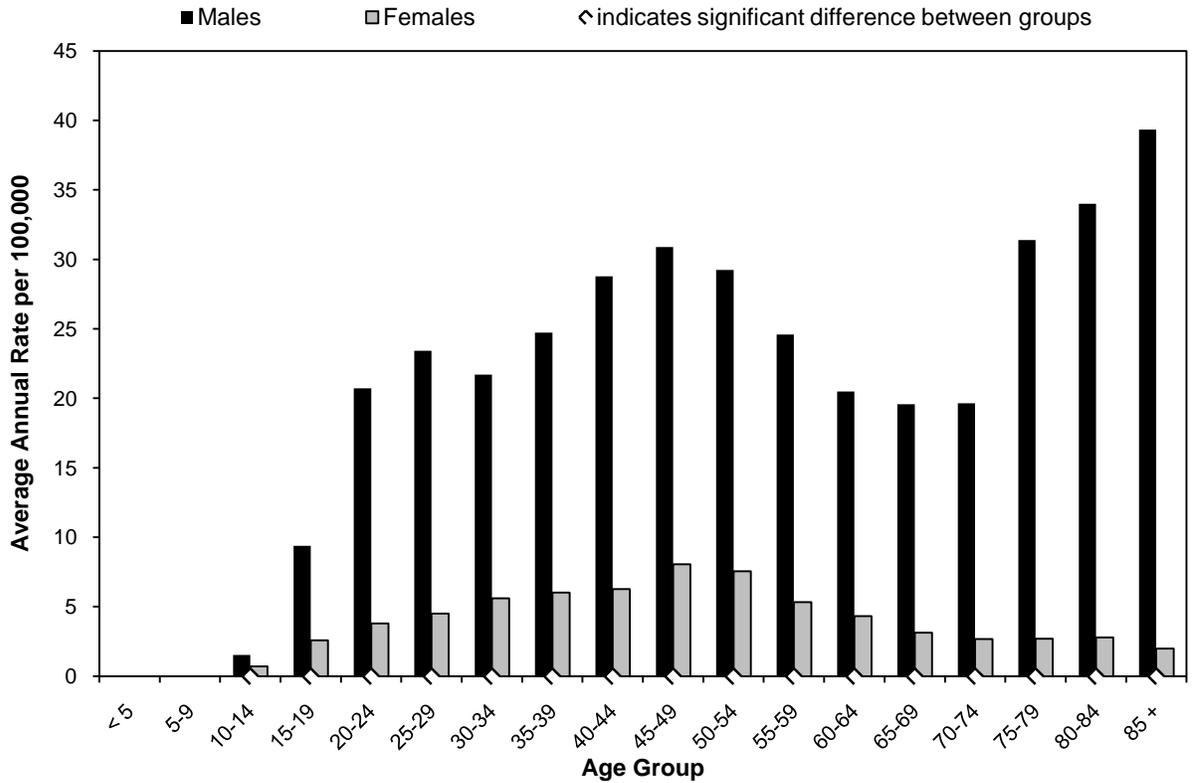
*+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.*

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.

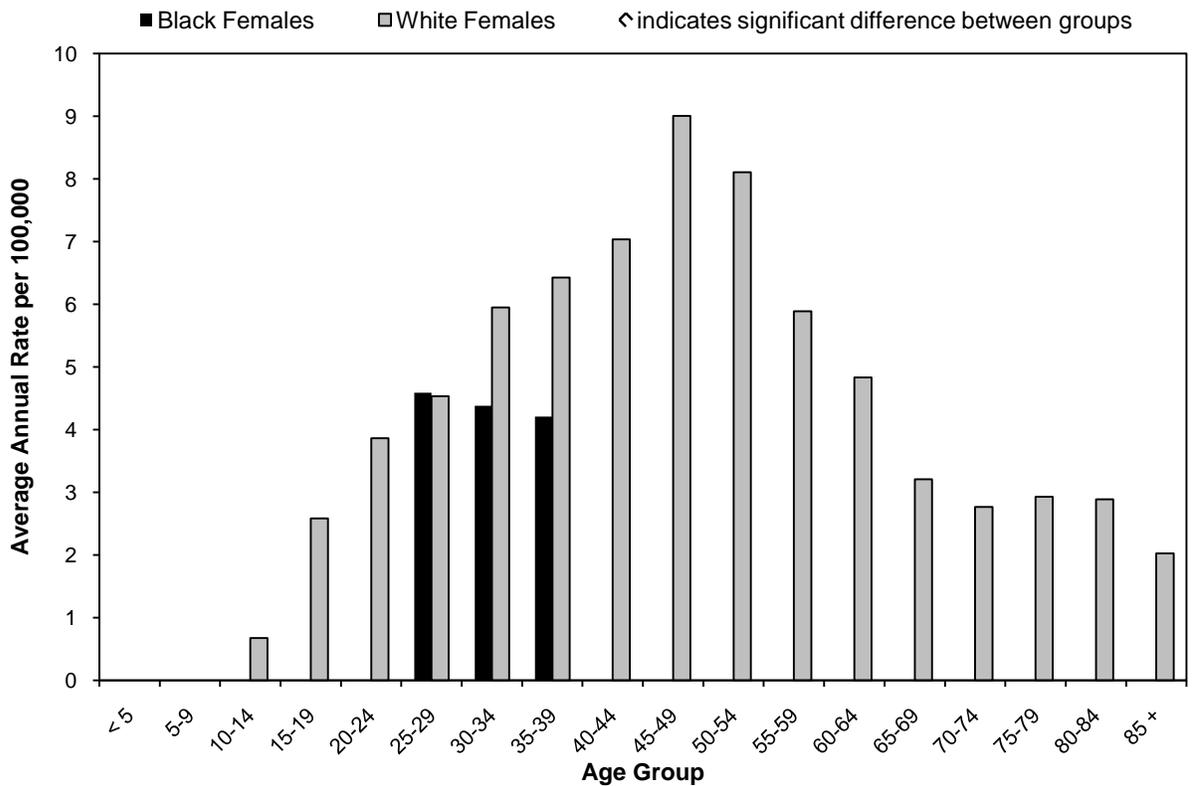
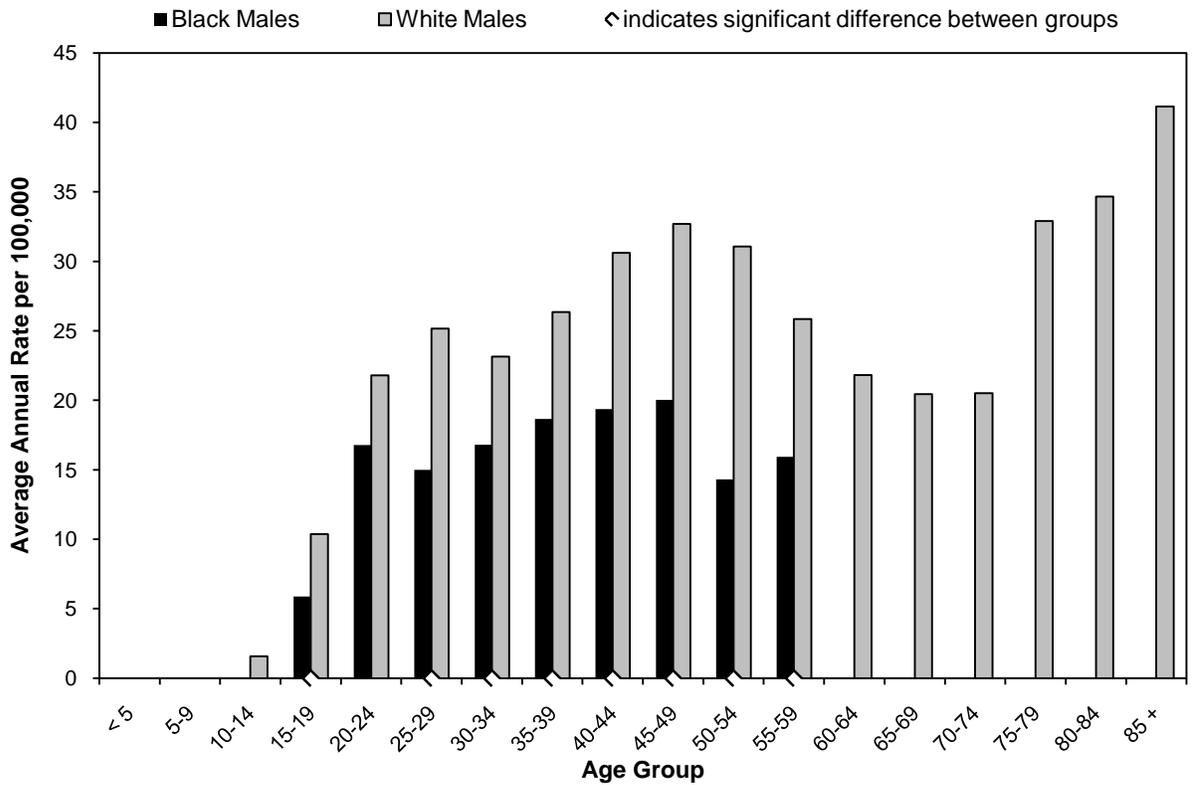
# INJURY DEATHS: SUICIDES

AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS  
PENNSYLVANIA RESIDENTS, 2004-2008



# INJURY DEATHS: SUICIDES

## AVERAGE ANNUAL DEATH RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2004-2008



# INJURY DEATHS: SUICIDES

## NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2004-2008

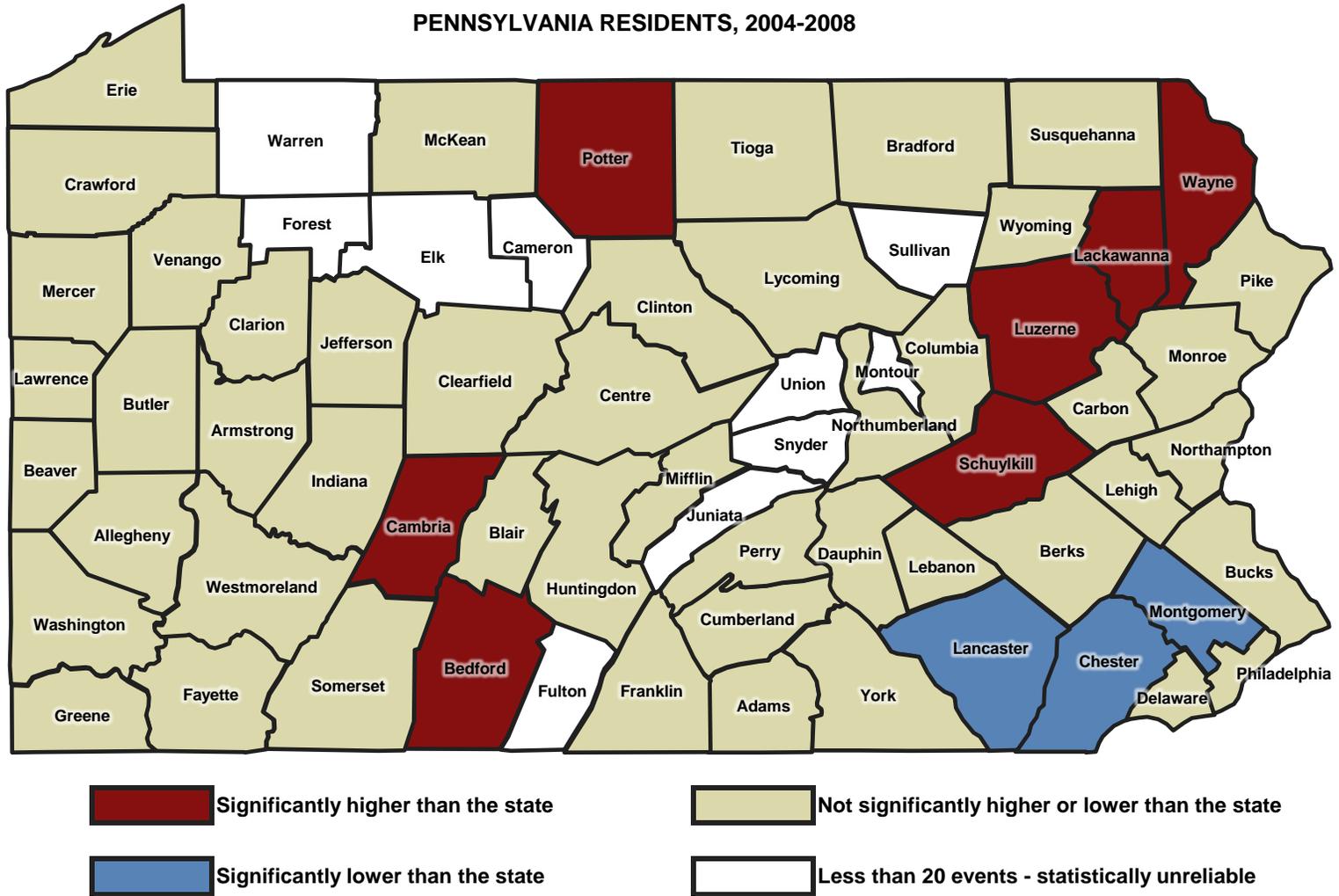
District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
<b>Northeast</b>	1,037	13.1	12.3-13.9 +	<b>Southeast</b>	2,577	10.3	9.9-10.7 -
Carbon	53	14.9	10.9-19.0	Berks	237	11.8	10.3-13.3
Lackawanna	161	14.9	12.6-17.3 +	Bucks	358	11.1	10.0-12.3
Lehigh	200	11.7	10.1-13.3	Chester	226	9.3	8.1-10.6 -
Luzerne	231	14.7	12.8-16.6 +	Delaware	298	10.4	9.2-11.6
Monroe	98	11.6	9.3-13.9	Lancaster	222	8.8	7.7-10.0 -
Northampton	159	10.8	9.2-12.5	Montgomery	368	9.1	8.2-10.1 -
Pike	36	12.2	8.2-16.1	Philadelphia	757	10.5	9.7-11.2
Susquehanna	28	13.9	8.7-19.0	Schuylkill	111	14.5	11.8-17.2 +
Wayne	48	18.7	13.4-24.0 +				
Wyoming	23	17.3	10.2-24.3				
<b>North Central</b>	366	10.6	9.5-11.7	<b>South Central</b>	925	11.1	10.4-11.8
Bradford	41	12.9	8.9-16.8	Adams	46	9.0	6.4-11.7
Centre	65	10.7	8.1-13.2	Bedford	41	16.7	11.6-21.9 +
Clinton	25	14.2	8.6-19.7	Blair	92	14.2	11.3-17.0
Columbia	34	9.9	6.6-13.2	Cumberland	127	10.9	9.0-12.8
Lycoming	71	11.7	8.9-14.4	Dauphin	132	10.0	8.3-11.7
Montour	8	NA		Franklin	70	9.8	7.5-12.1
Northumberland	43	9.3	6.5-12.1	Fulton	13	NA	
Potter	21	25.2	14.4-35.9 +	Huntingdon	28	11.8	7.4-16.2
Snyder	18	NA		Juniata	10	NA	
Sullivan	5	NA		Lebanon	65	9.9	7.5-12.4
Tioga	26	12.4	7.7-17.2	Mifflin	29	13.1	8.4-17.9
Union	9	NA		Perry	30	13.1	8.4-17.8
				York	242	11.3	9.9-12.7
<b>Northwest</b>	576	12.0	11.0-12.9	<b>Southwest</b>	1,630	11.5	10.9-12.1
Cameron	7	NA		Allegheny	728	11.3	10.5-12.1
Clarion	21	10.4	5.9-14.8	Armstrong	47	13.3	9.5-17.2
Clearfield	61	13.7	10.3-17.1	Beaver	92	9.7	7.7-11.7
Crawford	67	14.4	11.0-17.9	Butler	98	10.6	8.5-12.7
Elk	17	NA		Cambria	106	14.4	11.7-17.2 +
Erie	159	11.3	9.5-13.1	Fayette	75	9.8	7.6-12.0
Forest	2	NA		Greene	28	13.4	8.5-18.4
Jefferson	37	15.9	10.8-21.0	Indiana	57	14.0	10.3-17.6
Lawrence	53	11.7	8.6-14.9	Somerset	49	11.5	8.3-14.8
McKean	25	10.7	6.5-14.9	Washington	118	10.9	8.9-12.9
Mercer	68	11.6	8.8-14.3	Westmoreland	232	12.4	10.8-14.0
Venango	40	13.7	9.5-18.0				
Warren	19	NA		<b>Pennsylvania</b>	<b>7,111</b>	<b>11.1</b>	<b>10.9-11.4</b>

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, 2004-2008



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, 2004-2008

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	5,813	1,298	7,111	324	2.0	1,564	13.3	2,326	17.4	1,743	15.3	1,150	12.1
<b>Northeast</b>	862	175	<b>1,037</b>	42	2.1	245	17.4	332	20.0	254	17.2	163	13.2
Carbon	49	4	53	0	NA	12	20.2	9	NA	20	32.1	11	20.5
Lackawanna	133	28	161	7	NA	49	25.3	41	19.3	42	21.5	22	11.4
Lehigh	158	42	200	10	2.3	47	14.9	60	16.8	56	18.2	27	10.7
Luzerne	190	41	231	11	3.0	59	20.8	85	25.7	48	16.1	28	9.7
Monroe	75	23	98	8	NA	14	9.9	34	17.8	27	17.7	15	15.9
Northampton	138	21	159	6	NA	32	11.8	53	17.2	35	13.1	33	15.6
Pike	32	4	36	0	NA	7	NA	14	21.0	10	15.7	5	NA
Susquehanna	24	4	28	0	NA	8	NA	10	23.1	6	NA	4	NA
Wayne	43	5	48	0	NA	13	31.4	17	31.8	6	NA	12	26.6
Wyoming	20	3	23	0	NA	4	NA	9	NA	4	NA	6	NA
<b>Southeast</b>	2,069	508	<b>2,577</b>	116	1.7	574	11.9	858	16.0	644	15.0	383	11.3
Berks	197	40	237	9	NA	52	14.1	71	16.4	57	16.3	48	17.0
Bucks	279	79	358	15	1.8	78	14.8	106	14.2	98	16.2	61	14.9
Chester	180	46	226	8	NA	46	10.5	88	15.7	52	12.0	32	11.2
Delaware	230	68	298	20	2.6	52	9.9	107	17.9	77	15.6	41	10.2
Lancaster	198	24	222	14	2.0	52	11.1	60	11.7	66	15.5	29	8.2
Montgomery	276	92	368	12	1.2	68	9.8	134	15.0	96	13.5	58	10.2
Philadelphia	610	147	757	31	1.5	200	12.0	250	17.2	179	15.7	97	10.1
Schuylkill	99	12	111	7	NA	26	19.3	42	25.2	19	14.0	17	12.4

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	5,813	1,298	7,111	324	2.0	1,564	13.3	2,326	17.4	1,743	15.3	1,150	12.1
<b>North Central</b>	299	67	<b>366</b>	16	1.8	73	10.1	119	17.6	89	14.7	69	13.2
Bradford	36	5	41	2	NA	9	NA	11	16.7	9	NA	10	19.6
Centre	50	15	65	2	NA	15	6.9	20	16.0	22	21.4	6	NA
Clinton	21	4	25	2	NA	7	NA	7	NA	5	NA	4	NA
Columbia	31	3	34	1	NA	3	NA	10	16.5	9	NA	11	21.1
Lycoming	53	18	71	2	NA	13	11.6	28	22.8	17	15.4	11	11.5
Montour	6	2	8	1	NA	1	NA	1	NA	3	NA	2	NA
Northumberland	37	6	43	2	NA	11	14.4	16	16.2	6	NA	8	NA
Potter	16	5	21	1	NA	6	NA	6	NA	4	NA	4	NA
Snyder	17	1	18	1	NA	4	NA	5	NA	5	NA	3	NA
Sullivan	4	1	5	0	NA	0	NA	1	NA	2	NA	2	NA
Tioga	21	5	26	2	NA	3	NA	11	28.3	6	NA	4	NA
Union	7	2	9	0	NA	1	NA	3	NA	1	NA	4	NA
<b>South Central</b>	753	172	<b>925</b>	49	2.3	193	12.9	312	17.7	224	14.7	147	12.3
Adams	40	6	46	4	NA	10	10.7	16	14.6	9	NA	7	NA
Bedford	29	12	41	2	NA	12	28.2	16	29.9	3	NA	8	NA
Blair	79	13	92	5	NA	15	13.2	34	26.1	24	19.7	14	12.9
Cumberland	105	22	127	8	NA	25	11.1	42	17.7	32	15.5	20	11.8
Dauphin	102	30	132	6	NA	30	13.0	41	14.1	37	15.0	18	10.2
Franklin	58	12	70	2	NA	15	11.7	21	14.8	21	16.2	11	9.7
Fulton	11	2	13	0	NA	2	NA	4	NA	6	NA	1	NA
Huntingdon	21	7	28	1	NA	4	NA	13	25.9	7	NA	3	NA
Juniata	10	0	10	1	NA	2	NA	4	NA	2	NA	1	NA
Lebanon	56	9	65	3	NA	18	14.8	18	13.9	15	12.7	11	10.6
Mifflin	24	5	29	3	NA	9	NA	8	NA	6	NA	3	NA
Perry	25	5	30	1	NA	6	NA	12	23.7	4	NA	7	NA
York	193	49	242	13	2.4	45	11.8	83	17.3	58	14.9	43	15.4

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	5,813	1,298	7,111	324	2.0	1,564	13.3	2,326	17.4	1,743	15.3	1,150	12.1
<b>Northwest</b>	492	84	<b>576</b>	33	2.7	110	12.9	177	18.2	141	16.1	115	14.9
Cameron	6	1	7	0	NA	1	NA	4	NA	1	NA	1	NA
Clarion	17	4	21	0	NA	4	NA	5	NA	7	NA	5	NA
Clearfield	53	8	61	4	NA	7	NA	19	20.3	15	18.7	16	22.3
Crawford	57	10	67	4	NA	10	12.6	19	21.2	18	20.9	16	22.6
Elk	17	0	17	1	NA	3	NA	5	NA	5	NA	3	NA
Erie	141	18	159	10	2.6	33	11.6	54	18.7	38	15.4	24	12.0
Forest	2	0	2	0	NA	1	NA	0	NA	1	NA	0	NA
Jefferson	34	3	37	3	NA	10	25.2	10	21.2	6	NA	8	NA
Lawrence	49	4	53	4	NA	13	17.1	17	18.1	11	12.6	8	NA
McKean	23	2	25	1	NA	6	NA	5	NA	5	NA	8	NA
Mercer	49	19	68	3	NA	13	12.9	21	17.5	21	18.9	10	9.5
Venango	30	10	40	3	NA	6	NA	14	24.3	7	NA	10	21.1
Warren	14	5	19	0	NA	3	NA	4	NA	6	NA	6	NA
<b>Southwest</b>	1,338	292	<b>1,630</b>	68	2.1	369	15.2	528	18.1	391	14.8	273	11.6
Allegheny	596	132	728	29	1.9	155	13.9	239	18.2	182	15.6	122	11.6
Armstrong	42	5	47	1	NA	10	18.2	19	25.2	8	NA	9	NA
Beaver	79	13	92	2	NA	19	13.1	25	13.3	27	15.4	19	11.8
Butler	79	19	98	7	NA	26	16.1	28	13.7	21	12.4	16	12.3
Cambria	84	22	106	7	NA	28	21.8	37	24.3	20	13.9	14	10.1
Fayette	62	13	75	2	NA	15	12.3	25	16.0	17	11.6	16	12.5
Greene	21	7	28	0	NA	13	32.7	8	NA	6	NA	1	NA
Indiana	49	8	57	4	NA	17	18.1	12	14.4	15	18.7	9	NA
Somerset	43	6	49	2	NA	12	16.7	12	14.0	14	18.7	9	NA
Washington	90	28	118	4	NA	26	14.2	36	16.6	31	15.2	21	11.8
Westmoreland	193	39	232	10	2.4	48	15.9	87	21.9	50	13.4	37	11.1

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 DEATHS: SUICIDES

### NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2004-2008

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	61	8.0	6.0-10.0	Allegheny	654	11.9	11.0-12.9	Berks	16	NA	
Chester	11	NA		Chester	213	9.8	8.5-11.1 -	Lancaster	9	NA	
Dauphin	12	NA		Dauphin	117	11.1	9.1-13.1	Lehigh	16	NA	
Delaware	26	5.2	3.2-7.2	Delaware	268	11.9	10.5-13.4	Philadelphia	67	9.8	7.5-12.2
Montgomery	20	5.9	3.3-8.4	Montgomery	342	9.9	8.8-10.9 -				
Philadelphia	208	6.6	5.7-7.5	Philadelphia	522	14.7	13.4-15.9 +				
Pennsylvania	426	6.6	6.0-7.2	Pennsylvania	6,608	11.9	11.6-12.1	Pennsylvania	164	7.0	5.9-8.1

### NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2004-2008

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	13.2%	50	11	<b>61</b>	8.4%	5	NA	14	8.4	25	16.1	12	10.1	4	NA
	White	83.5%	535	119	<b>654</b>	89.8%	24	2.1	133	14.9	211	18.9	169	16.5	117	12.3
Chester	Black	6.3%	10	1	<b>11</b>	4.9%	1	NA	1	NA	3	NA	4	NA	2	NA
	White	90.0%	168	45	<b>213</b>	94.2%	7	NA	44	11.5	85	16.7	47	11.7	30	11.3
Dauphin	Black	17.8%	9	3	<b>12</b>	9.1%	0	NA	5	NA	4	NA	3	NA	0	NA
	White	77.8%	91	26	<b>117</b>	88.6%	6	NA	24	14.0	35	15.3	34	16.5	18	11.6
Delaware	Black	17.4%	22	4	<b>26</b>	8.7%	2	NA	11	9.5	6	NA	4	NA	2	NA
	White	77.3%	205	63	<b>268</b>	89.9%	18	3.3	38	10.1	100	21.7	73	17.7	39	11.0
Montgomery	Black	8.6%	15	5	<b>20</b>	5.4%	1	NA	10	13.5	7	NA	1	NA	1	NA
	White	85.0%	258	84	<b>342</b>	92.9%	11	1.3	56	9.9	125	16.7	95	15.2	55	10.5
Philadelphia	Black	45.6%	176	32	<b>208</b>	27.5%	14	1.3	74	10.4	70	10.5	29	5.9	21	5.9
	White	47.3%	415	107	<b>522</b>	69.0%	16	2.0	114	14.2	173	25.1	145	25.0	74	13.0
Pennsylvania	Black	10.6%	353	73	<b>426</b>	6.0%	34	1.6	149	10.0	139	10.2	66	7.0	36	5.7
	White	86.1%	5,402	1,206	<b>6,608</b>	92.9%	287	2.2	1,376	14.2	2,168	18.7	1,668	16.3	1,107	12.7

## INJURY DEATHS: HOMICIDES

In 2008, among Pennsylvania residents, there were 692 deaths due to assault injury (homicides). On average, 13 residents died every week.

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### ***Injury Definition***

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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 **stable** over 2004 to 2008.*
- *Most common demographic is **black males**, ages 15 to 49.*
- *Of all Pennsylvania counties, **Philadelphia** shows the highest rate.*

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### ***Trends Over Time***

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- Age-adjusted death rates for homicide remained largely stable from 2004 to 2008.
- The age-adjusted homicide rate increased from 2004 to 2006, from 5.7 to 6.3 deaths per 100,000 population. Rates then decreased to 5.7 deaths per 100,000 population in 2008.
- Males showed significantly higher age-adjusted homicide rates than females over 2004 to 2008 (rates were 9.5 and 1.9, respectively, in 2008).
- Black males and females showed significantly higher age-adjusted homicide rates than white males and females over 2004 to 2008.

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### ***Demographic Trends***

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- Black males ages 15 to 49 accounted for half of all homicides in 2004 to 2008.
- 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.

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### ***Regional Trends***

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- 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 2004 to 2008).

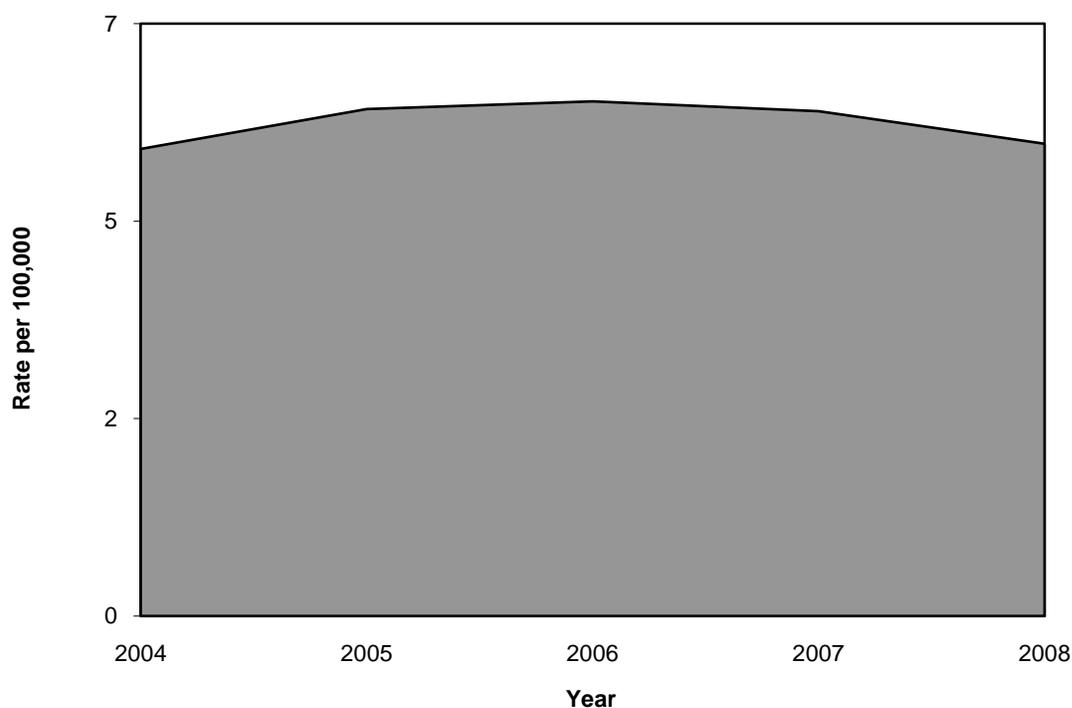
## INJURY DEATHS: HOMICIDES

### TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES PENNSYLVANIA RESIDENTS, 2004-2008

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Year	No.	Rate
2004	679	5.7
2005	741	6.2
2006	759	6.3
2007	737	6.1
2008	692	5.7

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### AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2004-2008

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Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2004	NA	NA	3.0	9.0	3.4	4.6
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

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

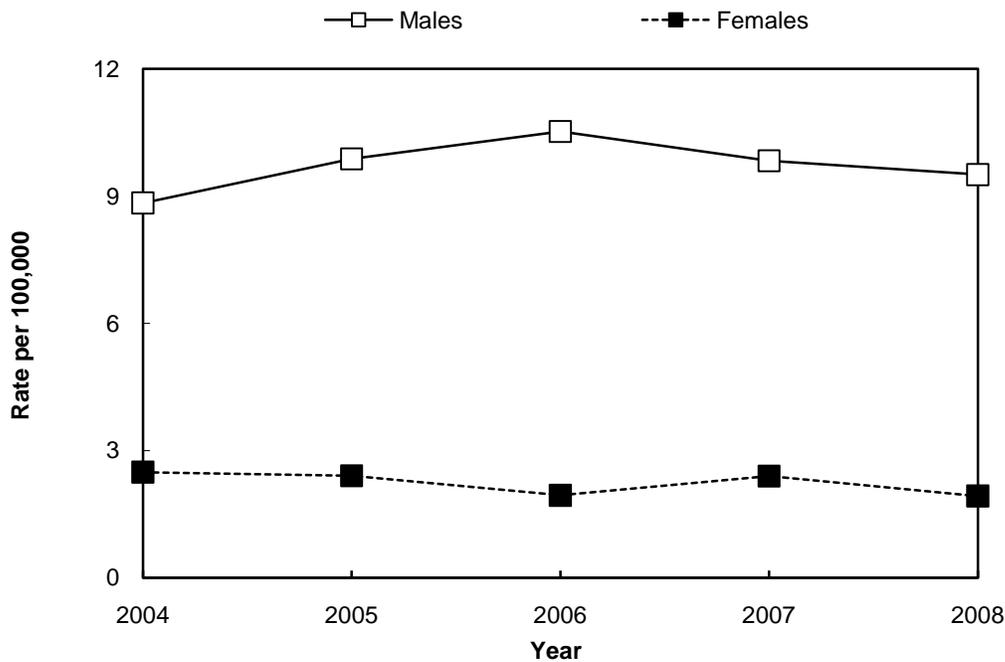
Rates are per 100,000. Data for 2004-2008 based on ICD-10 codes. See Technical Notes.

## INJURY DEATHS: HOMICIDES

### TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX PENNSYLVANIA RESIDENTS, 2004-2008

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2004	529	8.8 *	2004	150	2.5
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

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



### AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2004-2008

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2004	11.1	2.9 *	2004	2.6	2.3
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

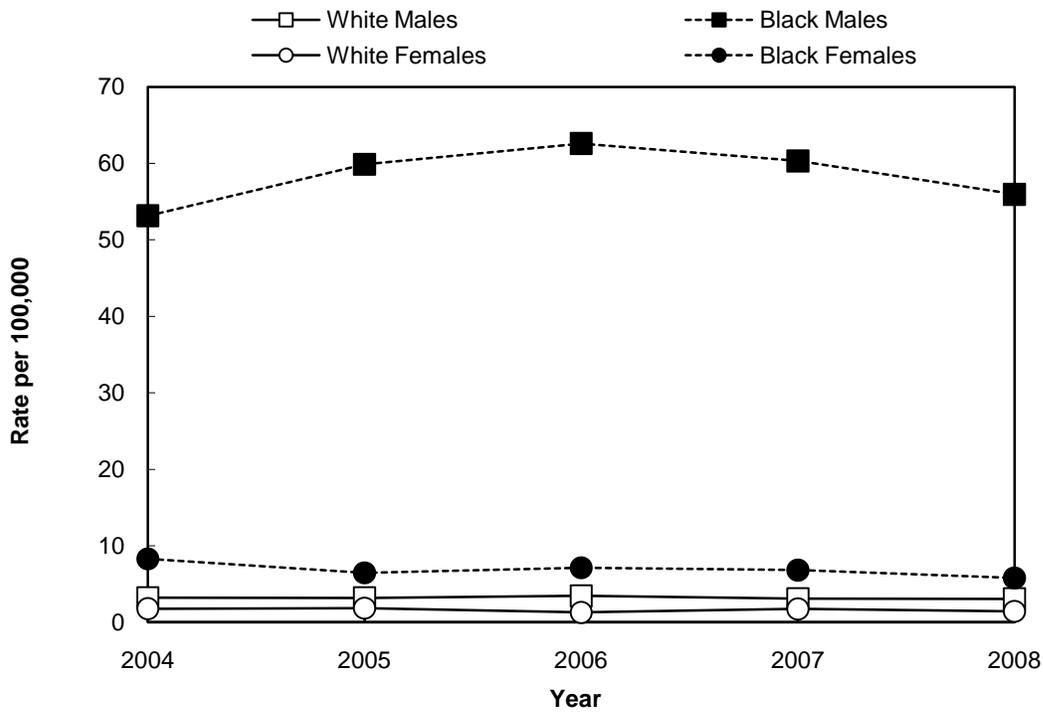
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

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, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	169	353	90	57	44	5
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



### AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	3.2	53.1 *	1.8	8.3 *	15.7	NA
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

\* 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, 2004-2008

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>3,608</b>	<b>5.8</b>	<b>2,921</b>	<b>9.7</b>	<b>687</b>	<b>2.1</b>	<b>3,248</b>	<b>7.2</b>	<b>360</b>	<b>2.1</b>
< 5	109	3.0	55	2.9	54	3.0	78	2.9	31	3.3
5-9	22	0.6	10	0.5	12	0.6	18	0.6	4	NA
10-14	41	1.0	24	1.2	17	0.9	34	1.1	7	NA
15-19	505	10.9	451	19.3	54	2.4	485	14.6	20	1.5
20-24	715	16.5	631	28.7	84	3.9	670	21.6	45	3.7
25-29	571	15.8	511	27.7	60	3.4	542	20.1	29	3.1
30-34	392	10.4	337	17.8	55	2.9	358	13.0	34	3.4
35-39	308	7.4	242	11.7	66	3.2	276	9.1	32	2.9
40-44	272	6.0	201	8.9	71	3.1	228	6.9	44	3.6
45-49	217	4.7	154	6.7	63	2.7	186	5.5	31	2.4
50-54	162	3.7	125	5.8	37	1.7	140	4.4	22	1.8
55-59	89	2.3	63	3.4	26	1.3	70	2.5	19	1.7
60-64	64	2.0	46	3.1	18	1.1	47	2.1	17	1.8
65-69	30	1.2	20	1.7	10	0.7	26	1.4	4	NA
70-74	28	1.2	18	1.8	10	0.8	20	1.3	8	NA
75-79	30	1.6	15	1.9	15	1.3	29	2.1	1	NA
80-84	29	2.0	9	NA	20	2.2	22	2.1	7	NA
85 +	21	1.6	6	NA	15	1.7	16	1.7	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, 2004-2008

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
<b>TOTAL</b>	<b>827</b>	<b>3.2</b>	<b>2,025</b>	<b>64.6</b>	<b>429</b>	<b>1.6</b>	<b>242</b>	<b>7.0</b>	<b>303</b>	<b>11.4</b>		
< 5	33	2.2	19	7.5	*	34	2.3	18	7.3	*	13	4.4
5-9	6	NA	4	NA		6	NA	5	NA		1	NA
10-14	5	NA	18	6.3		8	NA	8	NA		0	NA
15-19	71	3.7	377	123.3	*	24	1.3	28	9.4	*	31	11.8
20-24	145	8.0	472	165.0	*	45	2.6	37	13.1	*	73	31.5
25-29	96	6.3	403	167.9	*	33	2.3	25	10.4	*	60	27.9
30-34	81	5.1	251	117.1	*	39	2.5	15	6.6	*	38	18.9
35-39	79	4.5	156	72.8	*	41	2.3	25	10.5	*	30	15.2
40-44	72	3.7	121	55.8	*	47	2.4	22	9.0	*	11	6.1
45-49	67	3.3	83	40.5	*	40	1.9	21	8.8	*	17	10.7
50-54	69	3.6	52	29.8	*	21	1.1	16	7.6	*	12	10.4
55-59	33	2.0	27	19.5	*	18	1.0	7	NA		1	NA
60-64	30	2.2	13	12.6	*	12	0.8	6	NA		8	NA
65-69	13	1.2	6	NA		7	NA	3	NA		1	NA
70-74	11	1.2	7	NA		9	NA	1	NA		3	NA
75-79	7	NA	8	NA		12	1.1	3	NA		1	NA
80-84	5	NA	4	NA		19	2.3	1	NA		1	NA
85 +	3	NA	3	NA		14	1.7	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 DEATHS: HOMICIDES

### TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2004-2008

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>94</b>	<b>2.0</b>	<b>58</b>	<b>1.7</b>	<b>252</b>	<b>3.3</b>	<b>2,344</b>	<b>9.5</b>	<b>220</b>	<b>2.7</b>	<b>640</b>	<b>4.7</b>
< 5	8	NA	7	NA	15	3.5	44	2.8	14	2.9	21	2.9
5-9	2	NA	0	NA	1	NA	13	0.8	2	NA	4	NA
10-14	0	NA	0	NA	3	NA	24	1.4	3	NA	11	1.3
15-19	5	NA	1	NA	24	4.2 -	360	19.5 +	20	3.5 -	95	9.9
20-24	16	5.0 -	6	NA	42	8.0 -	491	28.3 +	29	5.6 -	131	14.8
25-29	6	NA	6	NA	28	6.5 -	395	25.8 +	37	7.8 -	99	13.3
30-34	12	4.4 -	6	NA	21	4.6 -	252	16.2 +	25	5.0 -	76	9.6
35-39	10	3.4 -	4	NA	25	4.9 -	199	11.7 +	22	4.0 -	48	5.5 -
40-44	8	NA	9	NA	24	4.2	171	9.3 +	14	2.3 -	46	4.7
45-49	7	NA	5	NA	22	3.8	136	7.4 +	13	2.1 -	34	3.2 -
50-54	6	NA	2	NA	14	2.5	102	6.0 +	12	2.1 -	26	2.6
55-59	3	NA	3	NA	8	NA	48	3.3 +	10	1.9	17	1.9
60-64	3	NA	6	NA	5	NA	31	2.7	7	NA	12	1.6
65-69	1	NA	0	NA	4	NA	20	2.1 +	2	NA	3	NA
70-74	5	NA	2	NA	5	NA	12	1.5	0	NA	4	NA
75-79	1	NA	0	NA	3	NA	16	2.3	5	NA	5	NA
80-84	0	NA	1	NA	4	NA	18	3.5 +	3	NA	3	NA
85 +	1	NA	0	NA	4	NA	9	NA	2	NA	5	NA

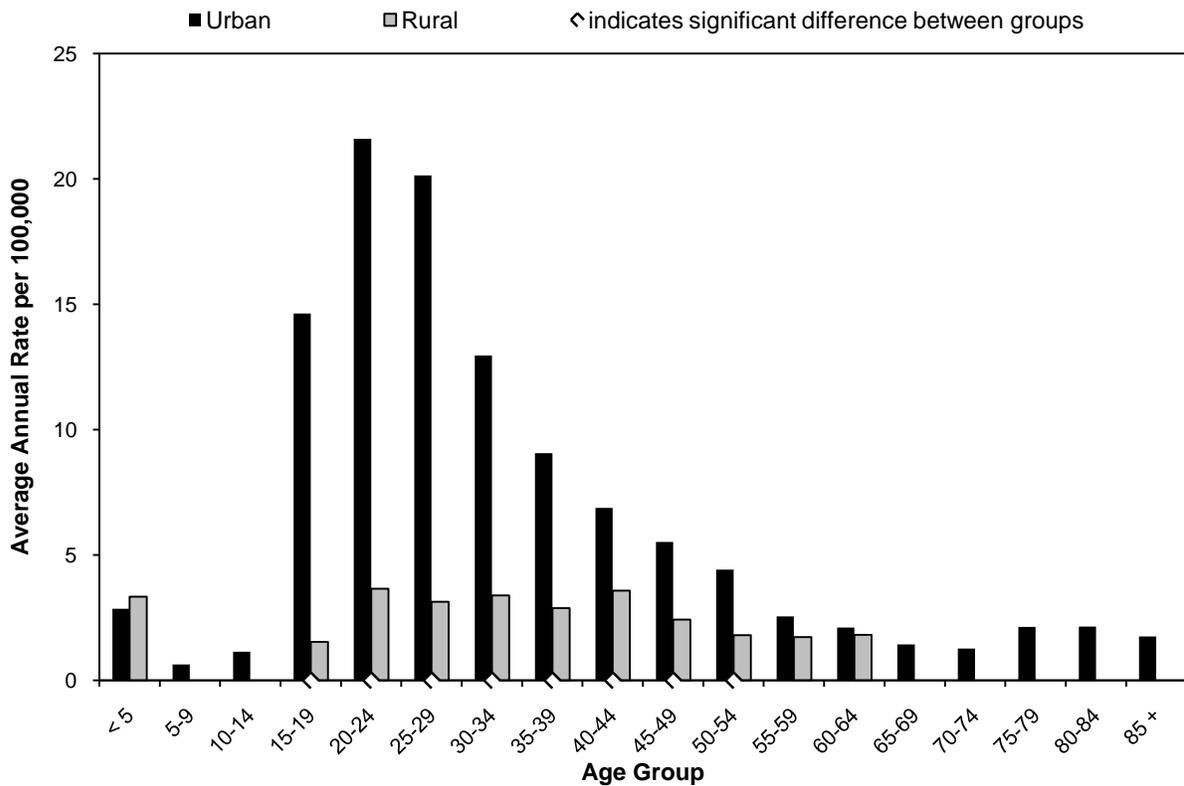
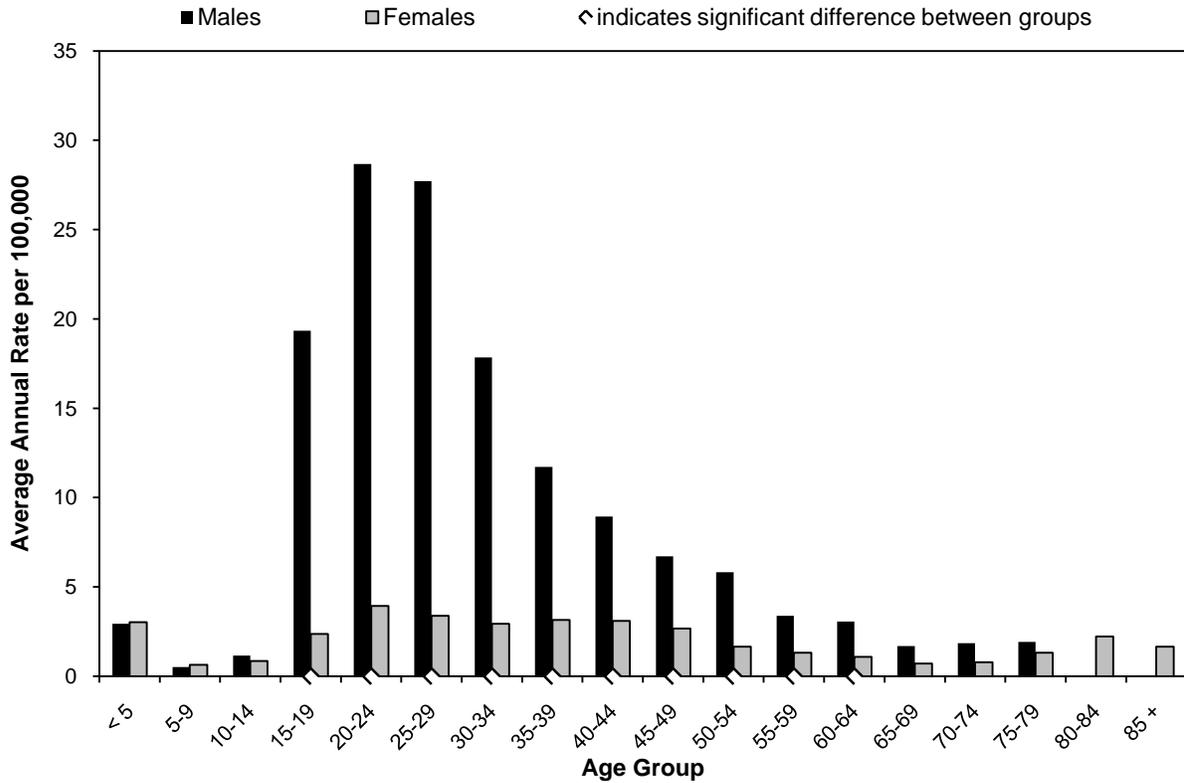
*+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.*

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.

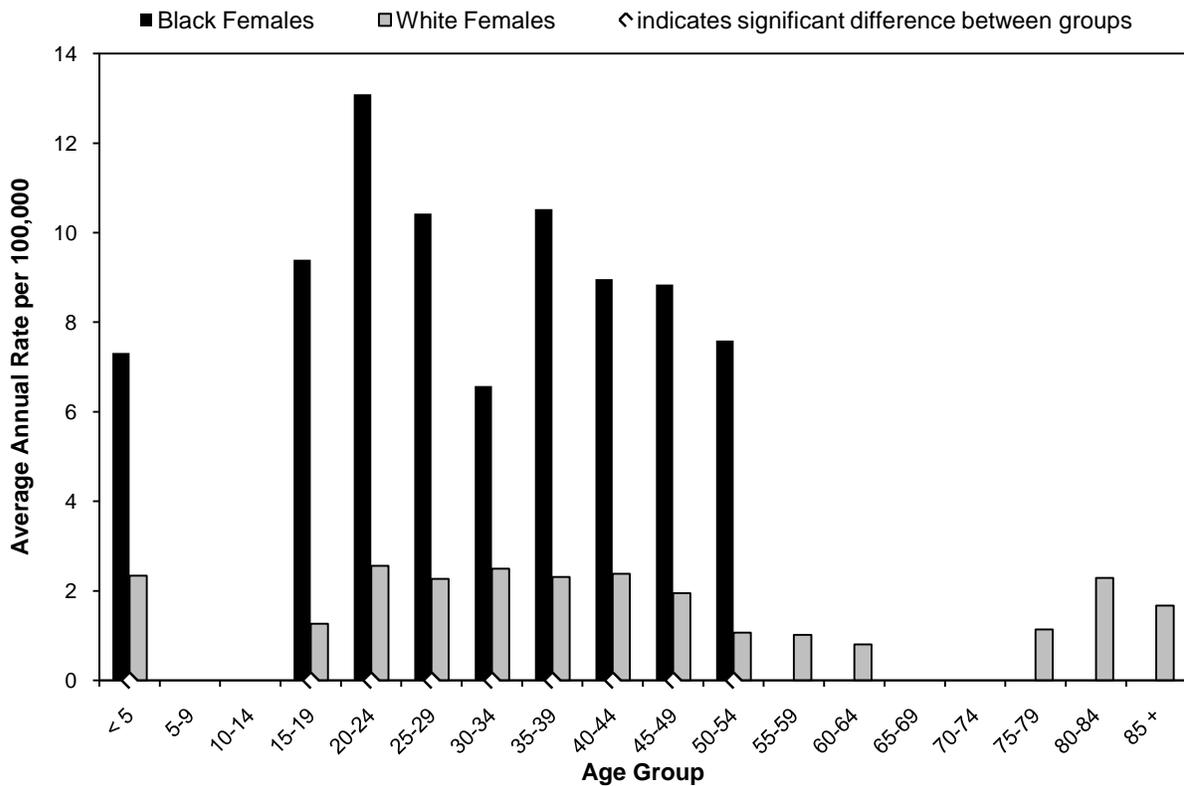
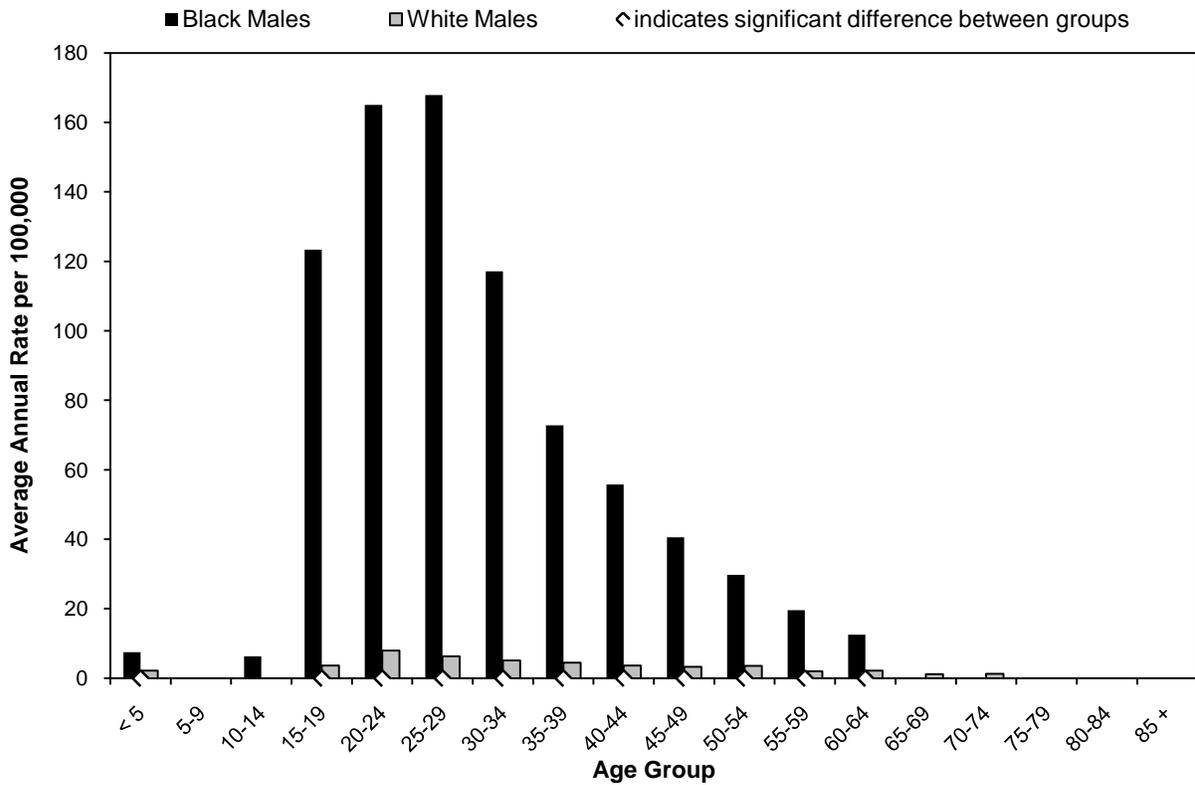
# INJURY DEATHS: HOMICIDES

AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS  
PENNSYLVANIA RESIDENTS, 2004-2008



# INJURY DEATHS: HOMICIDES

## AVERAGE ANNUAL DEATH RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2004-2008



# INJURY DEATHS: HOMICIDES

## NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2004-2008

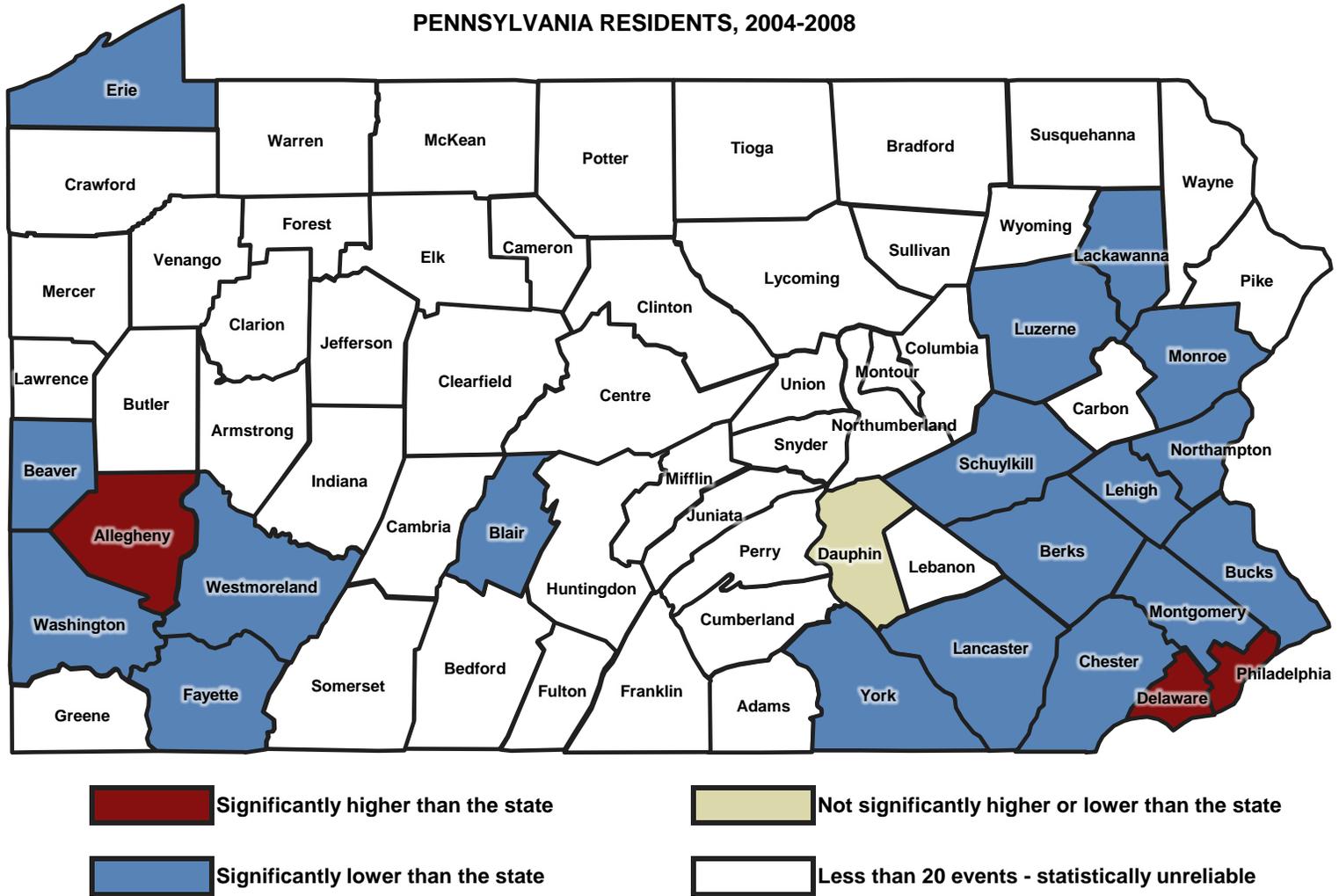
District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
<b>Northeast</b>	252	3.4	3.0-3.8 -	<b>Southeast</b>	2,344	9.6	9.2-10.0 +
Carbon	9	NA		Berks	73	3.9	3.0-4.7 -
Lackawanna	22	2.3	1.3-3.2 -	Bucks	54	1.8	1.3-2.3 -
Lehigh	75	4.6	3.6-5.7 -	Chester	43	1.8	1.3-2.4 -
Luzerne	56	3.7	2.8-4.7 -	Delaware	223	8.2	7.1-9.2 +
Monroe	27	3.6	2.2-4.9 -	Lancaster	70	2.8	2.2-3.5 -
Northampton	44	3.1	2.2-4.0 -	Montgomery	84	2.3	1.8-2.7 -
Pike	7	NA		Philadelphia	1,777	23.1	22.1-24.2 +
Susquehanna	3	NA		Schuylkill	20	2.9	1.6-4.1 -
Wayne	6	NA					
Wyoming	3	NA					
<b>North Central</b>	58	1.8	1.3-2.3 -	<b>South Central</b>	220	2.8	2.5-3.2 -
Bradford	10	NA		Adams	6	NA	
Centre	3	NA		Bedford	3	NA	
Clinton	3	NA		Blair	21	3.4	2.0-4.9 -
Columbia	4	NA		Cumberland	10	NA	
Lycoming	13	NA		Dauphin	73	6.2	4.7-7.6
Montour	1	NA		Franklin	9	NA	
Northumberland	12	NA		Fulton	0	NA	
Potter	2	NA		Huntingdon	4	NA	
Snyder	4	NA		Juniata	1	NA	
Sullivan	1	NA		Lebanon	13	NA	
Tioga	1	NA		Mifflin	6	NA	
Union	4	NA		Perry	4	NA	
				York	70	3.5	2.7-4.3 -
<b>Northwest</b>	94	2.1	1.7-2.6 -	<b>Southwest</b>	640	5.1	4.7-5.4 -
Cameron	0	NA		Allegheny	468	8.1	7.4-8.9 +
Clarion	3	NA		Armstrong	9	NA	
Clearfield	4	NA		Beaver	30	3.8	2.5-5.2 -
Crawford	16	NA		Butler	15	NA	
Elk	1	NA		Cambria	18	NA	
Erie	27	2.0	1.2-2.7 -	Fayette	25	3.7	2.2-5.1 -
Forest	0	NA		Greene	6	NA	
Jefferson	4	NA		Indiana	4	NA	
Lawrence	15	NA		Somerset	8	NA	
McKean	4	NA		Washington	21	2.1	1.2-3.0 -
Mercer	10	NA		Westmoreland	36	2.2	1.5-2.9 -
Venango	2	NA					
Warren	8	NA		<b>Pennsylvania</b>	<b>3,608</b>	<b>6.0</b>	<b>5.8-6.2</b>

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, 2004-2008



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, 2004-2008

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	2,921	687	<b>3,608</b>	677	4.2	1,678	14.3	797	6.0	315	2.8	138	1.5
<b>Northeast</b>	177	75	<b>252</b>	43	2.2	91	6.5	71	4.3	27	1.8	20	1.6
Carbon	7	2	9	0	NA	1	NA	4	NA	4	NA	0	NA
Lackawanna	14	8	22	6	NA	6	NA	6	NA	3	NA	1	NA
Lehigh	57	18	75	12	2.7	31	9.8	19	5.3	5	NA	8	NA
Luzerne	40	16	56	5	NA	21	7.4	18	5.4	7	NA	5	NA
Monroe	19	8	27	6	NA	10	7.1	8	NA	1	NA	2	NA
Northampton	29	15	44	10	2.5	18	6.7	9	NA	4	NA	3	NA
Pike	4	3	7	2	NA	1	NA	2	NA	1	NA	1	NA
Susquehanna	2	1	3	1	NA	1	NA	1	NA	0	NA	0	NA
Wayne	3	3	6	0	NA	1	NA	3	NA	2	NA	0	NA
Wyoming	2	1	3	1	NA	1	NA	1	NA	0	NA	0	NA
<b>Southeast</b>	1,995	349	<b>2,344</b>	441	6.5	1,138	23.6	506	9.4	181	4.2	75	2.2
Berks	51	22	73	13	2.3	35	9.5	19	4.4	4	NA	2	NA
Bucks	38	16	54	8	NA	20	3.8	15	2.0	7	NA	4	NA
Chester	25	18	43	5	NA	19	4.3	8	NA	8	NA	3	NA
Delaware	178	45	223	38	5.0	106	20.2	47	7.8	16	3.2	16	4.0
Lancaster	40	30	70	24	3.4	21	4.5	13	2.5	7	NA	5	NA
Montgomery	58	26	84	11	1.1	32	4.6	27	3.0	12	1.7	2	NA
Philadelphia	1,591	186	1,777	336	16.3	899	53.9	373	25.7	124	10.8	42	4.4
Schuylkill	14	6	20	6	NA	6	NA	4	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	2,921	687	<b>3,608</b>	677	4.2	1,678	14.3	797	6.0	315	2.8	138	1.5
<b>North Central</b>	35	23	<b>58</b>	8	NA	18	2.5	18	2.7	11	1.8	3	NA
Bradford	6	4	10	0	NA	1	NA	3	NA	5	NA	1	NA
Centre	2	1	3	0	NA	2	NA	1	NA	0	NA	0	NA
Clinton	1	2	3	0	NA	1	NA	0	NA	2	NA	0	NA
Columbia	4	0	4	2	NA	1	NA	1	NA	0	NA	0	NA
Lycoming	9	4	13	4	NA	4	NA	5	NA	0	NA	0	NA
Montour	0	1	1	0	NA	0	NA	1	NA	0	NA	0	NA
Northumberland	5	7	12	1	NA	4	NA	4	NA	2	NA	1	NA
Potter	0	2	2	1	NA	1	NA	0	NA	0	NA	0	NA
Snyder	3	1	4	0	NA	3	NA	1	NA	0	NA	0	NA
Sullivan	1	0	1	0	NA	0	NA	0	NA	0	NA	1	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
<b>South Central</b>	145	75	<b>220</b>	39	1.9	91	6.1	49	2.8	29	1.9	12	1.0
Adams	3	3	6	1	NA	0	NA	3	NA	0	NA	2	NA
Bedford	1	2	3	0	NA	2	NA	0	NA	1	NA	0	NA
Blair	14	7	21	3	NA	6	NA	7	NA	4	NA	1	NA
Cumberland	4	6	10	2	NA	3	NA	2	NA	2	NA	1	NA
Dauphin	57	16	73	13	3.9	42	18.3	9	NA	7	NA	2	NA
Franklin	4	5	9	2	NA	1	NA	3	NA	1	NA	2	NA
Fulton	0	0	0	0	NA	0	NA	0	NA	0	NA	0	NA
Huntingdon	1	3	4	1	NA	0	NA	3	NA	0	NA	0	NA
Juniata	1	0	1	0	NA	0	NA	0	NA	1	NA	0	NA
Lebanon	7	6	13	2	NA	5	NA	3	NA	2	NA	1	NA
Mifflin	2	4	6	2	NA	1	NA	2	NA	1	NA	0	NA
Perry	2	2	4	0	NA	2	NA	1	NA	1	NA	0	NA
York	49	21	70	13	2.4	29	7.6	16	3.3	9	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	2,921	687	<b>3,608</b>	677	4.2	1,678	14.3	797	6.0	315	2.8	138	1.5
<b>Northwest</b>	60	34	<b>94</b>	15	1.2	34	4.0	25	2.6	12	1.4	8	NA
Cameron	0	0	0	0	NA	0	NA	0	NA	0	NA	0	NA
Clarion	1	2	3	0	NA	2	NA	0	NA	1	NA	0	NA
Clearfield	3	1	4	0	NA	1	NA	1	NA	0	NA	2	NA
Crawford	14	2	16	1	NA	7	NA	6	NA	1	NA	1	NA
Elk	1	0	1	0	NA	0	NA	0	NA	1	NA	0	NA
Erie	15	12	27	6	NA	9	NA	5	NA	5	NA	2	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	7	15	3	NA	7	NA	5	NA	0	NA	0	NA
McKean	3	1	4	1	NA	1	NA	1	NA	1	NA	0	NA
Mercer	9	1	10	1	NA	6	NA	2	NA	1	NA	0	NA
Venango	0	2	2	0	NA	0	NA	0	NA	1	NA	1	NA
Warren	4	4	8	3	NA	1	NA	3	NA	1	NA	0	NA
<b>Southwest</b>	509	131	<b>640</b>	131	4.0	306	12.6	128	4.4	55	2.1	20	0.8
Allegheny	397	71	468	99	6.6	243	21.7	87	6.6	28	2.4	11	1.0
Armstrong	4	5	9	4	NA	1	NA	4	NA	0	NA	0	NA
Beaver	24	6	30	4	NA	18	12.4	3	NA	4	NA	1	NA
Butler	7	8	15	4	NA	5	NA	5	NA	1	NA	0	NA
Cambria	11	7	18	0	NA	7	NA	4	NA	4	NA	3	NA
Fayette	18	7	25	4	NA	9	NA	4	NA	7	NA	1	NA
Greene	3	3	6	4	NA	0	NA	1	NA	0	NA	1	NA
Indiana	3	1	4	1	NA	1	NA	1	NA	1	NA	0	NA
Somerset	5	3	8	0	NA	2	NA	2	NA	3	NA	1	NA
Washington	13	8	21	3	NA	7	NA	6	NA	4	NA	1	NA
Westmoreland	24	12	36	8	NA	13	4.3	11	2.8	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.

## INJURY DEATHS: HOMICIDES

### NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2004-2008

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	45.6	41.0-50.1 +	Allegheny	86	1.8	1.4-2.2 -	Berks	29	10.3	6.6-14.1
Chester	17	NA		Chester	24	1.1	0.7-1.6 -	Lancaster	10	NA	
Dauphin	52	22.4	16.3-28.4 -	Dauphin	18	NA		Lehigh	26	10.7	6.6-14.8
Delaware	162	30.3	25.6-34.9	Delaware	56	2.6	1.9-3.3	Philadelphia	168	19.9	16.9-22.9 +
Montgomery	35	10.0	6.7-13.3 -	Montgomery	43	1.3	0.9-1.7 -				
Philadelphia	1,424	41.4	39.2-43.5 +	Philadelphia	305	8.4	7.5-9.4 +				
Pennsylvania	2,267	31.9	30.6-33.3	Pennsylvania	1,256	2.4	2.3-2.6	Pennsylvania	303	10.9	9.7-12.1

### NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2004-2008

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	13.2%	340	40	<b>380</b>	81.2%	90	32.4	204	122.4	63	40.7	15	12.6	8	NA
	White	83.5%	55	31	<b>86</b>	18.4%	8	NA	38	4.2	24	2.1	13	1.3	3	NA
Chester	Black	6.3%	12	5	<b>17</b>	39.5%	2	NA	10	28.7	3	NA	2	NA	0	NA
	White	90.0%	11	13	<b>24</b>	55.8%	3	NA	7	NA	5	NA	6	NA	3	NA
Dauphin	Black	17.8%	42	10	<b>52</b>	71.2%	11	14.0	32	68.9	5	NA	3	NA	1	NA
	White	77.8%	13	5	<b>18</b>	24.7%	2	NA	8	NA	4	NA	3	NA	1	NA
Delaware	Black	17.4%	142	20	<b>162</b>	72.6%	30	18.4	94	80.9	27	26.3	5	NA	6	NA
	White	77.3%	32	24	<b>56</b>	25.1%	7	NA	11	2.9	19	4.1	9	NA	10	2.8
Montgomery	Black	8.6%	28	7	<b>35</b>	41.7%	7	NA	16	21.7	9	NA	2	NA	1	NA
	White	85.0%	24	19	<b>43</b>	51.2%	3	NA	15	2.6	15	2.0	9	NA	1	NA
Philadelphia	Black	45.6%	1,292	132	<b>1,424</b>	80.1%	290	26.7	745	104.6	284	42.6	83	16.8	21	5.9
	White	47.3%	259	46	<b>305</b>	17.2%	41	5.1	133	16.6	72	10.5	38	6.5	20	3.5
Pennsylvania	Black	10.6%	2,025	242	<b>2,267</b>	62.8%	477	21.9	1,203	80.7	428	31.5	121	12.9	37	5.9
	White	86.1%	827	429	<b>1,256</b>	34.8%	187	1.4	439	4.5	346	3.0	183	1.8	100	1.1

## INJURY DEATHS: TRAUMATIC BRAIN INJURY

In 2008, among Pennsylvania residents, there were 2,328 injury deaths involving traumatic brain injury (TBI). On average, one resident died every four hours.

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### ***Injury Definition***

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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 **increasing** over 2004 to 2008.*
- *Most common demographic is **white males, 20 and older.***
- *Of all Pennsylvania counties, **Bedford, Elk and Clearfield** show the highest rates.*

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### ***Trends Over Time***

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- Age-adjusted death rates for TBI increased by 6 percent from 2004 to 2008, from 16.1 to 17.1 deaths per 100,000 population.
- Males showed significantly higher age-adjusted TBI death rates than females over 2004 to 2008 (rates were 28.4 and 7.2, respectively, in 2008).
- Rural males and females showed significantly higher age-adjusted TBI death rates than urban males and females over 2004 to 2008.

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### ***Demographic Trends***

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- White males accounted for over 60 percent of all TBI deaths in 2004 to 2008.
- 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.

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### ***Regional Trends***

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- The Southwest and Northwest Health Districts showed the highest age-specific TBI death rates, while the Southeast Health District showed the lowest rates.
- Twenty counties showed age-adjusted TBI death rates for 2004 to 2008 that were significantly higher than the comparable state rate. Most counties were rural.

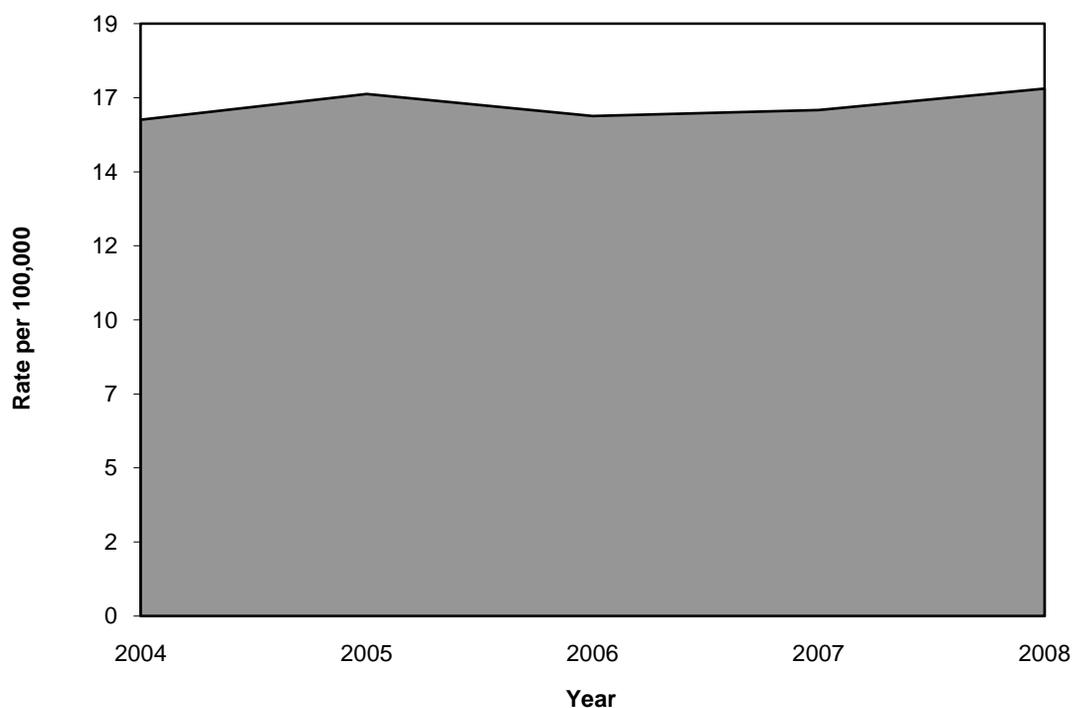
# INJURY DEATHS: TRAUMATIC BRAIN INJURY

## TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES PENNSYLVANIA RESIDENTS, 2004-2008

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Year	No.	Rate
2004	2,135	16.1
2005	2,261	16.9
2006	2,134	16.2
2007	2,200	16.4
2008	2,328	17.1

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## AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2004-2008

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Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2004	19.6	16.2	13.4	14.2	16.9	19.2
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

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

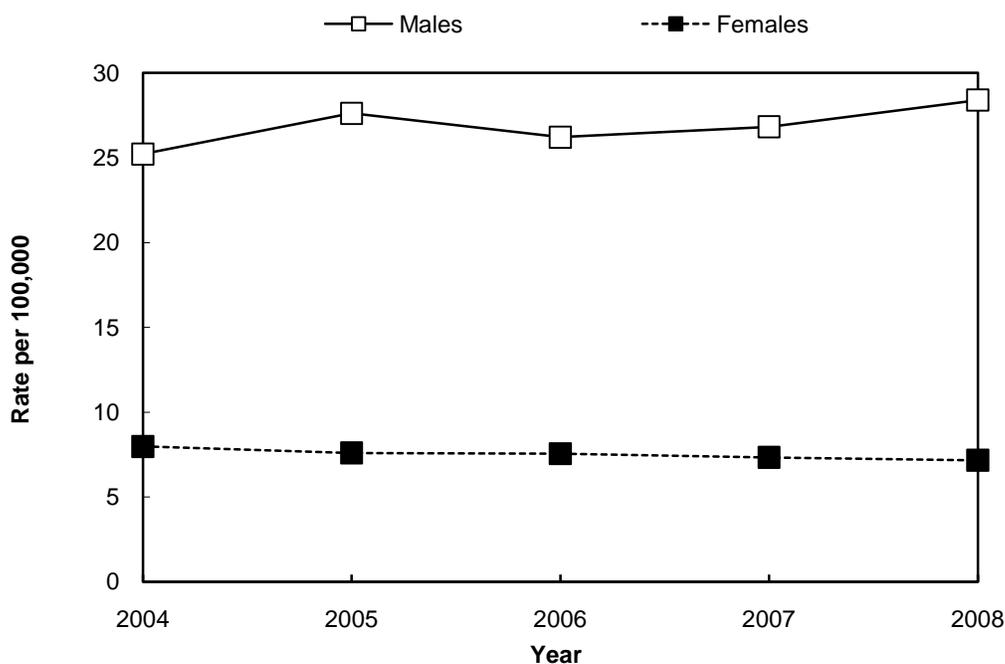
Rates are per 100,000. Data for 2004-2008 based on ICD-10 codes. See Technical Notes.

## INJURY DEATHS: TRAUMATIC BRAIN INJURY

### TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX PENNSYLVANIA RESIDENTS, 2004-2008

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2004	1,525	25.2 *	2004	610	8.0
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

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



### AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2004-2008

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2004	23.3	30.2 *	2004	7.2	10.2 *
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 *

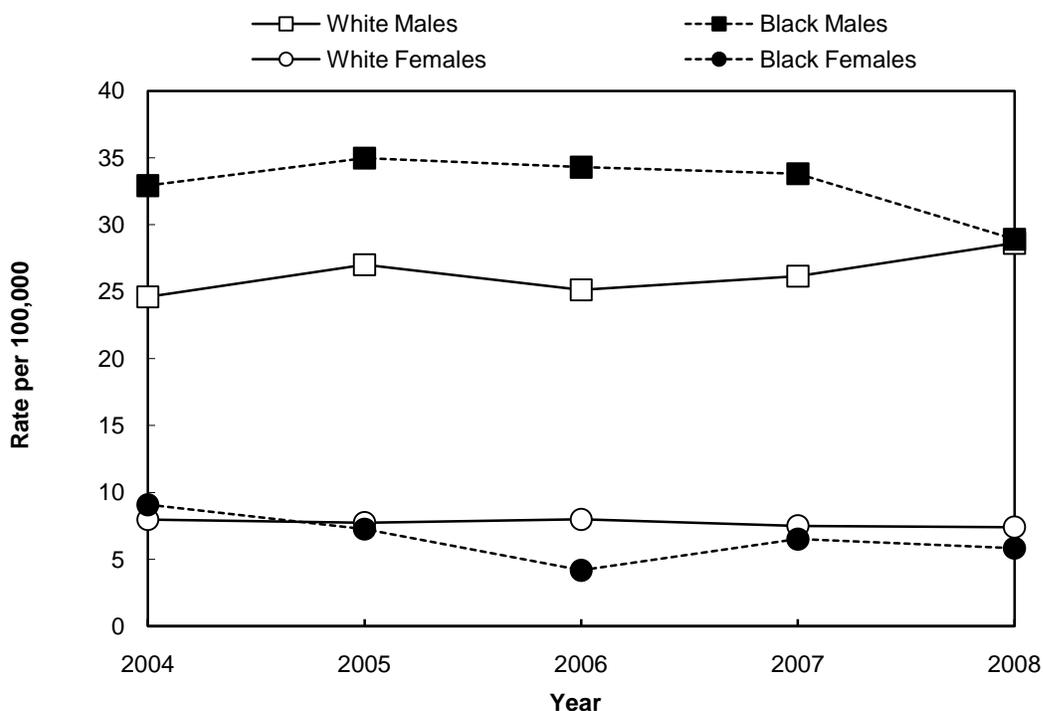
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

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, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	1,319	196	545	61	46	9
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



### AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	24.6	32.9 *	8.0	9.1	22.8	NA
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

\* 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, 2004-2008

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>11,058</b>	<b>17.8</b>	<b>8,107</b>	<b>26.9</b>	<b>2,951</b>	<b>9.2</b>	<b>7,281</b>	<b>16.2</b>	<b>3,777</b>	<b>22.0</b>
< 5	125	3.4	76	4.1	49	2.7 *	72	2.6	53	5.7 *
5-9	49	1.3	34	1.7	15	0.8 *	27	1.0	22	2.2 *
10-14	92	2.3	68	3.3	24	1.2 *	55	1.8	37	3.4 *
15-19	653	14.1	513	22.0	140	6.1 *	408	12.3	245	18.7 *
20-24	959	22.1	812	36.9	147	6.9 *	663	21.4	296	24.0
25-29	689	19.0	580	31.5	109	6.1 *	459	17.1	230	24.8 *
30-34	558	14.8	448	23.7	110	5.9 *	353	12.8	205	20.4 *
35-39	616	14.8	501	24.3	115	5.5 *	402	13.2	214	19.2 *
40-44	743	16.4	583	25.9	160	7.0 *	442	13.3	301	24.5 *
45-49	784	16.9	652	28.4	132	5.6 *	516	15.3	268	21.0 *
50-54	706	16.1	598	27.8	108	4.8 *	461	14.6	245	20.0 *
55-59	588	15.3	481	25.8	107	5.4 *	389	14.2	199	18.0 *
60-64	473	14.9	370	24.5	103	6.2 *	308	13.8	165	17.6 *
65-69	447	17.2	339	28.6	108	7.7 *	291	16.1	156	19.9 *
70-74	509	22.6	359	36.7	150	11.8 *	324	20.6	185	27.5 *
75-79	739	38.3	495	63.4	244	21.2 *	508	37.4	231	40.6
80-84	1,005	69.9	576	107.0	429	47.7 *	683	66.6	322	78.0 *
85 +	1,320	103.4	619	166.7	701	77.4 *	917	100.2	403	111.4

\* 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, 2004-2008

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*		
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	
<b>TOTAL</b>	<b>7,009</b>	<b>26.9</b>	<b>1,016</b>	<b>32.4</b>		<b>2,701</b>	<b>9.8</b>	<b>225</b>	<b>6.5</b>	<b>266</b>	<b>10.0</b>
< 5	47	3.1	24	9.5	*	39	2.7	10	4.1	9	NA
5-9	26	1.6	8	NA		14	0.9	1	NA	2	NA
10-14	54	3.2	12	4.2		18	1.1	6	NA	4	NA
15-19	360	18.7	148	48.4	*	126	6.6	11	3.7	20	7.6
20-24	612	33.6	186	65.0	*	119	6.8	25	8.8	54	23.3
25-29	443	29.0	128	53.3	*	88	6.0	15	6.3	37	17.2
30-34	350	22.0	92	42.9	*	97	6.2	10	4.4	33	16.4
35-39	413	23.3	84	39.2	*	103	5.8	10	4.2	17	8.6
40-44	510	26.0	65	30.0		143	7.2	16	6.5	12	6.6
45-49	586	28.9	62	30.3		116	5.6	16	6.7	18	11.4
50-54	546	28.4	47	26.9		98	5.0	10	4.7	11	9.6
55-59	433	25.7	44	31.9		94	5.3	13	7.4	11	12.3
60-64	352	25.7	17	16.4	*	96	6.4	7	NA	6	NA
65-69	321	29.5	16	20.9		93	7.3	13	12.0	8	NA
70-74	341	37.8	16	26.3		139	12.0	10	10.5	7	NA
75-79	471	64.8	22	49.5		228	21.5	14	18.0	8	NA
80-84	540	107.6	32	107.2		413	49.7	15	25.6	3	NA
85 +	602	174.4	13	60.4	*	677	80.6	23	40.4	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. 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, 2004-2008

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>1,007</b>	<b>21.6</b>	<b>623</b>	<b>18.3</b>	<b>1,286</b>	<b>16.6</b>	<b>3,753</b>	<b>15.2</b>	<b>1,336</b>	<b>16.6</b>	<b>3,053</b>	<b>22.4</b>
< 5	15	5.8 +	11	6.2 +	12	2.8	35	2.2 -	12	2.5	40	5.5 +
5-9	5	NA	5	NA	6	NA	11	0.7 -	10	2.0	12	1.5
10-14	11	3.6	5	NA	7	NA	25	1.5 -	18	3.4	26	3.1
15-19	64	17.9	38	12.1	61	10.6 -	235	12.8	87	15.2	168	17.5 +
20-24	73	23.0	52	14.8 -	116	22.1	363	20.9	105	20.2	250	28.3 +
25-29	56	21.5	41	23.5	77	18.0	243	15.9 -	74	15.6	198	26.5 +
30-34	63	23.0 +	31	15.9	54	11.9	180	11.6 -	66	13.3	164	20.7 +
35-39	64	21.6 +	35	16.6	75	14.6	193	11.3 -	85	15.5	164	18.6 +
40-44	79	24.0 +	39	17.0	91	16.1	247	13.5 -	103	17.2	184	18.6
45-49	54	15.6	46	19.4	81	14.0	291	15.9	94	15.4	218	20.8 +
50-54	74	22.3 +	30	13.2	99	17.8	229	13.6 -	79	13.6	195	19.3 +
55-59	45	15.3	44	21.6 +	74	14.9	209	14.4	64	12.4	152	17.0
60-64	53	21.2 +	28	16.2	57	13.4	168	14.4	55	13.0	112	15.3
65-69	49	23.3 +	26	17.5	63	18.2	135	14.5 -	54	15.5	120	19.6
70-74	43	23.3	26	20.5	58	19.7	173	21.6	68	23.4	141	25.7
75-79	69	43.4	45	42.7	101	40.6	217	31.7 -	89	36.9	218	44.4 +
80-84	86	73.6	52	67.4	116	63.7	331	64.1	129	74.8	291	78.0
85 +	104	103.6	69	104.7	138	85.1 -	465	99.5	144	97.7	400	119.8 +

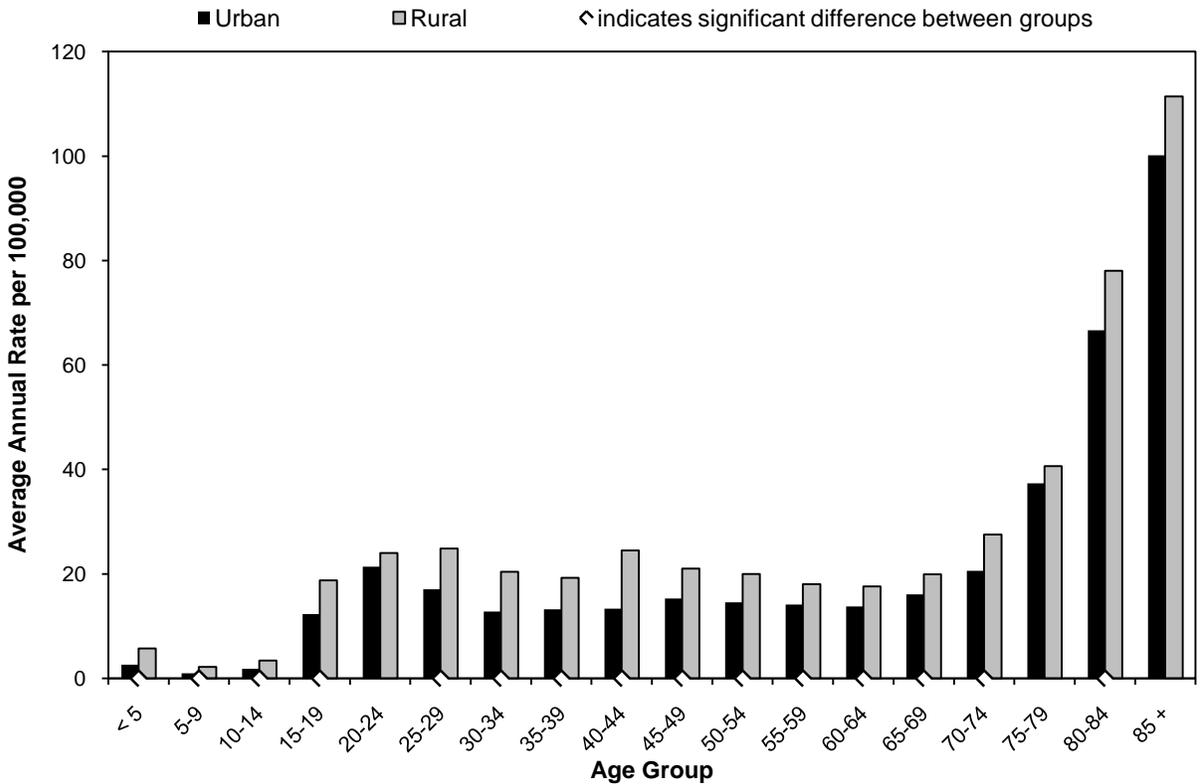
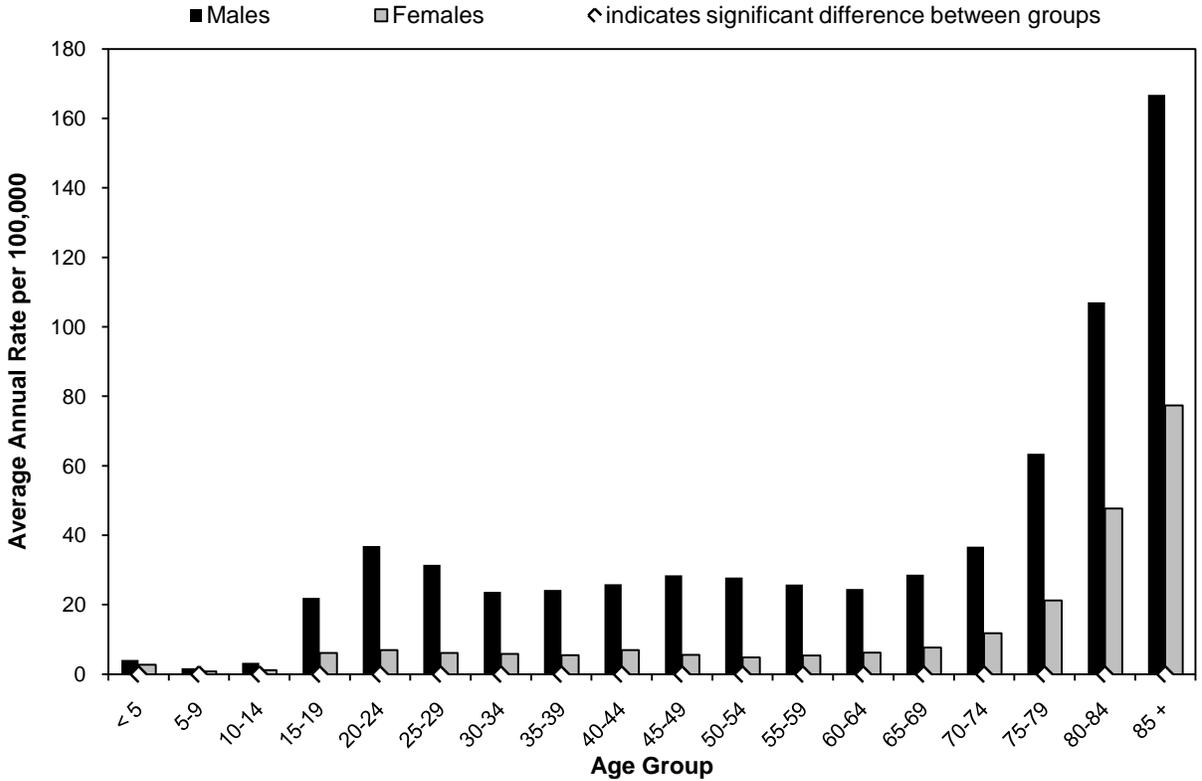
*+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.*

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.

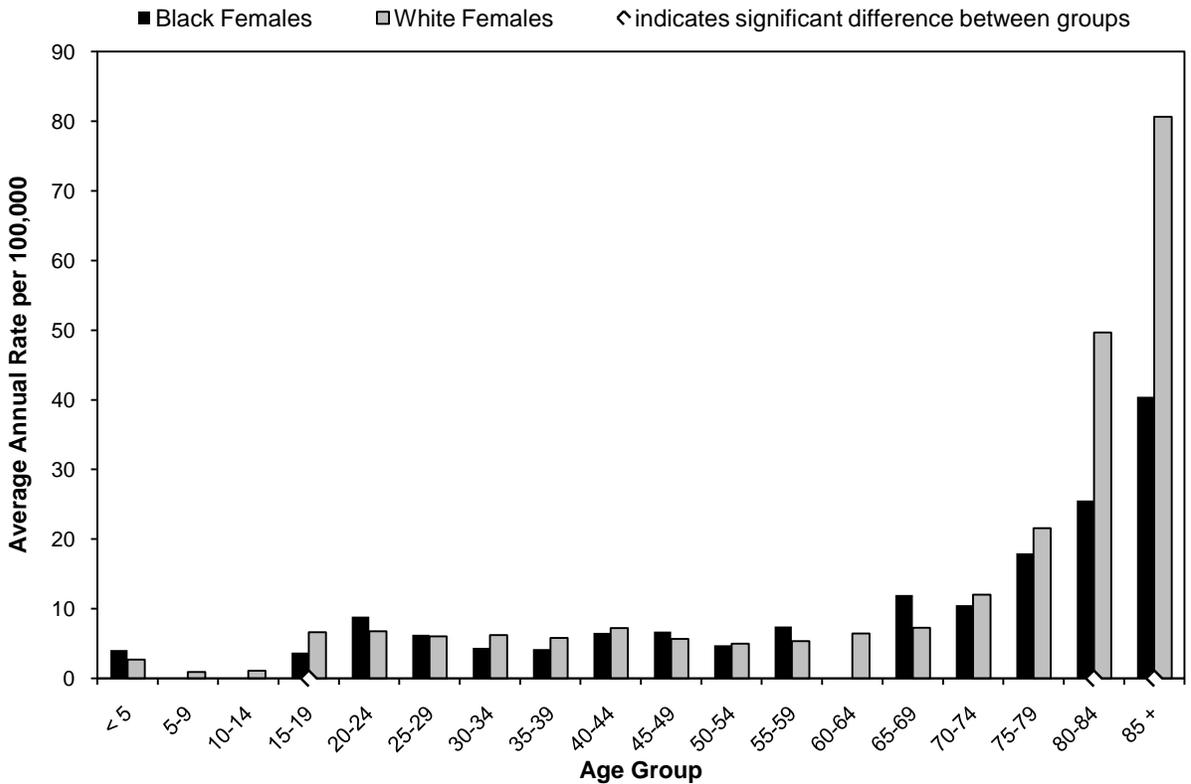
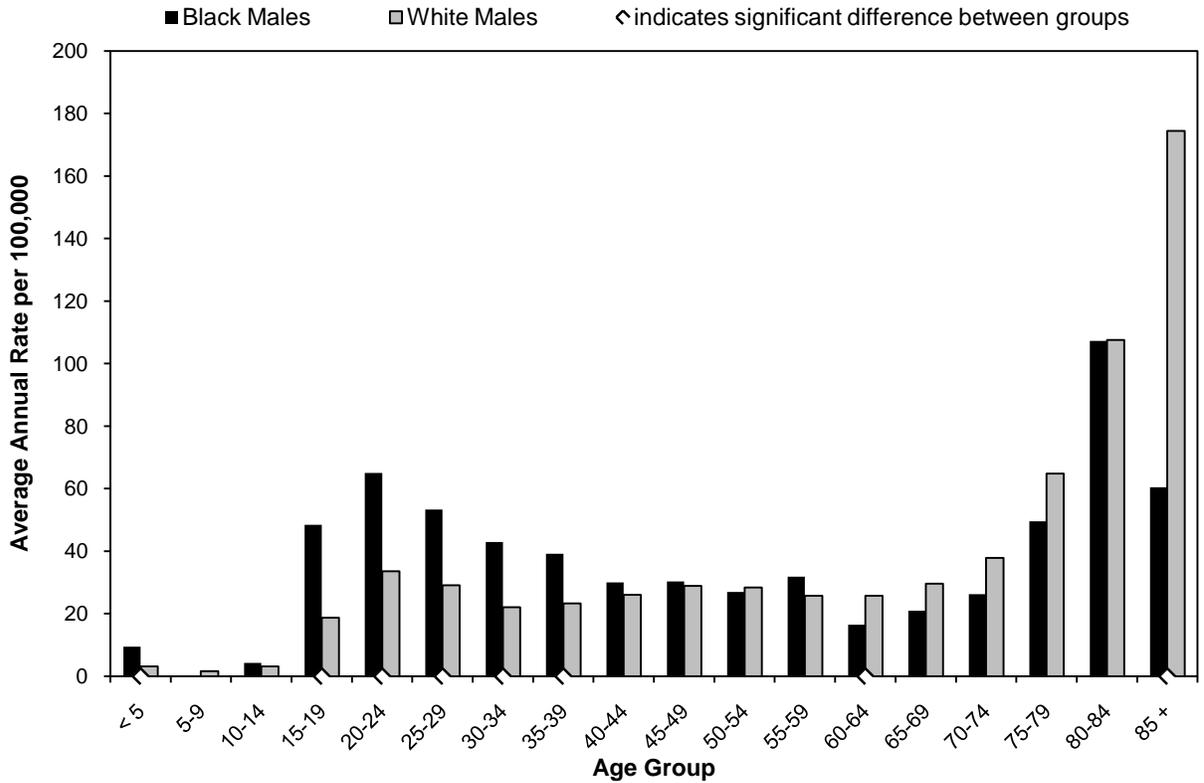
# INJURY DEATHS: TRAUMATIC BRAIN INJURY

AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS  
PENNSYLVANIA RESIDENTS, 2004-2008



# INJURY DEATHS: TRAUMATIC BRAIN INJURY

## AVERAGE ANNUAL DEATH RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2004-2008



# INJURY DEATHS: TRAUMATIC BRAIN INJURY

## NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2004-2008

District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
<b>Northeast</b>	1,286	15.3	14.5-16.1 -	<b>Southeast</b>	3,753	14.5	14.0-14.9 -
Carbon	73	21.3	16.4-26.2	Berks	406	19.7	17.8-21.6 +
Lackawanna	153	12.7	10.7-14.7 -	Bucks	360	11.6	10.4-12.8 -
Lehigh	289	16.0	14.1-17.8	Chester	292	12.6	11.1-14.0 -
Luzerne	254	14.6	12.8-16.4	Delaware	398	13.2	11.9-14.5 -
Monroe	131	16.3	13.5-19.1	Lancaster	338	13.1	11.7-14.5 -
Northampton	213	13.6	11.7-15.4 -	Montgomery	495	11.7	10.7-12.7 -
Pike	35	11.5	7.7-15.3 -	Philadelphia	1,270	16.7	15.7-17.6
Susquehanna	43	19.3	13.6-25.1	Schuylkill	194	23.3	20.0-26.5 +
Wayne	68	26.4	20.1-32.7 +				
Wyoming	27	19.4	12.1-26.7				
<b>North Central</b>	623	17.2	15.8-18.5	<b>South Central</b>	1,336	15.8	14.9-16.6
Bradford	55	16.3	12.0-20.6	Adams	85	16.4	12.9-19.9
Centre	92	14.7	11.7-17.7	Bedford	77	31.0	24.0-37.9 +
Clinton	50	26.4	19.1-33.7 +	Blair	157	23.0	19.4-26.5 +
Columbia	69	20.1	15.4-24.8	Cumberland	173	14.3	12.2-16.4
Lycoming	101	15.9	12.8-18.9	Dauphin	153	11.4	9.6-13.2 -
Montour	16	NA		Franklin	127	17.1	14.2-20.1
Northumberland	107	20.8	16.9-24.8 +	Fulton	16	NA	
Potter	19	NA		Huntingdon	49	21.5	15.4-27.5
Snyder	26	12.6	7.7-17.4	Juniata	29	26.3	16.7-35.9
Sullivan	5	NA		Lebanon	68	10.1	7.7-12.5 -
Tioga	42	17.8	12.4-23.2	Mifflin	42	17.3	12.1-22.5
Union	41	18.0	12.5-23.5	Perry	45	20.3	14.4-26.2
				York	315	14.8	13.2-16.5
<b>Northwest</b>	1,007	20.1	18.8-21.3 +	<b>Southwest</b>	3,053	20.1	19.4-20.9 +
Cameron	8	NA		Allegheny	1,284	18.5	17.5-19.5 +
Clarion	42	20.2	14.1-26.4	Armstrong	101	26.9	21.7-32.1 +
Clearfield	126	28.5	23.5-33.4 +	Beaver	171	17.9	15.2-20.6
Crawford	112	23.4	19.1-27.8 +	Butler	192	20.6	17.7-23.5 +
Elk	55	31.7	23.3-40.1 +	Cambria	184	21.5	18.4-24.6 +
Erie	211	14.3	12.4-16.3	Fayette	204	26.9	23.2-30.6 +
Forest	5	NA		Greene	47	21.7	15.5-27.9
Jefferson	54	21.8	16.0-27.6	Indiana	110	23.9	19.4-28.3 +
Lawrence	107	20.9	17.0-24.9 +	Somerset	93	20.6	16.4-24.8
McKean	50	21.3	15.4-27.2	Washington	229	20.0	17.4-22.5 +
Mercer	117	18.8	15.4-22.2	Westmoreland	438	21.9	19.8-23.9 +
Venango	74	24.8	19.1-30.4 +				
Warren	46	20.9	14.9-26.9	<b>Pennsylvania</b>	<b>11,058</b>	<b>16.5</b>	<b>16.2-16.8</b>

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, 2004-2008

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	8,107	2,951	11,058	919	5.7	2,206	18.8	2,143	16.0	1,767	15.5	4,020	42.4
<b>Northeast</b>	950	336	<b>1,286</b>	86	4.4	247	17.6	247	14.9	230	15.6	476	38.6
Carbon	57	16	73	5	NA	16	27.0	9	NA	21	33.7	22	40.9
Lackawanna	117	36	153	6	NA	34	17.6	20	9.4	31	15.8	62	32.3
Lehigh	192	97	289	23	5.2	50	15.9	48	13.5	39	12.7	129	51.1
Luzerne	194	60	254	15	4.2	51	18.0	57	17.2	45	15.1	86	29.7
Monroe	97	34	131	18	7.6	23	16.2	29	15.1	25	16.4	36	38.1
Northampton	156	57	213	10	2.5	36	13.3	36	11.7	35	13.1	96	45.4
Pike	27	8	35	0	NA	6	NA	13	19.5	9	NA	7	NA
Susquehanna	36	7	43	1	NA	11	31.7	8	NA	11	24.4	12	36.2
Wayne	53	15	68	7	NA	15	36.2	20	37.4	9	NA	17	37.7
Wyoming	21	6	27	1	NA	5	NA	7	NA	5	NA	9	NA
<b>Southeast</b>	2,797	956	<b>3,753</b>	306	4.5	786	16.3	731	13.6	606	14.1	1,321	38.8
Berks	310	96	406	33	5.9	92	25.0	77	17.7	71	20.3	133	47.2
Bucks	259	101	360	19	2.3	59	11.2	72	9.6	50	8.3	160	39.0
Chester	208	84	292	19	2.8	70	16.0	54	9.6	50	11.5	99	34.6
Delaware	295	103	398	28	3.7	68	13.0	74	12.4	62	12.5	166	41.4
Lancaster	258	80	338	34	4.8	65	13.8	61	11.9	56	13.2	121	34.3
Montgomery	339	156	495	25	2.5	66	9.5	89	10.0	78	11.0	237	41.5
Philadelphia	989	281	1,270	130	6.3	328	19.7	268	18.4	208	18.2	334	34.8
Schuylkill	139	55	194	18	11.1	38	28.2	36	21.6	31	22.9	71	51.8

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	8,107	2,951	11,058	919	5.7	2,206	18.8	2,143	16.0	1,767	15.5	4,020	42.4
<b>North Central</b>	454	169	<b>623</b>	59	6.7	124	17.2	120	17.7	102	16.9	218	41.6
Bradford	38	17	55	4	NA	7	NA	13	19.8	18	29.9	13	25.5
Centre	69	23	92	7	NA	19	8.8	22	17.6	16	15.6	28	36.1
Clinton	40	10	50	4	NA	14	38.5	10	28.2	10	30.1	12	38.5
Columbia	54	15	69	9	NA	7	NA	13	21.4	10	17.4	30	57.6
Lycoming	73	28	101	9	NA	20	17.8	20	16.3	16	14.5	36	37.6
Montour	11	5	16	2	NA	5	NA	1	NA	3	NA	5	NA
Northumberland	75	32	107	9	NA	24	31.4	18	18.2	12	13.2	44	51.3
Potter	15	4	19	3	NA	9	NA	2	NA	1	NA	4	NA
Snyder	17	9	26	2	NA	4	NA	4	NA	5	NA	11	41.1
Sullivan	4	1	5	0	NA	0	NA	2	NA	1	NA	2	NA
Tioga	29	13	42	8	NA	5	NA	6	NA	6	NA	17	48.7
Union	29	12	41	2	NA	10	19.7	9	NA	4	NA	16	53.2
<b>South Central</b>	993	343	<b>1,336</b>	127	6.1	245	16.4	282	16.0	198	13.0	484	40.3
Adams	60	25	85	11	8.0	11	11.8	18	16.4	9	NA	36	51.9
Bedford	63	14	77	12	19.3	19	44.7	17	31.8	12	24.6	17	39.6
Blair	116	41	157	11	7.0	26	22.9	37	28.5	28	23.0	55	50.5
Cumberland	126	47	173	21	7.2	32	14.3	32	13.5	19	9.2	69	40.7
Dauphin	112	41	153	6	NA	33	14.3	23	7.9	28	11.4	63	35.6
Franklin	95	32	127	12	6.5	18	14.1	30	21.1	22	17.0	45	39.5
Fulton	15	1	16	2	NA	6	NA	4	NA	1	NA	3	NA
Huntingdon	32	17	49	9	NA	7	NA	16	31.9	4	NA	13	36.8
Juniata	24	5	29	4	NA	8	NA	10	41.2	3	NA	4	NA
Lebanon	52	16	68	6	NA	14	11.5	12	9.2	12	10.2	24	23.2
Mifflin	30	12	42	3	NA	10	25.7	7	NA	3	NA	19	46.3
Perry	36	9	45	5	NA	9	NA	17	33.6	4	NA	10	35.5
York	232	83	315	25	4.6	52	13.7	59	12.3	53	13.6	126	45.0

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	8,107	2,951	11,058	919	5.7	2,206	18.8	2,143	16.0	1,767	15.5	4,020	42.4
<b>Northwest</b>	742	265	<b>1,007</b>	95	7.9	192	22.6	197	20.3	172	19.7	351	45.6
Cameron	6	2	8	0	NA	1	NA	4	NA	1	NA	2	NA
Clarion	29	13	42	3	NA	11	27.5	7	NA	6	NA	15	45.2
Clearfield	88	38	126	19	20.5	19	25.5	25	26.8	24	30.0	39	54.3
Crawford	85	27	112	12	10.0	18	22.7	21	23.4	19	22.1	42	59.3
Elk	42	13	55	3	NA	13	49.9	16	42.7	8	NA	15	49.8
Erie	160	51	211	15	3.9	41	14.4	41	14.2	36	14.6	78	38.9
Forest	3	2	5	1	NA	0	NA	3	NA	0	NA	1	NA
Jefferson	38	16	54	6	NA	10	25.2	10	21.2	8	NA	20	48.6
Lawrence	73	34	107	8	NA	20	26.2	19	20.2	18	20.7	42	49.1
McKean	39	11	50	4	NA	15	37.6	6	NA	9	NA	16	43.0
Mercer	87	30	117	12	7.8	23	22.8	23	19.2	22	19.8	37	35.2
Venango	53	21	74	7	NA	14	30.7	13	22.5	15	26.6	25	52.7
Warren	39	7	46	5	NA	7	NA	9	NA	6	NA	19	51.8
<b>Southwest</b>	2,171	882	<b>3,053</b>	246	7.5	612	25.3	566	19.4	459	17.4	1,170	49.6
Allegheny	906	378	1,284	100	6.7	260	23.3	211	16.1	199	17.1	514	48.7
Armstrong	76	25	101	8	NA	15	27.3	29	38.5	10	14.4	39	61.1
Beaver	130	41	171	15	7.2	38	26.2	33	17.5	28	16.0	57	35.5
Butler	128	64	192	18	7.3	42	26.0	40	19.6	21	12.4	71	54.6
Cambria	129	55	184	11	6.5	39	30.3	30	19.7	24	16.7	80	57.6
Fayette	150	54	204	23	13.3	44	36.0	42	26.9	36	24.5	59	46.0
Greene	26	21	47	5	NA	18	45.2	3	NA	5	NA	16	53.5
Indiana	85	25	110	12	10.4	24	25.5	14	16.8	24	29.9	36	52.6
Somerset	69	24	93	7	NA	12	16.7	22	25.7	15	20.0	37	51.2
Washington	160	69	229	15	6.0	34	18.5	49	22.7	39	19.2	92	51.9
Westmoreland	312	126	438	32	7.6	86	28.5	93	23.4	58	15.6	169	50.7

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: TRAUMATIC BRAIN INJURY

### NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2004-2008

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	274	33.8	29.8-37.7 +	Allegheny	1,004	16.1	15.1-17.0	Berks	28	11.2	7.0-15.3
Chester	20	12.5	7.0-17.9	Chester	269	12.8	11.3-14.4 -	Lancaster	17	NA	
Dauphin	22	9.9	5.7-14.0 -	Dauphin	128	11.3	9.3-13.2 -	Lehigh	22	9.3	5.4-13.2
Delaware	91	19.1	15.2-23.0	Delaware	300	11.8	10.4-13.1 -	Philadelphia	104	17.0	13.7-20.3 +
Montgomery	38	12.2	8.3-16.0 -	Montgomery	443	11.8	10.7-12.9 -				
Philadelphia	634	19.2	17.7-20.7	Philadelphia	605	15.4	14.1-16.6				
Pennsylvania	1,241	18.9	17.8-19.9	Pennsylvania	9,710	16.4	16.1-16.7	Pennsylvania	266	11.8	10.4-13.2

### NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2004-2008

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	13.2%	216	58	<b>274</b>	21.3%	59	21.2	108	64.8	50	32.3	25	21.0	32	35.2
	White	83.5%	686	318	<b>1,004</b>	78.2%	40	3.5	147	16.4	161	14.4	174	17.0	482	50.6
Chester	Black	6.3%	16	4	<b>20</b>	6.8%	3	NA	9	NA	0	NA	4	NA	4	NA
	White	90.0%	190	79	<b>269</b>	92.1%	16	2.7	60	15.7	53	10.4	46	11.4	94	35.4
Dauphin	Black	17.8%	20	2	<b>22</b>	14.4%	3	NA	10	21.5	6	NA	2	NA	1	NA
	White	77.8%	90	38	<b>128</b>	83.7%	3	NA	21	12.3	16	7.0	26	12.6	62	40.0
Delaware	Black	17.4%	80	11	<b>91</b>	22.9%	15	9.2	36	31.0	19	18.5	6	NA	15	38.9
	White	77.3%	209	91	<b>300</b>	75.4%	13	2.4	32	8.5	53	11.5	53	12.9	149	42.2
Montgomery	Black	8.6%	34	4	<b>38</b>	7.7%	5	NA	11	14.9	5	NA	9	NA	8	NA
	White	85.0%	295	148	<b>443</b>	89.5%	18	2.2	54	9.5	81	10.8	67	10.7	223	42.4
Philadelphia	Black	45.6%	516	118	<b>634</b>	49.9%	100	9.2	225	31.6	140	21.0	74	14.9	95	26.6
	White	47.3%	446	159	<b>605</b>	47.6%	24	3.0	90	11.2	125	18.2	133	22.9	232	40.8
Pennsylvania	Black	10.6%	1,016	225	<b>1,241</b>	11.2%	220	10.1	456	30.6	253	18.6	138	14.7	174	27.6
	White	86.1%	7,009	2,701	<b>9,710</b>	87.8%	684	5.2	1,709	17.6	1,871	16.2	1,619	15.9	3,825	43.8

# **Injury Hospitalizations 2008**

## INJURY HOSPITALIZATIONS: ALL INJURIES

In 2008, among Pennsylvania residents, there were 148,452 hospitalizations due to injury. On average, one resident was hospitalized every four minutes.

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### ***Injury Definition***

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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 **increasing** over 2004 to 2008.*
- *Most common demographic is **white females, 40 and older.***
- *Of all Pennsylvania counties, **Philadelphia** shows the highest rate.*

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### ***Trends Over Time***

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- Age-adjusted injury hospitalization rates increased by 7 percent from 2004 to 2008, from 993.7 to 1,062.4 hospitalizations per 100,000 population.
- Males showed significantly higher age-adjusted injury hospitalization rates than females over 2004 to 2008, 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 2004 to 2008.

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### ***Demographic Trends***

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- Males showed significantly higher injury hospitalization rates for ages less than 65, while females showed significantly higher rates for ages 75 and older.
- Among males, blacks showed significantly higher injury hospitalization rates for ages less than 75, while whites showed significantly higher rates for ages 80 and older.
- Among females, blacks showed significantly higher injury hospitalization rates for ages less than 70, while whites showed significantly higher rates for ages 75 and older.

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### ***Regional Trends***

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- 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.
- Nineteen counties showed age-adjusted injury hospitalization rates for 2008 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, 2008

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		
<b>Fall</b>	68,670	451.0	74	0.6	17	NA	54	0.5	68,815	452.2	(448.9 - 455.6)	9,135
→ On same level	21,228	138.4	0		0		0		21,228	138.4	(136.6 - 140.3)	1,910
→ One level to another	16,437	113.7	74	0.6	17	NA	54	0.5	16,582	114.9	(113.1 - 116.6)	3,199
→ Unspecified	31,005	198.9	0		0		0		31,005	198.9	(196.7 - 201.1)	4,026
<b>Poisoning</b>	6,894	53.0	8,186	67.5	13	NA	2,128	17.1	17,221	137.8	(135.7 - 139.8)	48
→ Drug	5,876	45.3	7,848	64.8	10	NA	1,867	15.1	15,601	125.2	(123.2 - 127.2)	39
→ Non-Drug	1,018	7.8	338	2.7	3	NA	261	2.0	1,620	12.6	(12.0 - 13.2)	9
<b>Motor Vehicle Traffic</b>	13,350	104.4	15	NA	6	NA	1	NA	13,372	104.5	(102.8 - 106.3)	4,856
→ MVT Occupant	9,050	70.1	15	NA	6	NA	1	NA	9,072	70.3	(68.8 - 71.7)	3,429
→ MVT Motorcyclist	1,905	15.3	0		0		0		1,905	15.3	(14.6 - 16.0)	637
→ MVT Pedal Cyclist	327	2.8	0		0		0		327	2.8	(2.5 - 3.1)	136
→ MVT Pedestrian	1,339	10.6	0		0		0		1,339	10.6	(10.0 - 11.2)	503
→ MVT Other	92	0.7	0		0		0		92	0.7	(0.6 - 0.9)	41
→ MVT Unspecified	637	4.9	0		0		0		637	4.9	(4.5 - 5.3)	110
All Pedal Cyclist	1,186	9.7	0		0		0		1,186	9.7	(9.2 - 10.3)	397
All Pedestrian	1,467	11.6	0		0		0		1,467	11.6	(11.0 - 12.2)	535
Other Transport	2,016	16.1	0		0		0		2,016	16.1	(15.4 - 16.8)	578
Firearm	268	2.2	101	0.8	1,019	8.4	93	0.8	1,500	12.4	(11.7 - 13.0)	171
Drowning	60	0.5	2	NA	0		1	NA	63	0.5	(0.4 - 0.7)	2
Suffocation	1,582	10.6	160	1.3	8	NA	6	NA	1,756	12.0	(11.5 - 12.6)	18
Fire/Flames	834	6.5	35	0.3	5	NA	8	NA	882	6.8	(6.4 - 7.3)	9
Hot Object/Scald	1,119	9.0	2	NA	10	NA	7	NA	1,138	9.2	(8.6 - 9.7)	3
Cut/Pierce	1,435	11.5	1,263	10.5	699	5.9	36	0.3	3,434	28.2	(27.2 - 29.1)	48
Struck By/Against	3,208	24.6	0		2,115	17.3	0		5,366	42.3	(41.1 - 43.4)	1,397
Machinery	671	5.3	0		0		0		671	5.3	(4.9 - 5.6)	54
Overexertion	2,472	18.1	0		0		0		2,472	18.1	(17.4 - 18.8)	3
Nat/Env. Causes	3,148	23.5	5	NA	0		8	NA	3,161	23.6	(22.8 - 24.4)	39
→ Bites and Stings	1,935	15.0	0		0		0		1,935	15.0	(14.4 - 15.7)	5
Other Spec./NEC	9,447	70	282	2	1,138	9	406	3	11,333	85	(83.7 - 86.8)	368
Unspecified	10,940	76.1	60	0.5	769	6.4	2,491	17.2	14,265	100.2	(98.6 - 101.9)	959
<b>Total: All Mechanisms</b>	<b>127,101</b>	<b>890.3</b>	<b>10,185</b>	<b>83.9</b>	<b>5,799</b>	<b>47.9</b>	<b>5,239</b>	<b>39.3</b>	<b>148,452</b>	<b>1,062.4</b>	<b>(1,057.0 - 1,067.9)</b>	<b>17,981</b>

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

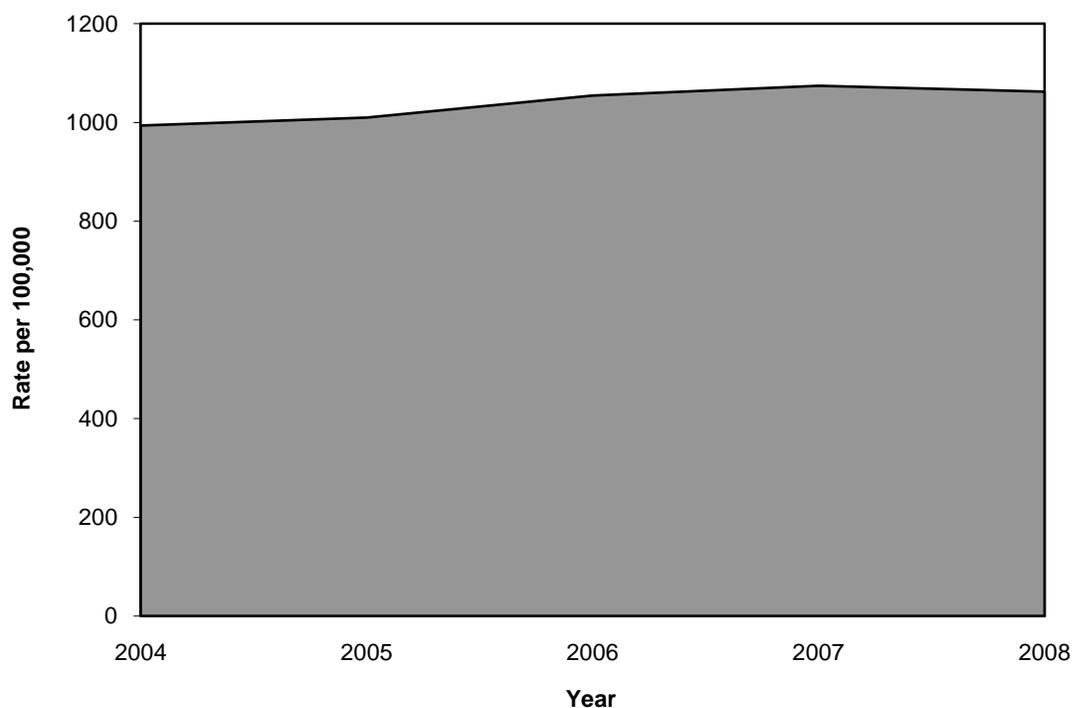
# INJURY HOSPITALIZATIONS: ALL INJURIES

## TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, 2004-2008

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Year	No.	Rate
2004	135,334	993.7
2005	138,282	1,009.9
2006	142,030	1,054.5
2007	146,260	1,074.3
2008	148,452	1,062.4

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## AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2004-2008

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Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2004	1,014.0	772.3	979.7	1,061.0	804.2	1,035.5
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

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

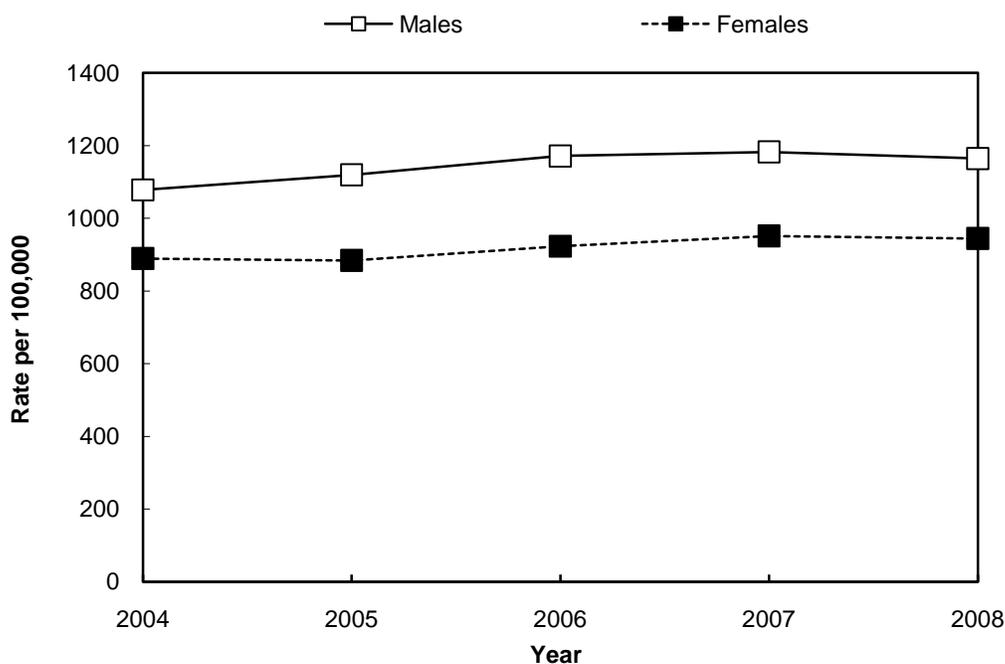
Rates are per 100,000. Data for 2004-2008 based on ICD-9-CM codes. See Technical Notes.

## INJURY HOSPITALIZATIONS: ALL INJURIES

### TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX PENNSYLVANIA RESIDENTS, 2004-2008

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2004	64,269	1,078.2 *	2004	71,060	889.5
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

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



### AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2004-2008

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2004	1,107.8	1,001.7 *	2004	891.0	885.2
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 *

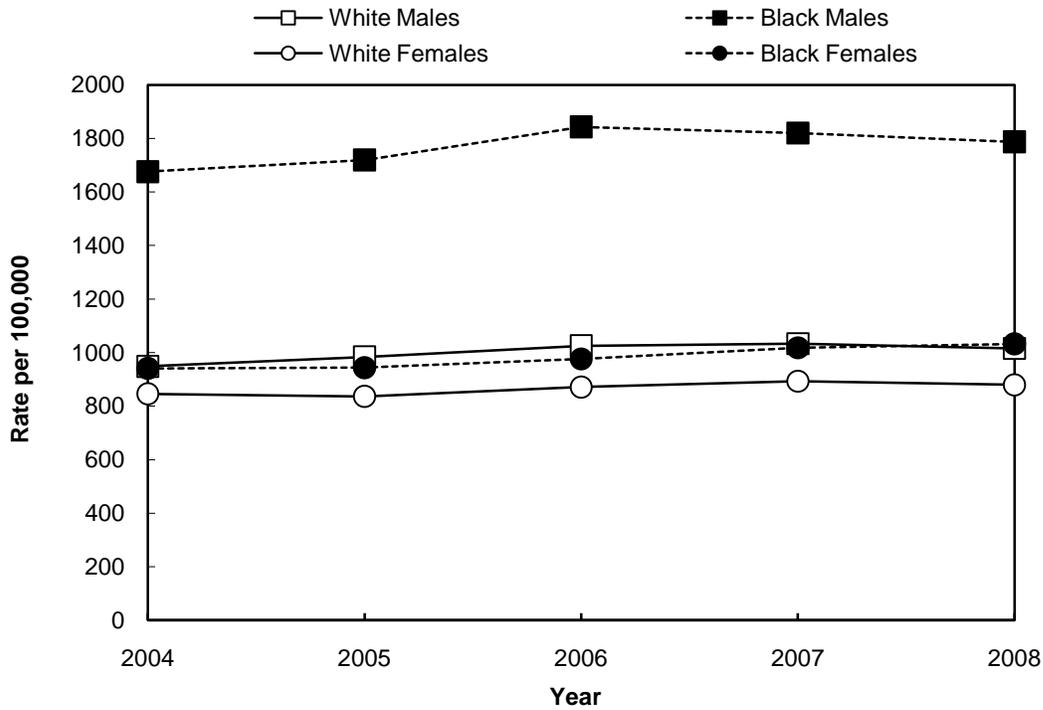
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

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, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	50,146	9,441	61,777	6,223	2,409	1,634
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



### AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	948.3	1,676.0 *	845.8	941.0 *	1,306.9	1,110.2
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

\* 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, 2008

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>148,452</b>	<b>1,192.6</b>	<b>71,385</b>	<b>1,179.8</b>	<b>77,023</b>	<b>1,203.9</b>	<b>108,731</b>	<b>1,205.2</b>	<b>39,721</b>	<b>1,159.3</b>
< 5	2,331	316.2	1,367	362.4	962	267.2	1,845	333.8	486	263.4
5-9	1,399	185.3	866	224.2	533	144.5	1,074	192.0	325	166.0
10-14	2,070	259.2	1,390	340.8	680	174.1	1,506	256.3	564	267.4
15-19	5,769	625.2	3,751	807.6	2,016	439.8	4,117	620.7	1,652	636.4
20-24	6,851	773.0	4,426	983.0	2,421	555.3	5,098	802.8	1,753	697.8
25-29	6,223	842.0	3,962	1,047.9	2,259	625.8	4,725	855.9	1,498	801.0
30-34	5,336	716.3	3,386	900.7	1,947	527.7	3,969	723.4	1,367	696.5
35-39	6,086	758.9	3,682	921.3	2,401	596.8	4,505	766.0	1,581	739.2
40-44	7,603	868.8	4,634	1,068.6	2,964	671.4	5,697	891.0	1,906	808.4
45-49	9,158	1,002.3	5,580	1,238.2	3,576	772.4	6,896	1,038.7	2,262	905.8
50-54	9,356	1,053.8	5,479	1,260.3	3,876	855.5	7,034	1,097.2	2,322	941.2
55-59	8,276	1,033.0	4,578	1,180.2	3,692	893.4	6,129	1,070.7	2,147	938.7
60-64	7,826	1,161.0	4,027	1,254.0	3,797	1,075.8	5,711	1,200.5	2,115	1,066.1
65-69	7,510	1,416.3	3,491	1,433.9	4,017	1,400.7	5,270	1,430.2	2,240	1,384.8
70-74	8,452	1,907.7	3,615	1,865.1	4,835	1,940.0	5,972	1,932.7	2,480	1,850.1
75-79	11,941	3,234.7	4,538	3,016.8	7,402	3,384.1	8,515	3,287.8	3,426	3,110.1
80-84	16,308	5,739.0	5,483	5,116.2	10,822	6,114.4	11,750	5,800.5	4,558	5,586.1
85 +	25,956	9,140.0	7,129	8,116.5	18,823	9,596.3	18,918	9,283.4	7,038	8,775.9

\* 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, 2008

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>55,035</b>	<b>1,059.3</b>	<b>10,313</b>	<b>1,624.6</b>	<b>65,170</b>	<b>1,191.3</b>	<b>7,120</b>	<b>1,014.2</b>	<b>4,771</b>	<b>803.2</b>
< 5	772	253.0	323	623.8 *	532	183.1	229	453.9 *	251	369.2
5-9	545	173.4	197	382.8 *	348	116.3	111	223.0 *	113	187.3
10-14	978	293.0	253	457.2 *	473	148.5	136	254.4 *	104	185.7
15-19	2,556	667.9	782	1,266.8 *	1,472	388.9	304	503.8 *	297	503.4
20-24	3,023	816.6	871	1,434.5 *	1,759	492.1	414	695.1 *	397	752.7
25-29	2,704	870.9	762	1,484.7 *	1,675	569.9	376	741.3 *	362	743.3
30-34	2,244	715.2	689	1,561.5 *	1,391	456.6	347	752.0 *	349	764.2
35-39	2,543	747.6	729	1,731.1 *	1,783	527.4	401	865.8 *	335	746.9
40-44	3,234	860.6	937	2,220.7 *	2,229	590.4	496	1,035.8 *	369	940.5
45-49	4,005	1,009.1	1,115	2,732.9 *	2,705	673.4	615	1,294.2 *	363	1,062.2
50-54	4,026	1,037.4	1,016	2,848.3 *	3,054	767.8	582	1,342.3 *	322	1,279.3
55-59	3,491	997.3	754	2,626.4 *	2,968	810.5	481	1,309.5 *	252	1,289.0
60-64	3,212	1,099.7	510	2,348.1 *	3,175	1,005.8	382	1,306.4 *	232	1,736.3
65-69	2,909	1,301.2	355	2,378.2 *	3,442	1,324.3	338	1,579.4 *	177	1,900.6
70-74	3,090	1,731.7	301	2,538.8 *	4,225	1,863.7	358	1,927.4	177	2,667.7
75-79	4,056	2,907.5	243	2,805.0	6,639	3,308.1	420	2,753.6 *	204	4,253.5
80-84	5,041	5,065.3	241	3,902.8 *	9,885	6,075.3	449	3,676.4 *	190	6,083.9
85 +	6,605	8,146.6	235	4,262.7 *	17,415	9,636.5	681	5,210.0 *	277	8,305.8

\* 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. 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, 2008

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>11,368</b>	<b>1,228.2</b>	<b>6,241</b>	<b>919.6</b>	<b>19,766</b>	<b>1,263.0</b>	<b>60,529</b>	<b>1,223.9</b>	<b>14,691</b>	<b>899.2</b>	<b>35,857</b>	<b>1,328.1</b>
< 5	152	296.8	88	250.0 -	308	354.1 +	1,249	388.6 +	215	216.3 -	319	223.0 -
5-9	78	143.6 -	52	145.1	198	218.0 +	680	211.1 +	146	145.4 -	245	161.6 -
10-14	165	280.1	79	205.9 -	311	310.7 +	894	268.2	165	156.7 -	456	280.6
15-19	449	640.1	278	439.8 -	764	659.8	2,506	679.6 +	582	506.6 -	1,190	626.2
20-24	472	740.2	300	415.5 -	814	742.8	3,114	875.7 +	672	630.3 -	1,479	828.8 +
25-29	439	846.3	263	748.7	713	788.3	2,812	897.1 +	564	577.3 -	1,432	951.9 +
30-34	405	752.6	208	554.4 -	654	723.5	2,341	759.6 +	524	527.7 -	1,204	773.2 +
35-39	472	824.8	245	609.3 -	787	794.7	2,651	805.3 +	587	547.6 -	1,344	794.7
40-44	551	875.9	293	665.7 -	969	884.7	3,418	964.9 +	728	622.8 -	1,644	876.6
45-49	668	994.0	342	740.6 -	1,172	1,018.7	4,194	1,159.4 +	780	642.9 -	2,002	990.2
50-54	685	1,034.1	314	689.4 -	1,095	969.4 -	4,233	1,235.4 +	874	742.1 -	2,155	1,063.4
55-59	644	1,059.6	348	829.1 -	1,077	1,035.9	3,489	1,158.1 +	837	774.1 -	1,881	1,016.5
60-64	552	1,051.5 -	314	865.5 -	1,053	1,158.7	3,190	1,287.7 +	850	936.2 -	1,867	1,197.3
65-69	666	1,559.0 +	390	1,264.1 -	1,061	1,478.7	2,806	1,474.7 +	743	1,020.6 -	1,844	1,513.4 +
70-74	738	2,024.5	377	1,473.9 -	1,176	2,008.6	3,167	2,005.3 +	909	1,541.3 -	2,085	1,975.2
75-79	974	3,187.6	539	2,596.6 -	1,704	3,577.2 +	4,310	3,282.9	1,247	2,625.1 -	3,167	3,464.6 +
80-84	1,333	5,774.8	707	4,635.8 -	2,274	6,326.5 +	5,743	5,599.0	1,732	5,032.3 -	4,519	6,199.4 +
85 +	1,925	8,806.8	1,103	7,577.1 -	3,636	10,197.7 +	9,732	9,392.6 +	2,536	7,364.6 -	7,024	9,509.6 +

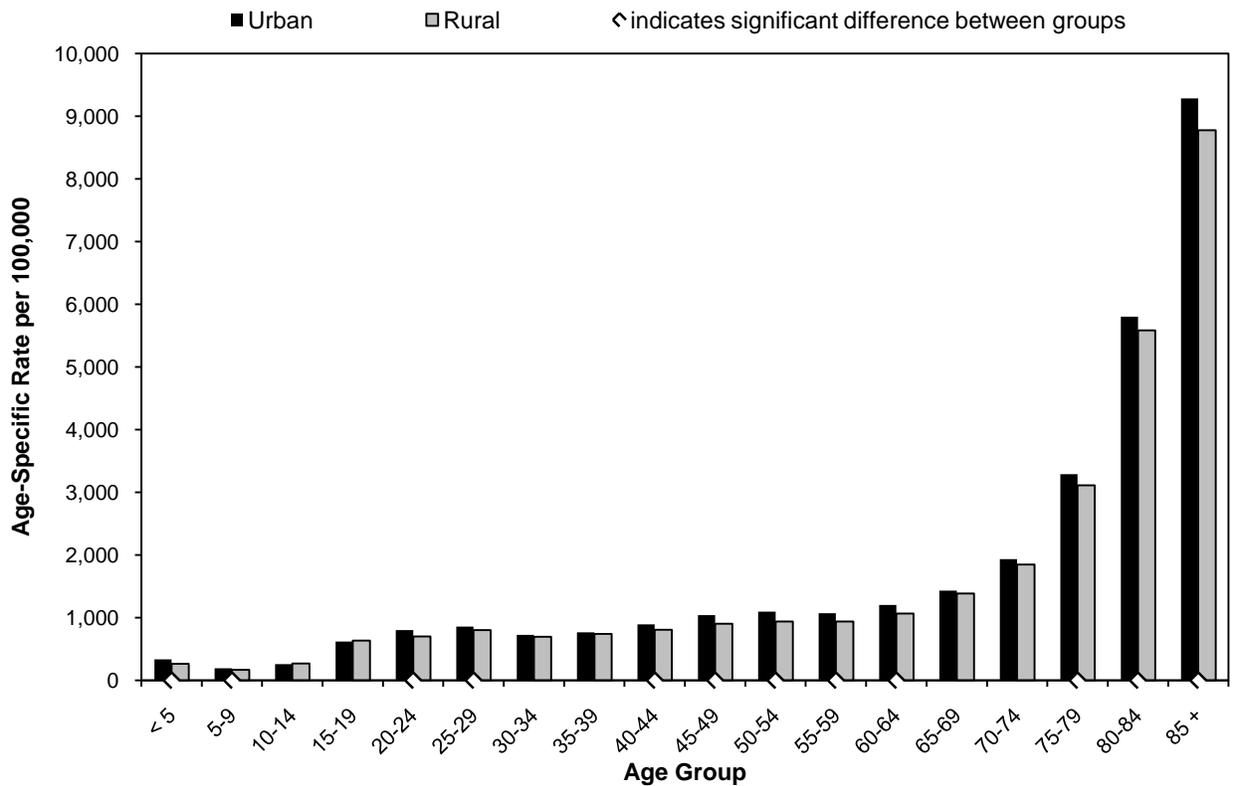
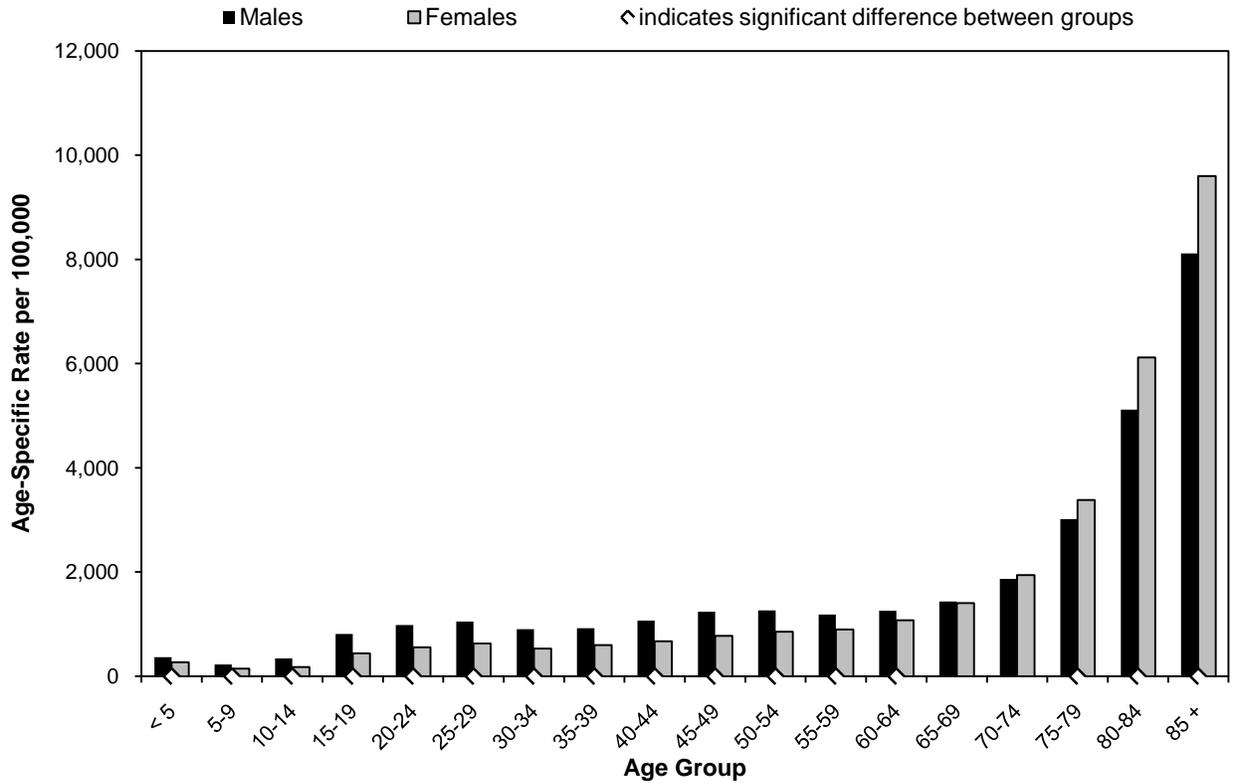
*+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.*

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.

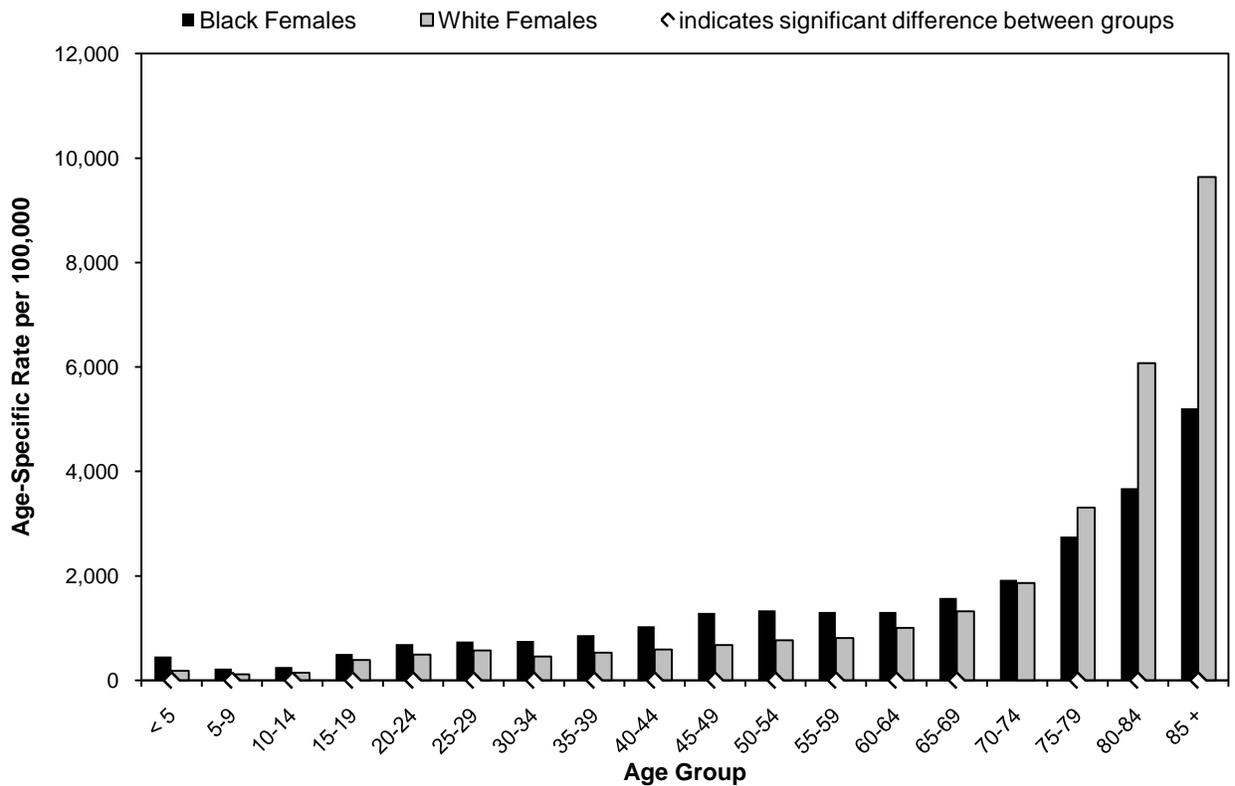
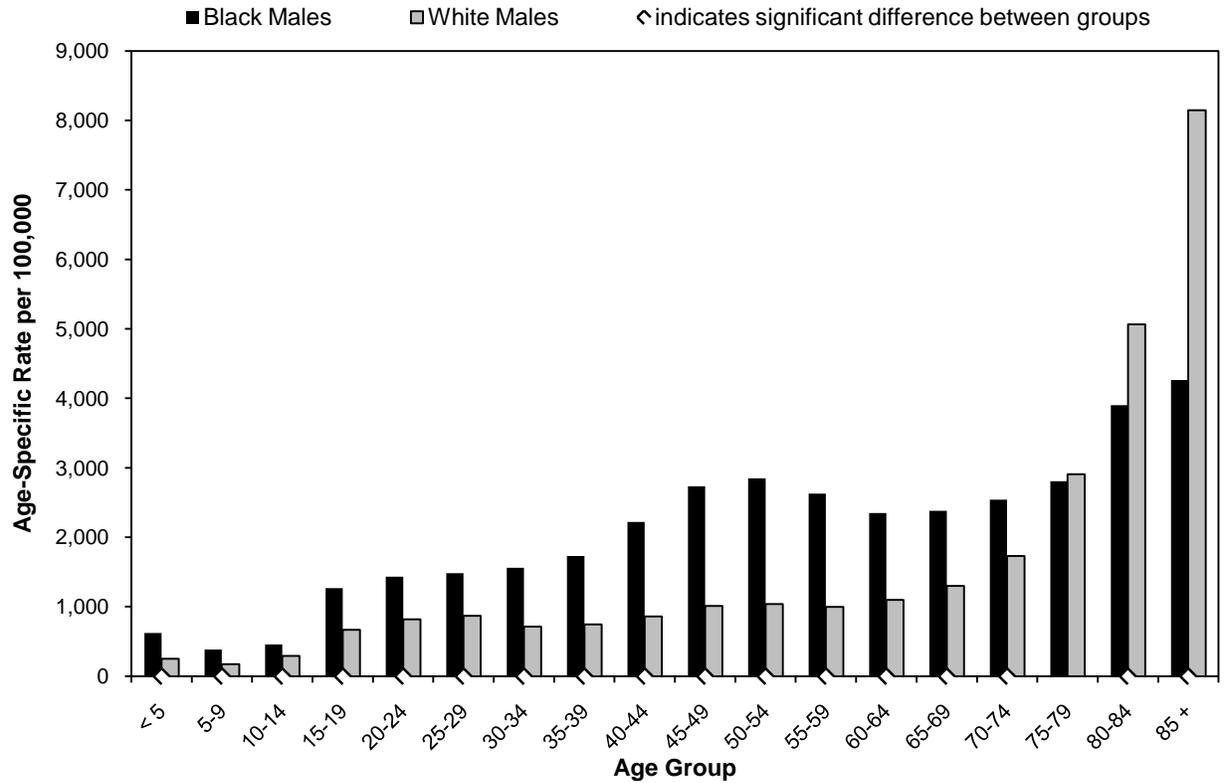
# INJURY HOSPITALIZATIONS: ALL INJURIES

## AGE-SPECIFIC HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS PENNSYLVANIA RESIDENTS, 2008



# INJURY HOSPITALIZATIONS: ALL INJURIES

## AGE-SPECIFIC HOSPITALIZATION RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2008



# INJURY HOSPITALIZATIONS: ALL INJURIES

## NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2008

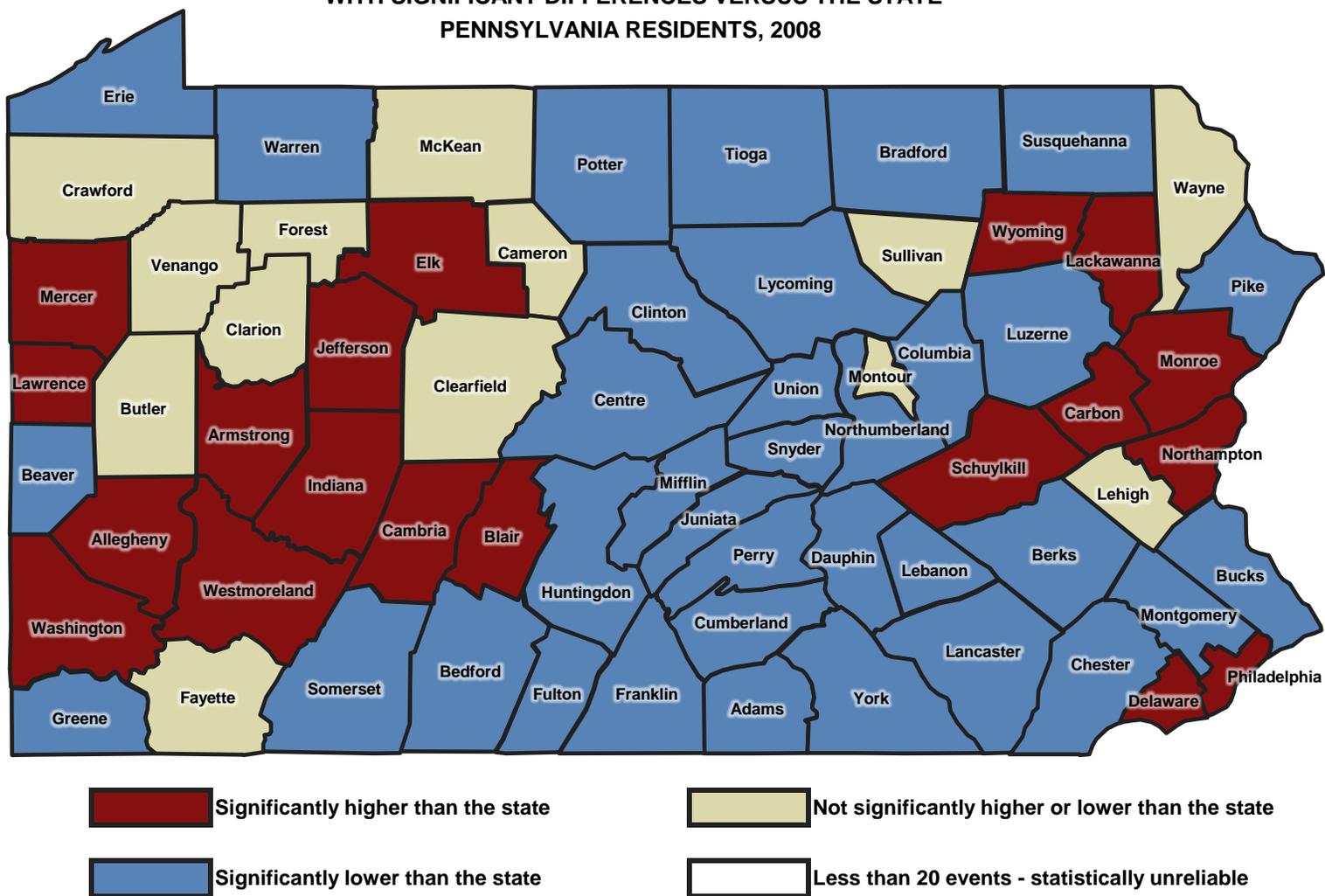
District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
<b>Northeast</b>	19,766	1,110.3	1,094.9-1,125.8 +	<b>Southeast</b>	60,529	1,140.5	1,131.4-1,149.6 +
Carbon	902	1,255.3	1,173.4-1,337.3 +	Berks	4,132	950.7	921.7-979.7 -
Lackawanna	2,970	1,148.5	1,107.2-1,189.8 +	Bucks	6,421	982.5	958.4-1,006.5 -
Lehigh	4,086	1,096.8	1,063.2-1,130.4	Chester	4,213	869.7	843.4-896.0 -
Luzerne	3,860	995.7	964.3-1,027.1 -	Delaware	8,358	1,367.4	1,338.0-1,396.7 +
Monroe	1,827	1,140.2	1,088.0-1,192.5 +	Lancaster	4,536	834.9	810.6-859.2 -
Northampton	4,334	1,336.6	1,296.8-1,376.4 +	Montgomery	8,104	922.9	902.8-943.0 -
Pike	320	504.9	449.6-560.2 -	Philadelphia	22,531	1,517.8	1,498.0-1,537.6 +
Susquehanna	440	923.7	837.4-1,010.0 -	Schuylkill	2,234	1,251.4	1,199.5-1,303.3 +
Wayne	641	1,045.7	964.7-1,126.6				
Wyoming	386	1,318.4	1,186.9-1,449.9 +				
<b>North Central</b>	6,241	824.5	804.0-844.9 -	<b>South Central</b>	14,691	810.9	797.8-824.0 -
Bradford	646	949.0	875.8-1,022.2 -	Adams	707	655.1	606.9-703.4 -
Centre	1,065	833.7	783.7-883.8 -	Bedford	469	835.7	760.0-911.3 -
Clinton	351	829.8	743.0-916.6 -	Blair	1,649	1,126.1	1,071.8-1,180.5 +
Columbia	702	977.5	905.2-1,049.9 -	Cumberland	2,098	807.2	772.7-841.7 -
Lycoming	1,074	792.5	745.1-839.9 -	Dauphin	2,267	826.7	792.7-860.7 -
Montour	206	1,053.6	909.7-1,197.5	Franklin	1,278	763.5	721.7-805.4 -
Northumberland	1,088	973.2	915.4-1,031.1 -	Fulton	144	846.9	708.6-985.2 -
Potter	146	782.0	655.1-908.8 -	Huntingdon	427	849.9	769.3-930.6 -
Snyder	286	697.6	616.8-778.5 -	Juniata	186	697.4	597.2-797.6 -
Sullivan	79	1,030.7	803.4-1,258.0	Lebanon	1,023	685.3	643.3-727.3 -
Tioga	241	506.2	442.3-570.1 -	Mifflin	454	860.5	781.3-939.6 -
Union	357	745.1	667.8-822.4 -	Perry	395	871.7	785.8-957.7 -
				York	3,594	797.7	771.6-823.8 -
<b>Northwest</b>	11,368	1,065.3	1,045.7-1,084.9	<b>Southwest</b>	35,857	1,100.3	1,088.9-1,111.7 +
Cameron	78	1,106.9	861.3-1,352.6	Allegheny	16,580	1,122.3	1,105.3-1,139.4 +
Clarion	476	1,058.3	963.2-1,153.3	Armstrong	1,080	1,347.9	1,267.5-1,428.3 +
Clearfield	1,022	1,059.0	994.1-1,124.0	Beaver	1,848	880.8	840.6-920.9 -
Crawford	1,086	1,096.6	1,031.4-1,161.8	Butler	2,188	1,072.4	1,027.4-1,117.3
Elk	472	1,196.2	1,088.3-1,304.1 +	Cambria	2,156	1,226.7	1,174.9-1,278.5 +
Erie	2,846	946.0	911.3-980.8 -	Fayette	1,875	1,098.8	1,049.0-1,148.5
Forest	81	1,141.6	893.0-1,390.2	Greene	355	797.1	714.1-880.0 -
Jefferson	620	1,166.6	1,074.8-1,258.5 +	Indiana	1,192	1,234.3	1,164.2-1,304.4 +
Lawrence	1,370	1,244.0	1,178.1-1,309.9 +	Somerset	937	958.4	897.0-1,019.7 -
McKean	532	1,027.8	940.4-1,115.1	Washington	2,716	1,109.8	1,068.1-1,151.6 +
Mercer	1,748	1,237.6	1,179.6-1,295.6 +	Westmoreland	4,930	1,117.4	1,086.2-1,148.5 +
Venango	692	1,105.0	1,022.6-1,187.3				
Warren	345	706.2	631.7-780.8 -	<b>Pennsylvania</b>	<b>148,452</b>	<b>1,062.4</b>	<b>1,057.0-1,067.9</b>

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, 2008



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, 2008

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	71,385	77,023	<b>148,452</b>	11,569	360.0	18,410	776.7	22,847	881.9	25,458	1,077.3	70,167	3,672.5
<b>Northeast</b>	9,190	10,549	<b>19,766</b>	1,581	401.6	2,181	751.0	2,928	904.8	3,225	1,047.8	9,851	3,947.7
Carbon	425	476	902	78	562.7	114	912.4	142	1,079.8	148	1,121.6	420	3,869.2
Lackawanna	1,269	1,701	2,970	198	392.0	283	710.6	384	929.0	472	1,178.3	1,633	4,334.0
Lehigh	1,967	2,118	4,086	343	382.7	505	785.0	657	943.5	649	1,007.8	1,932	3,716.6
Luzerne	1,678	2,162	3,860	256	358.0	403	694.8	487	754.7	652	1,067.6	2,062	3,625.9
Monroe	953	873	1,827	187	406.3	204	675.4	347	943.3	354	1,097.9	735	3,712.9
Northampton	2,066	2,267	4,334	373	470.2	490	877.5	625	1,028.2	639	1,145.0	2,207	5,130.5
Pike	152	167	320	39	277.5	40	414.6	60	451.8	72	524.4	109	1,217.3
Susquehanna	211	229	440	30	306.2	41	601.5	61	749.3	50	534.5	258	3,838.7
Wayne	296	343	641	49	436.4	62	717.8	105	1,018.4	119	965.6	306	3,215.6
Wyoming	173	213	386	28	362.2	39	844.0	60	1,061.6	70	1,247.8	189	4,558.6
<b>Southeast</b>	30,467	30,062	<b>60,529</b>	5,329	396.0	8,267	845.9	10,263	981.9	10,912	1,223.8	25,758	3,756.6
Berks	2,011	2,121	4,132	366	323.3	473	633.0	661	777.1	695	950.6	1,937	3,370.0
Bucks	3,045	3,376	6,421	537	334.8	768	739.7	980	677.2	1,103	873.5	3,033	3,509.1
Chester	1,940	2,273	4,213	320	231.6	484	538.2	628	567.6	744	811.7	2,037	3,332.6
Delaware	4,073	4,285	8,358	679	454.0	1,089	1,016.8	1,312	1,135.8	1,457	1,412.7	3,821	4,878.8
Lancaster	2,188	2,348	4,536	412	288.1	607	631.5	636	633.3	709	796.9	2,172	2,941.1
Montgomery	3,632	4,472	8,104	534	266.6	814	578.8	1,002	575.7	1,354	919.5	4,400	3,799.1
Philadelphia	12,519	10,012	22,531	2,283	558.6	3,789	1,122.2	4,723	1,674.4	4,473	1,919.8	7,263	3,905.6
Schuylkill	1,059	1,175	2,234	198	613.1	243	891.5	321	980.1	377	1,334.3	1,095	4,101.7

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	71,385	77,023	148,452	11,569	360.0	18,410	776.7	22,847	881.9	25,458	1,077.3	70,167	3,672.5
<b>North Central</b>	2,899	3,329	<b>6,241</b>	497	287.9	771	532.3	880	674.9	976	788.4	3,116	2,912.2
Bradford	307	339	646	49	314.2	88	850.9	113	896.5	105	864.2	291	2,760.4
Centre	468	597	1,065	73	188.9	169	385.3	145	595.5	163	761.3	515	3,120.1
Clinton	158	191	351	25	249.5	42	585.0	47	690.7	45	667.1	192	3,054.4
Columbia	350	349	702	58	341.2	105	742.6	99	856.5	121	1,034.1	319	3,007.7
Lycoming	522	551	1,074	87	305.1	95	422.0	145	614.8	176	774.6	571	2,953.5
Montour	85	119	206	21	479.5	31	1,116.3	34	955.3	34	912.0	86	2,637.2
Northumberland	482	603	1,088	80	377.5	120	798.7	140	730.5	158	849.1	589	3,443.4
Potter	74	72	146	13	296.3	16	587.8	32	1,015.6	19	558.0	66	2,160.4
Snyder	130	156	286	28	271.8	33	405.4	34	458.4	46	668.1	145	2,721.0
Sullivan	43	36	79	8	NA	5	NA	13	1,209.3	15	1,214.6	38	2,590.3
Tioga	102	138	241	24	218.0	22	316.1	33	443.4	44	553.8	118	1,634.8
Union	178	178	357	31	307.6	45	436.0	45	464.6	50	688.2	186	2,957.5
<b>South Central</b>	6,912	7,778	<b>14,691</b>	1,108	263.8	1,760	579.7	2,095	606.5	2,561	808.7	7,167	2,888.4
Adams	342	365	707	60	222.0	69	366.1	103	480.0	125	650.9	350	2,399.1
Bedford	232	237	469	43	352.9	61	732.6	73	697.3	74	744.5	218	2,475.3
Blair	800	849	1,649	106	342.3	191	845.8	231	923.2	303	1,214.2	818	3,778.8
Cumberland	920	1,178	2,098	126	216.6	209	445.8	251	542.5	400	938.6	1,112	3,139.3
Dauphin	1,066	1,201	2,267	186	278.1	298	647.5	361	637.0	408	787.0	1,014	2,885.5
Franklin	586	692	1,278	99	261.8	113	430.6	165	582.7	201	745.3	700	2,897.7
Fulton	65	79	144	11	300.5	16	588.9	17	549.8	28	942.8	72	2,884.6
Huntingdon	212	215	427	35	334.6	75	809.5	59	605.9	70	795.2	188	2,583.5
Juniata	77	108	186	9	NA	23	575.6	23	497.9	36	808.8	95	2,383.9
Lebanon	487	536	1,023	105	324.5	110	439.3	111	436.6	186	756.7	511	2,372.6
Mifflin	213	241	454	40	331.2	55	713.0	56	613.4	81	928.7	222	2,637.2
Perry	197	198	395	41	338.1	64	797.3	75	763.2	77	823.8	138	2,356.6
York	1,715	1,879	3,594	247	224.2	476	610.7	570	597.7	572	695.0	1,729	2,940.4

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	71,385	77,023	148,452	11,569	360.0	18,410	776.7	22,847	881.9	25,458	1,077.3	70,167	3,672.5
<b>Northwest</b>	5,436	5,932	11,368	844	359.8	1,316	776.6	1,691	902.7	1,881	1,047.9	5,636	3,643.9
Cameron	36	42	78	7	NA	7	NA	5	NA	14	1,169.6	45	4,322.8
Clarion	259	217	476	25	239.4	59	760.6	66	899.4	82	1,094.9	244	3,505.2
Clearfield	515	507	1,022	77	427.5	117	779.7	175	947.6	178	1,067.0	475	3,224.7
Crawford	508	578	1,086	80	339.0	128	821.5	154	894.6	197	1,119.4	527	3,654.9
Elk	225	247	472	44	573.1	45	908.7	60	841.5	75	1,151.0	248	4,138.2
Erie	1,367	1,479	2,846	220	294.8	403	705.4	480	853.8	463	908.7	1,280	3,179.6
Forest	49	32	81	7	NA	4	NA	18	1,434.3	18	1,476.6	34	2,961.7
Jefferson	326	294	620	46	421.9	69	888.0	95	1,047.3	92	1,017.2	318	3,823.5
Lawrence	633	737	1,370	99	436.9	148	980.7	195	1,080.9	227	1,274.4	701	4,205.9
McKean	242	290	532	34	314.5	67	841.6	64	687.2	69	860.5	298	4,009.7
Mercer	786	962	1,748	115	381.8	168	839.3	235	1,020.2	270	1,189.9	960	4,617.6
Venango	330	362	692	60	442.8	74	829.5	103	939.3	125	1,086.8	330	3,479.9
Warren	160	185	345	30	309.0	27	416.9	41	492.7	71	807.9	176	2,368.1
<b>Southwest</b>	16,481	19,373	35,857	2,210	341.5	4,115	849.1	4,990	892.9	5,903	1,085.9	18,639	4,003.5
Allegheny	7,580	9,000	16,580	946	322.0	1,829	809.4	2,282	909.8	2,790	1,163.5	8,733	4,266.1
Armstrong	519	561	1,080	77	455.2	143	1,354.9	153	1,074.4	158	1,115.4	549	4,251.5
Beaver	817	1,031	1,848	119	296.1	216	751.2	260	726.8	308	853.4	945	2,983.2
Butler	1,067	1,121	2,188	151	310.2	242	750.4	302	760.6	359	1,011.5	1,134	4,235.9
Cambria	988	1,168	2,156	146	441.2	299	1,170.0	314	1,069.7	344	1,170.1	1,053	3,911.6
Fayette	863	1,011	1,875	122	360.9	265	1,096.1	252	836.1	328	1,077.4	908	3,579.7
Greene	160	194	355	30	338.6	49	630.1	48	569.0	55	665.2	173	2,881.4
Indiana	550	642	1,192	82	358.9	147	805.0	173	1,090.9	184	1,123.7	606	4,286.3
Somerset	441	496	937	62	370.1	105	751.3	125	750.8	131	850.0	514	3,504.7
Washington	1,247	1,469	2,716	183	367.2	274	733.3	393	941.6	446	1,066.4	1,420	3,983.4
Westmoreland	2,249	2,680	4,930	292	354.4	546	910.3	688	903.9	800	1,047.7	2,604	3,900.5

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 INJURIES

### NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2008

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	2,279	1,449.4	1,389.9-1,508.9	Allegheny	13,728	1,044.6	1,027.2-1,062.1 +	Berks	322	867.5	772.7-962.3 -
Chester	249	877.9	768.9-987.0 -	Chester	3,776	859.4	832.0-886.8 -	Lancaster	39	144.7	99.3-190.1 -
Dauphin	380	910.1	818.6-1,001.6 -	Dauphin	1,740	761.1	725.3-796.9 -	Lehigh	361	880.8	789.9-971.6 -
Delaware	1,296	1,349.0	1,275.5-1,422.4	Delaware	6,715	1,341.8	1,309.8-1,373.9 +	Philadelphia	1,769	1,276.4	1,216.9-1,335.8 +
Montgomery	602	946.3	870.7-1,021.9 -	Montgomery	6,784	870.8	850.0-891.5 -				
Philadelphia	10,343	1,634.4	1,602.9-1,665.9 +	Philadelphia	9,423	1,184.8	1,160.8-1,208.7 +				
Pennsylvania	17,434	1,387.5	1,366.9-1,408.1	Pennsylvania	120,242	956.2	950.8-961.6	Pennsylvania	4,771	1,167.3	1,134.2-1,200.4

### NUMBER FOR SELECT AGE GROUPS AND AGE-SPECIFIC HOSPITALIZATION RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2008

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.
Allegheny	Black	13.5%	1,307	972	<b>2,279</b>	13.7%	296	538.2	477	1,335.7	515	1,684.8	482	1,957.4	509	2,798.5
	White	82.8%	5,939	7,789	<b>13,728</b>	82.8%	574	257.4	1,244	700.0	1,661	787.1	2,214	1,052.2	8,035	4,372.5
Chester	Black	6.2%	136	113	<b>249</b>	5.9%	23	231.2	47	663.1	65	1,106.6	54	1,219.5	60	1,870.9
	White	89.5%	1,691	2,085	<b>3,776</b>	89.6%	269	222.2	391	498.6	525	530.4	671	791.3	1,920	3,390.5
Dauphin	Black	17.9%	227	153	<b>380</b>	16.8%	49	309.3	78	825.0	93	965.5	85	1,190.0	75	1,924.6
	White	77.2%	760	980	<b>1,740</b>	76.8%	110	239.1	188	551.2	227	512.4	302	700.6	913	2,984.6
Delaware	Black	18.8%	763	533	<b>1,296</b>	15.5%	208	608.0	300	1,144.5	330	1,508.9	227	1,631.2	231	2,918.9
	White	75.4%	3,118	3,597	<b>6,715</b>	80.3%	421	402.8	730	984.9	913	1,061.3	1,159	1,368.1	3,492	5,111.5
Montgomery	Black	8.9%	317	285	<b>602</b>	7.4%	54	271.5	107	676.2	129	787.3	127	1,146.4	185	2,921.7
	White	84.0%	2,970	3,814	<b>6,784</b>	83.7%	391	239.9	600	530.3	763	531.8	1,104	858.9	3,926	3,716.4
Philadelphia	Black	45.6%	6,171	4,172	<b>10,343</b>	45.9%	1,315	617.5	1,905	1,297.0	2,606	2,038.4	2,326	2,285.1	2,191	3,108.5
	White	46.9%	4,627	4,796	<b>9,423</b>	41.8%	430	266.7	1,183	745.9	1,528	1,143.7	1,693	1,448.8	4,589	4,245.3
Pennsylvania	Black	10.7%	10,313	7,120	<b>17,434</b>	11.7%	2,335	537.6	3,460	1,106.9	4,293	1,608.9	3,725	1,906.0	3,621	2,836.8
	White	85.7%	55,035	65,170	<b>120,242</b>	81.0%	7,680	292.8	12,804	656.5	16,507	740.2	19,932	944.7	63,318	3,612.3

## INJURY HOSPITALIZATIONS: UNINTENTIONAL FALLS

In 2008, among Pennsylvania residents, there were 68,670 hospitalizations due to unintentional falls. On average, one resident was hospitalized every eight minutes.

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### ***Injury Definition***

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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 2004 to 2008.*
- *Most common demographic is **white females**, 55 and older.*
- *Of all Pennsylvania counties, **Northampton and Delaware** show the highest rates.*

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### ***Trends Over Time***

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- Age-adjusted hospitalization rates for unintentional falls increased by 7 percent from 2004 to 2008, from 420.9 to 451.0 hospitalizations per 100,000 population.
- Females showed significantly higher age-adjusted falls hospitalization rates than males over 2004 to 2008 (rates were 465.7 and 414.5, respectively, in 2008).
- White females showed significantly higher age-adjusted falls hospitalization rates than black females over 2004 to 2008 (rates were 451.6 and 375.2, respectively, in 2008).

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### ***Demographic Trends***

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- Males showed significantly higher falls hospitalization rates for ages less than 55, while females showed significantly higher rates for ages 60 and older.
- Among males, blacks showed higher falls hospitalization rates for ages less than 75, while whites showed significantly higher rates for ages 75 and older.
- Among females, blacks showed higher falls hospitalization rates for ages less than 65, while whites showed significantly higher rates for ages 70 and older.

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### ***Regional Trends***

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- Unintentional falls accounted for nearly half of all injury hospitalizations in most counties.
- The Northeast Health District showed the highest age-specific falls hospitalization rates, while the South Central Health District showed the lowest rates.
- Fourteen counties showed age-adjusted falls hospitalization rates for 2008 that were significantly higher than the comparable state rate.

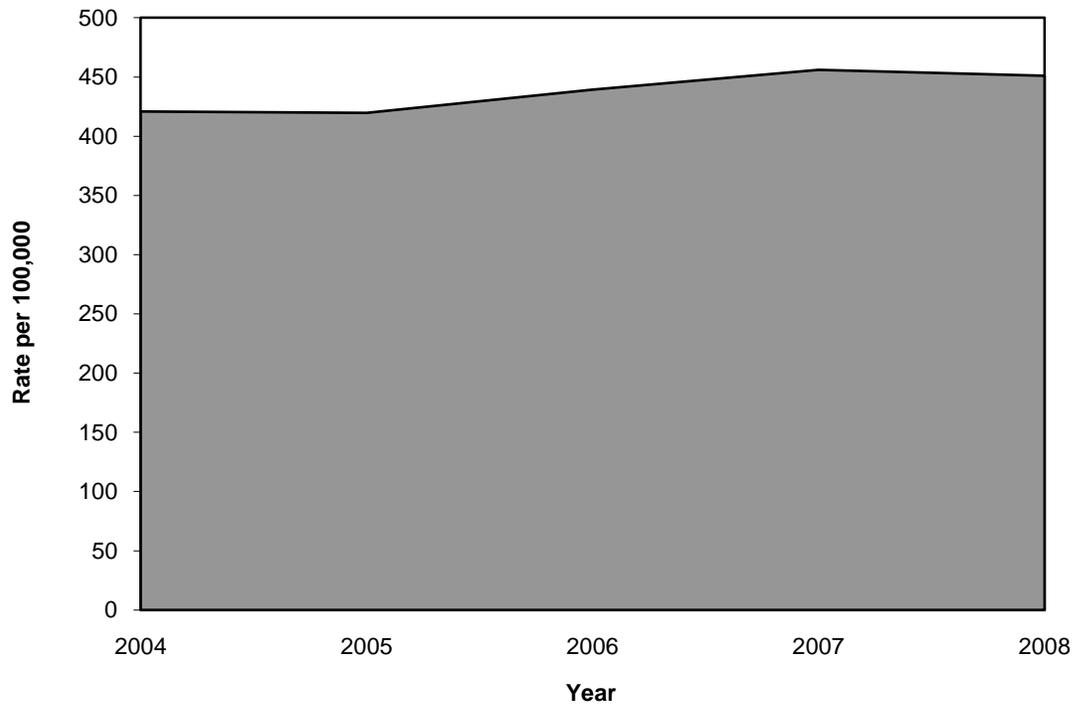
# INJURY HOSPITALIZATIONS: UNINT. FALLS

## TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, 2004-2008

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Year	No.	Rate
2004	62,056	420.9
2005	62,680	419.7
2006	63,311	439.3
2007	66,640	456.0
2008	68,670	451.0

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## AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2004-2008

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Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2004	419.2	344.5	408.5	435.7	350.0	456.1
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

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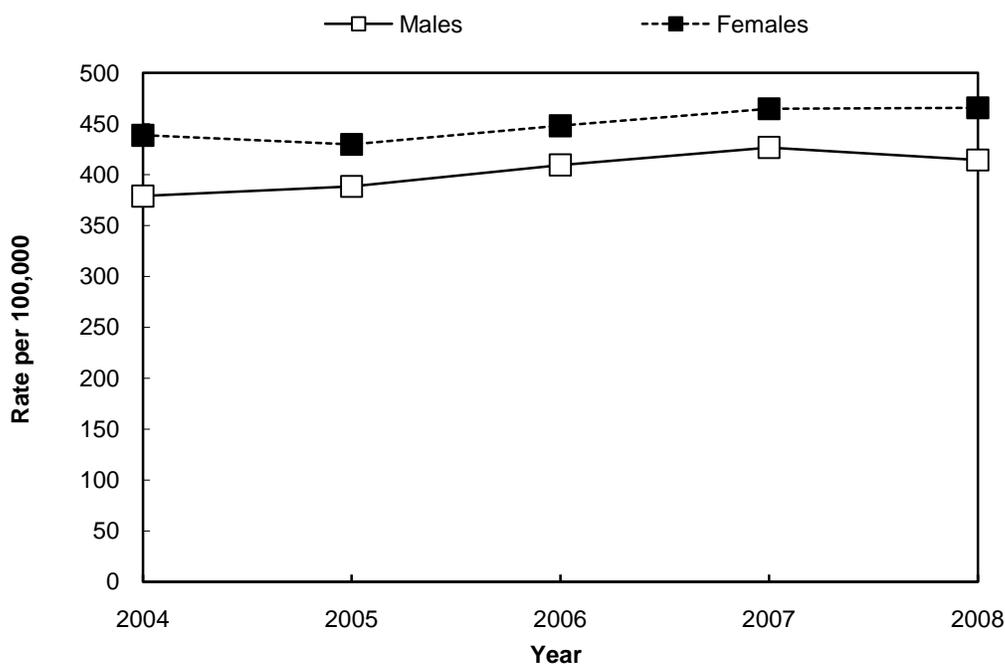
NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2004-2008 based on ICD-9-CM codes. See Technical Notes.

## INJURY HOSPITALIZATIONS: UNINT. FALLS

### TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX PENNSYLVANIA RESIDENTS, 2004-2008

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2004	22,228	379.1 *	2004	39,824	438.8
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

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



### AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2004-2008

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2004	390.7	349.8 *	2004	443.8	425.0 *
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 *

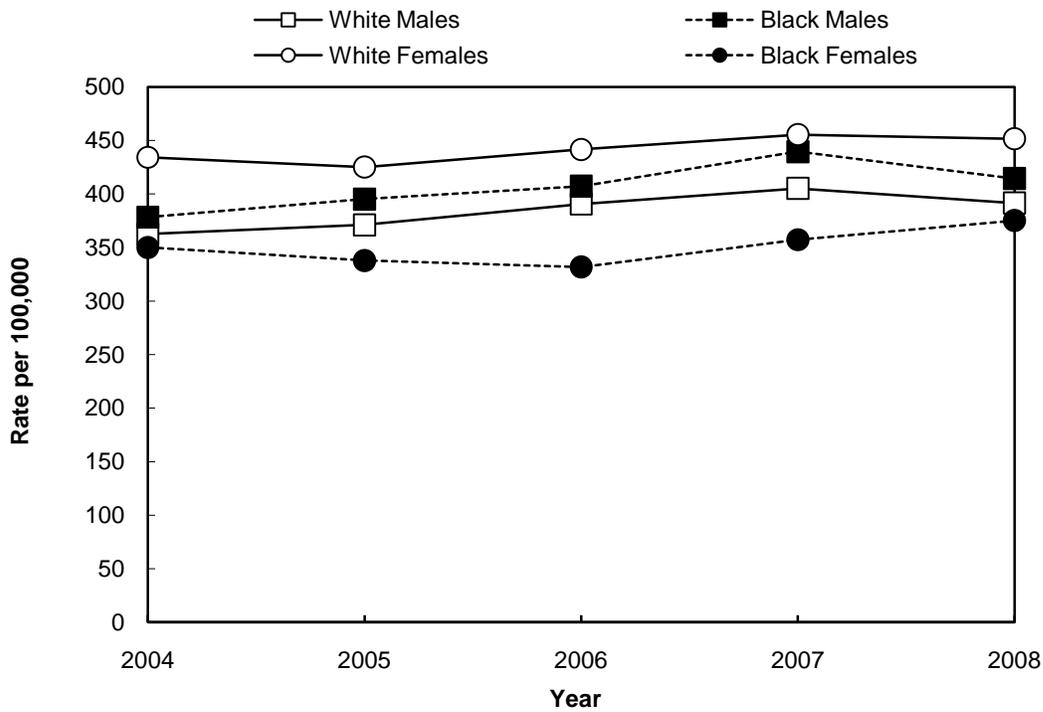
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

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, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	19,276	1,806	36,394	2,277	537	668
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



### AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	362.5	378.4	434.2	350.0 *	425.7	588.8
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

\* 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, 2008

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
<b>TOTAL</b>	<b>68,670</b>	<b>551.6</b>	<b>25,417</b>	<b>420.1</b>	<b>43,242</b>	<b>675.9</b>		<b>50,293</b>	<b>557.4</b>	<b>18,377</b>	<b>536.4</b>	
< 5	639	86.7	383	101.5	256	71.1	*	520	94.1	119	64.5	*
5-9	476	63.0	284	73.5	192	52.0	*	370	66.1	106	54.2	
10-14	506	63.4	346	84.8	160	41.0	*	386	65.7	120	56.9	
15-19	631	68.4	443	95.4	188	41.0	*	462	69.7	169	65.1	
20-24	666	75.1	413	91.7	253	58.0	*	515	81.1	151	60.1	*
25-29	741	100.3	457	120.9	284	78.7	*	587	106.3	154	82.3	*
30-34	762	102.3	428	113.8	334	90.5	*	604	110.1	158	80.5	*
35-39	1,027	128.1	606	151.6	421	104.6	*	791	134.5	236	110.3	*
40-44	1,481	169.2	879	202.7	601	136.1	*	1,097	171.6	384	162.9	
45-49	2,266	248.0	1,291	286.5	975	210.6	*	1,741	262.2	525	210.2	*
50-54	2,941	331.3	1,509	347.1	1,432	316.1	*	2,208	344.4	733	297.1	*
55-59	3,348	417.9	1,632	420.7	1,715	415.0		2,474	432.2	874	382.1	*
60-64	3,628	538.2	1,626	506.3	2,002	567.2	*	2,651	557.3	977	492.5	*
65-69	4,058	765.3	1,658	681.0	2,399	836.5	*	2,864	777.2	1,194	738.2	
70-74	5,121	1,155.8	1,923	992.2	3,197	1,282.7	*	3,694	1,195.4	1,427	1,064.6	*
75-79	8,106	2,195.9	2,770	1,841.5	5,335	2,439.1	*	5,845	2,256.8	2,261	2,052.5	*
80-84	11,868	4,176.5	3,607	3,365.7	8,258	4,665.7	*	8,597	4,244.0	3,271	4,008.8	*
85 +	20,405	7,185.3	5,162	5,877.1	15,240	7,769.6	*	14,887	7,305.3	5,518	6,880.6	*

\* 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. 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, 2008

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>21,661</b>	<b>416.9</b>	<b>2,088</b>	<b>328.9</b>	<b>38,463</b>	<b>703.1</b>	<b>2,585</b>	<b>368.2</b>	<b>1,331</b>	<b>224.1</b>
< 5	229	75.0	76	146.8	147	50.6	58	115.0	70	103.0
5-9	194	61.7	51	99.1	137	45.8	30	60.3	41	67.9
10-14	249	74.6	59	106.6	116	36.4	30	56.1	22	39.3
15-19	341	89.1	63	102.1	134	35.4	31	51.4	26	44.1
20-24	308	83.2	63	103.8	175	49.0	53	89.0	45	85.3
25-29	343	110.5	71	138.3	198	67.4	54	106.5	37	76.0
30-34	306	97.5	63	142.8	233	76.5	70	151.7	53	116.1
35-39	450	132.3	92	218.5	324	95.8	63	136.0	50	111.5
40-44	686	182.6	101	239.4	476	126.1	90	187.9	62	158.0
45-49	990	249.4	205	502.5	755	188.0	138	290.4	75	219.5
50-54	1,198	308.7	197	552.3	1,176	295.7	166	382.9	88	349.6
55-59	1,298	370.8	214	745.4	1,417	387.0	190	517.3	79	404.1
60-64	1,327	454.3	173	796.5	1,697	537.6	178	608.7	98	733.4
65-69	1,407	629.3	145	971.4	2,086	802.6	171	799.1	79	848.3
70-74	1,660	930.3	146	1,231.4	2,849	1,256.8	191	1,028.3	89	1,341.4
75-79	2,498	1,790.7	121	1,396.7	4,823	2,403.2	266	1,743.9	117	2,439.5
80-84	3,343	3,359.1	127	2,056.7	7,562	4,647.6	318	2,603.8	108	3,458.2
85 +	4,834	5,962.2	121	2,194.8	14,158	7,834.2	488	3,733.5	192	5,757.1

\* 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, 2008

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>5,269</b>	<b>569.3</b>	<b>2,873</b>	<b>423.3</b>	<b>9,499</b>	<b>606.9</b>	<b>26,410</b>	<b>534.0</b>	<b>6,846</b>	<b>419.0</b>	<b>17,773</b>	<b>658.3</b>
< 5	44	85.9	23	65.3	88	101.2	355	110.5 +	58	58.4 -	71	49.6 -
5-9	24	44.2	20	55.8	76	83.7 +	240	74.5 +	39	38.8 -	77	50.8
10-14	33	56.0	13	33.9 -	75	74.9	247	74.1 +	34	32.3 -	104	64.0
15-19	46	65.6	28	44.3 -	103	89.0 +	279	75.7	53	46.1 -	122	64.2
20-24	47	73.7	33	45.7 -	77	70.3	318	89.4 +	60	56.3 -	131	73.4
25-29	44	84.8	27	76.9	79	87.3	362	115.5 +	60	61.4 -	169	112.3
30-34	52	96.6	22	58.6 -	103	113.9	348	112.9	70	70.5 -	167	107.2
35-39	72	125.8	41	102.0	148	149.4	449	136.4	95	88.6 -	222	131.3
40-44	91	144.7	49	111.3 -	213	194.5 +	618	174.5	149	127.5 -	361	192.5 +
45-49	153	227.7	70	151.6 -	287	249.5	1,004	277.6 +	193	159.1 -	559	276.5 +
50-54	213	321.6	99	217.4 -	347	307.2	1,263	368.6 +	283	240.3 -	736	363.2 +
55-59	271	445.9	137	326.4 -	434	417.4	1,381	458.4 +	318	294.1 -	807	436.1
60-64	257	489.6	135	372.1 -	488	537.0	1,442	582.1 +	378	416.3 -	928	595.1 +
65-69	362	847.4	221	716.3	580	808.3	1,489	782.6	402	552.2 -	1,004	824.0 +
70-74	442	1,212.5	223	871.8 -	735	1,255.4 +	1,863	1,179.6	558	946.1 -	1,300	1,231.6 +
75-79	651	2,130.5	367	1,768.0 -	1,138	2,389.0 +	2,928	2,230.3	840	1,768.3 -	2,182	2,387.0 +
80-84	968	4,193.6	512	3,357.2 -	1,656	4,607.2 +	4,200	4,094.7	1,253	3,640.5 -	3,279	4,498.3 +
85 +	1,499	6,857.9	853	5,859.7 -	2,872	8,055.0 +	7,624	7,358.1 +	2,003	5,816.8 -	5,554	7,519.4 +

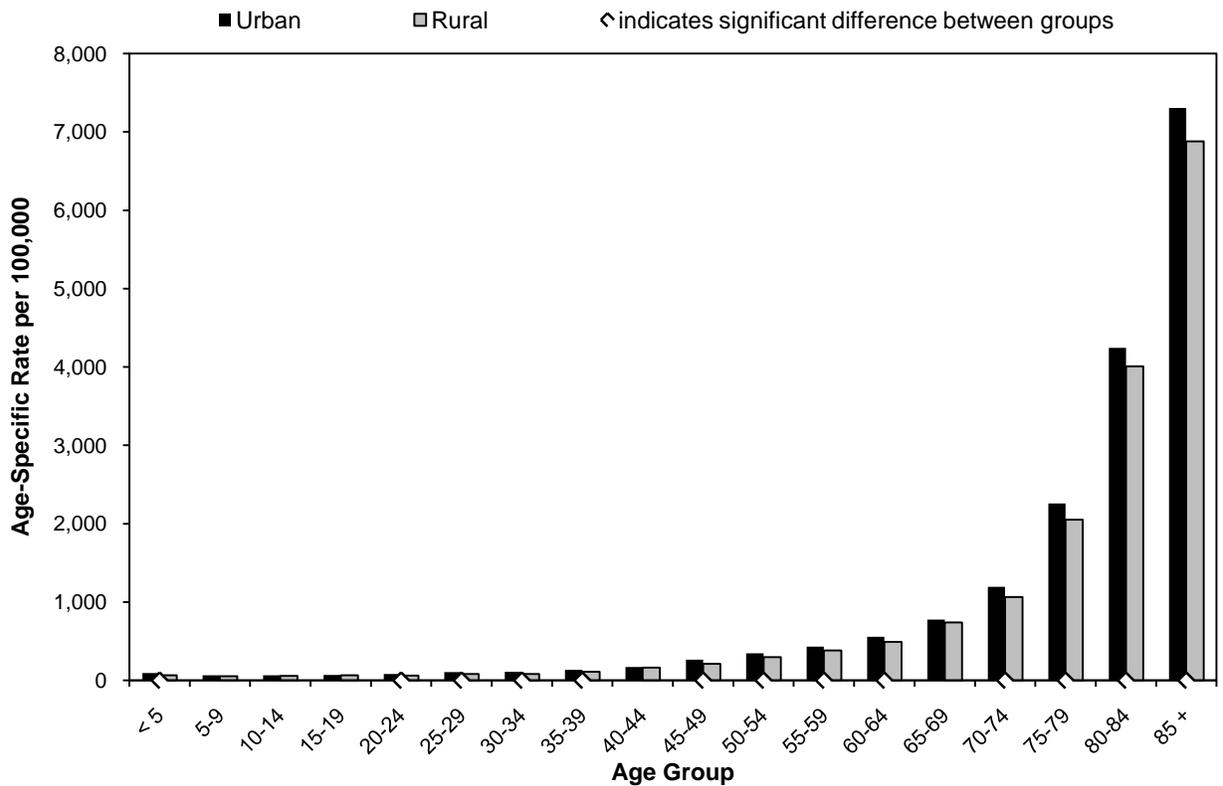
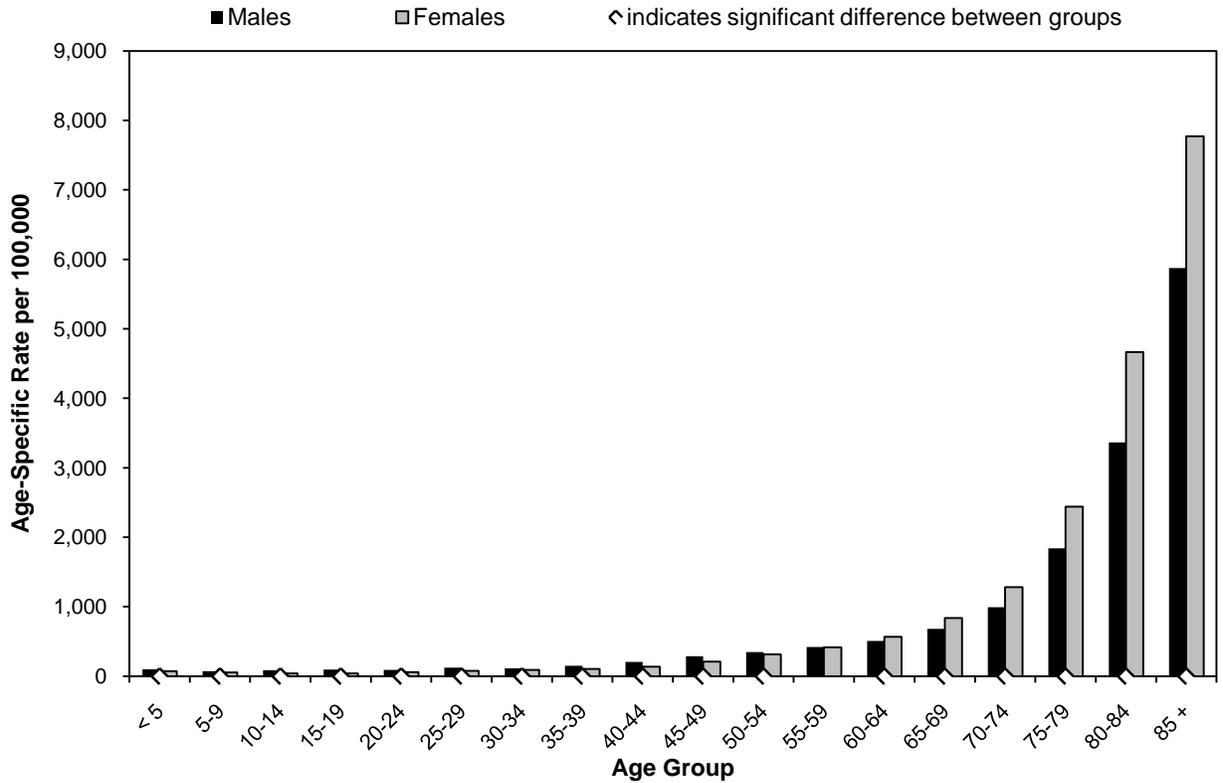
*+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.*

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.

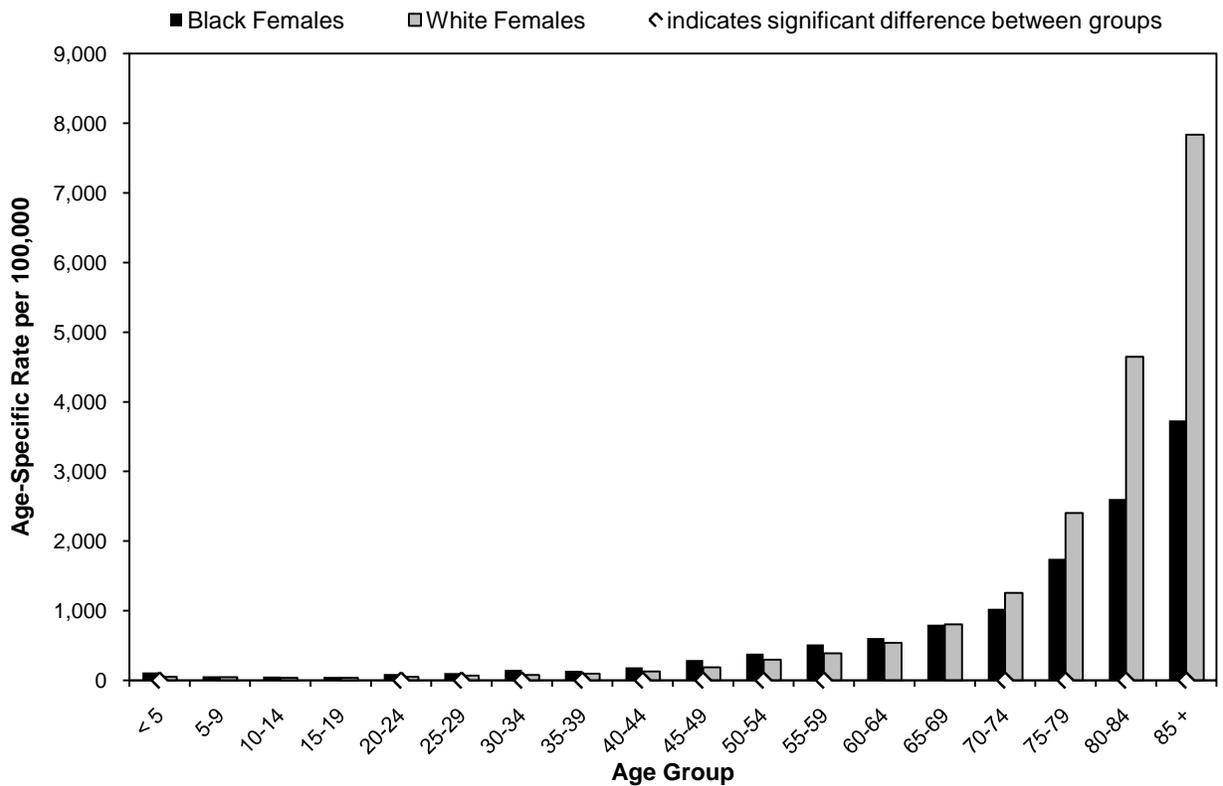
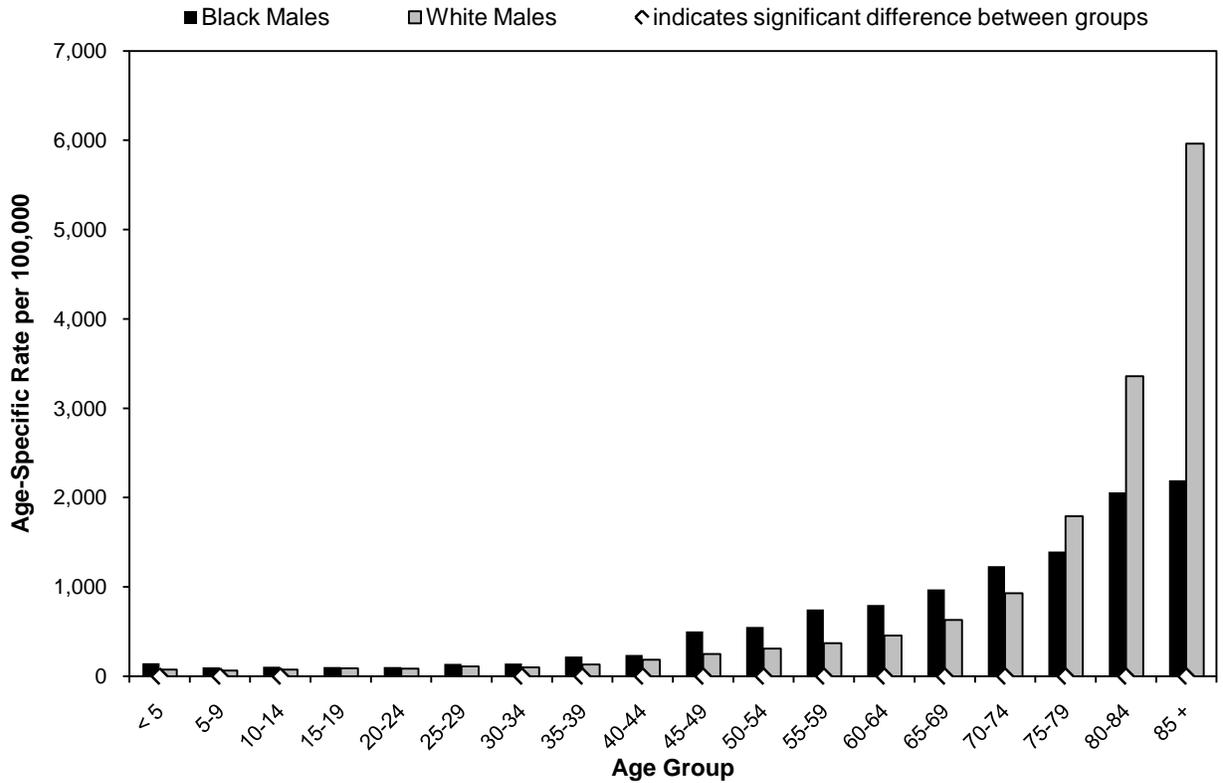
# INJURY HOSPITALIZATIONS: UNINT. FALLS

## AGE-SPECIFIC HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS PENNSYLVANIA RESIDENTS, 2008



# INJURY HOSPITALIZATIONS: UNINT. FALLS

## AGE-SPECIFIC HOSPITALIZATION RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2008



## INJURY HOSPITALIZATIONS: UNINT. FALLS

### NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2008

District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
<b>Northeast</b>	9,499	488.9	479.0-498.7 +	<b>Southeast</b>	26,410	470.2	464.6-475.9 +
Carbon	443	554.3	502.7-606.0 +	Berks	1,986	432.2	413.2-451.2
Lackawanna	1,538	528.4	502.0-554.8 +	Bucks	3,039	445.9	430.1-461.8
Lehigh	1,947	482.7	461.3-504.2 +	Chester	1,995	417.4	399.1-435.7 -
Luzerne	2,023	455.8	435.9-475.7	Delaware	3,819	581.4	563.0-599.8 +
Monroe	663	435.1	401.9-468.2	Lancaster	2,241	387.3	371.3-403.3 -
Northampton	2,056	593.7	568.1-619.4 +	Montgomery	4,215	450.8	437.2-464.4
Pike	118	173.3	142.0-204.5 -	Philadelphia	8,054	516.9	505.6-528.2 +
Susquehanna	230	430.7	375.1-486.4	Schuylkill	1,061	504.3	473.9-534.6 +
Wayne	300	424.1	376.1-472.1				
Wyoming	181	589.1	503.3-674.9 +				
<b>North Central</b>	2,873	349.3	336.5-362.1 -	<b>South Central</b>	6,846	351.7	343.3-360.0 -
Bradford	290	375.2	332.0-418.4 -	Adams	323	290.8	259.1-322.5 -
Centre	516	407.5	372.3-442.7 -	Bedford	183	280.3	239.7-320.9 -
Clinton	153	319.9	269.2-370.6 -	Blair	683	409.8	379.1-440.5 -
Columbia	299	374.8	332.3-417.3 -	Cumberland	1,049	380.2	357.2-403.3 -
Lycoming	528	357.2	326.7-387.6 -	Dauphin	1,057	362.6	340.8-384.5 -
Montour	88	381.2	301.5-460.8	Franklin	644	344.3	317.7-370.9 -
Northumberland	495	374.2	341.2-407.2 -	Fulton	75	402.8	311.7-494.0
Potter	64	279.9	211.3-348.5 -	Huntingdon	165	310.1	262.8-357.4 -
Snyder	120	278.9	229.0-328.8 -	Juniata	95	318.6	254.5-382.6 -
Sullivan	41	400.9	278.2-523.6	Lebanon	454	275.6	250.3-301.0 -
Tioga	127	232.4	192.0-272.9 -	Mifflin	236	391.9	341.9-441.9 -
Union	152	310.8	261.3-360.2 -	Perry	137	301.4	251.0-351.9 -
				York	1,745	370.4	353.0-387.8 -
<b>Northwest</b>	5,269	440.6	428.8-452.5	<b>Southwest</b>	17,773	478.1	471.1-485.2 +
Cameron	41	486.5	337.6-635.4	Allegheny	8,399	503.6	492.8-514.4 +
Clarion	203	404.5	348.9-460.2	Armstrong	436	452.8	410.3-495.3
Clearfield	447	413.0	374.7-451.3	Beaver	967	392.3	367.6-417.0 -
Crawford	513	467.4	427.0-507.9	Butler	1,034	472.0	443.2-500.8
Elk	227	485.1	422.0-548.2	Cambria	1,021	474.2	445.1-503.3
Erie	1,231	385.2	363.7-406.7 -	Fayette	884	438.0	409.1-466.9
Forest	36	472.0	317.8-626.2	Greene	158	324.6	274.0-375.3 -
Jefferson	288	469.9	415.6-524.2	Indiana	556	507.6	465.4-549.8 +
Lawrence	673	502.9	464.9-540.9 +	Somerset	489	422.2	384.8-459.7
McKean	255	438.4	384.6-492.2	Washington	1,351	494.9	468.5-521.2 +
Mercer	876	539.9	504.1-575.6 +	Westmoreland	2,478	482.4	463.4-501.4 +
Venango	301	420.0	372.6-467.5				
Warren	178	320.1	273.1-367.1 -	<b>Pennsylvania</b>	<b>68,670</b>	<b>451.0</b>	<b>447.7-454.4</b>

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

### TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2008

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	25,417	43,242	<b>68,670</b>	2,252	70.1	2,169	91.5	4,774	184.3	9,917	419.7	49,558	2,593.9
<b>Northeast</b>	3,474	6,021	<b>9,499</b>	342	86.9	259	89.2	648	200.2	1,269	412.3	6,981	2,797.6
Carbon	173	270	443	14	101.0	7	NA	35	266.2	67	507.7	320	2,948.0
Lackawanna	499	1,039	1,538	46	91.1	46	115.5	94	227.4	197	491.8	1,155	3,065.4
Lehigh	762	1,185	1,947	68	75.9	60	93.3	135	193.9	241	374.2	1,443	2,775.9
Luzerne	672	1,347	2,023	37	51.7	54	93.1	121	187.5	301	492.9	1,510	2,655.3
Monroe	286	377	663	44	95.6	22	72.8	71	193.0	107	331.9	419	2,116.6
Northampton	780	1,276	2,056	97	122.3	59	105.7	135	222.1	224	401.4	1,541	3,582.3
Pike	50	68	118	11	78.3	3	NA	10	75.3	29	211.2	65	725.9
Susquehanna	84	146	230	9	NA	1	NA	12	147.4	17	181.7	191	2,841.8
Wayne	112	188	300	10	89.1	6	NA	23	223.1	57	462.5	204	2,143.8
Wyoming	56	125	181	6	NA	1	NA	12	212.3	29	516.9	133	3,207.9
<b>Southeast</b>	10,114	16,296	<b>26,410</b>	1,121	83.3	1,028	105.2	2,071	198.1	4,086	458.3	18,104	2,640.3
Berks	814	1,172	1,986	74	65.4	65	87.0	152	178.7	294	402.1	1,401	2,437.5
Bucks	1,160	1,879	3,039	126	78.6	94	90.5	211	145.8	451	357.2	2,157	2,495.6
Chester	720	1,275	1,995	76	55.0	59	65.6	142	128.3	314	342.6	1,404	2,297.0
Delaware	1,432	2,387	3,819	130	86.9	139	129.8	286	247.6	549	532.3	2,715	3,466.6
Lancaster	810	1,431	2,241	114	79.7	85	88.4	134	133.4	257	288.9	1,651	2,235.6
Montgomery	1,498	2,717	4,215	134	66.9	113	80.3	246	141.4	569	386.4	3,153	2,722.4
Philadelphia	3,293	4,761	8,054	442	108.1	452	133.9	834	295.7	1,488	638.7	4,838	2,601.6
Schuylkill	387	674	1,061	25	77.4	21	77.0	66	201.5	164	580.4	785	2,940.5

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	25,417	43,242	<b>68,670</b>	2,252	70.1	2,169	91.5	4,774	184.3	9,917	419.7	49,558	2,593.9
<b>North Central</b>	1,032	1,834	<b>2,873</b>	84	48.7	82	56.6	160	122.7	371	299.7	2,176	2,033.7
Bradford	109	181	290	5	NA	11	106.4	23	182.5	46	378.6	205	1,944.6
Centre	176	340	516	15	38.8	19	43.3	30	123.2	72	336.3	380	2,302.2
Clinton	56	95	153	2	NA	9	NA	4	NA	16	237.2	122	1,940.8
Columbia	114	184	299	7	NA	9	NA	20	173.0	47	401.7	216	2,036.6
Lycoming	192	335	528	18	63.1	12	53.3	30	127.2	48	211.2	420	2,172.5
Montour	24	63	88	3	NA	4	NA	6	NA	12	321.9	63	1,931.9
Northumberland	172	321	495	13	61.3	11	73.2	23	120.0	57	306.3	391	2,285.9
Potter	25	39	64	2	NA	0	NA	5	NA	7	NA	50	1,636.7
Snyder	41	79	120	6	NA	3	NA	8	NA	17	246.9	86	1,613.8
Sullivan	18	23	41	2	NA	0	NA	1	NA	8	NA	30	2,045.0
Tioga	45	82	127	5	NA	3	NA	7	NA	23	289.5	89	1,233.0
Union	60	92	152	6	NA	1	NA	3	NA	18	247.8	124	1,971.7
<b>South Central</b>	2,466	4,380	<b>6,846</b>	184	43.8	190	62.6	437	126.5	979	309.1	5,056	2,037.6
Adams	110	213	323	13	48.1	5	NA	22	102.5	37	192.7	246	1,686.2
Bedford	65	118	183	2	NA	4	NA	17	162.4	24	241.4	136	1,544.2
Blair	243	440	683	11	35.5	12	53.1	45	179.8	105	420.8	510	2,356.0
Cumberland	384	665	1,049	27	46.4	27	57.6	51	110.2	161	377.8	783	2,210.5
Dauphin	377	680	1,057	30	44.9	42	91.3	79	139.4	172	331.8	734	2,088.7
Franklin	231	413	644	20	52.9	11	41.9	29	102.4	83	307.7	501	2,073.9
Fulton	20	55	75	1	NA	4	NA	3	NA	13	437.7	54	2,163.5
Huntingdon	65	100	165	3	NA	8	NA	12	123.2	15	170.4	127	1,745.2
Juniata	31	64	95	2	NA	1	NA	5	NA	10	224.7	77	1,932.2
Lebanon	167	287	454	14	43.3	9	NA	26	102.3	60	244.1	345	1,601.8
Mifflin	92	144	236	7	NA	6	NA	13	142.4	40	458.6	170	2,019.5
Perry	47	90	137	12	98.9	5	NA	12	122.1	24	256.8	84	1,434.4
York	634	1,111	1,745	42	38.1	56	71.8	123	129.0	235	285.5	1,289	2,192.1

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	25,417	43,242	<b>68,670</b>	2,252	70.1	2,169	91.5	4,774	184.3	9,917	419.7	49,558	2,593.9
<b>Northwest</b>	1,914	3,355	<b>5,269</b>	147	62.7	143	84.4	316	168.7	741	412.8	3,922	2,535.7
Cameron	15	26	41	2	NA	1	NA	0	NA	7	NA	31	2,977.9
Clarion	93	110	203	6	NA	4	NA	13	177.2	23	307.1	157	2,255.4
Clearfield	177	270	447	17	94.4	13	86.6	40	216.6	71	425.6	306	2,077.4
Crawford	182	331	513	7	NA	20	128.4	28	162.7	86	488.7	372	2,579.9
Elk	89	138	227	6	NA	5	NA	13	182.3	26	399.0	177	2,953.4
Erie	442	789	1,231	44	59.0	45	78.8	85	151.2	182	357.2	875	2,173.5
Forest	18	18	36	3	NA	0	NA	5	NA	8	NA	20	1,742.2
Jefferson	108	180	288	7	NA	6	NA	20	220.5	30	331.7	225	2,705.3
Lawrence	224	449	673	13	57.4	14	92.8	27	149.7	87	488.4	532	3,191.9
McKean	95	160	255	7	NA	1	NA	12	128.9	31	386.6	204	2,744.9
Mercer	298	578	876	23	76.4	23	114.9	43	186.7	117	515.6	670	3,222.7
Venango	107	194	301	9	NA	7	NA	21	191.5	44	382.5	220	2,319.9
Warren	66	112	178	3	NA	4	NA	9	NA	29	330.0	133	1,789.6
<b>Southwest</b>	6,417	11,356	<b>17,773</b>	374	57.8	467	96.4	1,142	204.4	2,471	454.5	13,319	2,860.8
Allegheny	3,016	5,383	8,399	164	55.8	232	102.7	564	224.9	1,171	488.3	6,268	3,061.9
Armstrong	157	279	436	11	65.0	12	113.7	21	147.5	62	437.7	330	2,555.6
Beaver	344	623	967	27	67.2	21	73.0	58	162.1	148	410.1	713	2,250.8
Butler	386	648	1,034	24	49.3	35	108.5	74	186.4	144	405.7	757	2,827.7
Cambria	352	669	1,021	20	60.4	22	86.1	51	173.7	140	476.2	788	2,927.2
Fayette	328	556	884	19	56.2	22	91.0	56	185.8	140	459.9	647	2,550.8
Greene	50	108	158	4	NA	6	NA	10	118.5	18	217.7	120	1,998.7
Indiana	187	369	556	11	48.1	16	87.6	37	233.3	77	470.2	415	2,935.4
Somerset	188	301	489	9	NA	12	85.9	24	144.1	66	428.3	378	2,577.4
Washington	491	860	1,351	39	78.3	41	109.7	94	225.2	186	444.7	991	2,780.0
Westmoreland	918	1,560	2,478	46	55.8	48	80.0	153	201.0	319	417.8	1,912	2,863.9

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 HOSPITALIZATIONS: UNINT. FALLS

**NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI),  
BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2008**

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	664	425.8	393.4-458.2	Allegheny	7,509	501.9	490.5-513.2 +	Berks	95	343.3	274.3-412.4
Chester	70	258.7	198.1-319.3 -	Chester	1,859	426.0	406.7-445.4	Lancaster	11	NA	
Dauphin	121	319.2	262.3-376.1 -	Dauphin	900	358.3	334.9-381.8 -	Lehigh	83	324.0	254.3-393.8 -
Delaware	327	391.9	349.4-434.4	Delaware	3,368	600.8	580.5-621.0 +	Philadelphia	400	375.9	339.0-412.7
Montgomery	191	339.5	291.4-387.7	Montgomery	3,712	440.2	426.0-454.3				
Philadelphia	2,774	446.8	430.1-463.4 +	Philadelphia	4,538	510.7	495.9-525.6 +				
Pennsylvania	4,673	398.8	387.4-410.3	Pennsylvania	60,135	432.5	429.0-435.9	Pennsylvania	1,331	433.2	409.9-456.4

**NUMBER FOR SELECT AGE GROUPS AND AGE-SPECIFIC HOSPITALIZATION RATES  
BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2008**

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	13.5%	310	354	<b>664</b>	7.9%	46	83.6	46	128.8	93	304.2	171	694.4	308	1,693.4
	White	82.8%	2,603	4,906	<b>7,509</b>	89.4%	108	48.4	175	98.5	447	211.8	956	454.3	5,823	3,168.8
Chester	Black	6.2%	30	40	<b>70</b>	3.5%	11	110.6	0	NA	10	170.2	14	316.2	35	1,091.4
	White	89.5%	661	1,198	<b>1,859</b>	93.2%	59	48.7	55	70.1	123	124.3	290	342.0	1,332	2,352.2
Dauphin	Black	17.9%	55	66	<b>121</b>	11.4%	6	NA	13	137.5	23	238.8	32	448.0	47	1,206.1
	White	77.2%	307	593	<b>900</b>	85.1%	19	41.3	26	76.2	51	115.1	134	310.9	670	2,190.3
Delaware	Black	18.8%	141	186	<b>327</b>	8.6%	29	84.8	37	141.2	53	242.3	74	531.8	134	1,693.2
	White	75.4%	1,237	2,131	<b>3,368</b>	88.2%	92	88.0	96	129.5	217	252.3	452	533.5	2,511	3,675.5
Montgomery	Black	8.9%	74	117	<b>191</b>	4.5%	12	60.3	10	63.2	21	128.2	36	325.0	112	1,768.8
	White	84.0%	1,317	2,395	<b>3,712</b>	88.1%	100	61.4	95	84.0	204	142.2	476	370.3	2,837	2,685.5
Philadelphia	Black	45.6%	1,240	1,534	<b>2,774</b>	34.4%	228	107.1	209	142.3	412	322.3	661	649.4	1,264	1,793.3
	White	46.9%	1,681	2,857	<b>4,538</b>	56.3%	97	60.2	165	104.0	326	244.0	675	577.6	3,275	3,029.7
Pennsylvania	Black	10.7%	2,088	2,585	<b>4,673</b>	6.8%	398	91.6	374	119.6	689	258.2	1,118	572.1	2,094	1,640.5
	White	85.7%	21,661	38,463	<b>60,135</b>	87.6%	1,547	59.0	1,563	80.1	3,682	165.1	8,114	384.6	45,229	2,580.3

## INJURY HOSPITALIZATIONS: ALL POISONING

In 2008, among Pennsylvania residents, there were 17,221 hospitalizations due to poisoning. On average, one resident was hospitalized every 30 minutes.

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### ***Injury Definition***

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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 **increasing** over 2004 to 2008.*
- *Most common demographic is **white females** ages 20 to 54.*
- *Of all Pennsylvania counties, **Philadelphia** shows the highest rate.*

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### ***Trends Over Time***

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- There was a net 10 percent increase in age-adjusted poisoning rate from 2004 to 2008.
- Age-adjusted hospitalization rates for poisoning increased from 2004 to 2006, from 124.7 to 142.4 hospitalizations per 100,000 population. Rates then decreased slightly from 2006 to 2008 to 137.8 hospitalizations per 100,000 population.
- Females generally showed higher age-adjusted poisoning hospitalization rates than males over 2004 to 2008 (rates were 142.2 and 133.8, respectively, in 2008).
- Black males and females showed significantly higher age-adjusted poisoning hospitalization rates than white males and females over 2004 to 2008.

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### ***Demographic Trends***

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- Among ages 10 to 29, females showed significantly higher poisoning hospitalization rates than males.
- Among ages 30 to 74, black males and females showed significantly higher poisoning hospitalization rates than white males and females.

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### ***Regional Trends***

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- The Southeast Health District showed the highest age-specific poisoning hospitalization rates, while the South Central Health District showed the lowest rates.
- Eight counties showed age-adjusted poisoning hospitalization rates for 2008 that were significantly higher than the comparable state rate: Bradford, Cambria, Carbon, Delaware, Lawrence, Northampton, Philadelphia and Schuylkill counties.

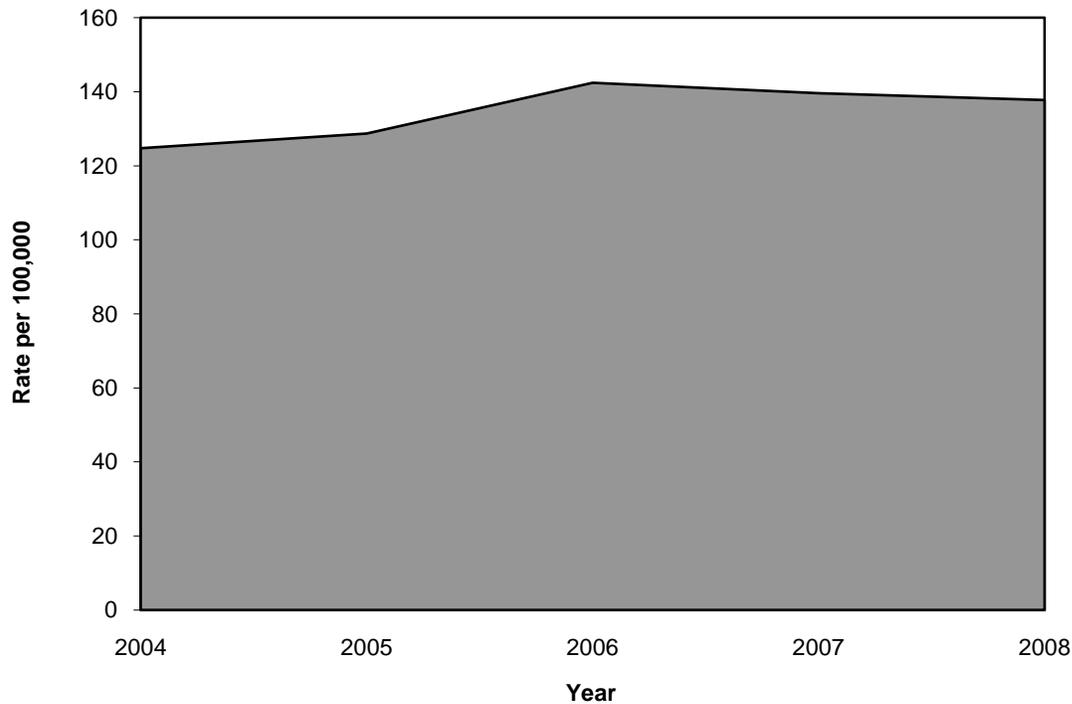
## INJURY HOSPITALIZATIONS: ALL POISONING

### TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, 2004-2008

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Year	No.	Rate
2004	15,375	124.7
2005	15,874	128.7
2006	17,579	142.4
2007	17,313	139.6
2008	17,221	137.8

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### AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2004-2008

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Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2004	138.1	89.9	120.0	147.9	92.0	110.3
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

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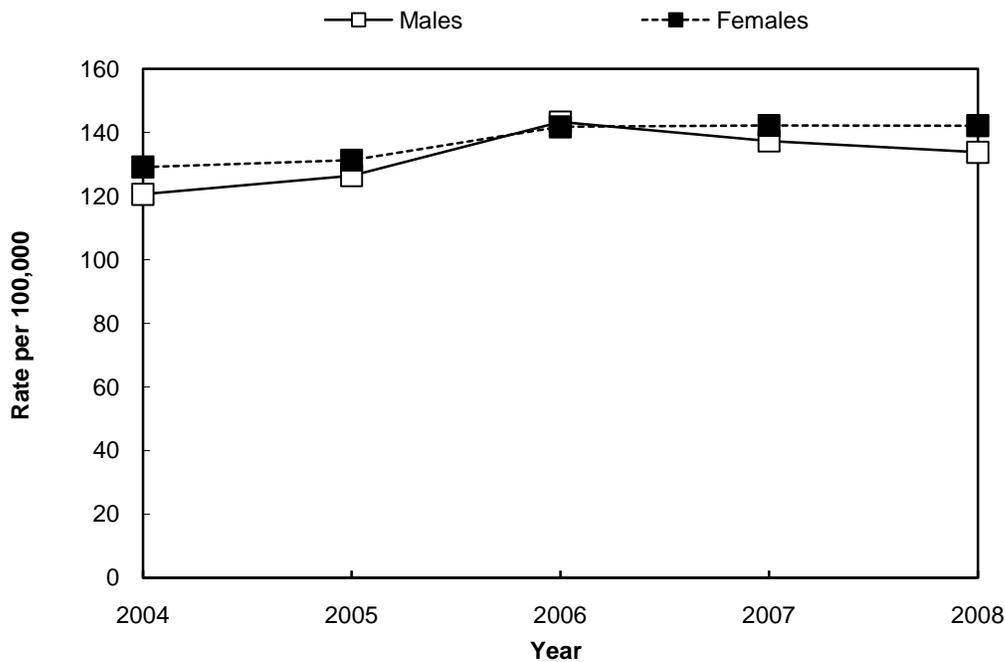
NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2004-2008 based on ICD-9-CM codes. See Technical Notes.

## INJURY HOSPITALIZATIONS: ALL POISONING

### TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX PENNSYLVANIA RESIDENTS, 2004-2008

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2004	7,236	120.6 *	2004	8,139	129.2
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

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



### AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2004-2008

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2004	130.2	95.9 *	2004	130.7	125.4
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

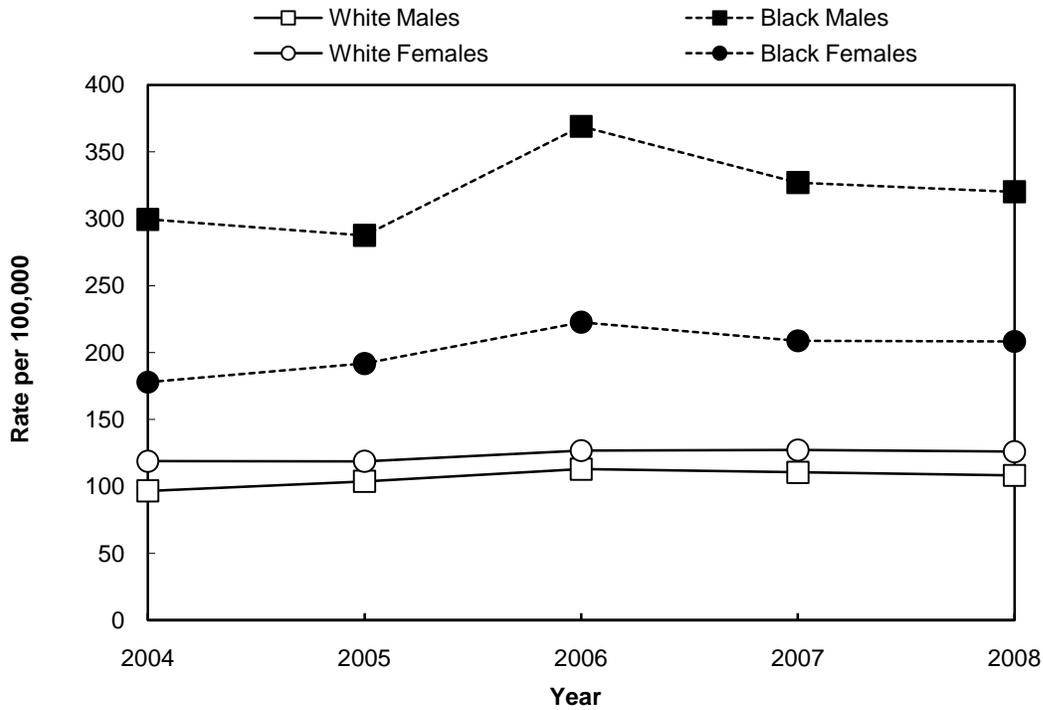
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

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, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	5,046	1,703	6,470	1,178	374	322
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



### AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	96.7	299.5 *	118.9	177.9 *	173.9	142.8
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

\* 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, 2008

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
<b>TOTAL</b>	<b>17,221</b>	<b>138.3</b>	<b>8,171</b>	<b>135.0</b>	<b>9,047</b>	<b>141.4</b>		<b>13,082</b>	<b>145.0</b>	<b>4,139</b>	<b>120.8</b>	
< 5	294	39.9	168	44.5	126	35.0		234	42.3	60	32.5	
5-9	53	7.0	29	7.5	24	6.5		42	7.5	11	5.6	
10-14	143	17.9	37	9.1	106	27.1	*	102	17.4	41	19.4	
15-19	1,246	135.0	531	114.3	715	156.0	*	867	130.7	379	146.0	
20-24	1,524	172.0	714	158.6	809	185.6	*	1,099	173.1	425	169.2	
25-29	1,492	201.9	676	178.8	816	226.1	*	1,109	200.9	383	204.8	
30-34	1,300	174.5	633	168.4	667	180.8		947	172.6	353	179.9	
35-39	1,543	192.4	727	181.9	816	202.8	*	1,135	193.0	408	190.8	
40-44	1,908	218.0	914	210.8	993	224.9		1,520	237.7	388	164.6	*
45-49	2,116	231.6	1,050	233.0	1,066	230.2		1,660	250.0	456	182.6	*
50-54	1,797	202.4	944	217.1	853	188.3	*	1,435	223.8	362	146.7	*
55-59	1,087	135.7	566	145.9	521	126.1	*	874	152.7	213	93.1	*
60-64	731	108.4	356	110.9	374	106.0		570	119.8	161	81.2	*
65-69	488	92.0	222	91.2	266	92.8		376	102.0	112	69.2	*
70-74	377	85.1	162	83.6	215	86.3		283	91.6	94	70.1	*
75-79	402	108.9	156	103.7	246	112.5		278	107.3	124	112.6	
80-84	368	129.5	154	143.7	214	120.9		272	134.3	96	117.7	
85 +	352	124.0	132	150.3	220	112.2	*	279	136.9	73	91.0	*

\* 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. 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, 2008

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
<b>TOTAL</b>	<b>5,687</b>	<b>109.5</b>	<b>1,816</b>	<b>286.1</b>	<b>6,880</b>	<b>125.8</b>	<b>1,421</b>	<b>202.4</b>	<b>845</b>	<b>142.3</b>		
< 5	83	27.2	46	88.8	*	66	22.7	31	61.5	*	30	44.1
5-9	19	6.0	7	NA		11	3.7	7	NA		5	NA
10-14	27	8.1	7	NA		64	20.1	20	37.4	*	13	23.2
15-19	425	111.1	50	81.0	*	510	134.7	104	172.4	*	78	132.2
20-24	574	155.1	79	130.1		635	177.6	99	166.2		80	151.7
25-29	530	170.7	72	140.3		634	215.7	111	218.8		93	191.0
30-34	455	145.0	101	228.9	*	495	162.5	96	208.0	*	91	199.3
35-39	496	145.8	168	398.9	*	604	178.7	144	310.9	*	85	189.5
40-44	579	154.1	263	623.3	*	737	195.2	177	369.6	*	104	265.1
45-49	655	165.0	331	811.3	*	791	196.9	215	452.4	*	90	263.4
50-54	593	152.8	296	829.8	*	646	162.4	164	378.2	*	58	230.4
55-59	341	97.4	195	679.2	*	401	109.5	89	242.3	*	39	199.5
60-64	240	82.2	86	395.9	*	297	94.1	52	177.8	*	32	239.5
65-69	166	74.2	44	294.8	*	213	81.9	35	163.6	*	15	161.1
70-74	127	71.2	26	219.3	*	176	77.6	27	145.4	*	11	165.8
75-79	139	99.6	10	115.4		218	108.6	15	98.3		10	208.5
80-84	130	130.6	18	291.5	*	184	113.1	19	155.6		9	NA
85 +	108	133.2	17	308.4	*	198	109.6	16	122.4		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 POISONING

### TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2008

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>1,248</b>	<b>134.8</b>	<b>752</b>	<b>110.8</b>	<b>2,022</b>	<b>129.2</b>	<b>8,235</b>	<b>166.5</b>	<b>1,629</b>	<b>99.7</b>	<b>3,335</b>	<b>123.5</b>
< 5	23	44.9	13	36.9	29	33.3	167	52.0 +	23	23.1 -	39	27.3 -
5-9	3	NA	3	NA	6	NA	28	8.7	2	NA	11	7.3
10-14	13	22.1	9	NA	17	17.0	58	17.4	11	10.4	35	21.5
15-19	109	155.4	75	118.7	181	156.3 +	531	144.0	117	101.8 -	233	122.6
20-24	110	172.5	93	128.8 -	191	174.3	661	185.9 +	176	165.1	293	164.2
25-29	120	231.3	74	210.7	185	204.5	652	208.0	144	147.4 -	317	210.7
30-34	105	195.1	54	143.9	168	185.9	575	186.6	138	139.0 -	260	167.0
35-39	126	220.2	69	171.6	195	196.9	686	208.4 +	163	152.1 -	304	179.8
40-44	112	178.0 -	79	179.5	215	196.3	998	281.7 +	171	146.3 -	333	177.6 -
45-49	141	209.8	78	168.9 -	219	190.4 -	1,107	306.0 +	171	140.9 -	400	197.9 -
50-54	110	166.1 -	53	116.4 -	175	154.9 -	984	287.2 +	137	116.3 -	338	166.8 -
55-59	64	105.3 -	36	85.8 -	125	120.2	574	190.5 +	98	90.6 -	190	102.7 -
60-64	47	89.5	24	66.2 -	77	84.7 -	346	139.7 +	86	94.7	151	96.8
65-69	42	98.3	22	71.3	61	85.0	218	114.6 +	47	64.6 -	98	80.4
70-74	32	87.8	19	74.3	37	63.2	178	112.7 +	38	64.4	73	69.2
75-79	36	117.8	20	96.3	54	113.4	162	123.4	42	88.4	88	96.3
80-84	26	112.6	20	131.1	43	119.6	150	146.2	32	93.0	97	133.1
85 +	29	132.7	11	75.6	44	123.4	160	154.4 +	33	95.8	75	101.5

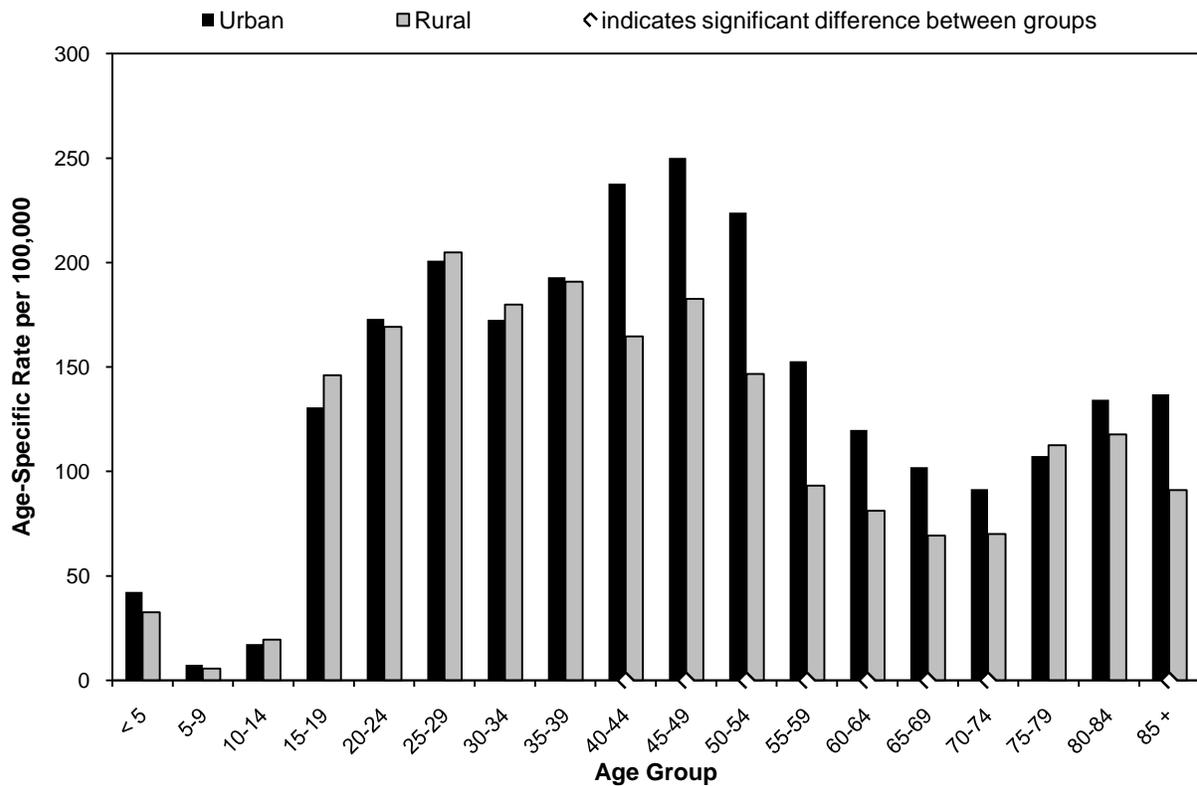
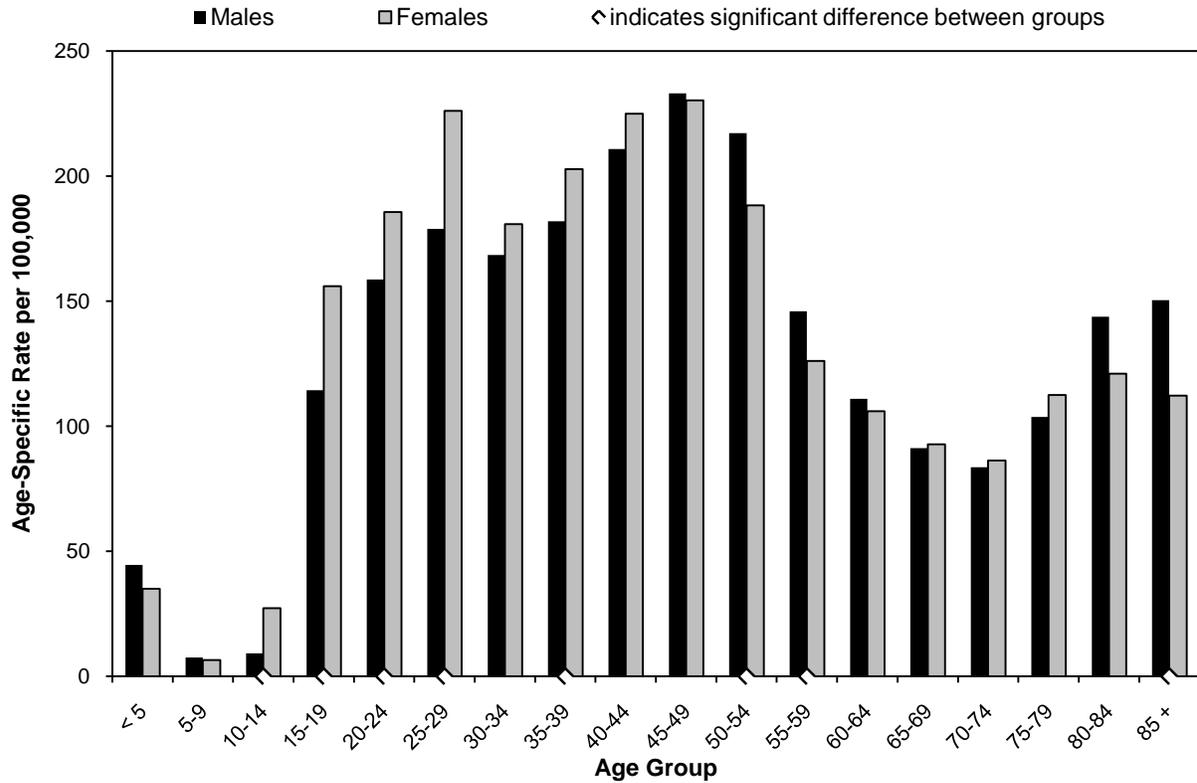
*+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.*

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.

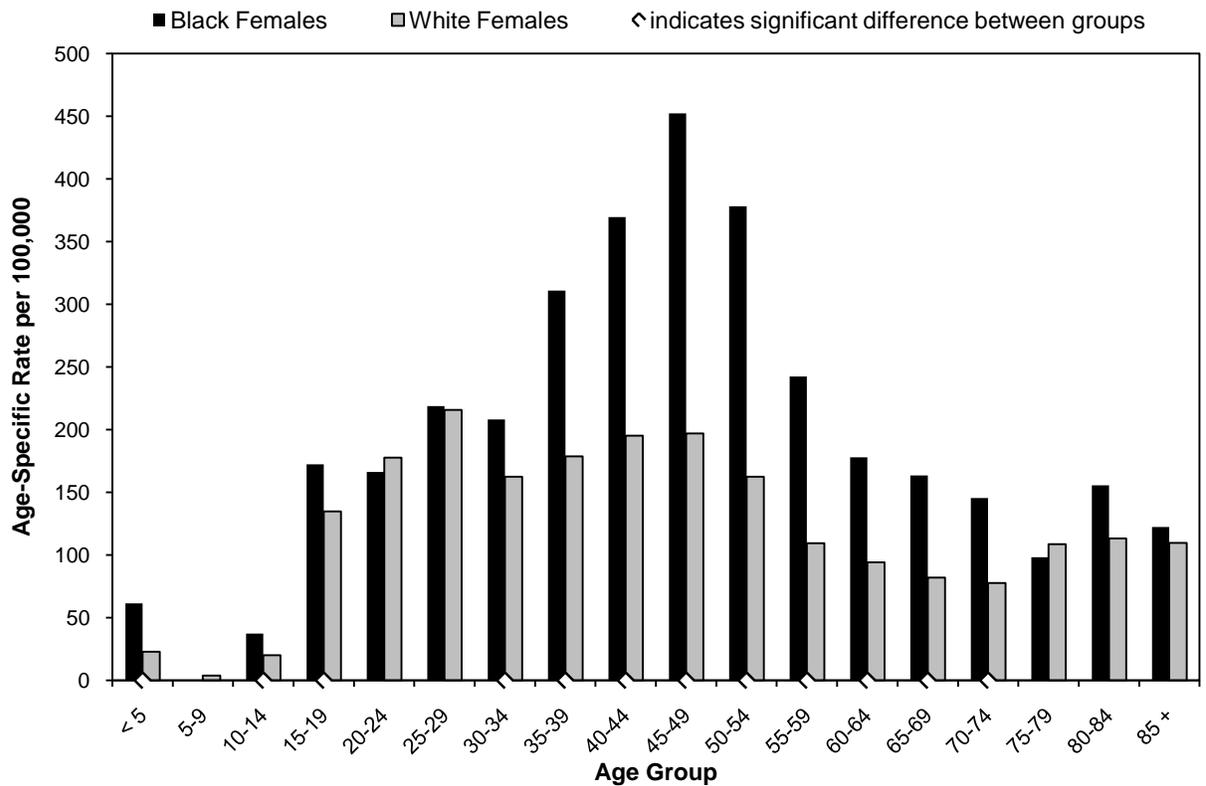
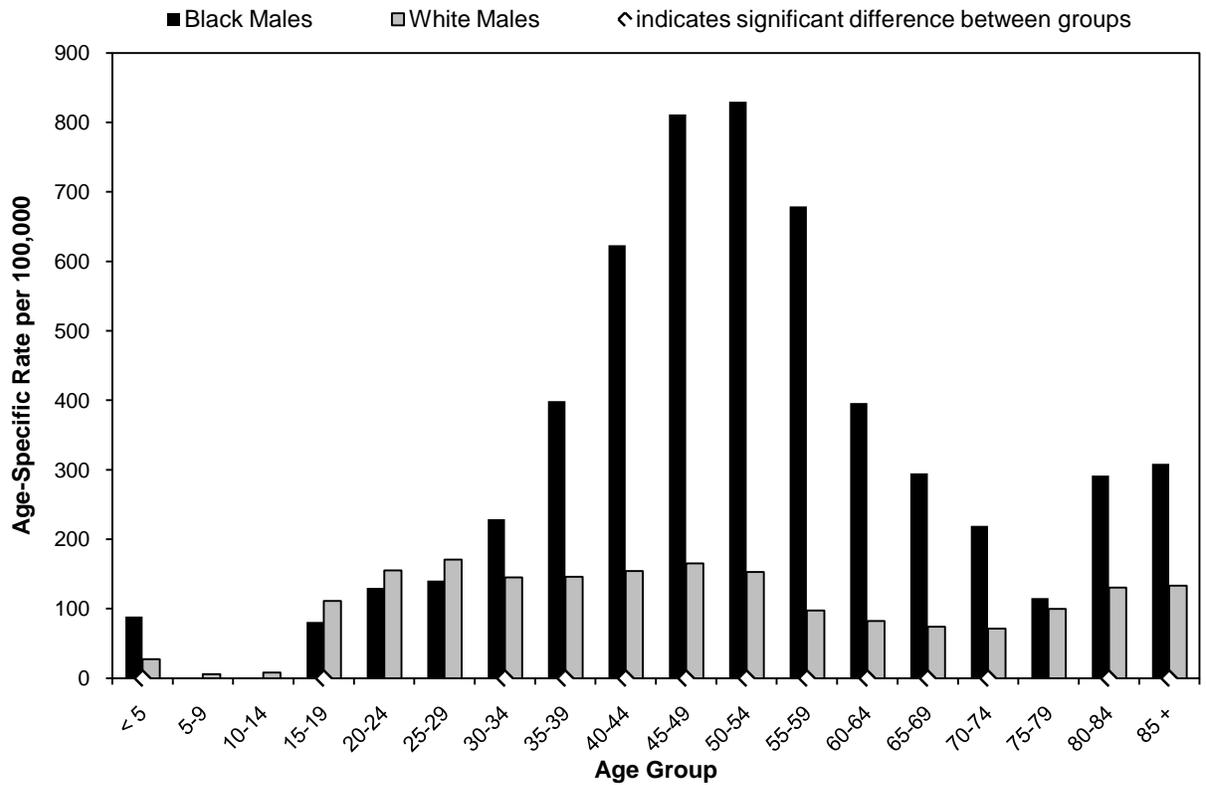
# INJURY HOSPITALIZATIONS: ALL POISONING

## AGE-SPECIFIC HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS PENNSYLVANIA RESIDENTS, 2008



# INJURY HOSPITALIZATIONS: ALL POISONING

## AGE-SPECIFIC HOSPITALIZATION RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2008



# INJURY HOSPITALIZATIONS: ALL POISONING

## NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2008

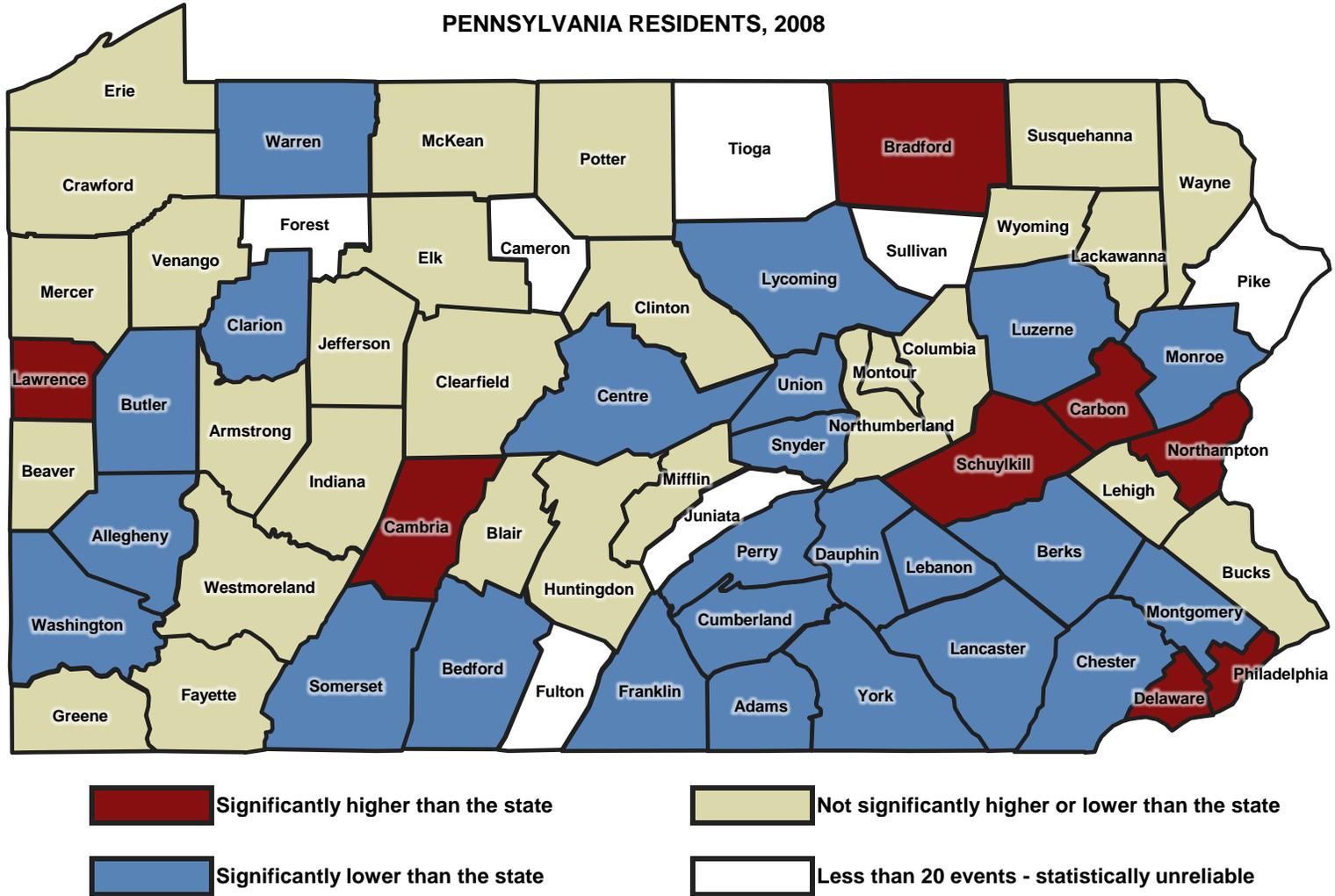
District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
<b>Northeast</b>	2,022	129.9	124.2-135.5 -	<b>Southeast</b>	8,235	165.4	161.8-169.0 +
Carbon	130	207.7	172.0-243.4 +	Berks	435	107.7	97.6-117.8 -
Lackawanna	297	141.6	125.5-157.7	Bucks	855	141.3	131.8-150.8
Lehigh	444	132.9	120.6-145.3	Chester	428	87.3	79.1-95.6 -
Luzerne	303	96.7	85.8-107.6 -	Delaware	1,049	186.9	175.6-198.2 +
Monroe	181	108.7	92.8-124.5 -	Lancaster	403	80.5	72.6-88.3 -
Northampton	514	176.3	161.0-191.5 +	Montgomery	821	104.7	97.6-111.9 -
Pike	18	NA		Philadelphia	3,954	283.1	274.3-291.9 +
Susquehanna	45	120.0	84.9-155.1	Schuylkill	290	196.5	173.9-219.2 +
Wayne	58	118.3	87.8-148.7				
Wyoming	32	119.7	78.2-161.2				
<b>North Central</b>	752	111.5	103.5-119.5 -	<b>South Central</b>	1,629	99.8	94.9-104.6 -
Bradford	111	193.9	157.8-230.0 +	Adams	64	61.6	46.5-76.7 -
Centre	133	100.5	83.4-117.6 -	Bedford	37	80.1	54.3-106.0 -
Clinton	39	109.0	74.8-143.2	Blair	183	151.9	129.9-174.0
Columbia	77	117.6	91.3-143.8	Cumberland	229	98.0	85.3-110.7 -
Lycoming	115	95.0	77.6-112.4 -	Dauphin	298	116.1	102.9-129.3 -
Montour	26	151.4	93.2-209.6	Franklin	139	98.3	81.9-114.6 -
Northumberland	140	159.7	133.2-186.1	Fulton	7	NA	
Potter	23	151.9	89.8-213.9	Huntingdon	51	112.6	81.7-143.4
Snyder	34	93.1	61.8-124.4 -	Juniata	18	NA	
Sullivan	10	NA		Lebanon	70	54.9	42.0-67.8 -
Tioga	15	NA		Mifflin	53	125.3	91.6-159.1
Union	29	62.0	39.4-84.5 -	Perry	38	87.0	59.3-114.6 -
				York	442	103.7	94.1-113.4 -
<b>Northwest</b>	1,248	136.5	128.9-144.0	<b>Southwest</b>	3,335	123.2	119.0-127.4 -
Cameron	8	NA		Allegheny	1,476	119.1	113.0-125.1 -
Clarion	34	85.3	56.6-114.0 -	Armstrong	89	145.9	115.6-176.2
Clearfield	127	146.4	121.0-171.9	Beaver	214	126.0	109.1-142.9
Crawford	142	164.3	137.3-191.3	Butler	134	73.1	60.7-85.5 -
Elk	37	119.6	81.0-158.1	Cambria	288	206.1	182.3-229.9 +
Erie	367	131.3	117.9-144.7	Fayette	205	145.8	125.9-165.8
Forest	4	NA		Greene	56	138.7	102.4-175.0
Jefferson	63	132.2	99.5-164.8	Indiana	109	135.0	109.6-160.3
Lawrence	147	172.0	144.2-199.8 +	Somerset	66	85.4	64.8-106.0 -
McKean	45	107.9	76.3-139.4	Washington	215	106.2	92.0-120.3 -
Mercer	173	158.2	134.6-181.7	Westmoreland	483	135.1	123.1-147.2
Venango	78	152.6	118.8-186.5				
Warren	23	58.1	34.3-81.8 -	<b>Pennsylvania</b>	<b>17,221</b>	<b>137.8</b>	<b>135.7-139.8</b>

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, 2008



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, 2008

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	8,171	9,047	17,221	1,736	54.0	4,316	182.1	5,567	214.9	3,615	153.0	1,987	104.0
<b>Northeast</b>	862	1,159	2,022	233	59.2	544	187.3	629	194.4	377	122.5	239	95.8
Carbon	52	78	130	16	115.4	41	328.1	35	266.2	26	197.0	12	110.5
Lackawanna	138	159	297	26	51.5	74	185.8	93	225.0	62	154.8	42	111.5
Lehigh	174	270	444	61	68.1	126	195.8	134	192.4	72	111.8	51	98.1
Luzerne	146	156	303	29	40.6	89	153.4	92	142.6	63	103.2	30	52.8
Monroe	67	114	181	20	43.5	43	142.4	59	160.4	37	114.8	22	111.1
Northampton	227	287	514	62	78.2	134	240.0	160	263.2	92	164.8	66	153.4
Pike	6	12	18	5	NA	2	NA	4	NA	6	NA	1	NA
Susquehanna	23	22	45	7	NA	13	190.7	15	184.3	5	NA	5	NA
Wayne	13	45	58	6	NA	14	162.1	25	242.5	9	NA	4	NA
Wyoming	16	16	32	1	NA	8	NA	12	212.3	5	NA	6	NA
<b>Southeast</b>	4,248	3,987	8,235	784	58.3	1,888	193.2	2,791	267.0	1,904	213.5	868	126.6
Berks	175	260	435	51	45.0	91	121.8	152	178.7	81	110.8	60	104.4
Bucks	414	441	855	95	59.2	265	255.2	259	179.0	147	116.4	89	103.0
Chester	184	244	428	48	34.7	107	119.0	130	117.5	79	86.2	64	104.7
Delaware	544	505	1,049	105	70.2	260	242.8	339	293.5	236	228.8	109	139.2
Lancaster	172	231	403	43	30.1	109	113.4	100	99.6	93	104.5	58	78.5
Montgomery	358	463	821	95	47.4	208	147.9	217	124.7	160	108.7	141	121.7
Philadelphia	2,277	1,677	3,954	302	73.9	775	229.5	1,510	535.3	1,050	450.7	317	170.5
Schuylkill	124	166	290	45	139.3	73	267.8	84	256.5	58	205.3	30	112.4

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	8,171	9,047	17,221	1,736	54.0	4,316	182.1	5,567	214.9	3,615	153.0	1,987	104.0
<b>North Central</b>	312	440	<b>752</b>	100	57.9	221	152.6	226	173.3	113	91.3	92	86.0
Bradford	44	67	111	12	77.0	31	299.7	43	341.1	13	107.0	12	113.8
Centre	44	89	133	13	33.6	56	127.7	37	151.9	13	60.7	14	84.8
Clinton	18	21	39	6	NA	12	167.1	11	161.6	6	NA	4	NA
Columbia	34	43	77	10	58.8	30	212.2	15	129.8	11	94.0	11	103.7
Lycoming	64	51	115	16	56.1	20	88.8	27	114.5	32	140.8	20	103.5
Montour	9	17	26	4	NA	5	NA	9	NA	6	NA	2	NA
Northumberland	55	85	140	19	89.7	38	252.9	45	234.8	17	91.4	21	122.8
Potter	12	11	23	1	NA	5	NA	11	349.1	5	NA	1	NA
Snyder	12	22	34	4	NA	11	135.1	7	NA	7	NA	5	NA
Sullivan	4	6	10	4	NA	0	NA	6	NA	0	NA	0	NA
Tioga	4	11	15	4	NA	4	NA	4	NA	2	NA	1	NA
Union	12	17	29	7	NA	9	NA	11	113.6	1	NA	1	NA
<b>South Central</b>	717	912	<b>1,629</b>	153	36.4	458	150.9	505	146.2	321	101.4	192	77.4
Adams	30	34	64	8	NA	16	84.9	16	74.6	17	88.5	7	NA
Bedford	14	23	37	2	NA	13	156.1	12	114.6	6	NA	4	NA
Blair	78	105	183	20	64.6	53	234.7	61	243.8	29	116.2	20	92.4
Cumberland	88	141	229	17	29.2	60	128.0	75	162.1	46	107.9	31	87.5
Dauphin	144	154	298	24	35.9	80	173.8	91	160.6	70	135.0	33	93.9
Franklin	56	83	139	21	55.5	36	137.2	39	137.7	25	92.7	18	74.5
Fulton	4	3	7	2	NA	0	NA	2	NA	2	NA	1	NA
Huntingdon	19	32	51	6	NA	20	215.9	14	143.8	5	NA	6	NA
Juniata	9	9	18	1	NA	9	NA	2	NA	4	NA	2	NA
Lebanon	29	41	70	11	34.0	16	63.9	21	82.6	15	61.0	7	NA
Mifflin	22	31	53	4	NA	18	233.3	17	186.2	11	126.1	3	NA
Perry	12	26	38	1	NA	11	137.0	13	132.3	7	NA	6	NA
York	212	230	442	36	32.7	126	161.6	142	148.9	84	102.1	54	91.8

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	8,171	9,047	17,221	1,736	54.0	4,316	182.1	5,567	214.9	3,615	153.0	1,987	104.0
<b>Northwest</b>	582	666	1,248	148	63.1	335	197.7	379	202.3	221	123.1	165	106.7
Cameron	4	4	8	2	NA	2	NA	1	NA	1	NA	2	NA
Clarion	18	16	34	0	NA	6	NA	11	149.9	8	NA	9	NA
Clearfield	58	69	127	13	72.2	29	193.3	31	167.9	30	179.8	24	162.9
Crawford	53	89	142	24	101.7	30	192.5	43	249.8	23	130.7	22	152.6
Elk	21	16	37	7	NA	8	NA	10	140.3	6	NA	6	NA
Erie	174	193	367	43	57.6	104	182.0	111	197.4	66	129.5	43	106.8
Forest	3	1	4	0	NA	1	NA	0	NA	2	NA	1	NA
Jefferson	31	32	63	2	NA	15	193.1	18	198.4	15	165.9	13	156.3
Lawrence	77	70	147	12	53.0	42	278.3	55	304.9	24	134.7	14	84.0
McKean	14	31	45	6	NA	21	263.8	12	128.9	2	NA	4	NA
Mercer	76	97	173	23	76.4	53	264.8	57	247.5	26	114.6	14	67.3
Venango	41	37	78	11	81.2	20	224.2	25	228.0	11	95.6	11	116.0
Warren	12	11	23	5	NA	4	NA	5	NA	7	NA	2	NA
<b>Southwest</b>	1,450	1,883	3,335	318	49.1	870	179.5	1,037	185.6	679	124.9	431	92.6
Allegheny	676	800	1,476	132	44.9	349	154.5	478	190.6	301	125.5	216	105.5
Armstrong	38	51	89	6	NA	37	350.6	29	203.6	8	NA	9	NA
Beaver	88	126	214	18	44.8	52	180.8	69	192.9	49	135.8	26	82.1
Butler	58	76	134	12	24.6	36	111.6	38	95.7	32	90.2	16	59.8
Cambria	127	161	288	26	78.6	86	336.5	101	344.1	48	163.3	27	100.3
Fayette	78	126	205	19	56.2	68	281.3	47	155.9	49	161.0	22	86.7
Greene	26	29	56	10	112.9	11	141.4	16	189.7	11	133.0	8	NA
Indiana	46	63	109	13	56.9	25	136.9	32	201.8	17	103.8	22	155.6
Somerset	29	37	66	5	NA	19	135.9	21	126.1	12	77.9	9	NA
Washington	83	132	215	30	60.2	57	152.5	64	153.3	39	93.3	25	70.1
Westmoreland	201	282	483	47	57.1	130	216.7	142	186.6	113	148.0	51	76.4

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.

## INJURY HOSPITALIZATIONS: ALL POISONING

### NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2008

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	302	200.8	178.1-223.4 -	Allegheny	1,143	109.7	103.3-116.0	Berks	68	150.1	114.4-185.8
Chester	37	130.3	88.3-172.2 -	Chester	368	83.8	75.2-92.4 -	Lancaster	7	NA	
Dauphin	72	169.2	130.1-208.3 -	Dauphin	204	102.6	88.5-116.7	Lehigh	65	131.7	99.7-163.8
Delaware	226	227.5	197.8-257.1	Delaware	786	186.3	173.2-199.3 +	Philadelphia	380	250.1	224.9-275.2 +
Montgomery	85	122.0	96.1-147.9 -	Montgomery	659	99.5	91.9-107.1 -				
Philadelphia	2,104	341.2	326.7-355.8 +	Philadelphia	1,370	201.1	190.4-211.7 +				
Pennsylvania	3,237	257.3	248.4-266.2	Pennsylvania	12,568	117.0	115.0-119.0	Pennsylvania	845	163.3	152.3-174.4

### NUMBER FOR SELECT AGE GROUPS AND AGE-SPECIFIC HOSPITALIZATION RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2008

Select Counties	Pct.	Sex		Total	Pct.	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	
County and Race	Cty. Pop.			All Ages	Cty. Total											
Allegheny	Black	13.5%	141	161	<b>302</b>	20.5%	32	58.2	56	156.8	125	408.9	61	247.7	28	153.9
	White	82.8%	519	624	<b>1,143</b>	77.4%	89	39.9	287	161.5	345	163.5	237	112.6	185	100.7
Chester	Black	6.2%	14	23	<b>37</b>	8.6%	0	NA	14	197.5	15	255.4	7	NA	1	NA
	White	89.5%	160	208	<b>368</b>	86.0%	41	33.9	85	108.4	111	112.1	72	84.9	59	104.2
Dauphin	Black	17.9%	41	31	<b>72</b>	24.2%	5	NA	19	201.0	23	238.8	17	238.0	8	NA
	White	77.2%	95	109	<b>204</b>	68.5%	17	37.0	54	158.3	59	133.2	49	113.7	25	81.7
Delaware	Black	18.8%	126	100	<b>226</b>	21.5%	21	61.4	46	175.5	96	439.0	50	359.3	13	164.3
	White	75.4%	399	387	<b>786</b>	74.9%	74	70.8	208	280.6	232	269.7	181	213.7	91	133.2
Montgomery	Black	8.9%	48	37	<b>85</b>	10.4%	8	NA	21	132.7	29	177.0	18	162.5	9	NA
	White	84.0%	287	372	<b>659</b>	80.3%	70	42.9	166	146.7	170	118.5	135	105.0	118	111.7
Philadelphia	Black	45.6%	1,240	864	<b>2,104</b>	53.2%	135	63.4	288	196.1	867	678.2	666	654.3	148	210.0
	White	46.9%	786	584	<b>1,370</b>	34.6%	74	45.9	346	218.2	484	362.3	319	273.0	147	136.0
Pennsylvania	Black	10.7%	1,816	1,421	<b>3,237</b>	18.8%	272	62.6	558	178.5	1,298	486.5	882	451.3	227	177.8
	White	85.7%	5,687	6,880	<b>12,568</b>	73.0%	1,205	45.9	3,324	170.4	3,862	173.2	2,518	119.3	1,659	94.6

## INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC ACCIDENTS

In 2008, among Pennsylvania residents, there were 13,350 hospitalizations due to motor vehicle traffic (MVT) accidents. On average, one resident was hospitalized every 40 minutes.

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### ***Injury Definition***

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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 2004 to 2008.*
- *Most common demographic is **white males**, ages 15 to 49.*
- *Of all Pennsylvania counties, **Monroe** shows the highest rate.*

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### ***Trends Over Time***

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- Age-adjusted hospitalization rates for MVT injury decreased by 10 percent from 2004 to 2008, from 115.4 to 104.4 hospitalizations per 100,000 population. The greatest drop in rate was observed between 2007 and 2008.
- Males showed significantly higher age-adjusted MVT hospitalization rates than females over 2004 to 2008 (rates were 132.9 and 76.6, respectively, in 2008).
- Black males and females showed higher age-adjusted MVT hospitalization rates than white males and females over 2004 to 2008.

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### ***Demographic Trends***

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- 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 and females showed significantly higher MVT hospitalization rates than white males and females for ages less than 15. Additionally, black males showed significantly higher rates than white males for ages 40 to 59.
- Rural populations generally showed higher MVT hospitalization rates than urban populations. Rural rates were significantly higher for ages 15 to 19.

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### ***Regional Trends***

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- The Northeast Health District showed the highest age-specific MVT hospitalization rates, while the North Central Health District showed the lowest rates.
- Fifteen counties showed age-adjusted MVT hospitalization rates that were significantly higher than the comparable state rate for 2008. Most counties were rural.

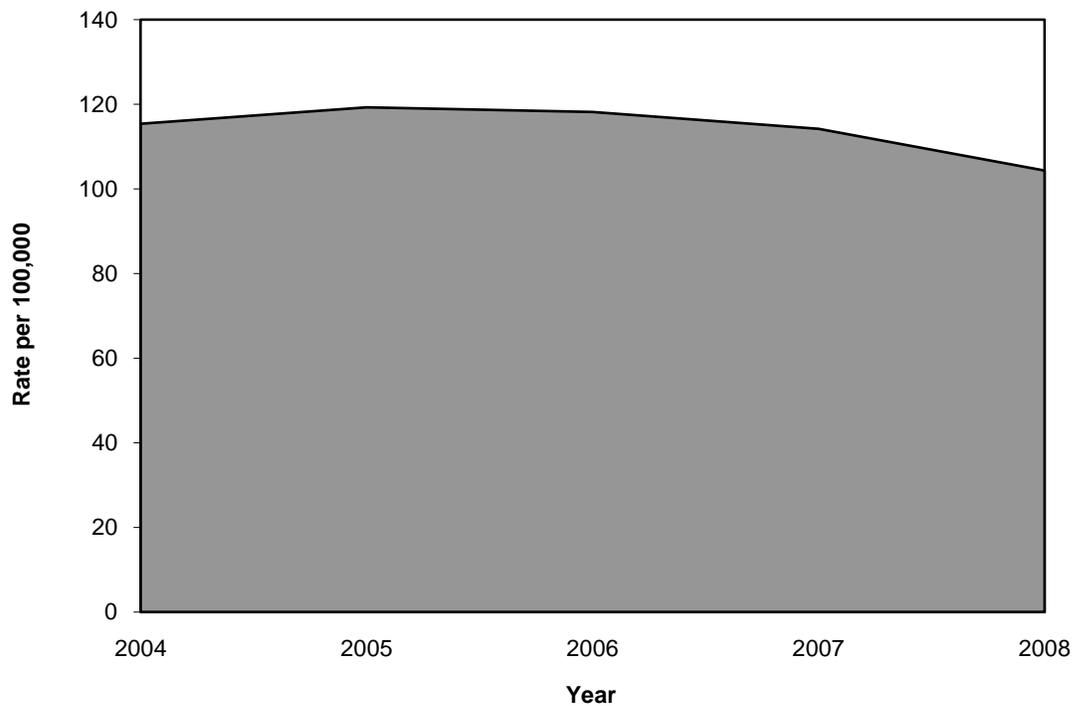
# INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

## TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, 2004-2008

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Year	No.	Rate
2004	14,553	115.4
2005	15,074	119.3
2006	15,020	118.2
2007	14,518	114.2
2008	13,350	104.4

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## AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2004-2008

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Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2004	109.7	87.0	129.7	114.3	119.6	117.7
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

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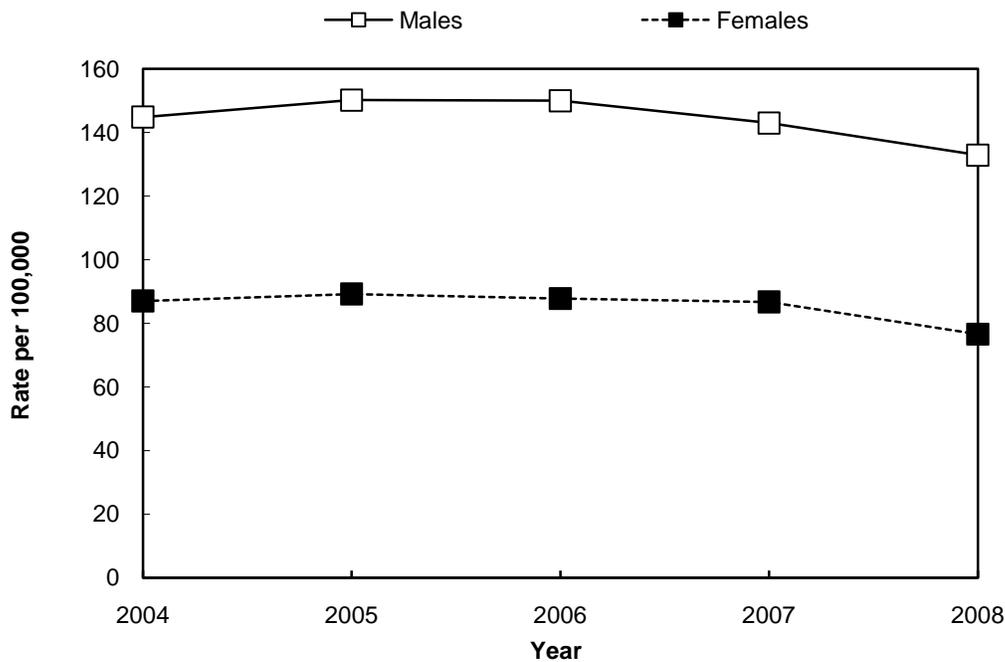
NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2004-2008 based on ICD-9-CM codes. See Technical Notes.

# INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

## TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX PENNSYLVANIA RESIDENTS, 2004-2008

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2004	8,752	144.9 *	2004	5,801	87.1
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

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



## AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2004-2008

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2004	143.0	149.4	2004	84.4	94.3 *
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

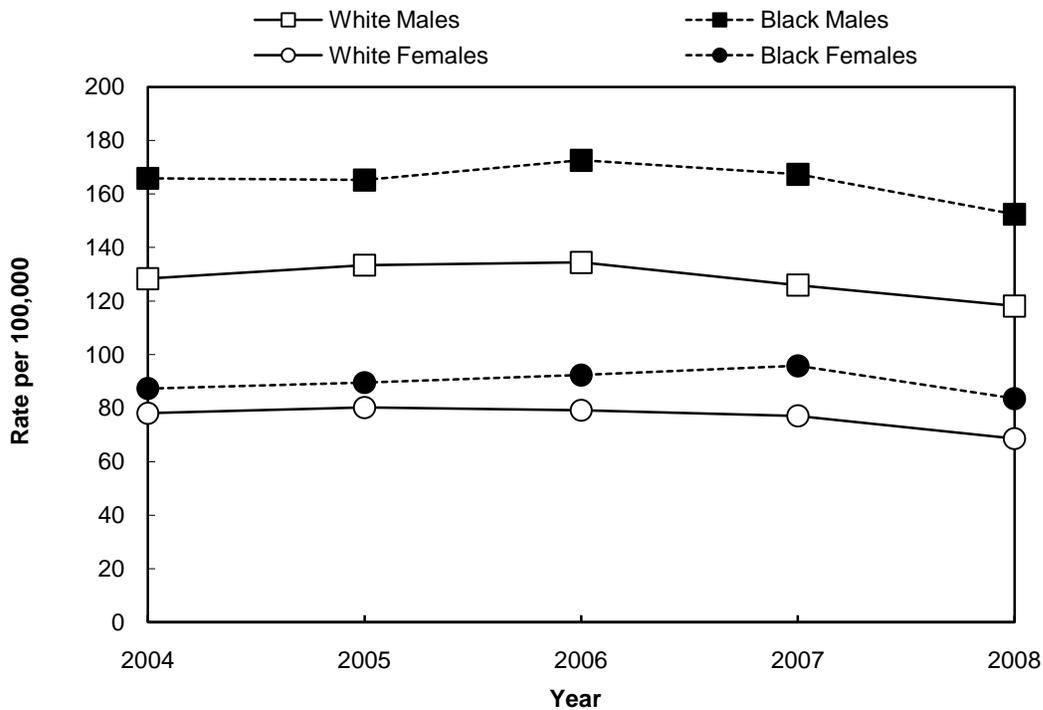
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

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, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	6,753	1,014	4,579	597	318	165
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



### AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	128.4	165.8 *	78.1	87.3	133.7	73.9
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

\* 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, 2008

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL		
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	
<b>TOTAL</b>	<b>13,350</b>	<b>107.2</b>	<b>8,173</b>	<b>135.1</b>	<b>5,159</b>	<b>80.6</b>		<b>9,501</b>	<b>105.3</b>	<b>3,849</b>	<b>112.3</b>
< 5	119	16.1	68	18.0	51	14.2		91	16.5	28	15.2
5-9	220	29.1	144	37.3	76	20.6	*	178	31.8	42	21.5
10-14	285	35.7	182	44.6	103	26.4	*	209	35.6	76	36.0
15-19	1,247	135.1	796	171.4	449	98.0	*	844	127.3	403	155.3
20-24	1,639	184.9	1,070	237.6	567	130.0	*	1,172	184.6	467	185.9
25-29	1,167	157.9	771	203.9	396	109.7	*	855	154.9	312	166.8
30-34	840	112.8	564	150.0	274	74.3	*	600	109.4	240	122.3
35-39	876	109.2	561	140.4	313	77.8	*	618	105.1	258	120.6
40-44	1,002	114.5	655	151.0	345	78.1	*	716	112.0	286	121.3
45-49	1,087	119.0	717	159.1	369	79.7	*	740	111.5	347	138.9
50-54	1,012	114.0	628	144.5	383	84.5	*	725	113.1	287	116.3
55-59	797	99.5	476	122.7	318	76.9	*	574	100.3	223	97.5
60-64	683	101.3	405	126.1	277	78.5	*	484	101.7	199	100.3
65-69	516	97.3	257	105.6	258	90.0		377	102.3	139	85.9
70-74	482	108.8	254	131.0	228	91.5	*	315	101.9	167	124.6
75-79	463	125.4	220	146.3	243	111.1	*	345	133.2	118	107.1
80-84	524	184.4	235	219.3	289	163.3	*	378	186.6	146	178.9
85 +	390	137.3	169	192.4	220	112.2	*	280	137.4	110	137.2

\* 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 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, 2008

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>6,291</b>	<b>121.1</b>	<b>960</b>	<b>151.2</b>	<b>4,034</b>	<b>73.7</b>	<b>592</b>	<b>84.3</b>	<b>566</b>	<b>95.3</b>
< 5	31	10.2	21	40.6	25	8.6	13	25.8	11	16.2
5-9	64	20.4	53	103.0	41	13.7	23	46.2	20	33.1
10-14	117	35.1	42	75.9	59	18.5	28	52.4	15	26.8
15-19	610	159.4	95	153.9	352	93.0	44	72.9	66	111.9
20-24	822	222.0	118	194.3	400	111.9	90	151.1	87	164.9
25-29	560	180.4	102	198.7	307	104.5	60	118.3	59	121.2
30-34	397	126.5	82	185.8	184	60.4	54	117.0	49	107.3
35-39	418	122.9	67	159.1	225	66.6	45	97.2	41	91.4
40-44	494	131.5	78	184.9	266	70.5	40	83.5	49	124.9
45-49	575	144.9	83	203.4	288	71.7	37	77.9	40	117.0
50-54	487	125.5	81	227.1	305	76.7	45	103.8	36	143.0
55-59	389	111.1	52	181.1	245	66.9	34	92.6	21	107.4
60-64	332	113.7	24	110.5	236	74.8	18	61.6	20	149.7
65-69	214	95.7	20	134.0	221	85.0	17	79.4	9	NA
70-74	217	121.6	17	143.4	192	84.7	18	96.9	12	180.9
75-79	192	137.6	12	138.5	220	109.6	10	65.6	11	229.4
80-84	213	214.0	7	NA	269	165.3	7	NA	12	384.2
85 +	158	194.9	6	NA	199	110.1	9	NA	8	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, 2008

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>950</b>	<b>102.6</b>	<b>593</b>	<b>87.4</b>	<b>1,980</b>	<b>126.5</b>	<b>5,199</b>	<b>105.1</b>	<b>1,540</b>	<b>94.3</b>	<b>3,088</b>	<b>114.4</b>
< 5	6	NA	3	NA	13	14.9	62	19.3	18	18.1	17	11.9
5-9	10	18.4	2	NA	39	42.9 +	107	33.2	35	34.9	27	17.8 -
10-14	15	25.5	7	NA	47	47.0	134	40.2	25	23.7 -	57	35.1
15-19	82	116.9	72	113.9	190	164.1 +	481	130.4	165	143.6	257	135.2
20-24	118	185.1	72	99.7 -	222	202.6	676	190.1	188	176.3	363	203.4
25-29	80	154.2	39	111.0 -	152	168.1	481	153.5	130	133.1	285	189.4 +
30-34	68	126.4	44	117.3	110	121.7	309	100.3 -	86	86.6 -	223	143.2 +
35-39	63	110.1	39	97.0	125	126.2	347	105.4	82	76.5 -	220	130.1 +
40-44	83	131.9	41	93.2	150	137.0 +	373	105.3	115	98.4	240	128.0
45-49	79	117.6	56	121.3	181	157.3 +	394	108.9	120	98.9 -	257	127.1
50-54	81	122.3	39	85.6	152	134.6 +	396	115.6	115	97.6	229	113.0
55-59	58	95.4	41	97.7	125	120.2 +	279	92.6	101	93.4	193	104.3
60-64	41	78.1	26	71.7	112	123.2 +	252	101.7	89	98.0	163	104.5
65-69	37	86.6	23	74.5	82	114.3	194	102.0	62	85.2	118	96.8
70-74	45	123.4	20	78.2	66	112.7	185	117.1	51	86.5	115	108.9
75-79	28	91.6	22	106.0	85	178.4 +	189	144.0	47	98.9	92	100.6 -
80-84	34	147.3	27	177.0	68	189.2	184	179.4	68	197.6	143	196.2
85 +	22	100.6	19	130.5	61	171.1	156	150.6	43	124.9	89	120.5

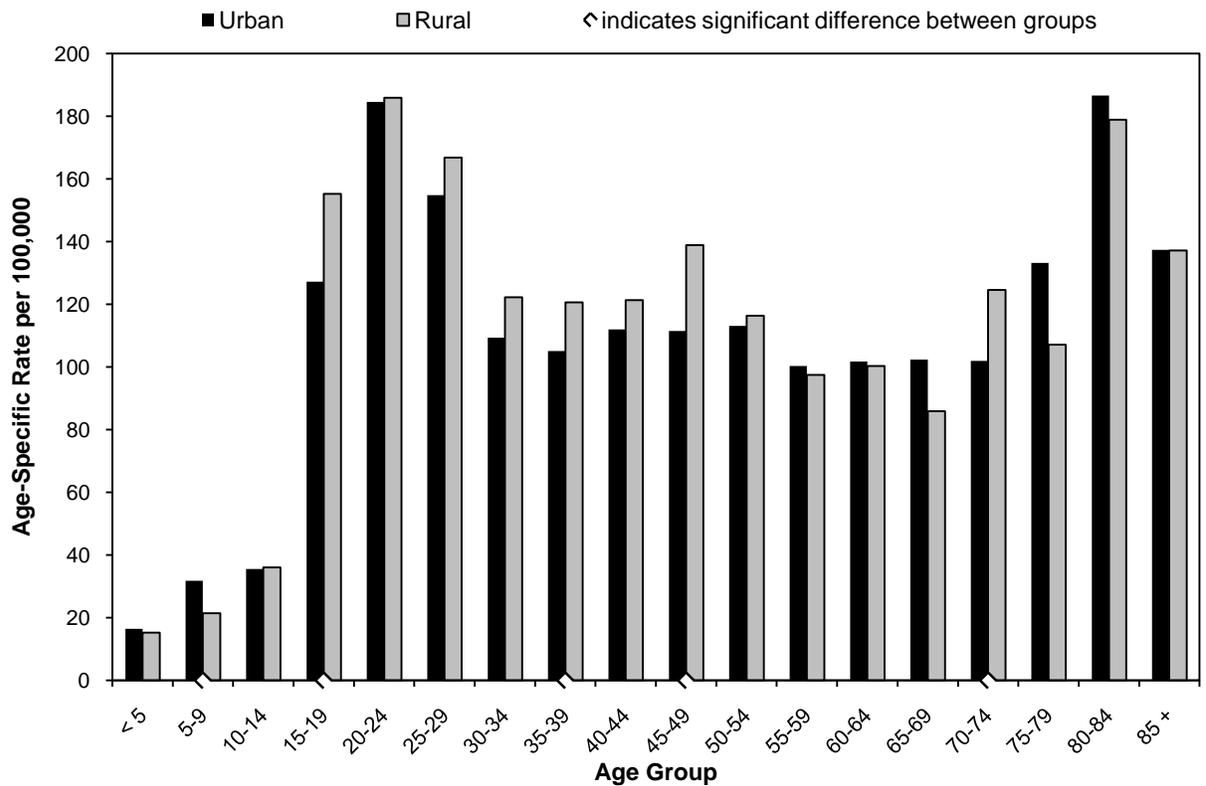
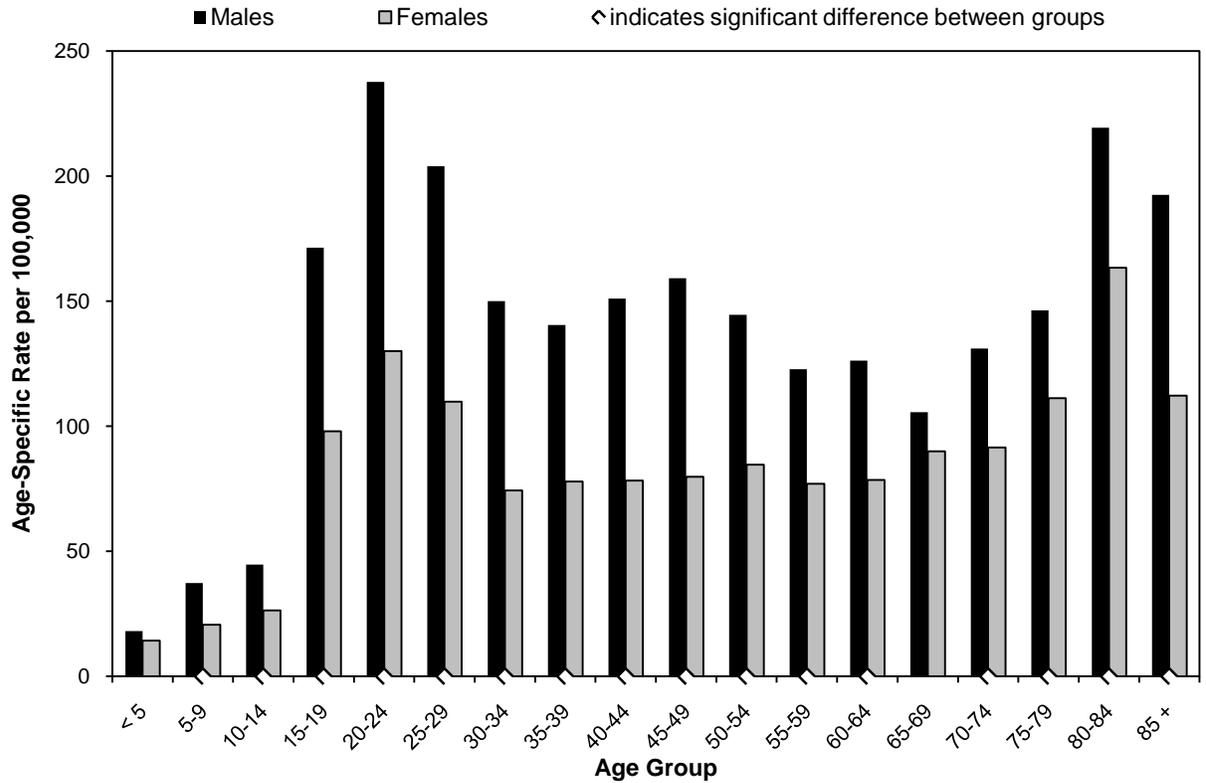
*+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.*

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.

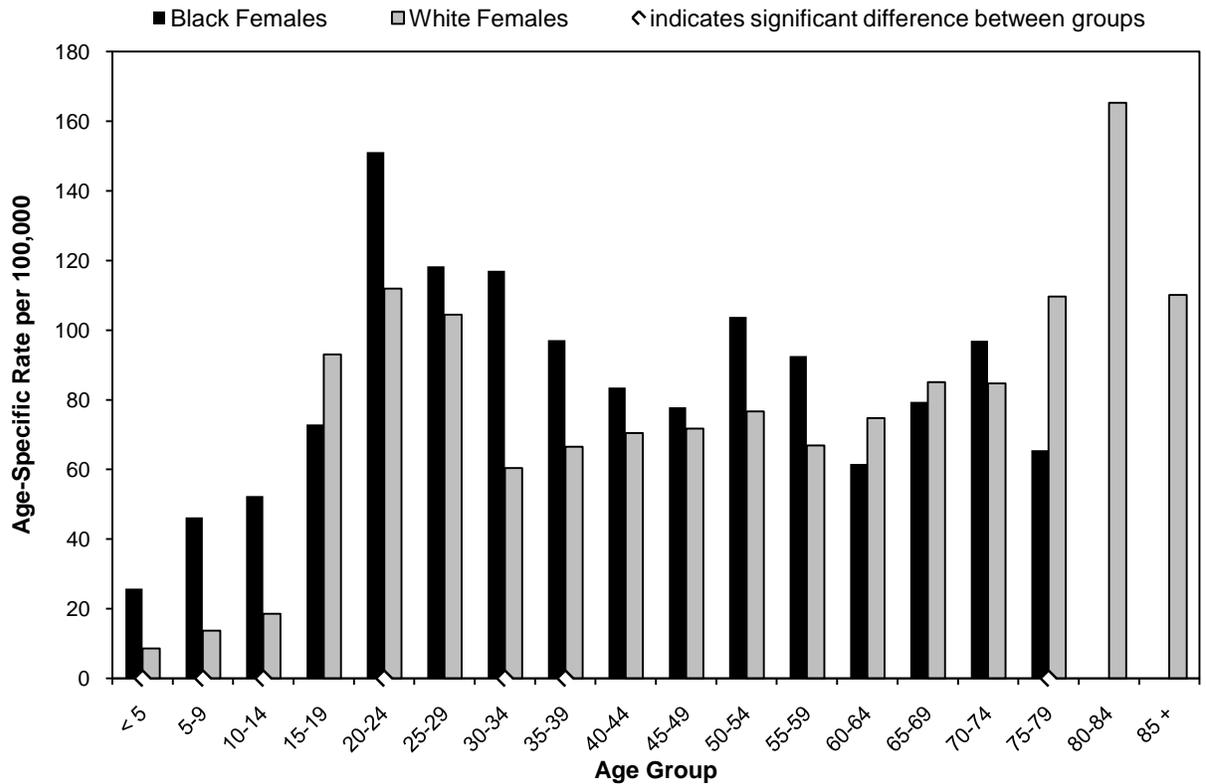
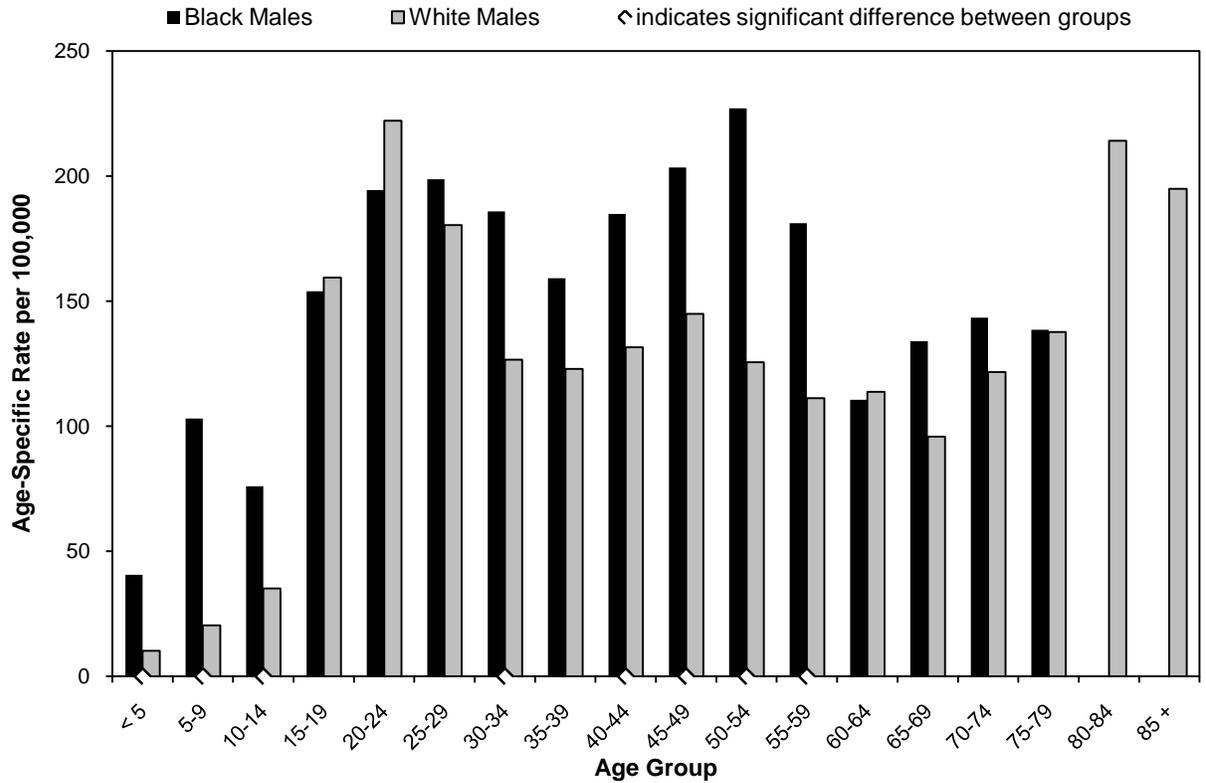
# INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

## AGE-SPECIFIC HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS PENNSYLVANIA RESIDENTS, 2008



# INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

## AGE-SPECIFIC HOSPITALIZATION RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2008



# INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

## NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2008

District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
<b>Northeast</b>	1,980	122.5	117.1-127.9 +	<b>Southeast</b>	5,199	103.1	100.3-105.9
Carbon	94	145.0	115.7-174.3 +	Berks	427	104.5	94.6-114.4
Lackawanna	214	99.1	85.9-112.4	Bucks	565	91.3	83.7-98.8 -
Lehigh	434	125.7	113.9-137.6 +	Chester	383	77.9	70.1-85.7 -
Luzerne	342	103.5	92.5-114.5	Delaware	591	103.1	94.8-111.4
Monroe	297	174.6	154.7-194.4 +	Lancaster	598	118.2	108.7-127.7 +
Northampton	382	126.2	113.5-138.9 +	Montgomery	688	86.3	79.9-92.8 -
Pike	57	101.7	75.3-128.0	Philadelphia	1,738	117.4	111.9-122.9 +
Susquehanna	53	125.6	91.8-159.4	Schuylkill	209	141.8	122.6-161.0 +
Wayne	62	116.6	87.5-145.6				
Wyoming	45	164.4	116.3-212.4 +				
<b>North Central</b>	593	82.8	76.2-89.5 -	<b>South Central</b>	1,540	92.0	87.4-96.5 -
Bradford	45	73.6	52.1-95.1 -	Adams	87	84.5	66.7-102.2 -
Centre	92	67.1	53.4-80.9 -	Bedford	65	137.5	104.1-170.9
Clinton	45	124.0	87.8-160.3	Blair	119	89.9	73.8-106.1
Columbia	68	93.9	71.6-116.3	Cumberland	191	76.6	65.8-87.5 -
Lycoming	106	87.1	70.5-103.7	Dauphin	212	85.3	73.8-96.7 -
Montour	25	145.4	88.4-202.3	Franklin	112	76.7	62.5-90.9 -
Northumberland	92	98.9	78.7-119.2	Fulton	22	152.4	88.7-216.1
Potter	15	NA		Huntingdon	52	105.9	77.1-134.7
Snyder	28	71.6	45.1-98.1 -	Juniata	18	NA	
Sullivan	6	NA		Lebanon	142	106.4	88.9-124.0
Tioga	39	93.9	64.4-123.4	Mifflin	40	91.1	62.9-119.3
Union	32	64.4	42.1-86.7 -	Perry	70	155.9	119.4-192.4 +
				York	410	94.8	85.6-104.0
<b>Northwest</b>	950	100.7	94.3-107.1	<b>Southwest</b>	3,088	111.6	107.6-115.5 +
Cameron	5	NA		Allegheny	1,240	98.6	93.1-104.1
Clarion	47	110.3	78.8-141.9	Armstrong	89	137.3	108.8-165.9 +
Clearfield	90	110.1	87.4-132.9	Beaver	170	96.0	81.6-110.4
Crawford	87	98.0	77.4-118.6	Butler	203	109.5	94.4-124.6
Elk	51	156.4	113.5-199.3 +	Cambria	204	142.4	122.8-161.9 +
Erie	248	88.2	77.2-99.2 -	Fayette	183	125.3	107.1-143.4 +
Forest	12	NA		Greene	27	64.1	39.9-88.2 -
Jefferson	70	157.9	120.9-194.9 +	Indiana	106	124.8	101.0-148.5
Lawrence	99	108.4	87.0-129.7	Somerset	104	126.8	102.5-151.2
McKean	45	94.5	66.9-122.0	Washington	236	114.7	100.0-129.3
Mercer	92	74.8	59.5-90.1 -	Westmoreland	526	145.8	133.3-158.2 +
Venango	70	135.8	104.0-167.6				
Warren	34	86.9	57.7-116.1	<b>Pennsylvania</b>	<b>13,350</b>	<b>104.4</b>	<b>102.6-106.1</b>

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

### TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2008

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	8,173	5,159	13,350	1,871	58.2	3,646	153.8	2,965	114.4	2,492	105.5	2,375	124.3
<b>Northeast</b>	1,241	724	1,980	289	73.4	484	166.6	456	140.9	389	126.4	362	145.1
Carbon	64	29	94	17	122.6	24	192.1	22	167.3	18	136.4	13	119.8
Lackawanna	135	79	214	28	55.4	44	110.5	57	137.9	41	102.3	44	116.8
Lehigh	268	165	434	60	66.9	107	166.3	112	160.8	85	132.0	70	134.7
Luzerne	204	128	342	57	79.7	88	151.7	57	88.3	62	101.5	78	137.2
Monroe	203	93	297	50	108.6	65	215.2	76	206.6	64	198.5	42	212.2
Northampton	243	139	382	50	63.0	96	171.9	82	134.9	78	139.8	76	176.7
Pike	31	25	57	8	NA	20	207.3	12	90.4	8	NA	9	NA
Susquehanna	28	25	53	3	NA	15	220.1	11	135.1	11	117.6	13	193.4
Wayne	36	25	62	7	NA	14	162.1	16	155.2	12	97.4	13	136.6
Wyoming	29	16	45	9	NA	11	238.0	11	194.6	10	178.3	4	NA
<b>Southeast</b>	3,177	2,022	5,199	784	58.3	1,466	150.0	1,114	106.6	927	104.0	908	132.4
Berks	262	165	427	63	55.6	104	139.2	98	115.2	74	101.2	88	153.1
Bucks	321	244	565	76	47.4	131	126.2	138	95.4	109	86.3	111	128.4
Chester	237	146	383	64	46.3	111	123.4	86	77.7	62	67.6	60	98.2
Delaware	351	240	591	61	40.8	163	152.2	129	111.7	116	112.5	122	155.8
Lancaster	369	229	598	71	49.6	179	186.2	138	137.4	107	120.3	103	139.5
Montgomery	413	275	688	88	43.9	168	119.5	135	77.6	139	94.4	158	136.4
Philadelphia	1,076	662	1,738	322	78.8	554	164.1	341	120.9	288	123.6	233	125.3
Schuylkill	148	61	209	39	120.8	56	205.4	49	149.6	32	113.3	33	123.6

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	8,173	5,159	13,350	1,871	58.2	3,646	153.8	2,965	114.4	2,492	105.5	2,375	124.3
<b>North Central</b>	357	233	<b>593</b>	84	48.7	155	107.0	136	104.3	106	85.6	111	103.7
Bradford	26	19	45	5	NA	12	116.0	11	87.3	8	NA	9	NA
Centre	61	31	92	15	38.8	27	61.6	20	82.1	14	65.4	16	96.9
Clinton	24	21	45	4	NA	9	NA	12	176.3	9	NA	11	175.0
Columbia	40	27	68	8	NA	23	162.7	14	121.1	13	111.1	10	94.3
Lycoming	63	43	106	13	45.6	22	97.7	28	118.7	20	88.0	23	119.0
Montour	14	10	25	6	NA	7	NA	4	NA	3	NA	5	NA
Northumberland	58	33	92	14	66.1	22	146.4	20	104.4	14	75.2	21	122.8
Potter	11	4	15	3	NA	5	NA	2	NA	2	NA	3	NA
Snyder	18	10	28	3	NA	9	NA	7	NA	4	NA	5	NA
Sullivan	5	1	6	0	NA	2	NA	1	NA	2	NA	1	NA
Tioga	20	19	39	6	NA	8	NA	11	147.8	8	NA	6	NA
Union	17	15	32	7	NA	9	NA	6	NA	9	NA	1	NA
<b>South Central</b>	961	579	<b>1,540</b>	243	57.9	404	133.1	317	91.8	305	96.3	271	109.2
Adams	56	31	87	21	77.7	15	79.6	21	97.9	14	72.9	16	109.7
Bedford	36	29	65	18	147.7	14	168.1	15	143.3	5	NA	13	147.6
Blair	80	39	119	12	38.7	32	141.7	21	83.9	31	124.2	23	106.3
Cumberland	113	78	191	30	51.6	47	100.3	29	62.7	49	115.0	36	101.6
Dauphin	126	86	212	36	53.8	65	141.2	52	91.8	28	54.0	31	88.2
Franklin	72	40	112	17	45.0	24	91.5	26	91.8	19	70.4	26	107.6
Fulton	13	9	22	4	NA	6	NA	6	NA	4	NA	2	NA
Huntingdon	33	19	52	9	NA	17	183.5	7	NA	17	193.1	2	NA
Juniata	8	10	18	2	NA	5	NA	6	NA	4	NA	1	NA
Lebanon	86	56	142	30	92.7	33	131.8	22	86.5	28	113.9	29	134.6
Mifflin	28	12	40	7	NA	10	129.6	11	120.5	7	NA	5	NA
Perry	46	24	70	8	NA	22	274.1	16	162.8	13	139.1	11	187.8
York	264	146	410	49	44.5	114	146.2	85	89.1	86	104.5	76	129.2

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	8,173	5,159	13,350	1,871	58.2	3,646	153.8	2,965	114.4	2,492	105.5	2,375	124.3
<b>Northwest</b>	607	343	<b>950</b>	113	48.2	266	157.0	225	120.1	180	100.3	166	107.3
Cameron	2	3	5	0	NA	1	NA	1	NA	3	NA	0	NA
Clarion	30	17	47	4	NA	11	141.8	8	NA	17	227.0	7	NA
Clearfield	59	31	90	14	77.7	23	153.3	27	146.2	15	89.9	11	74.7
Crawford	50	37	87	4	NA	30	192.5	19	110.4	19	108.0	15	104.0
Elk	31	20	51	10	130.3	11	222.1	11	154.3	12	184.2	7	NA
Erie	157	91	248	27	36.2	82	143.5	65	115.6	38	74.6	36	89.4
Forest	7	5	12	1	NA	1	NA	8	NA	0	NA	2	NA
Jefferson	54	16	70	12	110.1	19	244.5	15	165.4	13	143.7	11	132.3
Lawrence	67	32	99	14	61.8	24	159.0	23	127.5	18	101.1	20	120.0
McKean	27	18	45	4	NA	8	NA	8	NA	9	NA	16	215.3
Mercer	59	33	92	7	NA	24	119.9	17	73.8	21	92.5	23	110.6
Venango	47	23	70	9	NA	26	291.4	13	118.5	12	104.3	10	105.5
Warren	17	17	34	7	NA	6	NA	10	120.2	3	NA	8	NA
<b>Southwest</b>	1,830	1,258	<b>3,088</b>	358	55.3	871	179.7	717	128.3	585	107.6	557	119.6
Allegheny	721	519	1,240	135	45.9	342	151.4	279	111.2	264	110.1	220	107.5
Armstrong	55	34	89	13	76.8	32	303.2	16	112.4	14	98.8	14	108.4
Beaver	98	72	170	17	42.3	38	132.2	49	137.0	25	69.3	41	129.4
Butler	126	77	203	25	51.4	52	161.3	43	108.3	40	112.7	43	160.6
Cambria	129	75	204	27	81.6	75	293.5	43	146.5	25	85.0	34	126.3
Fayette	108	75	183	24	71.0	51	211.0	37	122.8	29	95.3	42	165.6
Greene	18	9	27	1	NA	7	NA	7	NA	6	NA	6	NA
Indiana	72	34	106	12	52.5	30	164.3	33	208.1	18	109.9	13	92.0
Somerset	52	52	104	14	83.6	22	157.4	25	150.2	13	84.4	30	204.6
Washington	143	93	236	32	64.2	61	163.3	65	155.7	47	112.4	31	87.0
Westmoreland	308	218	526	58	70.4	161	268.4	120	157.7	104	136.2	83	124.3

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: MOTOR VEHICLE TRAFFIC

**NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI),  
BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2008**

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	237	149.9	130.8-169.0 +	Allegheny	884	82.7	77.3-88.2 -	Berks	25	54.7	33.2-76.1 -
Chester	27	90.1	56.1-124.1	Chester	334	76.0	67.9-84.2 -	Lancaster	0	NA	
Dauphin	45	101.4	71.7-131.0	Dauphin	139	71.7	59.8-83.7 -	Lehigh	51	82.8	60.1-105.5
Delaware	117	117.2	96.0-138.4	Delaware	438	97.7	88.5-106.8	Philadelphia	212	129.3	111.9-146.7
Montgomery	59	79.8	59.4-100.1 -	Montgomery	532	77.5	70.9-84.1 -				
Philadelphia	833	125.8	117.3-134.4	Philadelphia	588	80.3	73.8-86.8 -				
Pennsylvania	1,552	115.7	109.9-121.4	Pennsylvania	10,342	93.1	91.3-94.9	Pennsylvania	566	111.8	102.6-121.0

**NUMBER FOR SELECT AGE GROUPS AND AGE-SPECIFIC HOSPITALIZATION RATES  
BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2008**

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	13.5%	143	94	<b>237</b>	19.1%	35	63.6	79	221.2	54	176.7	50	203.0	19	104.5
	White	82.8%	500	384	<b>884</b>	71.3%	88	39.5	222	124.9	193	91.5	194	92.2	187	101.8
Chester	Black	6.2%	16	11	<b>27</b>	7.0%	1	NA	11	155.2	9	NA	4	NA	2	NA
	White	89.5%	205	129	<b>334</b>	87.2%	59	48.7	92	117.3	69	69.7	58	68.4	56	98.9
Dauphin	Black	17.9%	32	13	<b>45</b>	21.2%	13	82.1	12	126.9	9	NA	5	NA	6	NA
	White	77.2%	79	60	<b>139</b>	65.6%	19	41.3	40	117.3	35	79.0	22	51.0	23	75.2
Delaware	Black	18.8%	69	48	<b>117</b>	19.8%	15	43.8	37	141.2	38	173.8	13	93.4	14	176.9
	White	75.4%	262	176	<b>438</b>	74.1%	43	41.1	115	155.2	78	90.7	96	113.3	106	155.2
Montgomery	Black	8.9%	38	21	<b>59</b>	8.6%	11	55.3	21	132.7	13	79.3	14	126.4	0	NA
	White	84.0%	319	213	<b>532</b>	77.3%	59	36.2	118	104.3	101	70.4	112	87.1	142	134.4
Philadelphia	Black	45.6%	506	327	<b>833</b>	47.9%	188	88.3	274	186.6	174	136.1	130	127.7	67	95.1
	White	46.9%	357	231	<b>588</b>	33.8%	59	36.6	164	103.4	112	83.8	112	95.8	141	130.4
Pennsylvania	Black	10.7%	960	592	<b>1,552</b>	11.6%	319	73.4	506	161.9	350	131.2	254	130.0	123	96.4
	White	85.7%	6,291	4,034	<b>10,342</b>	77.5%	1,301	49.6	2,674	137.1	2,271	101.8	1,998	94.7	2,097	119.6

## INJURY HOSPITALIZATIONS: SELF-POISONING

In 2008, among Pennsylvania residents, there were 8,186 hospitalizations due to self-inflicted poisoning (self-poisoning). On average, one resident was hospitalized every 65 minutes.

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### ***Injury Definition***

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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.

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### **HIGHLIGHTS**

- *Age-adjusted rates have generally been **increasing** over 2004 to 2008.*
- *Most common demographic is **white females**, ages 15 to 49.*
- *Of all Pennsylvania counties, **Carbon and Lawrence** show the highest rates.*

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### ***Trends Over Time***

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- Age-adjusted hospitalization rates for self-poisoning increased by 9 percent from 2004 to 2008, from 62.1 to 67.5 hospitalizations per 100,000 population.
- Females showed significantly higher age-adjusted self-poisoning hospitalization rates than males over 2004 to 2008 (rates were 79.6 and 55.5, respectively, in 2008).
- Black males showed significantly higher age-adjusted self-poisoning hospitalization rates than white males over 2004 to 2008.

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### ***Demographic Trends***

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- Females showed significantly higher self-poisoning hospitalization rates among most ages less than 65, while males showed higher rates for ages 75 and older.
- Among males, whites showed higher self-poisoning hospitalization rates for ages 15 to 29, while blacks showed significantly higher rates for ages 35 to 59.
- Rural populations showed higher self-poisoning hospitalization rates for ages under 40, while urban populations generally showed higher rates for ages 40 and older.

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### ***Regional Trends***

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- 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.
- Eleven counties showed age-adjusted self-poisoning hospitalization rates in 2008 that were significantly higher than the comparable state rate.

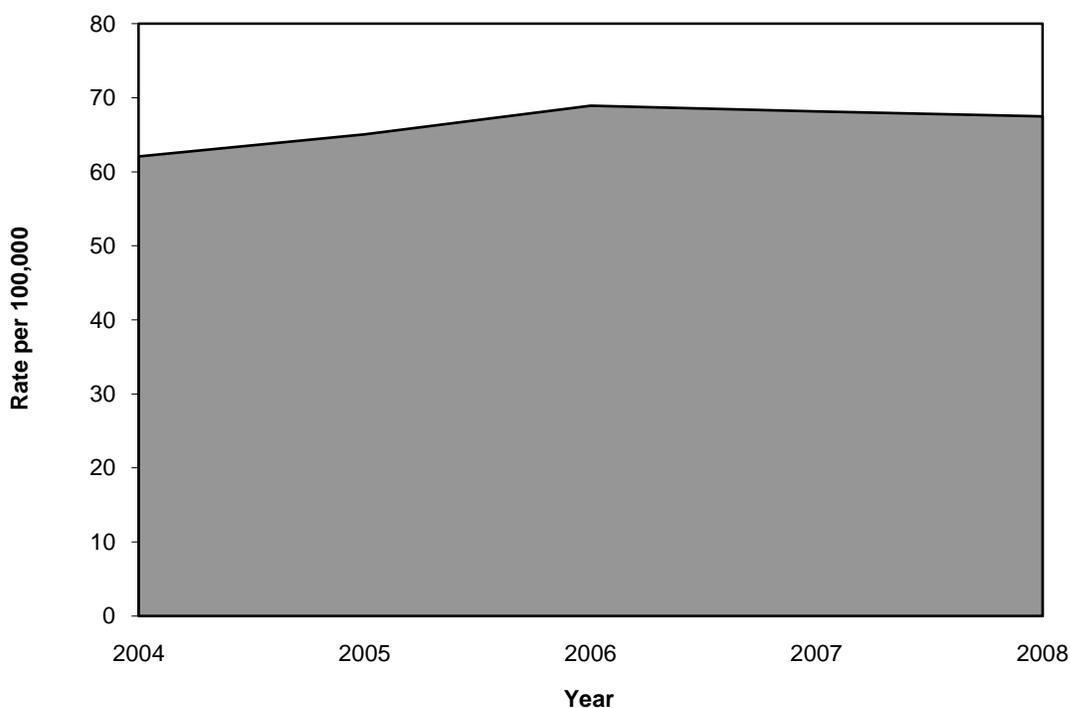
## INJURY HOSPITALIZATIONS: SELF-POISONING

### TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, 2004-2008

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Year	No.	Rate
2004	7,495	62.1
2005	7,839	65.1
2006	8,325	68.9
2007	8,220	68.2
2008	8,186	67.5

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### AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2004-2008

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Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2004	80.1	56.3	68.1	62.7	51.0	60.0
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

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

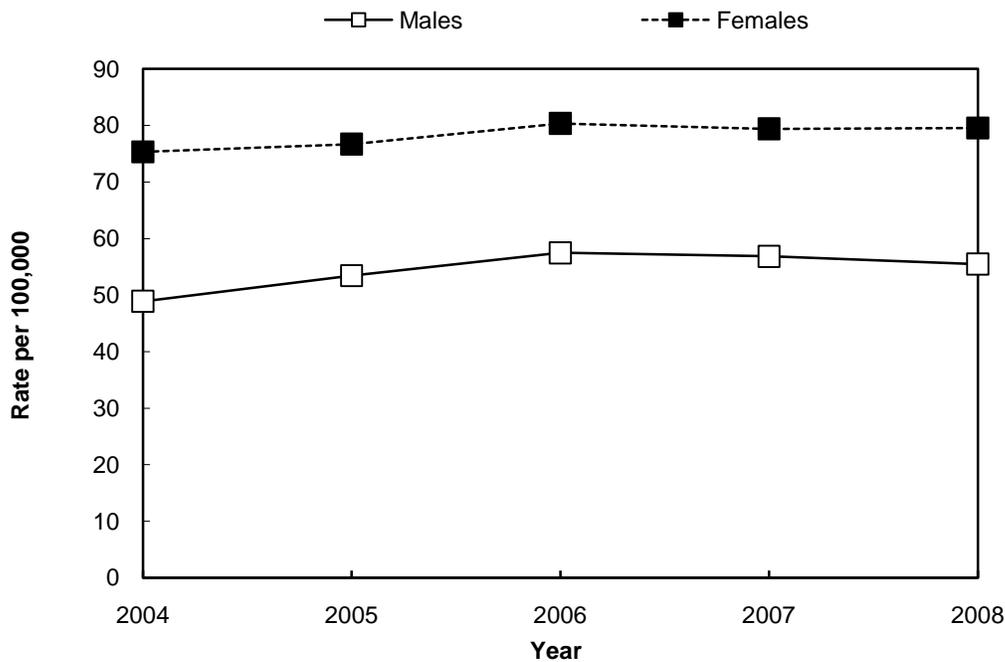
Rates are per 100,000. Data for 2004-2008 based on ICD-9-CM codes. See Technical Notes.

# INJURY HOSPITALIZATIONS: SELF-POISONING

## TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX PENNSYLVANIA RESIDENTS, 2004-2008

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2004	2,917	48.9 *	2004	4,578	75.3
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

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



### AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2004-2008

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2004	49.5	47.4	2004	72.9	82.3 *
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 *

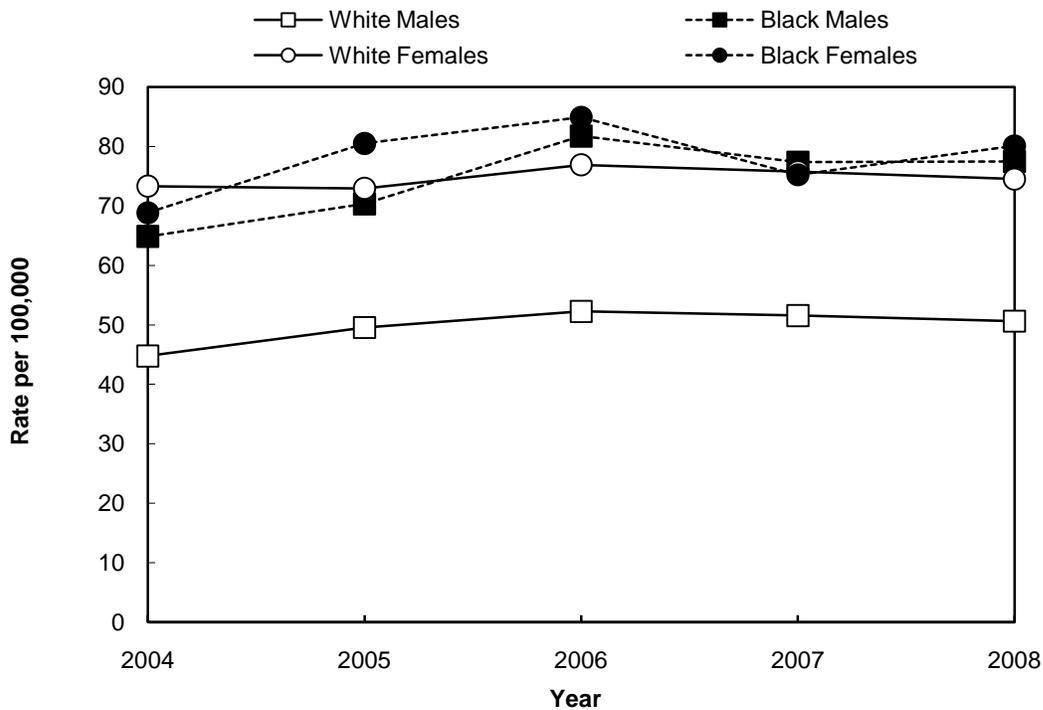
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

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, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	2,312	385	3,815	468	172	201
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



### AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	44.8	64.9 *	73.3	68.8	75.7	83.1
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

\* 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, 2008

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL				
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate			
<b>TOTAL</b>	<b>8,186</b>	<b>65.8</b>	<b>3,337</b>	<b>55.2</b>	<b>4,848</b>	<b>75.8</b>			<b>5,950</b>	<b>65.9</b>	<b>2,236</b>	<b>65.3</b>	
< 5	3	NA	3	NA	0	NA			3	NA	0	NA	
5-9	1	NA	1	NA	0	NA			1	NA	0	NA	
10-14	91	11.4	14	3.4	77	19.7	*		67	11.4	24	11.4	
15-19	861	93.3	304	65.5	557	121.5	*		591	89.1	270	104.0	*
20-24	994	112.2	398	88.4	596	136.7	*		709	111.6	285	113.5	
25-29	868	117.4	328	86.8	540	149.6	*		622	112.7	246	131.5	*
30-34	779	104.6	347	92.3	432	117.1	*		547	99.7	232	118.2	*
35-39	904	112.7	375	93.8	529	131.5	*		634	107.8	270	126.2	*
40-44	1,027	117.4	446	102.8	580	131.4	*		784	122.6	243	103.1	*
45-49	958	104.9	396	87.9	562	121.4	*		686	103.3	272	108.9	
50-54	735	82.8	321	73.8	414	91.4	*		559	87.2	176	71.3	*
55-59	406	50.7	182	46.9	224	54.2			304	53.1	102	44.6	
60-64	245	36.3	99	30.8	146	41.4	*		190	39.9	55	27.7	*
65-69	99	18.7	38	15.6	61	21.3			77	20.9	22	13.6	
70-74	81	18.3	30	15.5	51	20.5			69	22.3	12	9.0	*
75-79	57	15.4	26	17.3	31	14.2			42	16.2	15	13.6	
80-84	44	15.5	18	16.8	26	14.7			35	17.3	9	NA	
85 +	33	11.6	11	12.5	22	11.2			30	14.7	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. 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, 2008**

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>2,607</b>	<b>50.2</b>	<b>462</b>	<b>72.8</b>	<b>3,856</b>	<b>70.5</b>	<b>563</b>	<b>80.2</b>	<b>470</b>	<b>79.1</b>
< 5	0	NA	1	NA	0	NA	0	NA	0	NA
5-9	1	NA	0	NA	0	NA	0	NA	0	NA
10-14	10	3.0	3	NA	49	15.4	11	20.6	12	21.4
15-19	240	62.7	28	45.4	396	104.6	82	135.9 *	61	103.4
20-24	313	84.5	45	74.1	468	130.9	73	122.6	63	119.4
25-29	266	85.7	30	58.5 *	413	140.5	75	147.9	59	121.2
30-34	265	84.5	45	102.0	326	107.0	58	125.7	53	116.1
35-39	287	84.4	61	144.9 *	423	125.1	69	149.0	47	104.8
40-44	333	88.6	88	208.6 *	464	122.9	64	133.6	64	163.1
45-49	307	77.4	68	166.7 *	470	117.0	58	122.1	44	128.7
50-54	259	66.7	45	126.2 *	349	87.7	40	92.3	32	127.1
55-59	134	38.3	33	114.9 *	191	52.2	19	51.7	18	92.1
60-64	82	28.1	6	NA	131	41.5	8	NA	13	97.3
65-69	34	15.2	2	NA	58	22.3	1	NA	2	NA
70-74	23	12.9	6	NA	46	20.3	4	NA	1	NA
75-79	24	17.2	1	NA	26	13.0	1	NA	1	NA
80-84	18	18.1	0	NA	24	14.8	0	NA	0	NA
85 +	11	13.6	0	NA	22	12.2	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 HOSPITALIZATIONS: SELF-POISONING

### TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2008

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>679</b>	<b>73.4</b>	<b>440</b>	<b>64.8</b>	<b>1,118</b>	<b>71.4</b>	<b>3,501</b>	<b>70.8</b>	<b>811</b>	<b>49.6</b>	<b>1,637</b>	<b>60.6</b>
< 5	0	NA	0	NA	0	NA	2	NA	0	NA	1	NA
5-9	0	NA	0	NA	0	NA	0	NA	1	NA	0	NA
10-14	9	NA	4	NA	12	12.0	41	12.3	8	NA	17	10.5
15-19	77	109.8	59	93.3	141	121.8 +	361	97.9	73	63.5 -	150	78.9 -
20-24	79	123.9	66	91.4	135	123.2	414	116.4	110	103.2	190	106.5
25-29	81	156.1 +	56	159.4 +	115	127.1	343	109.4	76	77.8 -	197	130.9
30-34	64	118.9	35	93.3	111	122.8	326	105.8	88	88.6	155	99.5
35-39	86	150.3 +	47	116.9	126	127.2	350	106.3	109	101.7	186	110.0
40-44	80	127.2	52	118.1	137	125.1	475	134.1 +	96	82.1 -	187	99.7 -
45-49	86	128.0	44	95.3	130	113.0	409	113.1	89	73.4 -	200	98.9
50-54	57	86.1	32	70.3	89	78.8	344	100.4 +	61	51.8 -	152	75.0
55-59	27	44.4	18	42.9	66	63.5	179	59.4 +	35	32.4 -	81	43.8
60-64	13	24.8	10	27.6	24	26.4	108	43.6	35	38.6	55	35.3
65-69	8	NA	4	NA	13	18.1	41	21.5	10	13.7	23	18.9
70-74	4	NA	4	NA	2	NA	55	34.8 +	3	NA	13	12.3
75-79	4	NA	6	NA	5	NA	19	14.5	11	23.2	12	13.1
80-84	3	NA	3	NA	5	NA	19	18.5	3	NA	11	15.1
85 +	1	NA	0	NA	7	NA	15	14.5	3	NA	7	NA

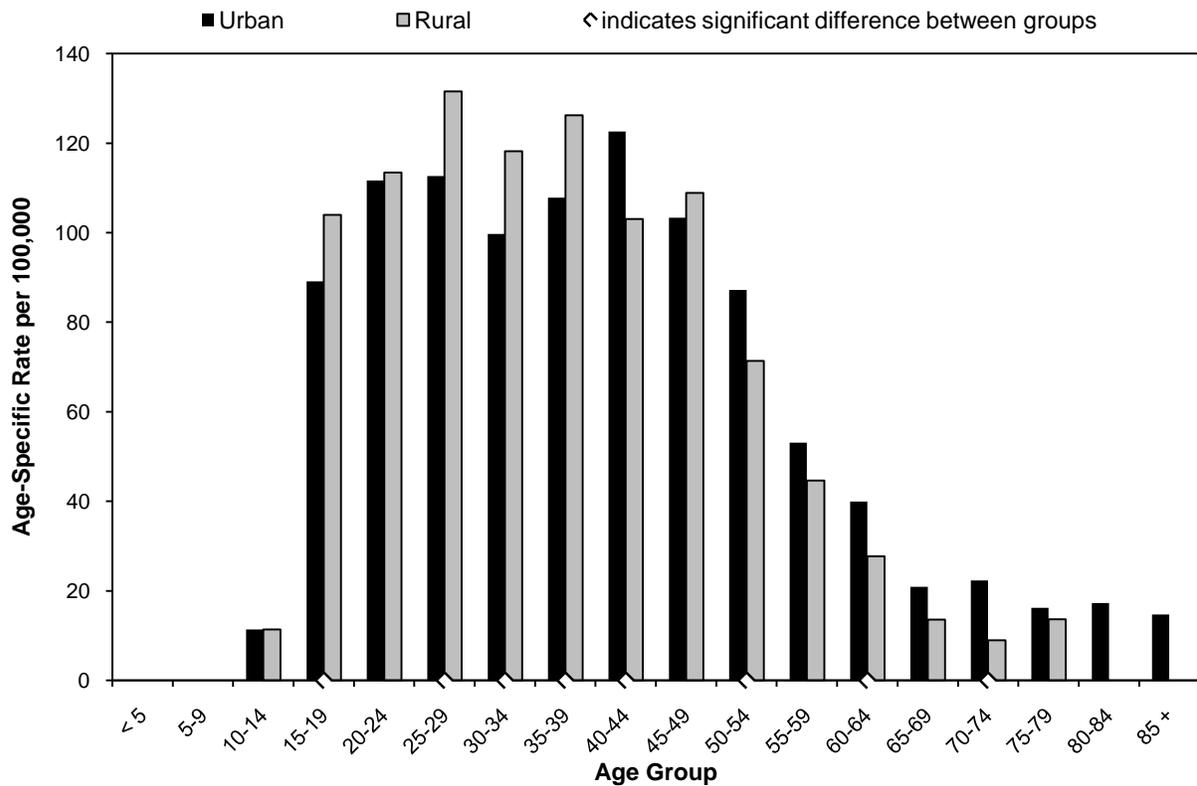
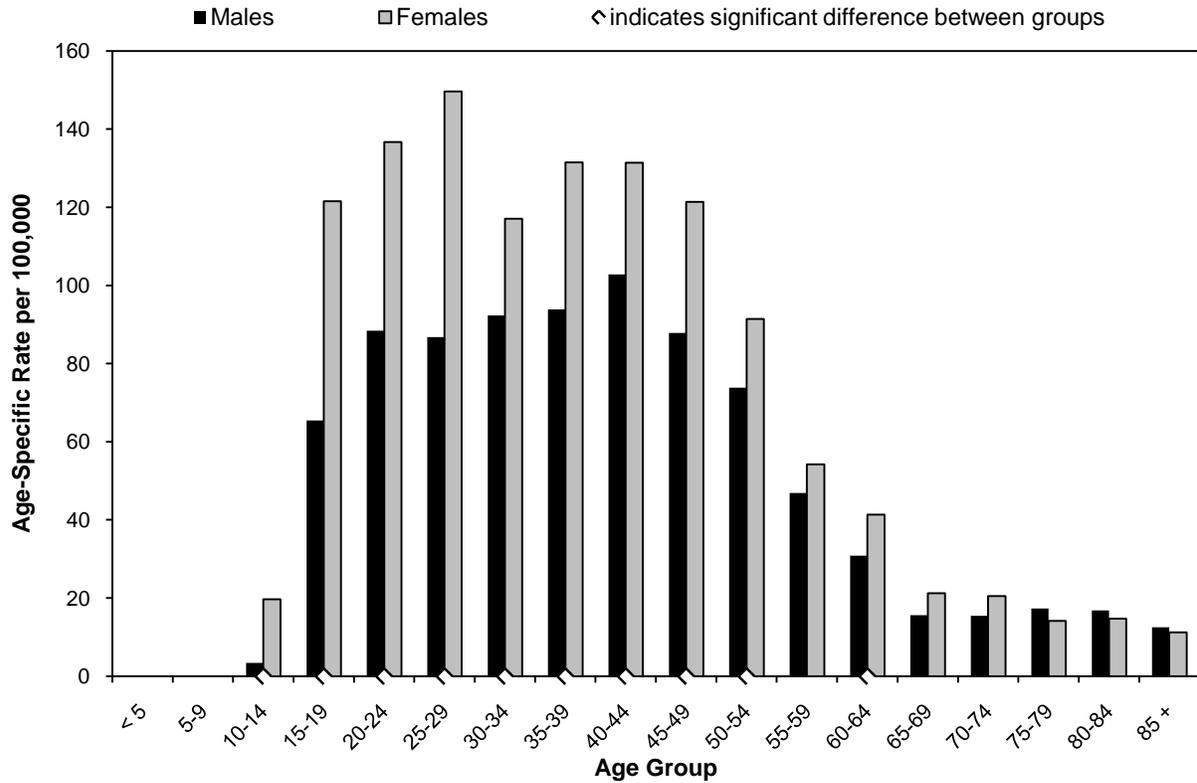
*+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.*

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.

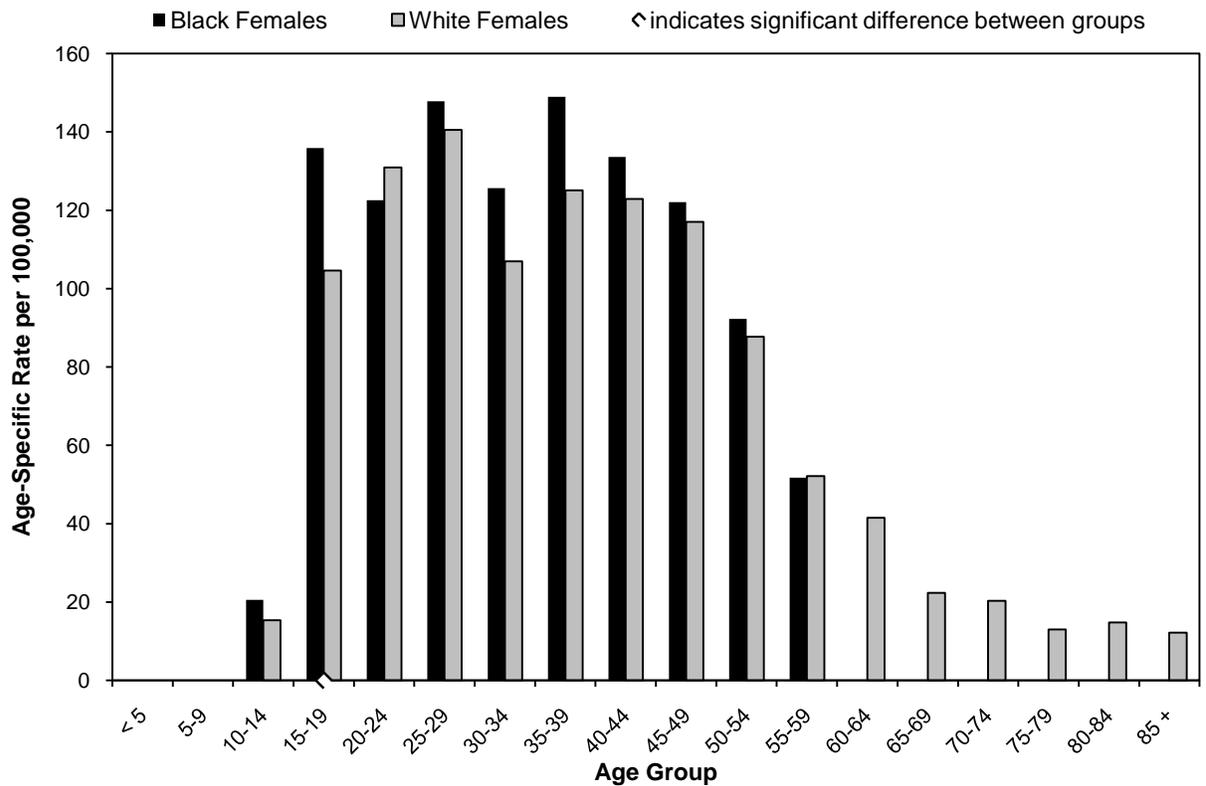
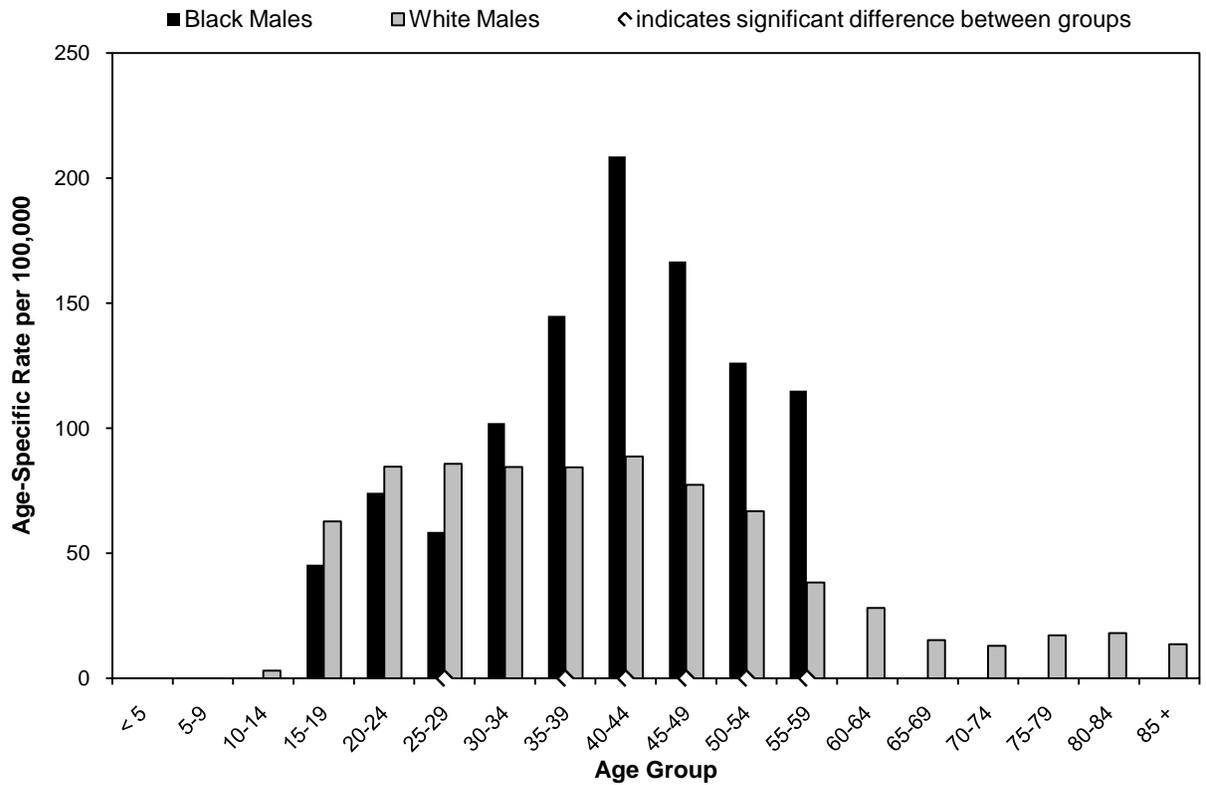
# INJURY HOSPITALIZATIONS: SELF-POISONING

## AGE-SPECIFIC HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS PENNSYLVANIA RESIDENTS, 2008



# INJURY HOSPITALIZATIONS: SELF-POISONING

## AGE-SPECIFIC HOSPITALIZATION RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2008



## INJURY HOSPITALIZATIONS: SELF-POISONING

### NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2008

District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
<b>Northeast</b>	1,118	74.1	69.7-78.4 +	<b>Southeast</b>	3,501	71.7	69.3-74.1 +
Carbon	78	129.7	100.9-158.5 +	Berks	257	65.2	57.2-73.1
Lackawanna	160	79.1	66.9-91.4	Bucks	409	68.8	62.1-75.4
Lehigh	264	81.3	71.5-91.1 +	Chester	231	47.5	41.4-53.7 -
Luzerne	138	45.7	38.0-53.3 -	Delaware	488	88.4	80.6-96.3 +
Monroe	118	69.8	57.2-82.4	Lancaster	228	47.2	41.1-53.3 -
Northampton	269	95.1	83.8-106.5 +	Montgomery	386	50.9	45.8-56.0 -
Pike	10	NA		Philadelphia	1,336	94.8	89.7-99.9 +
Susquehanna	28	78.3	49.3-107.3	Schuylkill	166	116.8	99.1-134.6 +
Wayne	36	76.3	51.4-101.2				
Wyoming	17	NA					
<b>North Central</b>	440	66.1	59.9-72.3	<b>South Central</b>	811	51.5	47.9-55.0 -
Bradford	59	108.8	81.0-136.6 +	Adams	28	27.5	17.3-37.7 -
Centre	92	67.4	53.6-81.2	Bedford	20	45.7	25.6-65.7 -
Clinton	20	55.4	31.1-79.7	Blair	96	82.7	66.2-99.3
Columbia	44	66.2	46.6-85.7	Cumberland	91	40.5	32.2-48.9 -
Lycoming	43	36.4	25.5-47.2 -	Dauphin	137	55.6	46.3-64.9 -
Montour	16	NA		Franklin	58	43.8	32.5-55.0 -
Northumberland	91	110.6	87.9-133.3 +	Fulton	4	NA	
Potter	16	NA		Huntingdon	35	79.1	52.9-105.2
Snyder	22	60.9	35.4-86.3	Juniata	11	NA	
Sullivan	6	NA		Lebanon	37	30.6	20.7-40.4 -
Tioga	13	NA		Mifflin	22	55.8	32.5-79.1
Union	18	NA		Perry	16	NA	
				York	256	61.5	53.9-69.0
<b>Northwest</b>	679	77.7	71.9-83.6 +	<b>Southwest</b>	1,637	63.3	60.2-66.4
Cameron	5	NA		Allegheny	686	57.7	53.4-62.0 -
Clarion	10	NA		Armstrong	50	86.7	62.7-110.8
Clearfield	56	71.0	52.4-89.6	Beaver	115	72.8	59.5-86.1
Crawford	75	88.9	68.8-109.0	Butler	58	32.2	23.9-40.4 -
Elk	17	NA		Cambria	145	108.8	91.1-126.5 +
Erie	213	77.6	67.1-88.0	Fayette	109	82.3	66.9-97.8
Forest	0	NA		Greene	31	81.9	53.1-110.7
Jefferson	26	60.1	37.0-83.2	Indiana	61	80.4	60.2-100.5
Lawrence	99	123.0	98.7-147.2 +	Somerset	28	37.8	23.8-51.8 -
McKean	29	71.2	45.3-97.1	Washington	105	54.1	43.7-64.4 -
Mercer	103	98.9	79.8-118.0 +	Westmoreland	249	71.8	62.8-80.7
Venango	35	71.4	47.7-95.0				
Warren	11	NA		<b>Pennsylvania</b>	<b>8,186</b>	<b>67.5</b>	<b>66.0-69.0</b>

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

### TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2008

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	3,337	4,848	<b>8,186</b>	956	29.7	2,641	111.4	2,889	111.5	1,386	58.7	314	16.4
<b>Northeast</b>	425	693	<b>1,118</b>	153	38.9	361	124.3	393	121.4	179	58.2	32	12.8
Carbon	29	49	78	12	86.6	30	240.1	22	167.3	13	98.5	1	NA
Lackawanna	71	89	160	15	29.7	48	120.5	58	140.3	32	79.9	7	NA
Lehigh	90	174	264	41	45.7	86	133.7	91	130.7	39	60.6	7	NA
Luzerne	61	77	138	18	25.2	46	79.3	44	68.2	28	45.8	2	NA
Monroe	40	78	118	14	30.4	34	112.6	45	122.3	22	68.2	3	NA
Northampton	103	166	269	39	49.2	87	155.8	100	164.5	33	59.1	10	23.2
Pike	1	9	10	4	NA	2	NA	1	NA	3	NA	0	NA
Susquehanna	16	12	28	4	NA	12	176.1	9	NA	3	NA	0	NA
Wayne	8	28	36	6	NA	10	115.8	16	155.2	4	NA	0	NA
Wyoming	6	11	17	0	NA	6	NA	7	NA	2	NA	2	NA
<b>Southeast</b>	1,512	1,989	<b>3,501</b>	404	30.0	1,083	110.8	1,234	118.1	631	70.8	149	21.7
Berks	92	165	257	36	31.8	64	85.6	100	117.6	46	62.9	11	19.1
Bucks	171	238	409	46	28.7	140	134.8	141	97.4	63	49.9	19	22.0
Chester	95	136	231	32	23.2	66	73.4	83	75.0	35	38.2	15	24.5
Delaware	220	268	488	55	36.8	158	147.5	156	135.1	98	95.0	21	26.8
Lancaster	91	137	228	28	19.6	77	80.1	69	68.7	45	50.6	9	NA
Montgomery	135	251	386	54	27.0	112	79.6	125	71.8	66	44.8	29	25.0
Philadelphia	644	692	1,336	125	30.6	415	122.9	502	178.0	253	108.6	41	22.0
Schuylkill	64	102	166	28	86.7	51	187.1	58	177.1	25	88.5	4	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	3,337	4,848	<b>8,186</b>	956	29.7	2,641	111.4	2,889	111.5	1,386	58.7	314	16.4
<b>North Central</b>	162	278	<b>440</b>	63	36.5	157	108.4	143	109.7	60	48.5	17	15.9
Bradford	21	38	59	9	NA	20	193.4	25	198.3	4	NA	1	NA
Centre	28	64	92	9	NA	48	109.4	23	94.5	7	NA	5	NA
Clinton	9	11	20	1	NA	7	NA	7	NA	5	NA	0	NA
Columbia	19	25	44	6	NA	17	120.2	9	NA	8	NA	4	NA
Lycoming	21	22	43	5	NA	9	NA	12	50.9	14	61.6	3	NA
Montour	5	11	16	4	NA	3	NA	7	NA	2	NA	0	NA
Northumberland	30	61	91	13	61.3	30	199.7	34	177.4	10	53.7	4	NA
Potter	8	8	16	1	NA	4	NA	8	NA	3	NA	0	NA
Snyder	6	16	22	3	NA	9	NA	5	NA	5	NA	0	NA
Sullivan	3	3	6	3	NA	0	NA	3	NA	0	NA	0	NA
Tioga	4	9	13	4	NA	3	NA	4	NA	2	NA	0	NA
Union	8	10	18	5	NA	7	NA	6	NA	0	NA	0	NA
<b>South Central</b>	319	492	<b>811</b>	82	19.5	274	90.2	294	85.1	131	41.4	30	12.1
Adams	14	14	28	5	NA	11	58.4	5	NA	5	NA	2	NA
Bedford	8	12	20	1	NA	8	NA	6	NA	4	NA	1	NA
Blair	38	58	96	14	45.2	32	141.7	34	135.9	13	52.1	3	NA
Cumberland	25	66	91	7	NA	31	66.1	36	77.8	13	30.5	4	NA
Dauphin	56	81	137	11	16.4	40	86.9	56	98.8	22	42.4	8	NA
Franklin	20	38	58	8	NA	18	68.6	25	88.3	7	NA	0	NA
Fulton	3	1	4	1	NA	0	NA	2	NA	1	NA	0	NA
Huntingdon	12	23	35	5	NA	13	140.3	12	123.2	3	NA	2	NA
Juniata	6	5	11	1	NA	6	NA	0	NA	4	NA	0	NA
Lebanon	10	27	37	9	NA	9	NA	13	51.1	5	NA	1	NA
Mifflin	6	16	22	0	NA	12	155.6	7	NA	3	NA	0	NA
Perry	2	14	16	0	NA	5	NA	8	NA	3	NA	0	NA
York	119	137	256	20	18.2	89	114.2	90	94.4	48	58.3	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	3,337	4,848	<b>8,186</b>	956	29.7	2,641	111.4	2,889	111.5	1,386	58.7	314	16.4
<b>Northwest</b>	298	381	<b>679</b>	86	36.7	224	132.2	252	134.5	97	54.0	20	12.9
Cameron	2	3	5	1	NA	2	NA	1	NA	1	NA	0	NA
Clarion	4	6	10	0	NA	3	NA	3	NA	4	NA	0	NA
Clearfield	24	32	56	9	NA	19	126.6	15	81.2	12	71.9	1	NA
Crawford	28	47	75	10	42.4	17	109.1	29	168.5	13	73.9	6	NA
Elk	9	8	17	5	NA	6	NA	6	NA	0	NA	0	NA
Erie	90	123	213	23	30.8	72	126.0	82	145.9	30	58.9	6	NA
Forest	0	0	0	0	NA	0	NA	0	NA	0	NA	0	NA
Jefferson	12	14	26	1	NA	10	128.7	10	110.2	3	NA	2	NA
Lawrence	53	46	99	12	53.0	31	205.4	44	243.9	10	56.1	2	NA
McKean	10	19	29	5	NA	18	226.1	4	NA	2	NA	0	NA
Mercer	42	61	103	11	36.5	37	184.8	40	173.7	15	66.1	0	NA
Venango	18	17	35	6	NA	7	NA	16	145.9	3	NA	3	NA
Warren	6	5	11	3	NA	2	NA	2	NA	4	NA	0	NA
<b>Southwest</b>	621	1,015	<b>1,637</b>	168	26.0	542	111.8	573	102.5	288	53.0	66	14.2
Allegheny	270	416	686	71	24.2	215	95.1	243	96.9	120	50.0	37	18.1
Armstrong	19	31	50	5	NA	26	246.4	14	98.3	4	NA	1	NA
Beaver	46	69	115	12	29.9	44	153.0	35	97.8	19	52.6	5	NA
Butler	26	32	58	6	NA	16	49.6	21	52.9	13	36.6	2	NA
Cambria	52	93	145	12	36.3	55	215.2	57	194.2	18	61.2	3	NA
Fayette	39	70	109	10	29.6	41	169.6	34	112.8	22	72.3	2	NA
Greene	13	17	31	7	NA	5	NA	14	166.0	4	NA	1	NA
Indiana	23	38	61	8	NA	18	98.6	25	157.6	9	NA	1	NA
Somerset	10	18	28	2	NA	9	NA	12	72.1	4	NA	1	NA
Washington	36	69	105	15	30.1	34	91.0	38	91.0	17	40.6	1	NA
Westmoreland	87	162	249	20	24.3	79	131.7	80	105.1	58	76.0	12	18.0

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: SELF-POISONING

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI),  
BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2008

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	103	66.4	53.6-79.3	Allegheny	572	58.1	53.3-62.8	Berks	37	68.7	46.6-90.9
Chester	21	72.8	41.7-103.9	Chester	199	45.9	39.5-52.3 -	Lancaster	4	NA	
Dauphin	22	52.2	30.4-74.0	Dauphin	105	54.9	44.4-65.4	Lehigh	45	82.8	58.6-107.0
Delaware	85	78.8	62.1-95.6	Delaware	387	95.2	85.7-104.6 +	Philadelphia	195	118.6	101.9-135.2 +
Montgomery	32	44.7	29.2-60.1 -	Montgomery	319	50.3	44.8-55.8 -				
Philadelphia	551	88.3	81.0-95.7	Philadelphia	567	83.8	76.9-90.7 +				
Pennsylvania	1,025	78.0	73.2-82.7	Pennsylvania	6,463	62.5	61.0-64.0	Pennsylvania	470	82.1	74.7-89.5

NUMBER FOR SELECT AGE GROUPS AND AGE-SPECIFIC HOSPITALIZATION RATES  
BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2008

Select Counties	Pct.	Sex		Total	Pct.	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	
County and Race	Cty. Pop.			All Ages	Cty. Total											
Allegheny	Black	13.5%	37	66	<b>103</b>	15.0%	15	27.3	33	92.4	44	143.9	8	NA	3	NA
	White	82.8%	229	343	<b>572</b>	83.4%	52	23.3	179	100.7	196	92.9	111	52.8	34	18.5
Chester	Black	6.2%	6	15	<b>21</b>	9.1%	0	NA	12	169.3	7	NA	2	NA	0	NA
	White	89.5%	85	114	<b>199</b>	86.1%	27	22.3	50	63.8	74	74.8	33	38.9	15	26.5
Dauphin	Black	17.9%	8	14	<b>22</b>	16.1%	0	NA	11	116.3	9	NA	1	NA	1	NA
	White	77.2%	45	60	<b>105</b>	76.6%	10	21.7	25	73.3	43	97.1	20	46.4	7	NA
Delaware	Black	18.8%	40	45	<b>85</b>	17.4%	11	32.2	29	110.6	33	150.9	11	79.0	1	NA
	White	75.4%	172	215	<b>387</b>	79.3%	40	38.3	124	167.3	120	139.5	84	99.2	19	27.8
Montgomery	Black	8.9%	15	17	<b>32</b>	8.3%	4	NA	10	63.2	12	73.2	5	NA	1	NA
	White	84.0%	117	202	<b>319</b>	82.6%	38	23.3	93	82.2	102	71.1	59	45.9	27	25.6
Philadelphia	Black	45.6%	266	285	<b>551</b>	41.2%	52	24.4	152	103.5	229	179.1	109	107.1	9	NA
	White	46.9%	290	277	<b>567</b>	42.4%	26	16.1	178	112.2	211	157.9	120	102.7	32	29.6
Pennsylvania	Black	10.7%	462	563	<b>1,025</b>	12.5%	125	28.8	326	104.3	408	152.9	151	77.3	15	11.8
	White	85.7%	2,607	3,856	<b>6,463</b>	79.0%	696	26.5	2,051	105.2	2,284	102.4	1,146	54.3	286	16.3

## INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL INJURIES

In 2008, among Pennsylvania residents, there were 127,101 hospitalizations due to unintentional injury. On average, one resident was hospitalized every five minutes.

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### ***Injury Definition***

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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 **increasing** over 2004 to 2008.*
- *Most common demographic is **white females, 65 and older.***
- *Of all Pennsylvania counties, **Wyoming and Philadelphia** show the highest rates.*

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### ***Trends Over Time***

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- Age-adjusted hospitalization rates for unintentional injury increased by 6 percent from 2004 to 2008, from 836.5 to 890.3 hospitalizations per 100,000 population.
- Males showed significantly higher age-adjusted hospitalization rates than females over 2004 to 2008 (rates were 965.6 and 799.2, respectively, in 2008).
- Black males and females showed significantly higher age-adjusted hospitalization rates than white males and females over 2004 to 2008.

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### ***Demographic Trends***

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- 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.
- Among males, blacks showed significantly higher hospitalization rates for most ages less than 75, while whites showed significantly higher rates for ages 80 and older.
- Among females, blacks showed significantly higher hospitalization rates for most ages less than 70, while whites showed significantly higher rates for ages 75 and older.

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### ***Regional Trends***

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- The Northeast 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.
- Nineteen counties showed age-adjusted hospitalization rates for 2008 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.

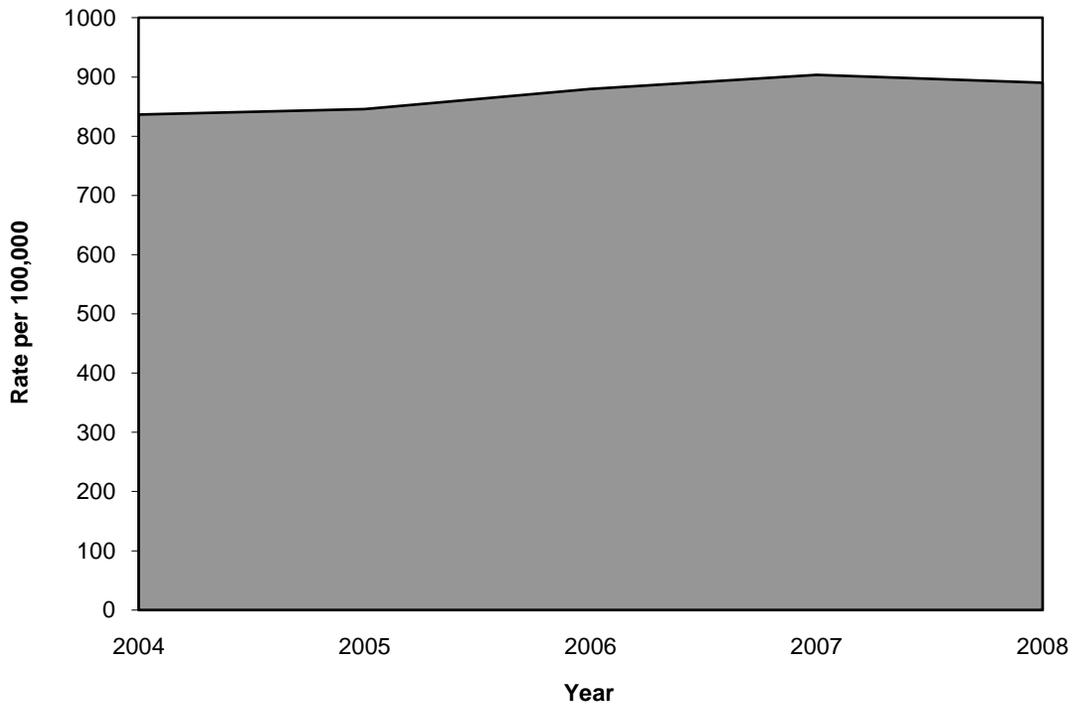
# INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL

## TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, 2004-2008

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Year	No.	Rate
2004	116,006	836.5
2005	118,091	845.8
2006	120,546	879.8
2007	125,226	903.5
2008	127,101	890.3

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## AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2004-2008

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Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2004	858.1	667.1	832.5	874.8	697.5	881.1
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

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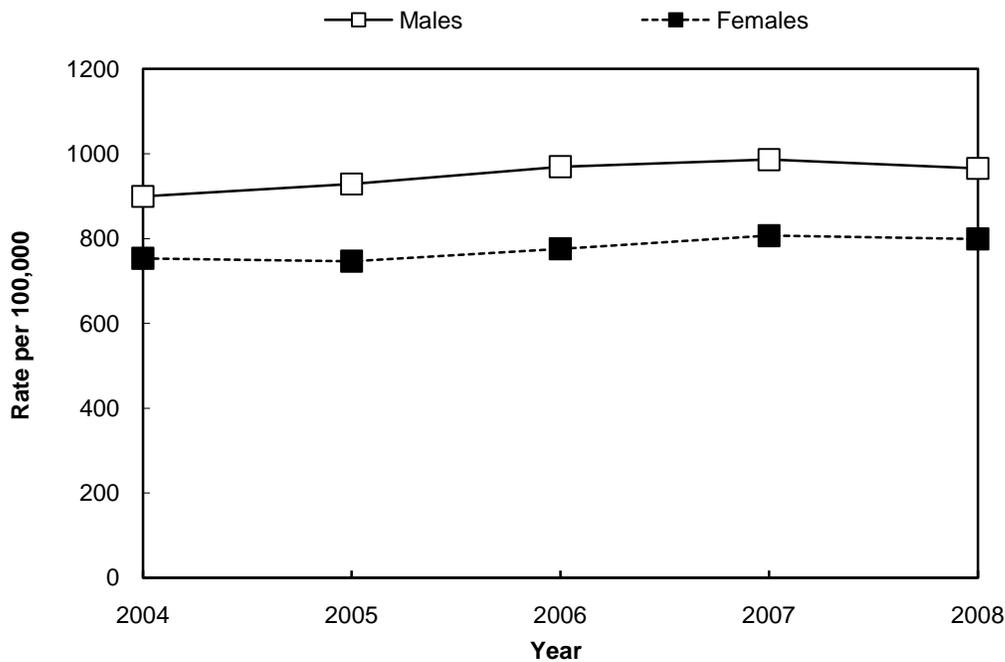
NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2004-2008 based on ICD-9-CM codes. See Technical Notes.

## INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL

### TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX PENNSYLVANIA RESIDENTS, 2004-2008

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2004	53,586	899.5 *	2004	62,415	753.5
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

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



### AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2004-2008

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2004	909.5	873.5 *	2004	757.6	742.2
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 *

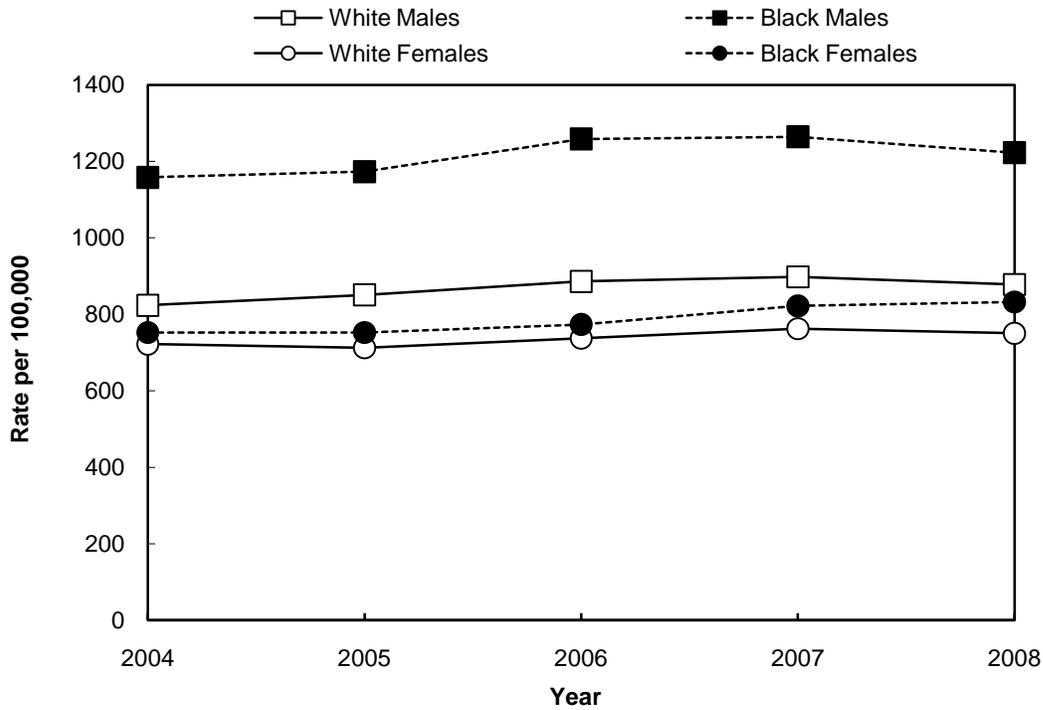
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

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, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	43,669	6,226	54,940	4,949	1,744	1,324
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



### AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	823.6	1,158.0 *	722.3	752.3 *	1,019.4	980.2
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

\* 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, 2008

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
<b>TOTAL</b>	<b>127,101</b>	<b>1,021.0</b>	<b>59,344</b>	<b>980.8</b>	<b>67,719</b>	<b>1,058.5</b>			<b>92,291</b>	<b>1,022.9</b>	<b>34,810</b>	<b>1,016.0</b>
< 5	2,104	285.4	1,226	325.0	876	243.3	*	1,677	303.4	427	231.4	*
5-9	1,363	180.5	843	218.3	520	141.0	*	1,045	186.8	318	162.5	*
10-14	1,807	226.3	1,264	309.9	543	139.0	*	1,318	224.3	489	231.9	
15-19	3,702	401.2	2,558	550.8	1,142	249.1	*	2,575	388.2	1,127	434.2	*
20-24	4,235	477.9	2,807	623.4	1,426	327.1	*	3,051	480.4	1,184	471.3	
25-29	3,969	537.0	2,622	693.5	1,346	372.9	*	2,975	538.9	994	531.5	
30-34	3,526	473.4	2,286	608.1	1,238	335.5	*	2,579	470.1	947	482.5	
35-39	4,139	516.1	2,581	645.8	1,555	386.5	*	3,016	512.8	1,123	525.1	
40-44	5,432	620.7	3,404	785.0	2,024	458.5	*	3,970	620.9	1,462	620.1	
45-49	6,931	758.6	4,317	957.9	2,612	564.2	*	5,152	776.0	1,779	712.4	*
50-54	7,648	861.4	4,493	1,033.5	3,154	696.2	*	5,661	883.0	1,987	805.4	*
55-59	7,263	906.6	3,973	1,024.2	3,284	794.7	*	5,349	934.4	1,914	836.8	*
60-64	7,181	1,065.3	3,674	1,144.0	3,505	993.1	*	5,204	1,093.9	1,977	996.6	*
65-69	7,083	1,335.8	3,272	1,344.0	3,809	1,328.2		4,963	1,346.9	2,120	1,310.6	
70-74	8,078	1,823.3	3,443	1,776.4	4,634	1,859.3	*	5,696	1,843.3	2,382	1,777.0	
75-79	11,526	3,122.3	4,363	2,900.5	7,162	3,274.4	*	8,212	3,170.8	3,314	3,008.4	*
80-84	15,818	5,566.5	5,298	4,943.6	10,517	5,942.0	*	11,409	5,632.2	4,409	5,403.5	*
85 +	25,295	8,907.3	6,919	7,877.4	18,372	9,366.4	*	18,439	9,048.3	6,856	8,548.9	*

\* 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 UNINTENTIONAL

### TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2008

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>47,891</b>	<b>921.8</b>	<b>6,713</b>	<b>1,057.5</b>	<b>58,039</b>	<b>1,061.0</b>	<b>5,727</b>	<b>815.8</b>	<b>3,551</b>	<b>597.8</b>
< 5	693	227.1	283	546.5 *	484	166.6	207	410.3 *	236	347.1
5-9	534	169.9	188	365.3 *	342	114.3	107	215.0 *	110	182.3
10-14	910	272.6	206	372.3 *	379	119.0	113	211.4 *	84	150.0
15-19	1,934	505.4	359	581.5 *	851	224.8	156	258.5	161	272.9
20-24	2,134	576.4	345	568.2	1,026	287.0	245	411.4 *	223	422.8
25-29	1,947	627.1	360	701.4 *	1,011	344.0	216	425.9 *	195	400.4
30-34	1,644	523.9	335	759.2 *	885	290.5	222	481.1 *	210	459.9
35-39	1,886	554.4	406	964.1 *	1,154	341.4	247	533.3 *	199	443.7
40-44	2,544	677.0	515	1,220.6 *	1,533	406.0	340	710.0 *	242	616.8
45-49	3,253	819.6	720	1,764.7 *	1,977	492.2	438	921.7 *	257	752.0
50-54	3,415	879.9	734	2,057.8 *	2,490	626.0	468	1,079.4 *	236	937.6
55-59	3,136	895.9	554	1,929.7 *	2,640	721.0	433	1,178.8 *	201	1,028.1
60-64	2,966	1,015.5	431	1,984.3 *	2,925	926.6	357	1,220.9 *	207	1,549.2
65-69	2,736	1,223.8	324	2,170.6 *	3,259	1,253.9	326	1,523.4 *	166	1,782.5
70-74	2,957	1,657.1	273	2,302.6 *	4,056	1,789.2	338	1,819.7	170	2,562.2
75-79	3,903	2,797.9	233	2,689.6	6,429	3,203.5	404	2,648.7 *	196	4,086.7
80-84	4,872	4,895.5	230	3,724.7 *	9,604	5,902.6	443	3,627.3 *	182	5,827.7
85 +	6,426	7,925.8	217	3,936.2 *	16,994	9,403.5	667	5,102.9 *	276	8,275.9

\* 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. 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, 2008

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>9,891</b>	<b>1,068.7</b>	<b>5,381</b>	<b>792.9</b>	<b>17,341</b>	<b>1,108.0</b>	<b>50,266</b>	<b>1,016.4</b>	<b>12,669</b>	<b>775.4</b>	<b>31,553</b>	<b>1,168.7</b>
< 5	133	259.7	78	221.6 -	280	321.9 +	1,147	356.9 +	192	193.2 -	274	191.5 -
5-9	76	139.9 -	52	145.1	196	215.8 +	660	204.9 +	143	142.4 -	236	155.7 -
10-14	139	236.0	61	159.0 -	279	278.8 +	785	235.5	146	138.6 -	397	244.3
15-19	287	409.2	186	294.3 -	512	442.2 +	1,517	411.4	416	362.1 -	784	412.6
20-24	308	483.0	191	264.5 -	533	486.4	1,832	515.2 +	443	415.5 -	928	520.0 +
25-29	284	547.5	153	435.6 -	470	519.6	1,746	557.0	383	392.0 -	933	620.2 +
30-34	273	507.3	143	381.1 -	461	510.0	1,460	473.8	359	361.6 -	830	533.0 +
35-39	326	569.7	173	430.2 -	539	544.3	1,746	530.4	394	367.6 -	961	568.3 +
40-44	408	648.6	216	490.8 -	737	672.9 +	2,278	643.0	541	462.8 -	1,252	667.6 +
45-49	505	751.5	262	567.4 -	932	810.1 +	3,018	834.3 +	621	511.8 -	1,593	787.9
50-54	580	875.6	265	581.8 -	914	809.2	3,334	973.0 +	732	621.5 -	1,823	899.6
55-59	577	949.4	306	729.0 -	958	921.4	3,000	995.8 +	737	681.6 -	1,685	910.6
60-64	515	981.0	293	807.7 -	988	1,087.2	2,886	1,165.0 +	763	840.4 -	1,736	1,113.3
65-69	638	1,493.5 +	370	1,199.3 -	1,001	1,395.1	2,641	1,388.0 +	684	939.6 -	1,749	1,435.4 +
70-74	715	1,961.4 +	355	1,387.9 -	1,134	1,936.9 +	2,989	1,892.6 +	859	1,456.5 -	2,026	1,919.3 +
75-79	941	3,079.6	517	2,490.6 -	1,647	3,457.5 +	4,169	3,175.5	1,178	2,479.8 -	3,074	3,362.8 +
80-84	1,303	5,644.8	686	4,498.1 -	2,203	6,129.0 +	5,575	5,435.2	1,642	4,770.8 -	4,409	6,048.5 +
85 +	1,883	8,614.7	1,073	7,371.0 -	3,557	9,976.2 +	9,483	9,152.2 +	2,436	7,074.2 -	6,863	9,291.7 +

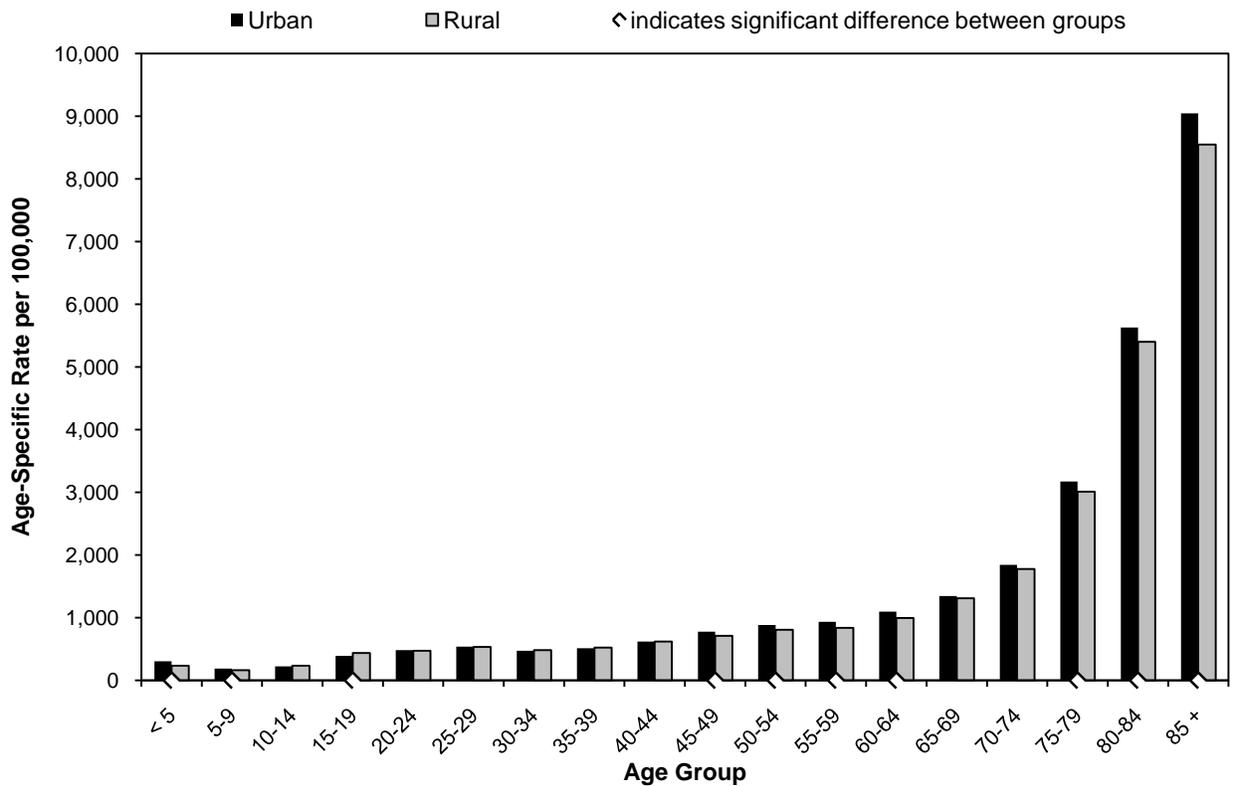
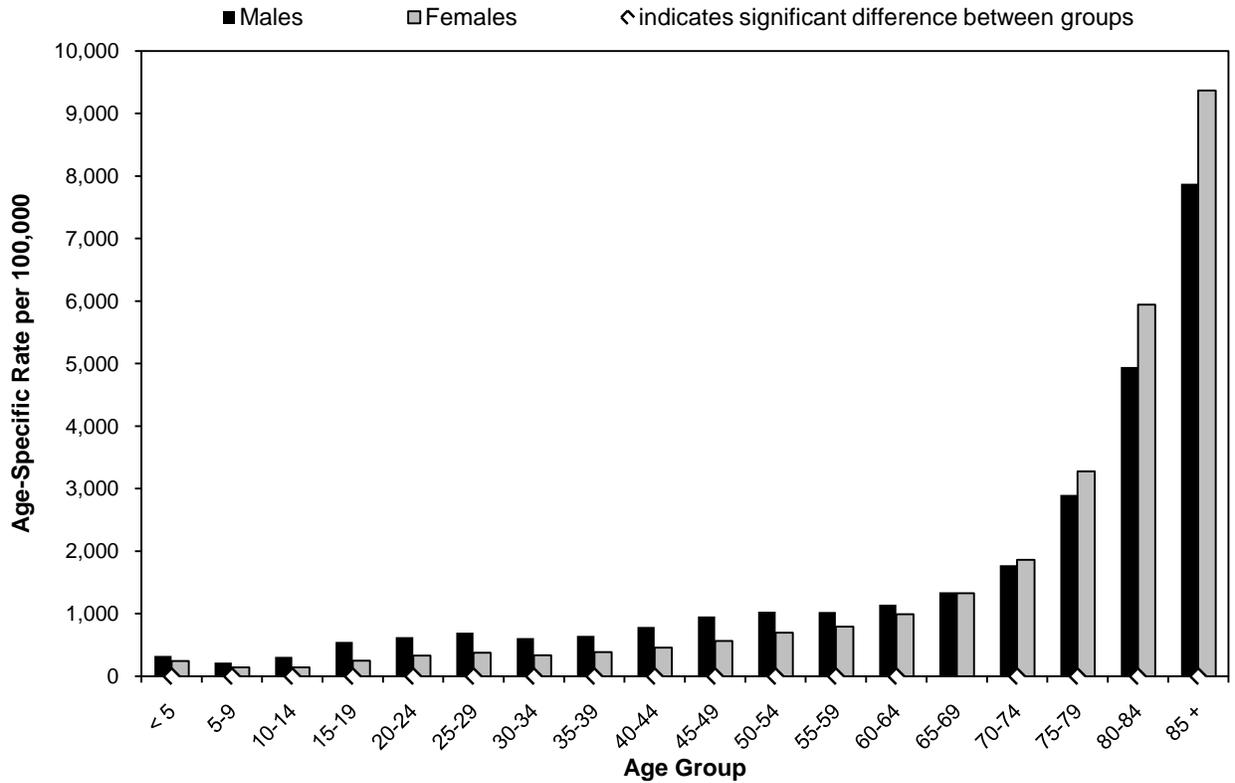
*+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.*

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.

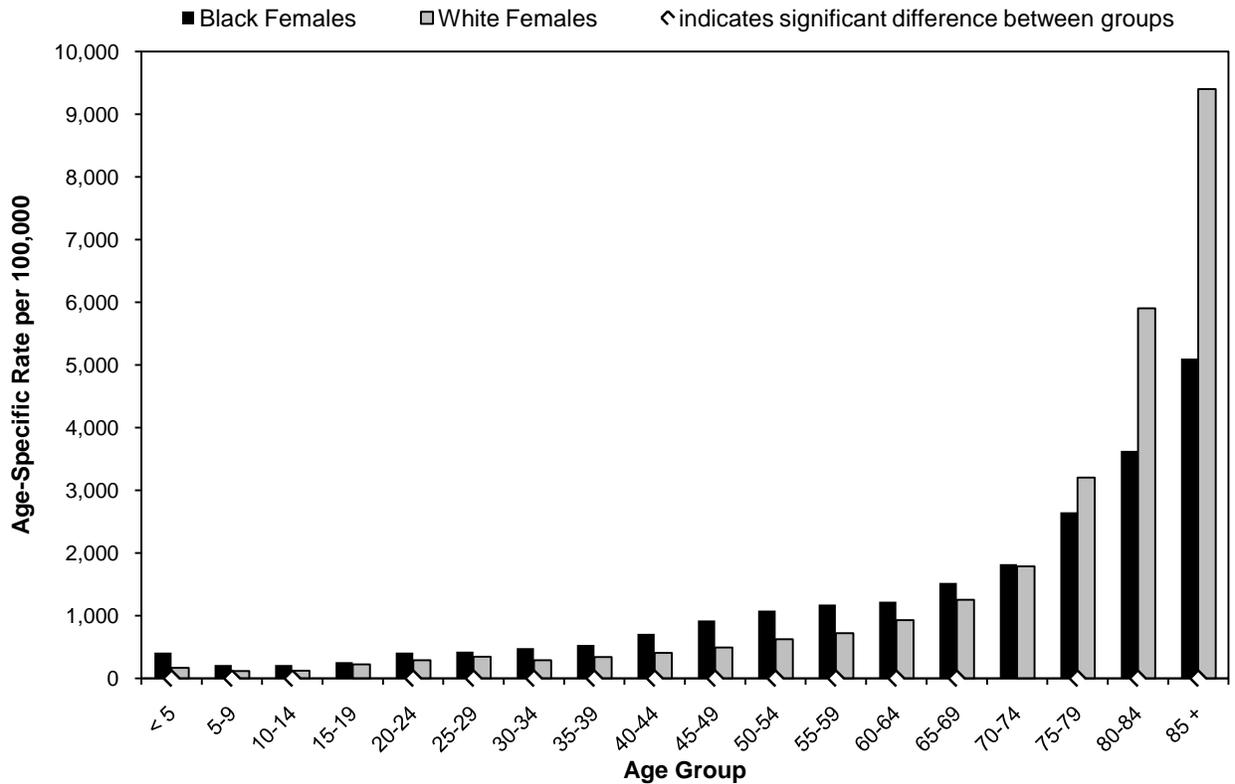
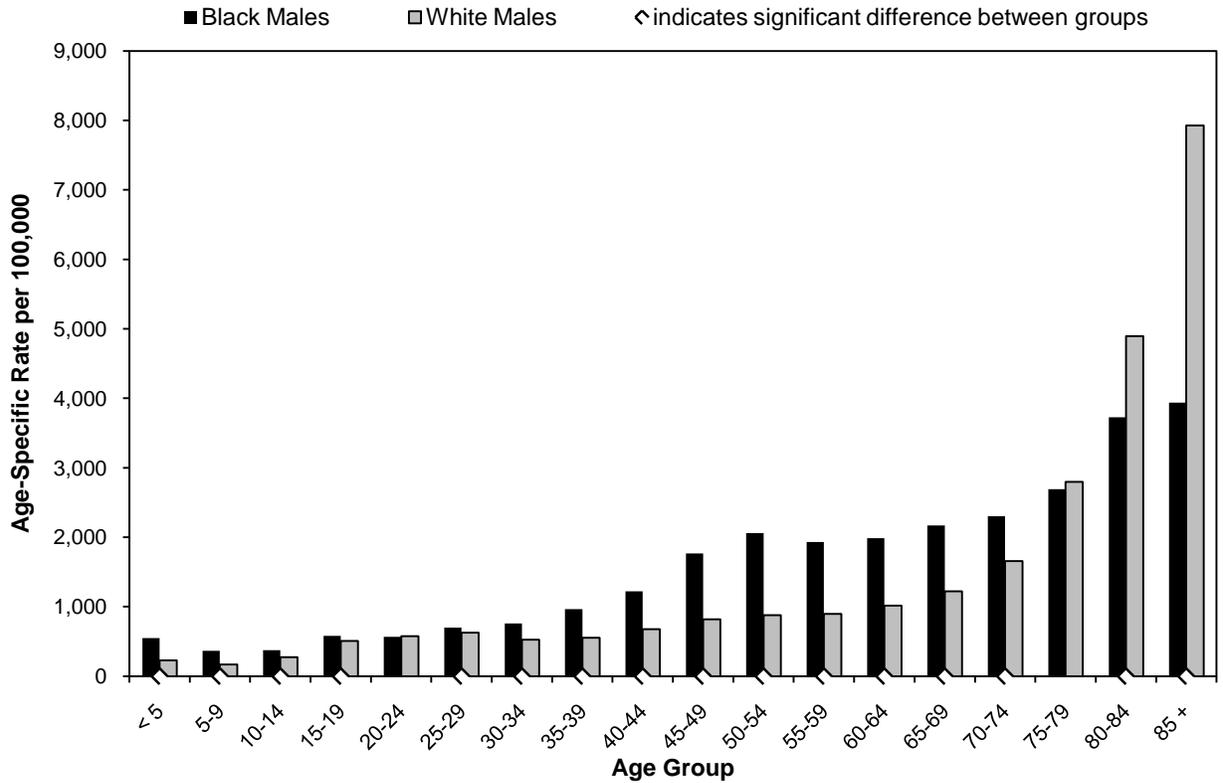
# INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL

## AGE-SPECIFIC HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS PENNSYLVANIA RESIDENTS, 2008



# INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL

## AGE-SPECIFIC HOSPITALIZATION RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2008



# INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL

## NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2008

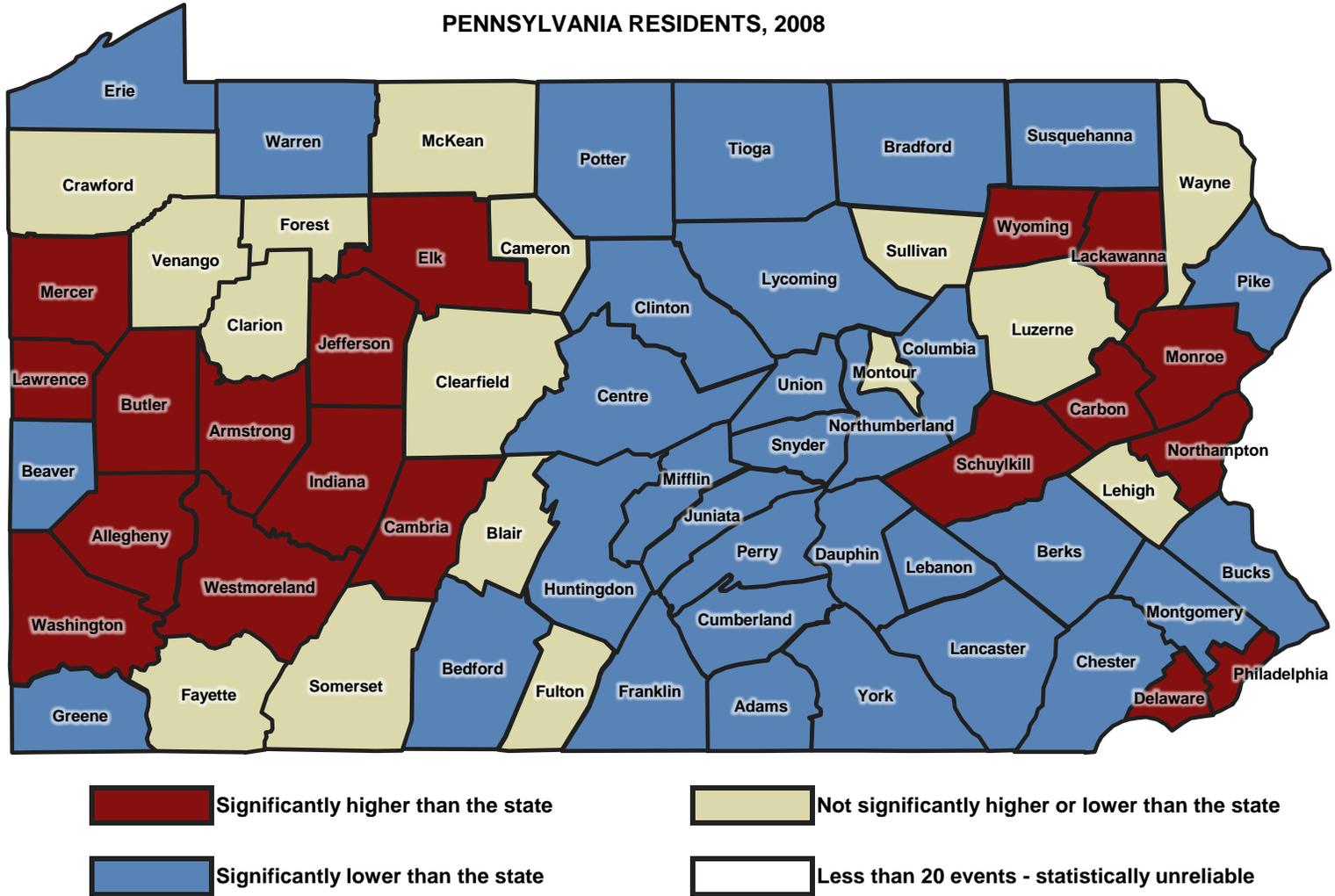
District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
<b>Northeast</b>	17,341	954.1	939.9-968.3 +	<b>Southeast</b>	50,266	932.7	924.6-940.9 +
Carbon	775	1,047.7	973.9-1,121.5 +	Berks	3,553	805.3	778.8-831.8 -
Lackawanna	2,637	988.2	950.5-1,025.9 +	Bucks	5,566	840.3	818.2-862.4 -
Lehigh	3,479	912.5	882.2-942.9	Chester	3,757	775.4	750.7-800.2 -
Luzerne	3,493	879.5	850.3-908.6	Delaware	7,047	1,132.6	1,106.1-1,159.0 +
Monroe	1,630	1,024.3	974.6-1,074.0 +	Lancaster	4,025	731.0	708.4-753.6 -
Northampton	3,721	1,127.5	1,091.3-1,163.7 +	Montgomery	7,272	815.2	796.5-834.0 -
Pike	291	457.8	405.2-510.4 -	Philadelphia	17,114	1,141.6	1,124.5-1,158.7 +
Susquehanna	387	791.1	712.3-869.9 -	Schuylkill	1,932	1,046.0	999.3-1,092.6 +
Wayne	578	915.6	841.0-990.3				
Wyoming	350	1,186.6	1,062.3-1,311.0 +				
<b>North Central</b>	5,381	697.4	678.8-716.1 -	<b>South Central</b>	12,669	687.9	675.9-699.9 -
Bradford	539	758.7	694.6-822.8 -	Adams	656	604.7	558.4-650.9 -
Centre	908	712.9	666.5-759.2 -	Bedford	415	723.1	653.5-792.7 -
Clinton	305	708.8	629.3-788.4 -	Blair	1,333	876.9	829.9-924.0
Columbia	591	810.1	744.8-875.4 -	Cumberland	1,867	710.2	678.0-742.5 -
Lycoming	973	710.9	666.3-755.6 -	Dauphin	1,957	703.8	672.6-735.0 -
Montour	178	884.7	754.7-1,014.7	Franklin	1,146	667.3	628.7-706.0 -
Northumberland	926	784.1	733.6-834.6 -	Fulton	131	769.0	637.4-900.7
Potter	120	612.6	503.0-722.2 -	Huntingdon	351	687.7	615.7-759.6 -
Snyder	248	597.2	522.8-671.5 -	Juniata	165	605.8	513.4-698.2 -
Sullivan	66	815.8	619.0-1,012.7	Lebanon	842	560.5	522.6-598.4 -
Tioga	223	461.4	400.8-521.9 -	Mifflin	402	737.6	665.5-809.7 -
Union	304	630.9	559.9-701.8 -	Perry	341	750.8	671.1-830.5 -
				York	3,063	670.3	646.6-694.1 -
<b>Northwest</b>	9,891	901.6	883.8-919.3	<b>Southwest</b>	31,553	938.7	928.3-949.0 +
Cameron	68	913.6	696.5-1,130.7	Allegheny	14,533	953.1	937.6-968.5 +
Clarion	446	976.7	886.0-1,067.3	Armstrong	942	1,125.7	1,053.9-1,197.6 +
Clearfield	870	878.8	820.4-937.2	Beaver	1,613	734.8	698.9-770.6 -
Crawford	948	934.6	875.1-994.1	Butler	1,978	959.8	917.5-1,002.1 +
Elk	429	1,052.8	953.2-1,152.4 +	Cambria	1,841	992.4	947.1-1,037.8 +
Erie	2,374	776.6	745.3-807.8 -	Fayette	1,648	933.7	888.6-978.8
Forest	79	1,108.1	863.8-1,352.5	Greene	302	666.0	590.9-741.1 -
Jefferson	553	1,016.9	932.1-1,101.6 +	Indiana	1,061	1,075.9	1,011.2-1,140.6 +
Lawrence	1,183	1,021.0	962.9-1,079.2 +	Somerset	850	840.5	784.0-897.0
McKean	465	871.6	792.4-950.8	Washington	2,407	963.1	924.6-1,001.6 +
Mercer	1,559	1,063.5	1,010.7-1,116.3 +	Westmoreland	4,378	961.9	933.4-990.4 +
Venango	594	914.9	841.4-988.5				
Warren	323	650.7	579.7-721.7 -	<b>Pennsylvania</b>	<b>127,101</b>	<b>890.3</b>	<b>885.4-895.2</b>

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

AGE-ADJUSTED HOSPITALIZATION RATES BY COUNTY,  
WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE  
PENNSYLVANIA RESIDENTS, 2008



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

## INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL

### TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2008

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
<b>Pennsylvania</b>	59,344	67,719	<b>127,101</b>	8,976	279.3	11,730	494.9	16,502	637.0	22,092	934.9	67,800	3,548.6
<b>Northeast</b>	7,957	9,361	<b>17,314</b>	1,267	321.8	1,464	504.1	2,208	682.3	2,860	929.2	9,542	3,823.9
Carbon	366	408	775	63	454.5	65	520.2	104	790.9	129	977.6	414	3,813.9
Lackawanna	1,088	1,549	2,637	157	310.8	187	469.5	287	694.4	415	1,036.0	1,591	4,222.5
Lehigh	1,652	1,826	3,479	263	293.4	307	477.2	467	670.6	570	885.1	1,872	3,601.2
Luzerne	1,473	2,003	3,493	208	290.9	299	515.5	385	596.6	598	979.2	2,003	3,522.2
Monroe	863	766	1,630	155	336.8	156	516.5	287	780.2	311	964.6	721	3,642.1
Northampton	1,760	1,960	3,721	299	376.9	313	560.5	445	732.1	555	994.4	2,109	4,902.7
Pike	143	147	291	33	234.8	36	373.2	51	384.1	65	473.5	106	1,183.8
Susquehanna	179	208	387	22	224.5	27	396.1	49	601.9	43	459.6	246	3,660.2
Wayne	273	304	578	41	365.1	44	509.4	82	795.3	110	892.6	301	3,163.1
Wyoming	160	190	350	26	336.4	30	649.2	51	902.3	64	1,140.8	179	4,317.4
<b>Southeast</b>	24,083	26,183	<b>50,266</b>	4,109	305.4	5,038	515.5	7,042	673.8	9,220	1,034.1	24,857	3,625.2
Berks	1,725	1,828	3,553	281	248.2	313	418.9	479	563.1	615	841.2	1,865	3,244.8
Bucks	2,611	2,955	5,566	443	276.2	500	481.6	724	500.3	971	769.0	2,928	3,387.6
Chester	1,695	2,062	3,757	258	186.8	350	389.2	492	444.7	681	743.0	1,976	3,232.8
Delaware	3,267	3,780	7,047	518	346.4	678	633.0	927	802.5	1,229	1,191.7	3,695	4,717.9
Lancaster	1,926	2,099	4,025	343	239.9	445	463.0	501	498.9	632	710.4	2,104	2,849.0
Montgomery	3,206	4,066	7,272	441	220.2	575	408.9	764	439.0	1,210	821.7	4,282	3,697.2
Philadelphia	8,736	8,378	17,114	1,674	409.6	2,015	596.8	2,929	1,038.4	3,543	1,520.7	6,953	3,738.9
Schuylkill	917	1,015	1,932	151	467.6	162	594.3	226	690.1	339	1,199.8	1,054	3,948.2

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	59,344	67,719	<b>127,101</b>	8,976	279.3	11,730	494.9	16,502	637.0	22,092	934.9	67,800	3,548.6
<b>North Central</b>	2,496	2,873	<b>5,381</b>	377	218.4	487	336.2	651	499.2	864	697.9	3,001	2,804.8
Bradford	261	278	539	30	192.4	57	551.2	76	602.9	97	798.4	279	2,646.6
Centre	401	507	908	59	152.6	96	218.9	109	447.6	147	686.6	497	3,011.0
Clinton	138	165	305	21	209.6	29	403.9	36	529.0	38	563.3	181	2,879.4
Columbia	293	296	591	38	223.5	66	466.8	81	700.8	103	880.3	303	2,856.9
Lycoming	469	503	973	79	277.0	71	315.4	120	508.8	149	655.8	554	2,865.6
Montour	70	106	178	17	388.1	23	828.2	25	702.4	28	751.1	85	2,606.6
Northumberland	410	513	926	54	254.8	70	465.9	92	480.1	142	763.2	567	3,314.8
Potter	62	58	120	12	273.5	10	367.4	20	634.7	15	440.5	63	2,062.2
Snyder	118	130	248	22	213.5	22	270.3	26	350.5	40	581.0	138	2,589.6
Sullivan	37	29	66	4	NA	5	NA	7	NA	14	1,133.6	36	2,454.0
Tioga	95	127	223	20	181.7	19	273.0	28	376.2	42	528.6	114	1,579.4
Union	142	161	304	21	208.4	19	184.1	31	320.0	49	674.5	184	2,925.7
<b>South Central</b>	5,902	6,766	<b>12,669</b>	897	213.6	1,185	390.3	1,556	450.5	2,232	704.8	6,799	2,740.1
Adams	309	347	656	52	192.4	53	281.2	91	424.1	115	598.9	345	2,364.8
Bedford	202	213	415	41	336.5	39	468.4	63	601.8	65	653.9	207	2,350.4
Blair	639	694	1,333	74	238.9	114	504.8	143	571.5	254	1,017.9	748	3,455.4
Cumberland	823	1,044	1,867	112	192.5	142	302.9	196	423.6	356	835.4	1,061	2,995.3
Dauphin	897	1,060	1,957	157	234.7	210	456.3	266	469.4	356	686.7	968	2,754.6
Franklin	524	622	1,146	80	211.6	74	282.0	121	427.3	182	674.8	689	2,852.2
Fulton	56	75	131	9	NA	16	588.9	14	452.8	23	774.4	69	2,764.4
Huntingdon	178	173	351	27	258.1	46	496.5	42	431.3	64	727.0	172	2,363.6
Juniata	66	98	165	8	NA	16	400.4	19	411.3	29	651.5	93	2,333.8
Lebanon	416	426	842	82	253.4	82	327.5	90	354.0	155	630.6	433	2,010.4
Mifflin	186	216	402	36	298.1	33	427.8	45	492.9	73	837.0	215	2,554.1
Perry	172	169	341	37	305.1	50	622.9	56	569.9	67	716.8	131	2,237.0
York	1,434	1,629	3,063	182	165.2	310	397.7	410	429.9	493	599.0	1,668	2,836.7

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	59,344	67,719	127,101	8,976	279.3	11,730	494.9	16,502	637.0	22,092	934.9	67,800	3,548.6
<b>Northwest</b>	4,668	5,223	<b>9,891</b>	635	270.7	865	510.5	1,239	661.4	1,672	931.4	5,480	3,543.0
Cameron	30	38	68	4	NA	4	NA	4	NA	13	1,086.0	43	4,130.6
Clarion	242	204	446	24	229.8	48	618.8	58	790.4	74	988.1	242	3,476.5
Clearfield	442	428	870	58	322.0	80	533.1	132	714.7	153	917.2	447	3,034.6
Crawford	446	502	948	59	250.0	96	616.1	106	615.8	175	994.4	512	3,550.9
Elk	208	221	429	35	455.9	32	646.2	48	673.2	70	1,074.3	244	4,071.4
Erie	1,099	1,275	2,374	164	219.8	251	439.3	324	576.3	400	785.1	1,235	3,067.8
Forest	47	32	79	7	NA	3	NA	18	1,434.3	17	1,394.6	34	2,961.7
Jefferson	290	263	553	38	348.5	50	643.5	77	848.9	77	851.4	311	3,739.3
Lawrence	537	646	1,183	70	308.9	91	603.0	133	737.2	204	1,145.3	685	4,109.9
McKean	214	251	465	24	222.0	38	477.3	48	515.4	63	785.6	292	3,929.0
Mercer	695	864	1,559	83	275.6	104	519.6	177	768.4	249	1,097.4	946	4,550.3
Venango	270	324	594	43	317.3	47	526.8	77	702.2	112	973.7	315	3,321.7
Warren	148	175	323	26	267.8	21	324.2	37	444.7	65	739.6	174	2,341.2
<b>Southwest</b>	14,238	17,313	<b>31,553</b>	1,691	261.3	2,691	555.3	3,806	681.1	5,244	964.6	18,121	3,892.2
Allegheny	6,405	8,128	14,533	711	242.0	1,118	494.8	1,709	681.4	2,484	1,035.9	8,511	4,157.6
Armstrong	456	486	942	55	325.1	90	852.8	123	863.7	147	1,037.8	527	4,081.2
Beaver	697	916	1,613	94	233.9	127	441.7	199	556.3	264	731.5	929	2,932.7
Butler	955	1,023	1,978	117	240.3	193	598.5	248	624.6	327	921.3	1,093	4,082.8
Cambria	843	998	1,841	100	302.2	181	708.2	211	718.8	313	1,064.7	1,036	3,848.4
Fayette	759	888	1,648	101	298.8	180	744.5	198	657.0	291	955.9	878	3,461.5
Greene	134	168	302	22	248.3	38	488.6	31	367.5	47	568.5	164	2,731.5
Indiana	485	576	1,061	65	284.5	109	596.9	139	876.5	159	971.0	589	4,166.1
Somerset	400	450	850	51	304.5	75	536.6	96	576.6	120	778.7	508	3,463.8
Washington	1,106	1,301	2,407	147	295.0	197	527.2	308	737.9	405	968.4	1,350	3,787.0
Westmoreland	1,998	2,379	4,378	228	276.8	383	638.6	544	714.7	687	899.7	2,536	3,798.6

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: ALL UNINTENTIONAL

**NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI),  
BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2008**

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	1,669	1,075.7	1,024.1-1,127.3	Allegheny	12,375	911.4	895.4-927.5 +	Berks	228	694.0	604.0-784.1 -
Chester	192	683.5	586.8-780.2 -	Chester	3,398	772.1	746.1-798.0 -	Lancaster	28	116.7	73.5-160.0 -
Dauphin	300	731.7	648.9-814.5 -	Dauphin	1,537	660.5	627.4-693.5 -	Lehigh	254	681.3	597.5-765.1 -
Delaware	897	983.0	918.7-1,047.3	Delaware	5,867	1,139.9	1,110.8-1,169.1 +	Philadelphia	1,150	884.4	833.3-935.5
Montgomery	494	795.9	725.7-866.0 -	Montgomery	6,166	776.6	757.2-796.0 -				
Philadelphia	7,281	1,159.3	1,132.7-1,185.9 +	Philadelphia	7,880	961.8	940.5-983.0 +				
Pennsylvania	12,441	1,015.5	997.6-1,033.3	Pennsylvania	105,963	822.9	817.9-827.8	Pennsylvania	3,551	948.9	917.7-980.1

**NUMBER FOR SELECT AGE GROUPS AND AGE-SPECIFIC HOSPITALIZATION RATES  
BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2008**

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.
Allegheny	Black	13.5%	886	783	<b>1,669</b>	11.5%	193	350.9	223	624.5	350	1,145.0	417	1,693.4	486	2,672.1
	White	82.8%	5,252	7,123	<b>12,375</b>	85.2%	460	206.3	821	462.0	1,275	604.2	1,979	940.5	7,840	4,266.4
Chester	Black	6.2%	102	90	<b>192</b>	5.1%	17	170.9	25	352.7	44	749.1	48	1,084.0	58	1,808.5
	White	89.5%	1,491	1,907	<b>3,398</b>	90.4%	219	180.9	289	368.5	415	419.2	614	724.1	1,861	3,286.4
Dauphin	Black	17.9%	176	124	<b>300</b>	15.3%	36	227.2	45	475.9	69	716.4	78	1,092.0	72	1,847.6
	White	77.2%	658	879	<b>1,537</b>	78.5%	96	208.7	138	404.6	170	383.7	263	610.1	870	2,844.1
Delaware	Black	18.8%	468	429	<b>897</b>	12.7%	141	412.1	151	576.1	204	932.8	180	1,293.5	221	2,792.5
	White	75.4%	2,649	3,218	<b>5,867</b>	83.3%	336	321.5	491	662.4	670	778.9	990	1,168.6	3,380	4,947.5
Montgomery	Black	8.9%	244	250	<b>494</b>	6.8%	45	226.2	68	429.8	91	555.4	111	1,002.0	179	2,826.9
	White	84.0%	2,681	3,485	<b>6,166</b>	84.8%	325	199.4	439	388.0	590	411.2	990	770.2	3,822	3,617.9
Philadelphia	Black	45.6%	3,911	3,370	<b>7,281</b>	42.5%	911	427.8	933	635.2	1,565	1,224.1	1,789	1,757.5	2,083	2,955.3
	White	46.9%	3,655	4,225	<b>7,880</b>	46.0%	342	212.1	714	450.2	1,011	756.7	1,399	1,197.2	4,414	4,083.4
Pennsylvania	Black	10.7%	6,713	5,727	<b>12,441</b>	9.8%	1,619	372.8	1,724	551.5	2,666	999.1	2,977	1,523.3	3,455	2,706.7
	White	85.7%	47,891	58,039	<b>105,963</b>	83.4%	6,131	233.8	8,651	443.5	12,355	554.0	17,578	833.2	61,247	3,494.2

## INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED INJURIES

In 2008, among Pennsylvania residents, there were 10,185 hospitalizations due to self-inflicted injury (self-injury). On average, one resident was hospitalized every hour.

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### ***Injury Definition***

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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 **increasing** over 2004 to 2008.*
- *Most common demographic is **white females**, ages 15 to 49.*
- *Of all Pennsylvania counties, **Lawrence** shows the highest rate.*

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### ***Trends Over Time***

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- Age-adjusted hospitalization rates for self-inflicted injury increased by 10 percent from 2004 to 2008, from 76.1 to 83.9 hospitalizations per 100,000 population.
- Females showed significantly higher age-adjusted self-injury hospitalization rates than males over 2004 to 2008 (rates were 94.4 and 73.7, respectively, in 2008).
- Black males showed significantly higher age-adjusted self-injury hospitalization rates than white males over 2004 to 2008 (rates were 98.7 and 67.2, respectively, in 2008).

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### ***Demographic Trends***

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- 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 35 to 59.
- Rural populations showed higher self-injury hospitalization rates for ages under 40, while urban populations generally showed higher rates for ages 40 and older.

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### ***Regional Trends***

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- The Northwest Health District showed the highest age-specific self-injury hospitalization rates, while the South Central Health District showed the lowest rates.
- Fifteen counties showed age-adjusted self-injury hospitalization rates in 2008 that were significantly higher than the comparable state rate. Most counties were rural.

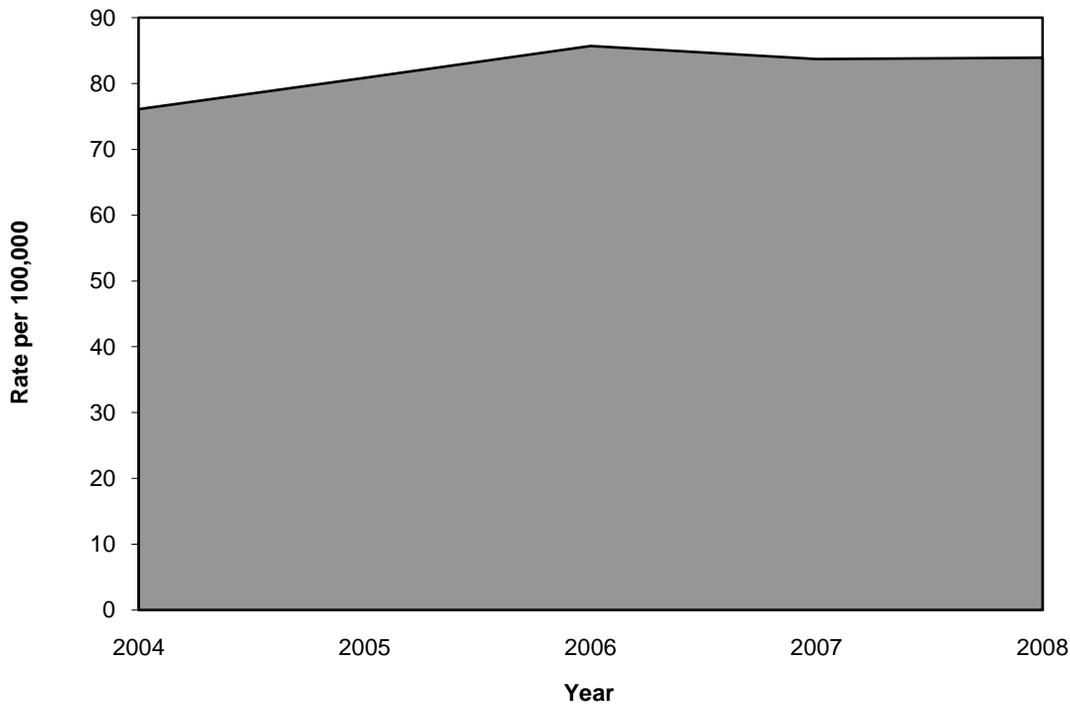
# INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED

## TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, 2004-2008

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Year	No.	Rate
2004	9,189	76.1
2005	9,758	80.9
2006	10,358	85.7
2007	10,105	83.7
2008	10,185	83.9

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## AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2004-2008

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Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2004	97.3	71.2	82.3	73.4	62.3	80.4
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

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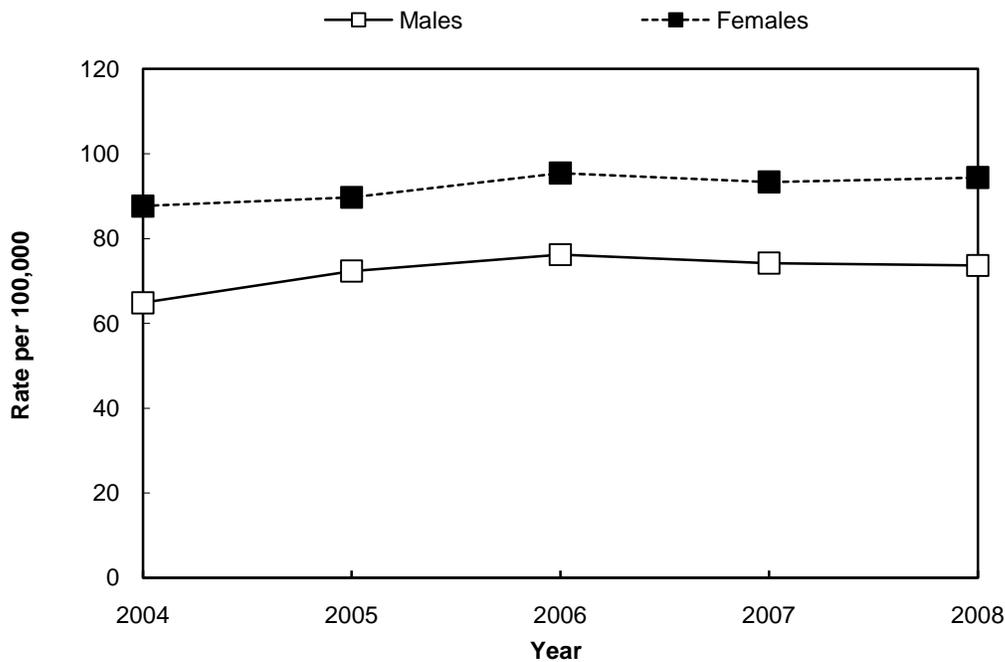
NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2004-2008 based on ICD-9-CM codes. See Technical Notes.

# INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED

## TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX PENNSYLVANIA RESIDENTS, 2004-2008

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2004	3,868	64.9 *	2004	5,321	87.7
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

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



## AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2004-2008

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2004	65.2	64.0	2004	83.2	100.1 *
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 *

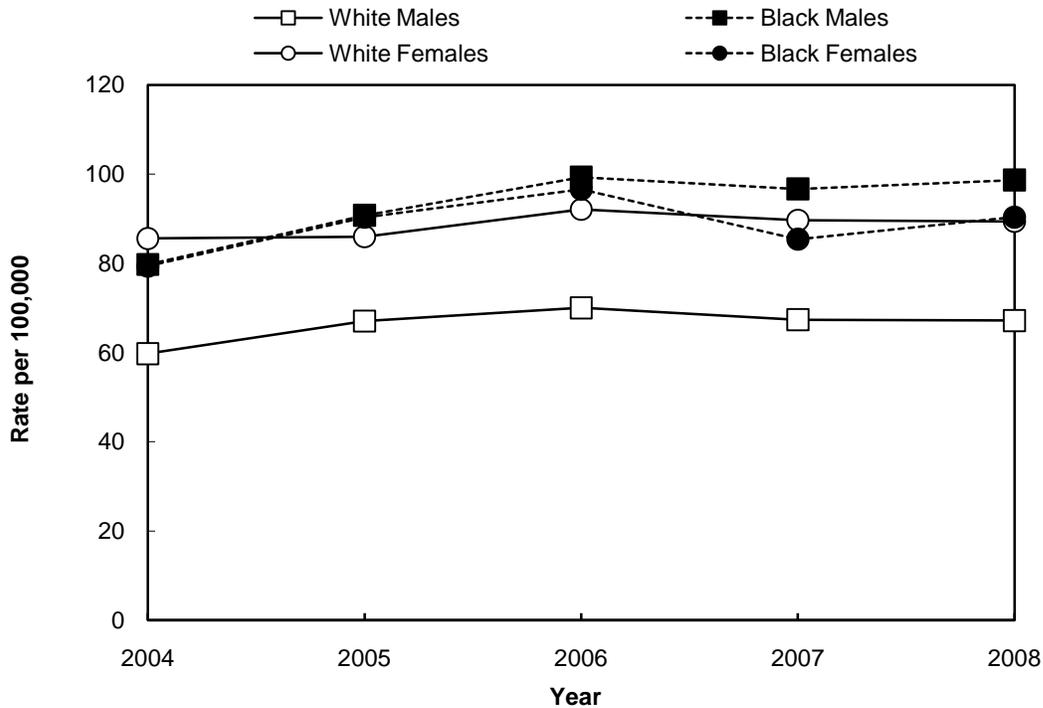
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

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, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	3,086	475	4,443	540	209	216
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



### AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	59.8	79.8 *	85.6	79.4	91.4	89.6
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

\* 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, 2008

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL		
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	
<b>TOTAL</b>	<b>10,185</b>	<b>81.8</b>	<b>4,428</b>	<b>73.2</b>	<b>5,754</b>	<b>89.9</b>		<b>7,268</b>	<b>80.6</b>	<b>2,917</b>	<b>85.1</b>
< 5	4	NA	4	NA	0	NA		4	NA	0	NA
5-9	2	NA	1	NA	1	NA		2	NA	0	NA
10-14	142	17.8	34	8.3	108	27.6	*	95	16.2	47	22.3
15-19	1,117	121.0	426	91.7	691	150.8	*	721	108.7	396	152.6
20-24	1,316	148.5	564	125.3	752	172.5	*	914	143.9	402	160.0
25-29	1,129	152.8	472	124.8	657	182.0	*	789	142.9	340	181.8
30-34	980	131.6	468	124.5	511	138.5		684	124.7	296	150.8
35-39	1,097	136.8	484	121.1	613	152.4	*	771	131.1	326	152.4
40-44	1,208	138.0	554	127.8	653	147.9	*	912	142.6	296	125.5
45-49	1,130	123.7	479	106.3	651	140.6	*	812	122.3	318	127.3
50-54	860	96.9	389	89.5	471	104.0	*	649	101.2	211	85.5
55-59	475	59.3	229	59.0	246	59.5		351	61.3	124	54.2
60-64	290	43.0	128	39.9	162	45.9		220	46.2	70	35.3
65-69	134	25.3	54	22.2	80	27.9		103	28.0	31	19.2
70-74	97	21.9	41	21.2	55	22.1		81	26.2	16	11.9
75-79	82	22.2	46	30.6	36	16.5	*	62	23.9	20	18.2
80-84	62	21.8	30	28.0	32	18.1		48	23.7	14	17.2
85 +	60	21.1	25	28.5	35	17.8		50	24.5	10	12.5

\* 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 SELF-INFLICTED

### TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2008

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>3,454</b>	<b>66.5</b>	<b>595</b>	<b>93.7</b>	<b>4,619</b>	<b>84.4</b>	<b>636</b>	<b>90.6</b>	<b>570</b>	<b>96.0</b>
< 5	0	NA	2	NA	0	NA	0	NA	0	NA
5-9	1	NA	0	NA	0	NA	1	NA	0	NA
10-14	26	7.8	6	NA	74	23.2	16	29.9	13	23.2
15-19	340	88.8	37	59.9	514	135.8	88	145.8	75	127.1
20-24	450	121.6	63	103.8	599	167.6	86	144.4	79	149.8
25-29	379	122.1	46	89.6	510	173.5	85	167.6	71	145.8
30-34	354	112.8	66	149.6	393	129.0	64	138.7	67	146.7
35-39	373	109.7	74	175.7	493	145.8	75	161.9	58	129.3
40-44	409	108.8	108	256.0	522	138.3	71	148.3	73	186.1
45-49	367	92.5	78	191.2	548	136.4	67	141.0	51	149.2
50-54	311	80.1	58	162.6	396	99.6	45	103.8	36	143.0
55-59	171	48.9	36	125.4	208	56.8	20	54.4	24	122.8
60-64	104	35.6	10	46.0	146	46.3	8	NA	16	119.7
65-69	44	19.7	2	NA	74	28.5	2	NA	4	NA
70-74	33	18.5	6	NA	49	21.6	5	NA	1	NA
75-79	43	30.8	2	NA	30	14.9	2	NA	1	NA
80-84	28	28.1	1	NA	30	18.4	0	NA	1	NA
85 +	21	25.9	0	NA	33	18.3	1	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 HOSPITALIZATIONS: ALL SELF-INFLICTED

### TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2008

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>882</b>	<b>95.3</b>	<b>554</b>	<b>81.6</b>	<b>1,384</b>	<b>88.4</b>	<b>4,139</b>	<b>83.7</b>	<b>1,038</b>	<b>63.5</b>	<b>2,188</b>	<b>81.0</b>
< 5	0	NA	0	NA	0	NA	3	NA	0	NA	1	NA
5-9	0	NA	0	NA	0	NA	0	NA	1	NA	1	NA
10-14	19	32.3 +	8	NA	25	25.0	48	14.4	9	NA	33	20.3
15-19	109	155.4 +	80	126.6	178	153.7 +	423	114.7	108	94.0 -	219	115.2
20-24	115	180.3 +	80	110.8 -	173	157.9	511	143.7	154	144.4	283	158.6
25-29	112	215.9 +	81	230.6 +	139	153.7	412	131.4 -	107	109.5 -	278	184.8 +
30-34	83	154.2	43	114.6	135	149.3	389	126.2	115	115.8	215	138.1
35-39	102	178.2 +	54	134.3	155	156.5	415	126.1	133	124.1	238	140.7
40-44	99	157.4	59	134.1	160	146.1	546	154.1 +	114	97.5 -	230	122.6
45-49	104	154.8 +	58	125.6	157	136.5	477	131.9	101	83.2 -	233	115.2
50-54	64	96.6	37	81.2	103	91.2	394	115.0 +	77	65.4 -	185	91.3
55-59	35	57.6	22	52.4	73	70.2	199	66.1	41	37.9 -	105	56.7
60-64	16	30.5	11	30.3	32	35.2	123	49.7	41	45.2	67	43.0
65-69	8	NA	5	NA	21	29.3	58	30.5	11	15.1	31	25.4
70-74	4	NA	4	NA	6	NA	64	40.5 +	3	NA	16	15.2
75-79	5	NA	7	NA	8	NA	28	21.3	13	27.4	21	23.0
80-84	4	NA	5	NA	8	NA	27	26.3	4	NA	14	19.2
85 +	3	NA	0	NA	11	30.9	22	21.2	6	NA	18	24.4

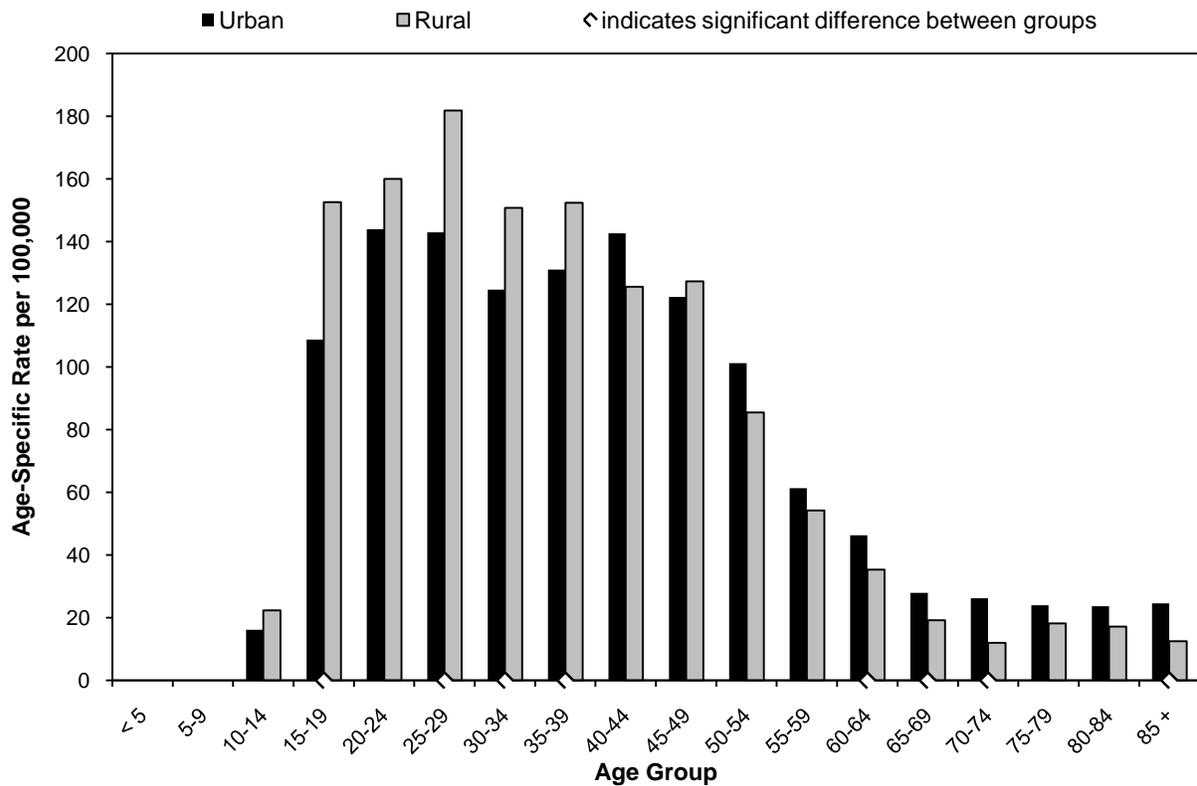
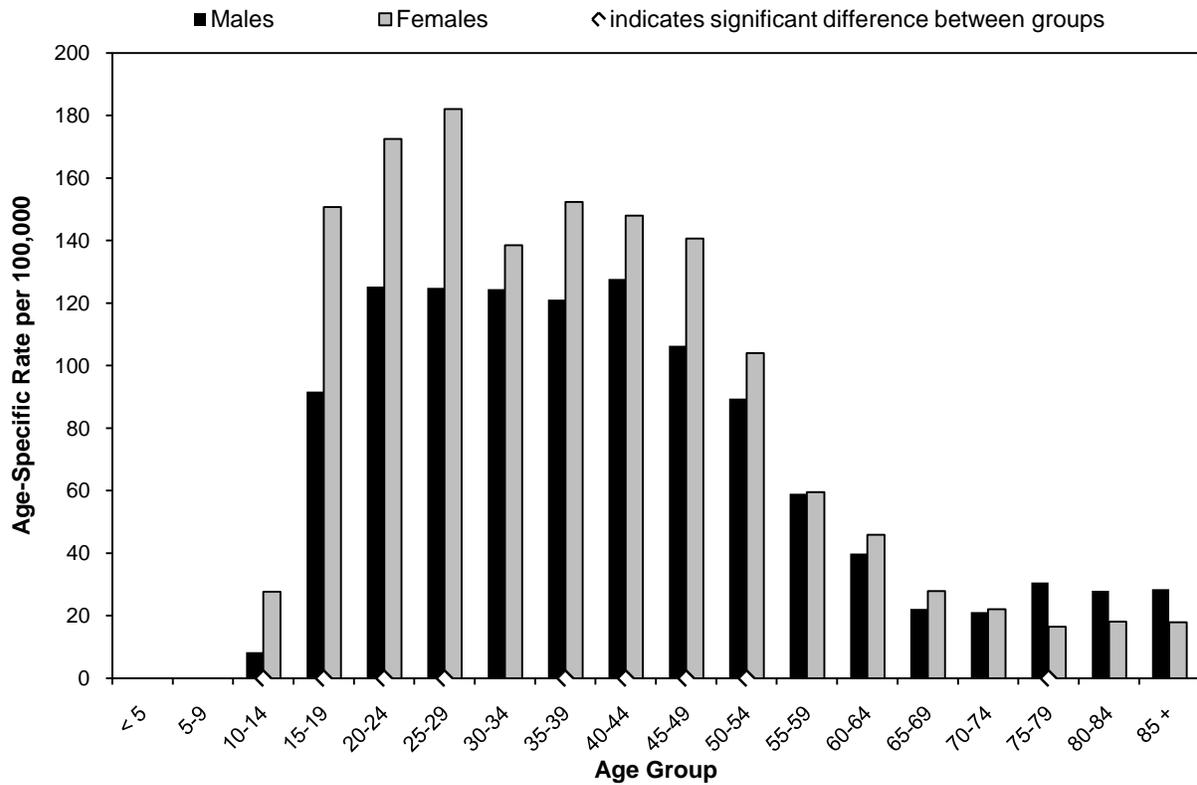
*+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.*

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.

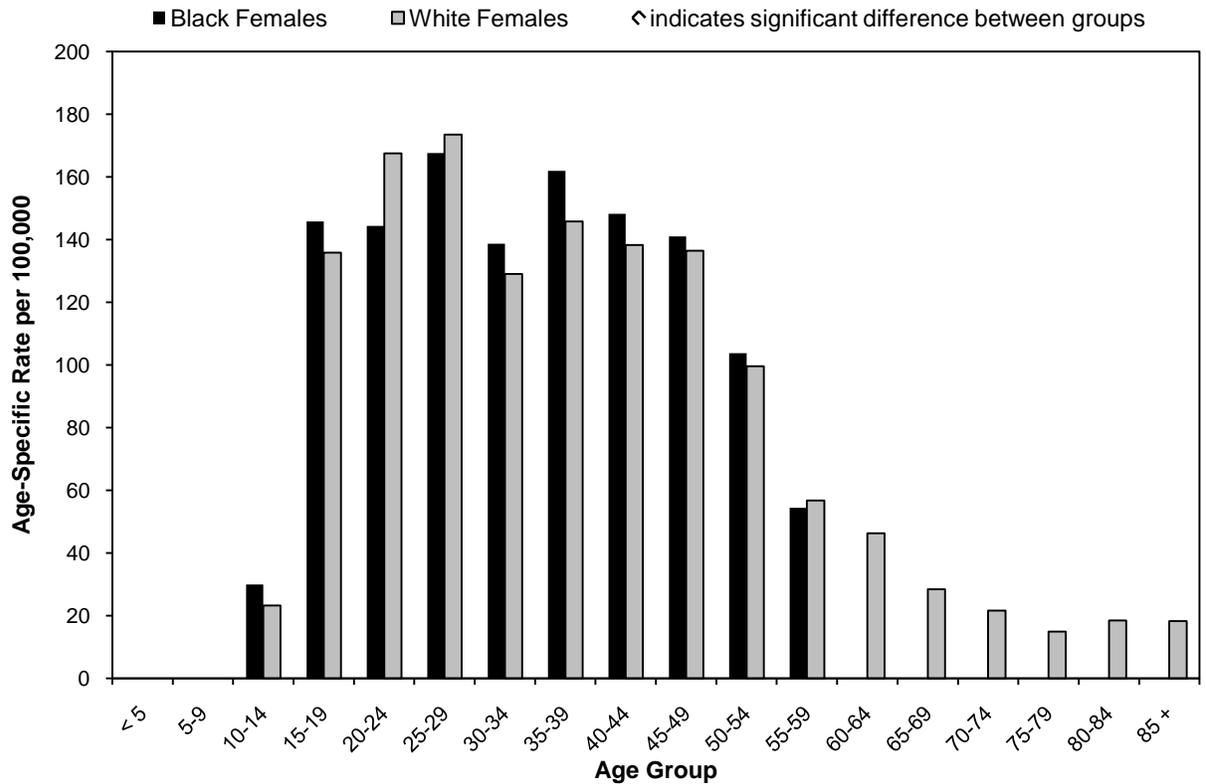
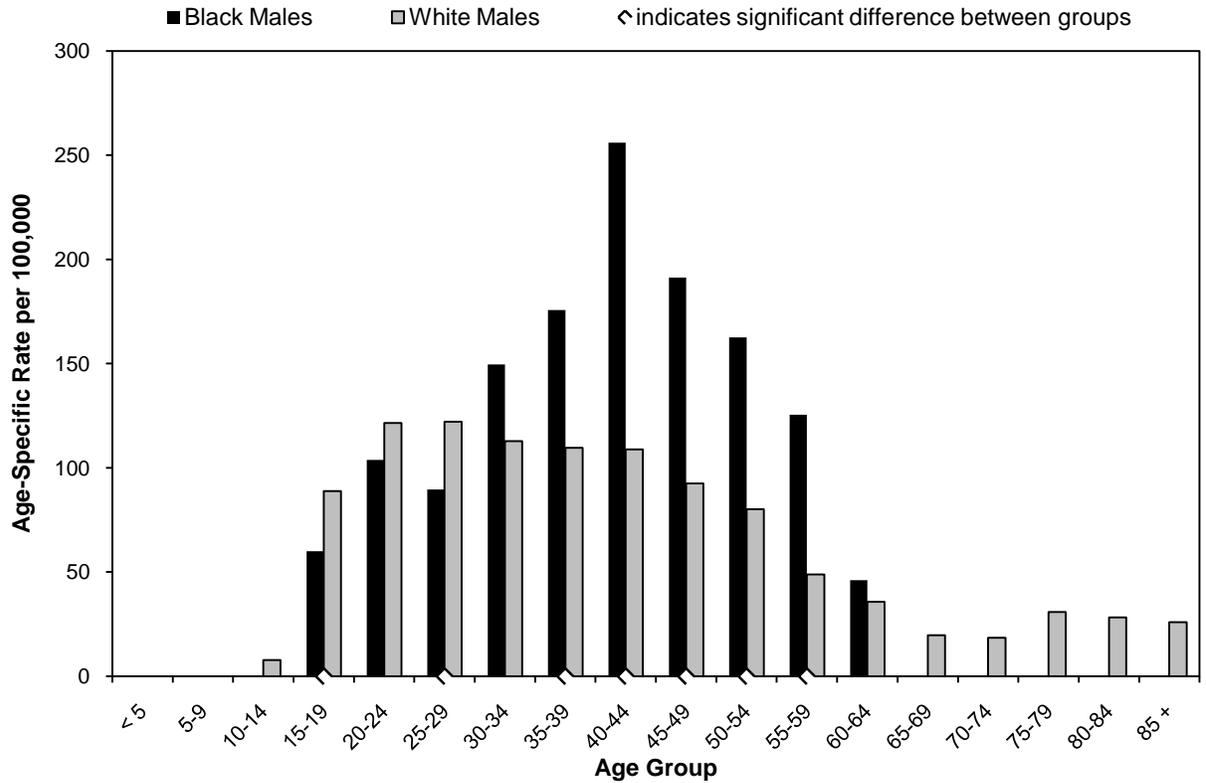
# INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED

## AGE-SPECIFIC HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS PENNSYLVANIA RESIDENTS, 2008



# INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED

## AGE-SPECIFIC HOSPITALIZATION RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2008



# INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED

## NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2008

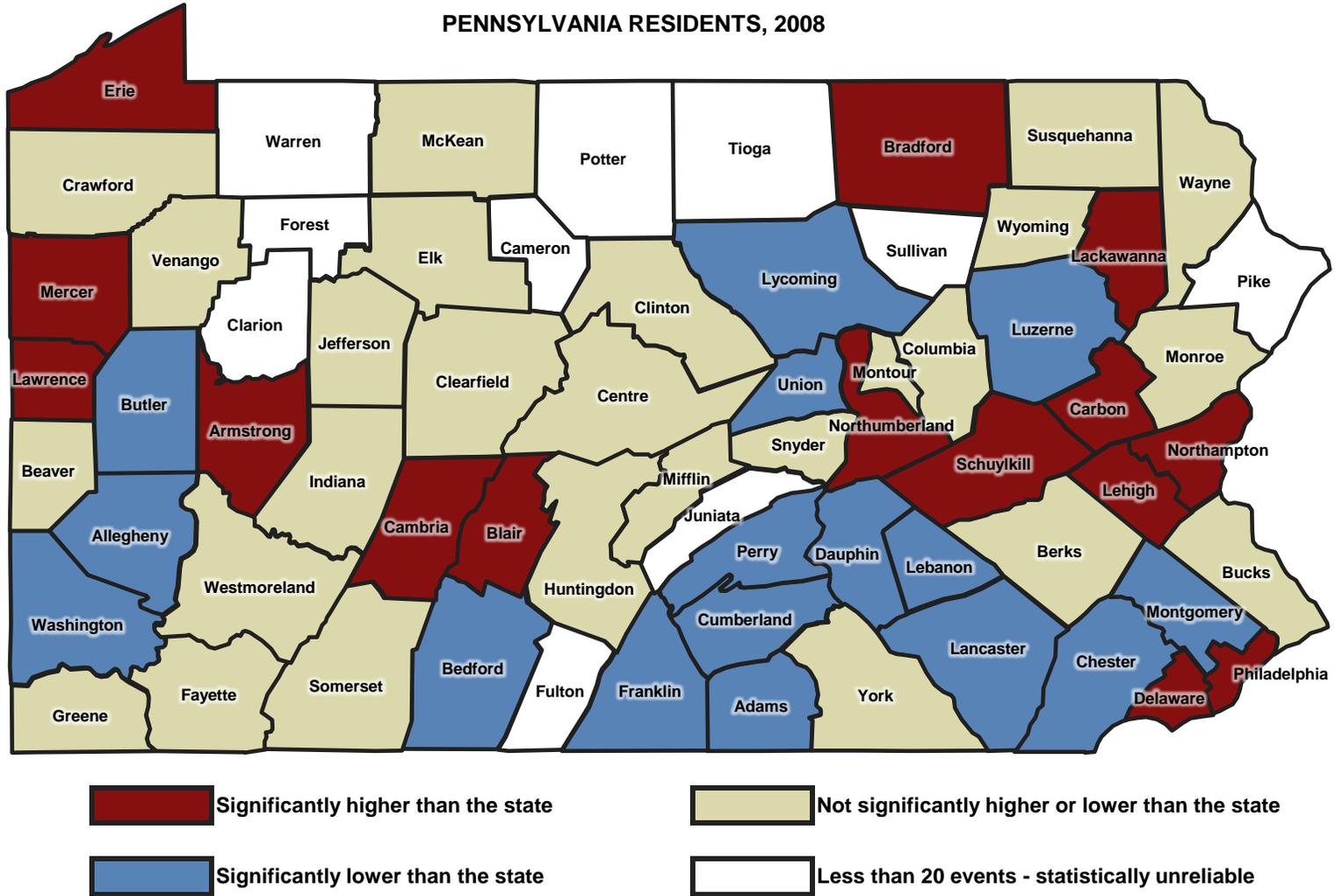
District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
<b>Northeast</b>	1,384	91.5	86.7-96.3 +	<b>Southeast</b>	4,139	84.7	82.2-87.3
Carbon	92	153.5	122.1-184.8 +	Berks	336	85.5	76.4-94.7
Lackawanna	210	104.5	90.4-118.7 +	Bucks	475	79.8	72.6-87.0
Lehigh	342	104.7	93.6-115.8 +	Chester	255	52.5	46.0-58.9 -
Luzerne	173	57.6	49.0-66.2 -	Delaware	551	100.0	91.7-108.4 +
Monroe	137	79.7	66.4-93.1	Lancaster	283	58.4	51.6-65.2 -
Northampton	319	112.6	100.2-125.0 +	Montgomery	448	59.0	53.6-64.5 -
Pike	15	NA		Philadelphia	1,580	112.0	106.5-117.5 +
Susquehanna	31	86.0	55.7-116.2	Schuylkill	211	149.4	129.2-169.5 +
Wayne	44	93.0	65.5-120.5				
Wyoming	21	78.1	44.7-111.5				
<b>North Central</b>	554	83.3	76.3-90.2	<b>South Central</b>	1,038	66.0	62.0-70.0 -
Bradford	71	130.6	100.2-161.0 +	Adams	35	34.2	22.8-45.5 -
Centre	108	81.9	66.4-97.3	Bedford	26	59.0	36.3-81.6 -
Clinton	25	68.6	41.7-95.6	Blair	136	118.4	98.5-138.3 +
Columbia	66	100.0	75.8-124.1	Cumberland	115	51.3	41.9-60.7 -
Lycoming	52	44.2	32.2-56.3 -	Dauphin	155	62.7	52.8-72.6 -
Montour	20	121.1	68.0-174.2	Franklin	76	56.9	44.1-69.7 -
Northumberland	121	149.8	123.1-176.4 +	Fulton	6	NA	
Potter	18	NA		Huntingdon	44	98.3	69.3-127.4
Snyder	26	70.5	43.4-97.6	Juniata	13	NA	
Sullivan	8	NA		Lebanon	52	42.5	31.0-54.1 -
Tioga	13	NA		Mifflin	27	69.5	43.3-95.6
Union	26	53.1	32.7-73.5 -	Perry	21	47.5	27.2-67.8 -
				York	332	80.5	71.9-89.2
<b>Northwest</b>	882	100.9	94.2-107.5 +	<b>Southwest</b>	2,188	84.7	81.2-88.3
Cameron	6	NA		Allegheny	911	76.6	71.6-81.6 -
Clarion	12	NA		Armstrong	83	142.5	111.8-173.1 +
Clearfield	81	103.9	81.2-126.5	Beaver	146	93.4	78.2-108.5
Crawford	91	107.5	85.4-129.6	Butler	106	58.9	47.7-70.1 -
Elk	24	86.2	51.7-120.7	Cambria	200	150.9	130.0-171.8 +
Erie	269	98.2	86.5-109.9 +	Fayette	128	98.0	81.0-115.0
Forest	0	NA		Greene	33	86.8	57.2-116.4
Jefferson	33	77.3	51.0-103.7	Indiana	85	107.5	84.6-130.4
Lawrence	131	160.7	133.2-188.2 +	Somerset	48	66.7	47.9-85.6
McKean	36	87.2	58.7-115.6	Washington	132	67.7	56.1-79.2 -
Mercer	135	129.3	107.5-151.1 +	Westmoreland	316	92.3	82.2-102.5
Venango	48	96.6	69.2-123.9				
Warren	16	NA		<b>Pennsylvania</b>	<b>10,185</b>	<b>83.9</b>	<b>82.3-85.6</b>

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, 2008



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, 2008

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	4,428	5,754	<b>10,185</b>	1,265	39.4	3,425	144.5	3,435	132.6	1,625	68.8	435	22.8
<b>Northeast</b>	566	816	<b>1,384</b>	203	51.6	447	153.9	472	145.9	208	67.6	54	21.6
Carbon	37	55	92	13	93.8	37	296.1	26	197.7	14	106.1	2	NA
Lackawanna	101	109	210	24	47.5	69	173.2	70	169.4	36	89.9	11	29.2
Lehigh	130	212	342	52	58.0	115	178.8	114	163.7	48	74.5	13	25.0
Luzerne	78	94	173	26	36.4	56	96.5	56	86.8	30	49.1	5	NA
Monroe	49	88	137	22	47.8	36	119.2	48	130.5	28	86.8	3	NA
Northampton	132	187	319	45	56.7	100	179.1	120	197.4	37	66.3	17	39.5
Pike	2	13	15	6	NA	3	NA	3	NA	3	NA	0	NA
Susquehanna	18	13	31	7	NA	12	176.1	9	NA	3	NA	0	NA
Wayne	12	31	44	7	NA	13	150.5	18	174.6	5	NA	1	NA
Wyoming	7	14	21	1	NA	6	NA	8	NA	4	NA	2	NA
<b>Southeast</b>	1,880	2,259	<b>4,139</b>	474	35.2	1,312	134.3	1,438	137.6	716	80.3	199	29.0
Berks	135	201	336	46	40.6	90	120.4	128	150.5	55	75.2	17	29.6
Bucks	210	265	475	55	34.3	160	154.1	163	112.6	71	56.2	26	30.1
Chester	112	143	255	35	25.3	76	84.5	84	75.9	40	43.6	20	32.7
Delaware	265	286	551	64	42.8	186	173.7	172	148.9	101	97.9	28	35.8
Lancaster	118	165	283	37	25.9	95	98.8	85	84.6	51	57.3	15	20.3
Montgomery	168	280	448	59	29.5	132	93.9	147	84.5	78	53.0	32	27.6
Philadelphia	786	794	1,580	141	34.5	506	149.9	588	208.5	290	124.5	55	29.6
Schuylkill	86	125	211	37	114.6	67	245.8	71	216.8	30	106.2	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	4,428	5,754	<b>10,185</b>	1,265	39.4	3,425	144.5	3,435	132.6	1,625	68.8	435	22.8
<b>North Central</b>	212	342	<b>554</b>	88	51.0	204	140.8	171	131.1	70	56.5	21	19.6
Bradford	25	46	71	16	102.6	22	212.7	28	222.1	4	NA	1	NA
Centre	34	74	108	10	25.9	56	127.7	28	115.0	9	NA	5	NA
Clinton	10	15	25	1	NA	11	153.2	7	NA	5	NA	1	NA
Columbia	26	40	66	12	70.6	26	183.9	14	121.1	10	85.5	4	NA
Lycoming	25	27	52	5	NA	10	44.4	17	72.1	16	70.4	4	NA
Montour	9	11	20	4	NA	5	NA	7	NA	4	NA	0	NA
Northumberland	46	75	121	20	94.4	45	299.5	41	213.9	11	59.1	4	NA
Potter	8	10	18	1	NA	5	NA	9	NA	3	NA	0	NA
Snyder	8	18	26	4	NA	9	NA	7	NA	6	NA	0	NA
Sullivan	5	3	8	3	NA	0	NA	3	NA	0	NA	2	NA
Tioga	4	9	13	4	NA	3	NA	4	NA	2	NA	0	NA
Union	12	14	26	8	NA	12	116.3	6	NA	0	NA	0	NA
<b>South Central</b>	453	585	<b>1,038</b>	118	28.1	376	123.8	348	100.8	159	50.2	37	14.9
Adams	18	17	35	6	NA	14	74.3	6	NA	6	NA	3	NA
Bedford	14	12	26	1	NA	12	144.1	7	NA	4	NA	2	NA
Blair	63	73	136	22	71.0	48	212.6	47	187.8	15	60.1	4	NA
Cumberland	37	78	115	9	NA	39	83.2	44	95.1	17	39.9	6	NA
Dauphin	69	86	155	12	17.9	48	104.3	59	104.1	27	52.1	9	NA
Franklin	30	46	76	10	26.4	25	95.3	29	102.4	12	44.5	0	NA
Fulton	5	1	6	1	NA	0	NA	3	NA	2	NA	0	NA
Huntingdon	17	27	44	6	NA	21	226.7	12	123.2	3	NA	2	NA
Juniata	6	7	13	1	NA	6	NA	0	NA	6	NA	0	NA
Lebanon	18	34	52	11	34.0	20	79.9	13	51.1	6	NA	2	NA
Mifflin	8	19	27	0	NA	16	207.4	8	NA	3	NA	0	NA
Perry	6	15	21	0	NA	7	NA	10	101.8	4	NA	0	NA
York	162	170	332	39	35.4	120	153.9	110	115.3	54	65.6	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	4,428	5,754	<b>10,185</b>	1,265	39.4	3,425	144.5	3,435	132.6	1,625	68.8	435	22.8
<b>Northwest</b>	397	485	<b>882</b>	128	54.6	310	182.9	305	162.8	115	64.1	24	15.5
Cameron	3	3	6	1	NA	2	NA	1	NA	1	NA	1	NA
Clarion	4	8	12	0	NA	5	NA	3	NA	4	NA	0	NA
Clearfield	38	43	81	15	83.3	26	173.3	23	124.5	16	95.9	1	NA
Crawford	35	56	91	13	55.1	24	154.0	32	185.9	16	90.9	6	NA
Elk	10	14	24	7	NA	8	NA	8	NA	1	NA	0	NA
Erie	120	149	269	33	44.2	94	164.5	104	185.0	32	62.8	6	NA
Forest	0	0	0	0	NA	0	NA	0	NA	0	NA	0	NA
Jefferson	15	18	33	1	NA	14	180.2	12	132.3	4	NA	2	NA
Lawrence	67	64	131	19	83.8	47	311.4	50	277.1	13	73.0	2	NA
McKean	12	24	36	8	NA	22	276.3	4	NA	2	NA	0	NA
Mercer	59	76	135	20	66.4	51	254.8	48	208.4	16	70.5	0	NA
Venango	25	23	48	8	NA	13	145.7	17	155.0	5	NA	5	NA
Warren	9	7	16	3	NA	4	NA	3	NA	5	NA	1	NA
<b>Southwest</b>	920	1,267	<b>2,188</b>	254	39.2	776	160.1	701	125.4	357	65.7	100	21.5
Allegheny	395	516	911	89	30.3	315	139.4	294	117.2	159	66.3	54	26.4
Armstrong	38	45	83	18	106.4	39	369.5	17	119.4	5	NA	4	NA
Beaver	61	85	146	13	32.4	61	212.1	44	123.0	21	58.2	7	NA
Butler	56	50	106	17	34.9	31	96.1	35	88.1	18	50.7	5	NA
Cambria	74	126	200	31	93.7	79	309.1	67	228.2	20	68.0	3	NA
Fayette	51	77	128	12	35.5	53	219.2	38	126.1	23	75.5	2	NA
Greene	14	18	33	8	NA	6	NA	14	166.0	4	NA	1	NA
Indiana	35	50	85	12	52.5	25	136.9	27	170.3	15	91.6	6	NA
Somerset	17	31	48	6	NA	19	135.9	16	96.1	5	NA	2	NA
Washington	56	76	132	16	32.1	43	115.1	49	117.4	20	47.8	4	NA
Westmoreland	123	193	316	32	38.8	105	175.1	100	131.4	67	87.7	12	18.0

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: ALL SELF-INFLICTED

**NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI),  
BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2008**

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	144	92.2	77.2-107.3	Allegheny	745	75.7	70.3-81.2	Berks	50	92.3	66.7-117.9
Chester	22	74.8	43.5-106.0	Chester	221	50.9	44.2-57.6 -	Lancaster	4	NA	
Dauphin	23	54.2	32.1-76.4 -	Dauphin	120	62.7	51.5-73.9 -	Lehigh	51	92.5	67.1-117.9
Delaware	95	86.8	69.4-104.3	Delaware	437	107.6	97.5-117.7 +	Philadelphia	236	144.1	125.7-162.5 +
Montgomery	39	54.2	37.2-71.2 -	Montgomery	363	57.2	51.3-63.1 -				
Philadelphia	640	102.6	94.7-110.6	Philadelphia	663	98.1	90.6-105.5 +				
Pennsylvania	1,231	93.4	88.2-98.6	Pennsylvania	8,074	78.2	76.5-79.9	Pennsylvania	570	99.7	91.6-107.9

**NUMBER FOR SELECT AGE GROUPS AND AGE-SPECIFIC HOSPITALIZATION RATES  
BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2008**

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	13.5%	60	84	<b>144</b>	15.8%	22	40.0	52	145.6	53	173.4	13	52.8	4	NA
	White	82.8%	321	424	<b>745</b>	81.8%	62	27.8	257	144.6	236	111.8	142	67.5	48	26.1
Chester	Black	6.2%	6	16	<b>22</b>	8.6%	1	NA	12	169.3	7	NA	2	NA	0	NA
	White	89.5%	102	119	<b>221</b>	86.7%	29	24.0	59	75.2	75	75.8	38	44.8	20	35.3
Dauphin	Black	17.9%	9	14	<b>23</b>	14.8%	0	NA	12	126.9	9	NA	1	NA	1	NA
	White	77.2%	55	65	<b>120</b>	77.4%	11	23.9	32	93.8	45	101.6	24	55.7	8	NA
Delaware	Black	18.8%	47	48	<b>95</b>	17.2%	14	40.9	35	133.5	34	155.5	11	79.0	1	NA
	White	75.4%	207	230	<b>437</b>	79.3%	46	44.0	143	192.9	135	156.9	87	102.7	26	38.1
Montgomery	Black	8.9%	21	18	<b>39</b>	8.7%	4	NA	13	82.2	16	97.7	5	NA	1	NA
	White	84.0%	136	227	<b>363</b>	81.0%	40	24.5	107	94.6	119	82.9	68	52.9	29	27.5
Philadelphia	Black	45.6%	318	322	<b>640</b>	40.5%	59	27.7	181	123.2	262	204.9	126	123.8	12	17.0
	White	46.9%	351	312	<b>663</b>	42.0%	29	18.0	213	134.3	247	184.9	133	113.8	41	37.9
Pennsylvania	Black	10.7%	595	636	<b>1,231</b>	12.1%	150	34.5	410	131.2	473	177.3	177	90.6	21	16.5
	White	85.7%	3,454	4,619	<b>8,074</b>	79.3%	955	36.4	2,686	137.7	2,712	121.6	1,336	63.3	385	22.0

## INJURY HOSPITALIZATIONS: ALL ASSAULT INJURIES

In 2008, among Pennsylvania residents, there were 5,799 hospitalizations due to assault injury. On average, one resident was hospitalized every 90 minutes.

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### *Injury Definition*

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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 (stabbing). These three mechanisms account for 66 percent of all assault injury hospitalizations in PA.

### HIGHLIGHTS

- Age-adjusted rates have generally been **increasing** over 2004 to 2008.
- Most common demographic is **black males**, ages 15 to 49.
- Of all Pennsylvania counties, **Philadelphia** shows the highest rate.

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### *Trends Over Time*

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- Age-adjusted hospitalization rates for assault injury increased by 14 percent from 2004 to 2008, from 42.1 to 47.9 hospitalizations per 100,000 population.
- Males showed significantly higher age-adjusted assault injury hospitalization rates than females over 2004 to 2008 (rates were 77.1 and 18.6, respectively, in 2008).
- Black males and females showed significantly higher age-adjusted assault injury hospitalization rates than white males and females over 2004 to 2008.

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### *Demographic Trends*

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- 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 less than 60.
- Among males and females, blacks showed significantly higher assault injury hospitalization rates than whites for all ages for which rates could be calculated.

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### *Regional Trends*

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- The Southeast Health District showed the highest age-specific assault injury hospitalization rates, while the South Central Health District showed the lowest rates.
- Three counties showed age-adjusted assault injury hospitalization rates in 2008 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 2008).

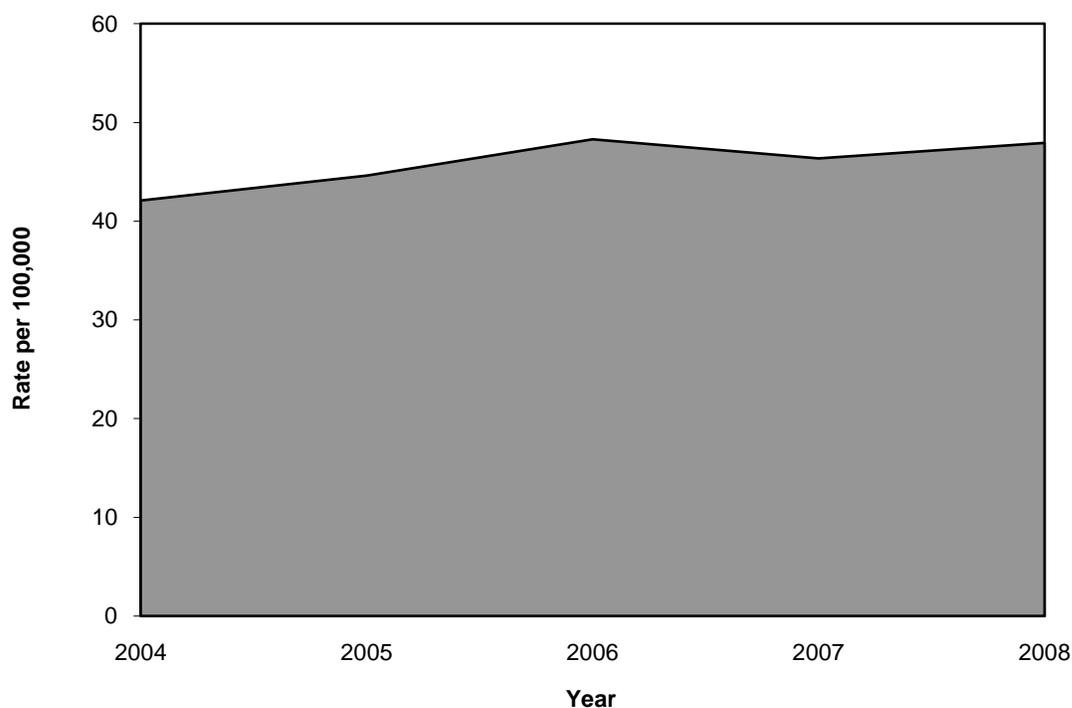
# INJURY HOSPITALIZATIONS: ALL ASSAULT

## TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, 2004-2008

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Year	No.	Rate
2004	5,048	42.1
2005	5,371	44.6
2006	5,816	48.3
2007	5,582	46.4
2008	5,799	47.9

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## AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2004-2008

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Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2004	18.8	12.0	26.3	64.3	19.3	39.6
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

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

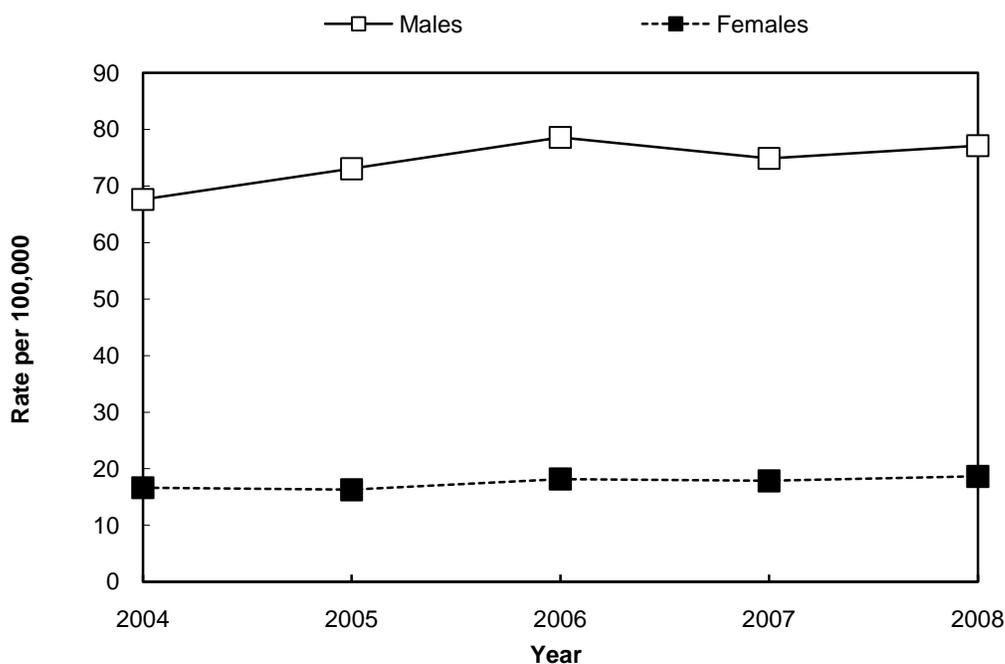
Rates are per 100,000. Data for 2004-2008 based on ICD-9-CM codes. See Technical Notes.

## INJURY HOSPITALIZATIONS: ALL ASSAULT

### TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX PENNSYLVANIA RESIDENTS, 2004-2008

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2004	4,047	67.6 *	2004	1,001	16.6
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

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



### AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2004-2008

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2004	84.0	25.5 *	2004	19.6	8.5 *
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 *

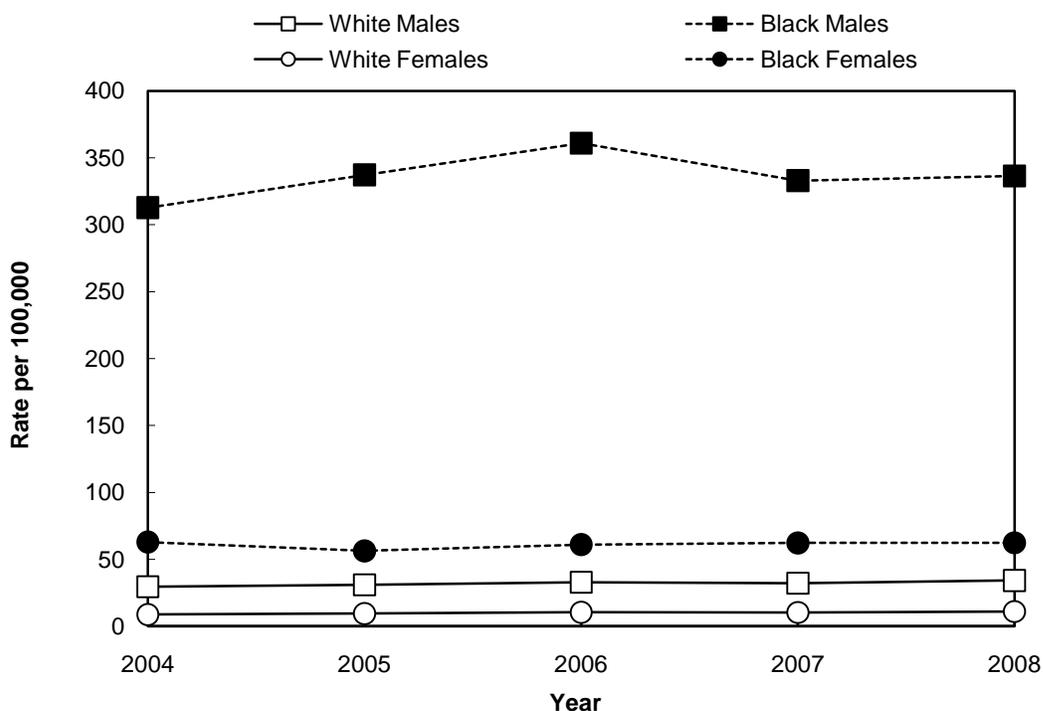
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

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, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	1,526	2,009	469	431	343	51
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



### AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	29.6	312.7 *	8.9	62.9 *	144.4	18.4
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

\* 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, 2008

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
<b>TOTAL</b>	<b>5,799</b>	<b>46.6</b>	<b>4,663</b>	<b>77.1</b>	<b>1,134</b>	<b>17.7</b>			<b>5,180</b>	<b>57.4</b>	<b>619</b>	<b>18.1</b>
< 5	153	20.8	95	25.2	58	16.1	*	107	19.4	46	24.9	
5-9	18	2.4	11	2.8	7	NA		17	3.0	1	NA	
10-14	84	10.5	67	16.4	17	4.4	*	70	11.9	14	6.6	*
15-19	705	76.4	609	131.1	96	20.9	*	646	97.4	59	22.7	*
20-24	981	110.7	836	185.7	144	33.0	*	895	140.9	86	34.2	*
25-29	791	107.0	643	170.1	147	40.7	*	701	127.0	90	48.1	*
30-34	536	72.0	438	116.5	98	26.6	*	475	86.6	61	31.1	*
35-39	503	62.7	397	99.3	106	26.3	*	448	76.2	55	25.7	*
40-44	547	62.5	426	98.2	121	27.4	*	496	77.6	51	21.6	*
45-49	567	62.1	455	101.0	112	24.2	*	509	76.7	58	23.2	*
50-54	374	42.1	299	68.8	75	16.6	*	336	52.4	38	15.4	*
55-59	188	23.5	163	42.0	25	6.0	*	170	29.7	18	7.9	*
60-64	115	17.1	91	28.3	24	6.8		106	22.3	9	NA	
65-69	64	12.1	47	19.3	17	5.9		56	15.2	8	NA	
70-74	56	12.6	33	17.0	23	9.2		49	15.9	7	NA	
75-79	48	13.0	25	16.6	23	10.5		43	16.6	5	NA	
80-84	29	10.2	10	9.3	19	10.7		21	10.4	8	NA	
85 +	40	14.1	18	20.5	22	11.2		35	17.2	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 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, 2008

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
<b>TOTAL</b>	<b>1,760</b>	<b>33.9</b>	<b>2,246</b>	<b>353.8</b>	<b>577</b>	<b>10.5</b>	<b>440</b>	<b>62.7</b>	<b>444</b>	<b>74.7</b>		
< 5	55	18.0	28	54.1	*	35	12.0	11	21.8	9	NA	
5-9	5	NA	4	NA		2	NA	3	NA	3	NA	
10-14	27	8.1	34	61.4	*	10	3.1	6	NA	6	NA	
15-19	182	47.6	347	562.1	*	38	10.0	51	84.5	*	48	81.4
20-24	293	79.1	408	672.0	*	62	17.3	66	110.8	*	76	144.1
25-29	238	76.7	294	572.8	*	71	24.2	59	116.3	*	79	162.2
30-34	142	45.3	232	525.8	*	46	15.1	42	91.0	*	39	85.4
35-39	157	46.2	180	427.4	*	55	16.3	46	99.3	*	51	113.7
40-44	149	39.7	224	530.9	*	59	15.6	46	96.1	*	33	84.1
45-49	194	48.9	207	507.4	*	49	12.2	53	111.5	*	37	108.3
50-54	130	33.5	125	350.4	*	42	10.6	27	62.3	*	33	131.1
55-59	62	17.7	84	292.6	*	16	4.4	8	NA		17	87.0
60-64	47	16.1	40	184.2	*	14	4.4	7	NA		4	NA
65-69	28	12.5	15	100.5	*	15	5.8	0	NA		2	NA
70-74	17	9.5	11	92.8	*	16	7.1	5	NA		3	NA
75-79	16	11.5	5	NA		17	8.5	5	NA		2	NA
80-84	9	NA	1	NA		13	8.0	1	NA		2	NA
85 +	9	NA	7	NA		17	9.4	4	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 HOSPITALIZATIONS: ALL ASSAULT

### TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH CRUDE (AGE-SPECIFIC) HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2008

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>251</b>	<b>27.1</b>	<b>92</b>	<b>13.6</b>	<b>482</b>	<b>30.8</b>	<b>3,603</b>	<b>72.9</b>	<b>279</b>	<b>17.1</b>	<b>1,092</b>	<b>40.4</b>
< 5	16	31.2	6	NA	15	17.2	64	19.9	16	16.1	36	25.2
5-9	0	NA	0	NA	1	NA	12	3.7	1	NA	4	NA
10-14	5	NA	3	NA	4	NA	49	14.7 +	6	NA	17	10.5
15-19	30	42.8 -	4	NA	57	49.2 -	444	120.4 +	27	23.5 -	143	75.3
20-24	32	50.2 -	15	20.8 -	76	69.4 -	620	174.3 +	38	35.6 -	200	112.1
25-29	28	54.0 -	18	51.2 -	70	77.4 -	471	150.3 +	39	39.9 -	165	109.7
30-34	30	55.7	15	40.0 -	30	33.2 -	341	110.7 +	24	24.2 -	96	61.7
35-39	23	40.2 -	8	NA	55	55.5	313	95.1 +	26	24.3 -	78	46.1 -
40-44	18	28.6 -	7	NA	38	34.7 -	354	99.9 +	29	24.8 -	101	53.9
45-49	26	38.7 -	9	NA	43	37.4 -	376	103.9 +	25	20.6 -	88	43.5 -
50-54	18	27.2	2	NA	41	36.3	238	69.5 +	16	13.6 -	59	29.1 -
55-59	8	NA	2	NA	9	NA	125	41.5 +	11	10.2 -	33	17.8
60-64	4	NA	0	NA	10	11.0	74	29.9 +	6	NA	21	13.5
65-69	4	NA	1	NA	10	13.9	27	14.2	8	NA	14	11.5
70-74	3	NA	1	NA	8	NA	33	20.9 +	3	NA	8	NA
75-79	2	NA	1	NA	7	NA	24	18.3	3	NA	11	12.0
80-84	2	NA	0	NA	5	NA	15	14.6	1	NA	6	NA
85 +	2	NA	0	NA	3	NA	23	22.2 +	0	NA	12	16.2

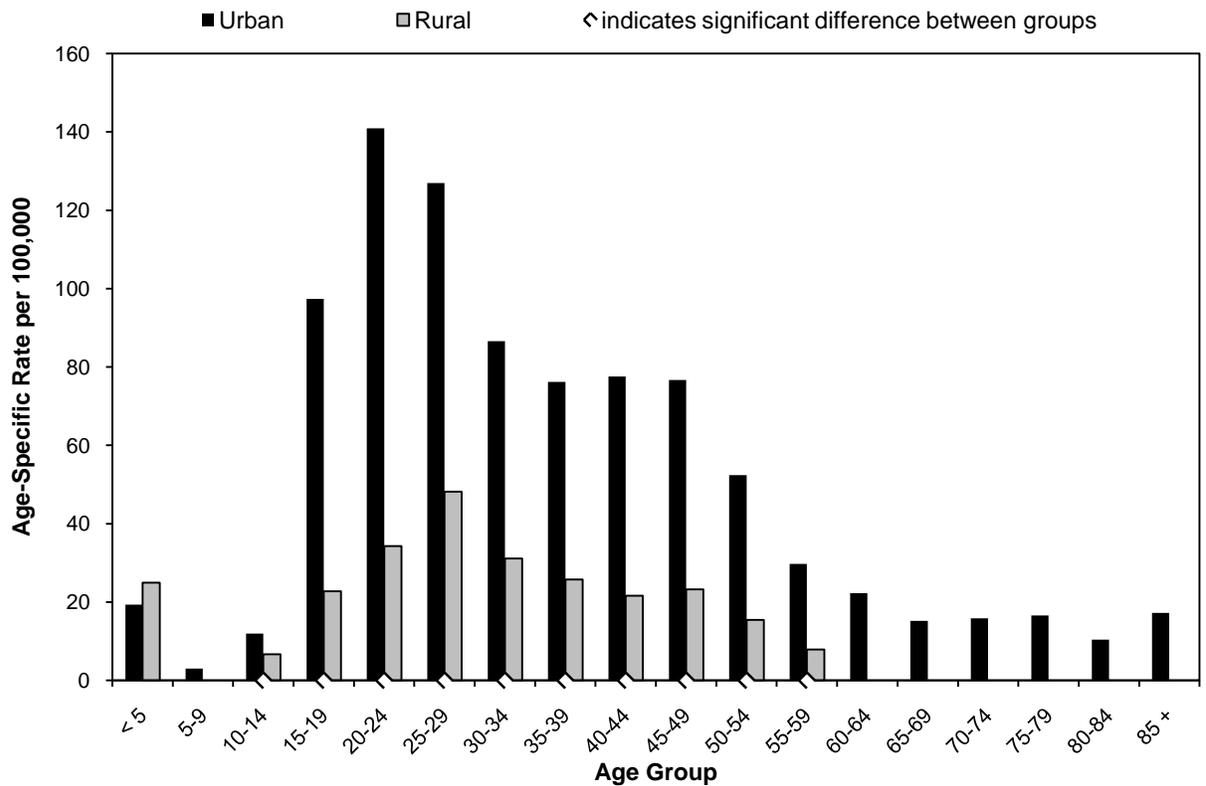
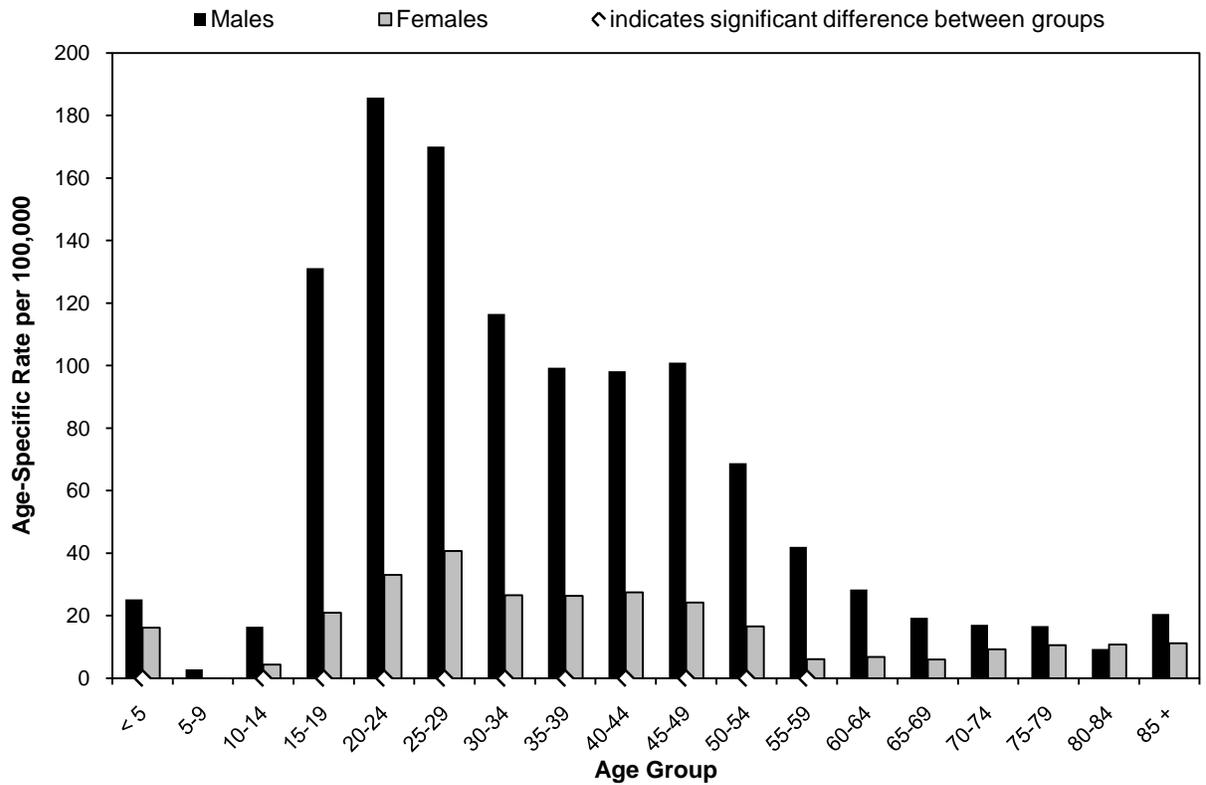
*+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.*

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.

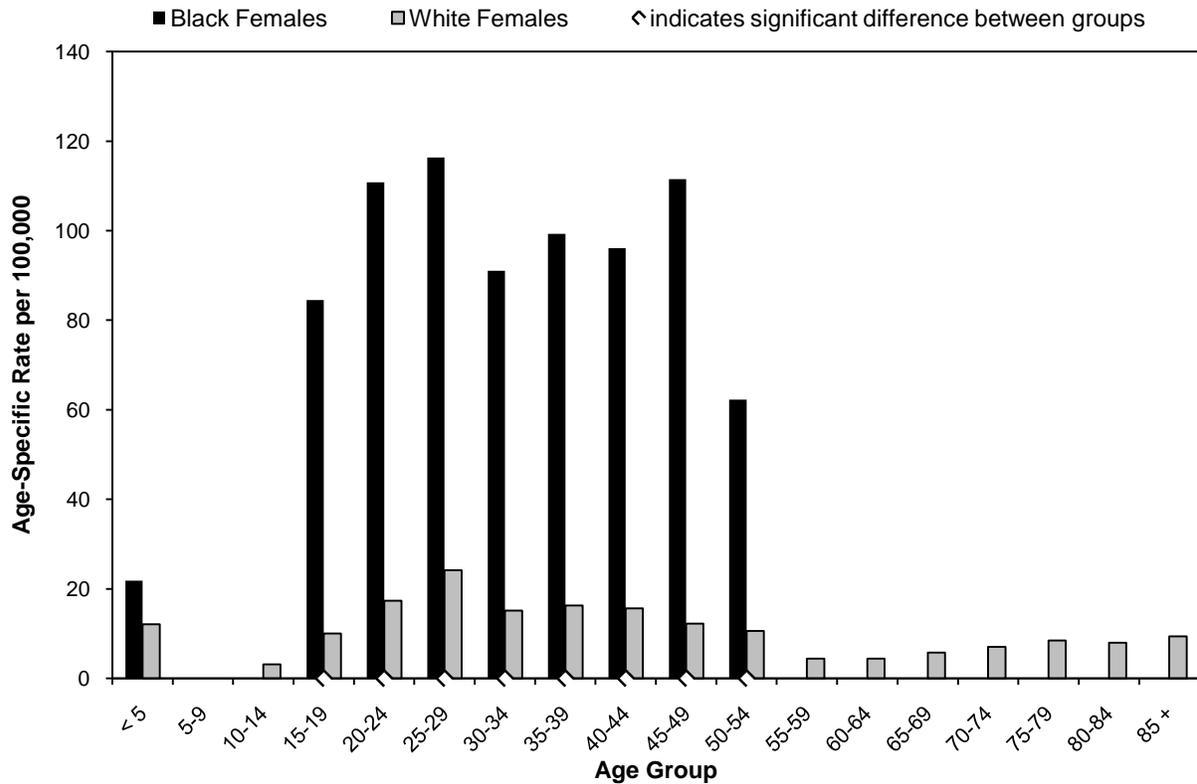
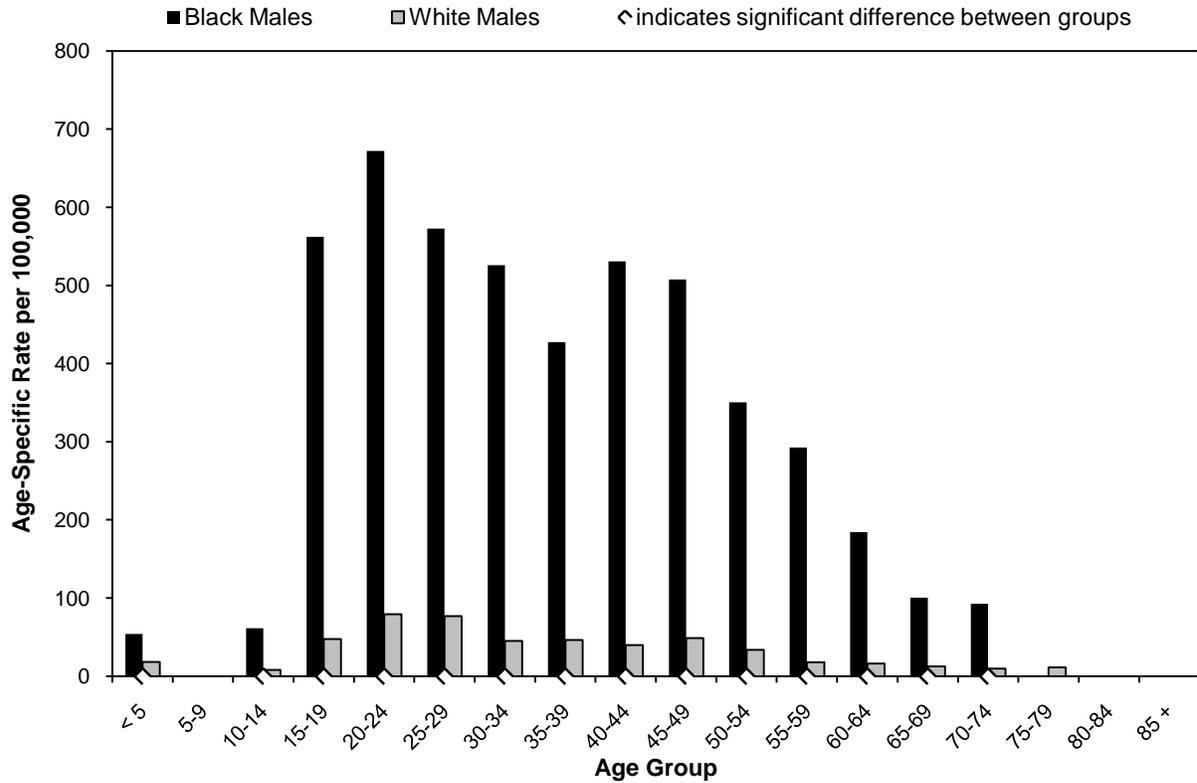
# INJURY HOSPITALIZATIONS: ALL ASSAULT

## AGE-SPECIFIC HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS PENNSYLVANIA RESIDENTS, 2008



# INJURY HOSPITALIZATIONS: ALL ASSAULT

## AGE-SPECIFIC HOSPITALIZATION RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2008



## INJURY HOSPITALIZATIONS: ALL ASSAULT

### NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2008

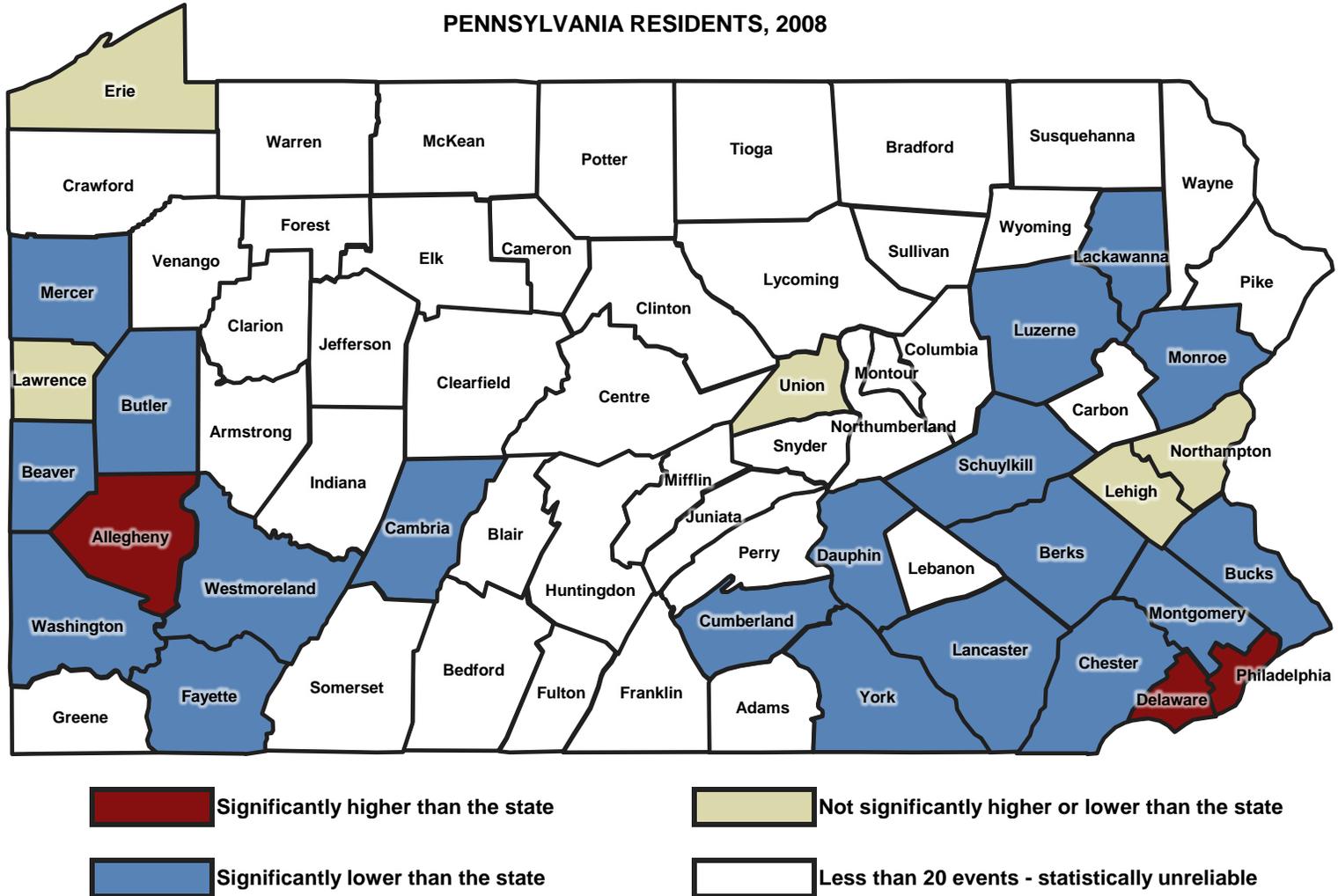
District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
<b>Northeast</b>	482	31.9	29.1-34.8 -	<b>Southeast</b>	3,603	73.7	71.3-76.1 +
Carbon	16	NA		Berks	136	35.2	29.3-41.2 -
Lackawanna	48	22.8	16.3-29.2 -	Bucks	124	22.0	18.1-25.9 -
Lehigh	159	49.7	42.0-57.5	Chester	88	18.4	14.5-22.2 -
Luzerne	84	28.8	22.7-35.0 -	Delaware	405	73.9	66.7-81.1 +
Monroe	37	21.4	14.5-28.3 -	Lancaster	110	23.3	18.9-27.6 -
Northampton	118	40.5	33.2-47.8	Montgomery	176	23.5	20.0-27.0 -
Pike	6	NA		Philadelphia	2,537	172.3	165.6-179.0 +
Susquehanna	3	NA		Schuylkill	27	20.5	12.8-28.3 -
Wayne	8	NA					
Wyoming	3	NA					
<b>North Central</b>	92	14.9	11.9-18.0 -	<b>South Central</b>	279	17.8	15.7-19.9 -
Bradford	7	NA		Adams	3	NA	
Centre	14	NA		Bedford	7	NA	
Clinton	5	NA		Blair	17	NA	
Columbia	15	NA		Cumberland	35	14.9	9.9-19.8 -
Lycoming	18	NA		Dauphin	65	26.8	20.3-33.3 -
Montour	2	NA		Franklin	19	NA	
Northumberland	7	NA		Fulton	2	NA	
Potter	0	NA		Huntingdon	5	NA	
Snyder	2	NA		Juniata	2	NA	
Sullivan	1	NA		Lebanon	10	NA	
Tioga	1	NA		Mifflin	5	NA	
Union	20	45.6	25.6-65.7	Perry	5	NA	
				York	104	25.5	20.6-30.3 -
<b>Northwest</b>	251	28.7	25.2-32.3 -	<b>Southwest</b>	1,092	42.9	40.3-45.4 -
Cameron	2	NA		Allegheny	712	61.0	56.5-65.5 +
Clarion	4	NA		Armstrong	17	NA	
Clearfield	9	NA		Beaver	52	31.1	22.7-39.6 -
Crawford	14	NA		Butler	31	17.5	11.4-23.7 -
Elk	5	NA		Cambria	46	35.5	25.2-45.7 -
Erie	127	46.2	38.2-54.3	Fayette	39	30.5	20.9-40.0 -
Forest	1	NA		Greene	9	NA	
Jefferson	7	NA		Indiana	19	NA	
Lawrence	32	38.3	25.0-51.5	Somerset	16	NA	
McKean	11	NA		Washington	61	32.2	24.1-40.2 -
Mercer	20	17.9	10.1-25.8 -	Westmoreland	90	27.7	22.0-33.5 -
Venango	17	NA					
Warren	2	NA		<b>Pennsylvania</b>	<b>5,799</b>	<b>47.9</b>	<b>46.7-49.2</b>

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, 2008



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, 2008

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
<b>Pennsylvania</b>	4,663	1,134	<b>5,799</b>	960	29.9	2,308	97.4	1,617	62.4	677	28.6	237	12.4
<b>Northeast</b>	378	103	<b>482</b>	77	19.6	176	60.6	136	42.0	60	19.5	33	13.2
Carbon	13	3	16	2	NA	7	NA	3	NA	2	NA	2	NA
Lackawanna	37	11	48	8	NA	14	35.2	11	26.6	8	NA	7	NA
Lehigh	126	33	159	23	25.7	56	87.0	58	83.3	12	18.6	10	19.2
Luzerne	67	16	84	17	23.8	31	53.4	28	43.4	5	NA	3	NA
Monroe	29	8	37	8	NA	9	NA	5	NA	13	40.3	2	NA
Northampton	92	26	118	18	22.7	53	94.9	23	37.8	16	28.7	8	NA
Pike	3	3	6	0	NA	1	NA	4	NA	1	NA	0	NA
Susquehanna	2	1	3	0	NA	1	NA	0	NA	2	NA	0	NA
Wayne	8	0	8	1	NA	3	NA	3	NA	1	NA	0	NA
Wyoming	1	2	3	0	NA	1	NA	1	NA	0	NA	1	NA
<b>Southeast</b>	2,967	636	<b>3,603</b>	569	42.3	1,432	146.5	1,043	99.8	437	49.0	122	17.8
Berks	96	40	136	26	23.0	55	73.6	35	41.1	10	13.7	10	17.4
Bucks	89	35	124	23	14.3	55	53.0	27	18.7	10	7.9	9	NA
Chester	72	16	88	17	12.3	32	35.6	27	24.4	7	NA	5	NA
Delaware	331	74	405	71	47.5	169	157.8	109	94.4	44	42.7	12	15.3
Lancaster	88	22	110	23	16.1	44	45.8	35	34.9	4	NA	4	NA
Montgomery	140	36	176	19	9.5	67	47.6	54	31.0	27	18.3	9	NA
Philadelphia	2,128	409	2,537	384	94.0	1,002	296.8	745	264.1	333	142.9	73	39.3
Schuylkill	23	4	27	6	NA	8	NA	11	33.6	2	NA	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	4,663	1,134	5,799	960	29.9	2,308	97.4	1,617	62.4	677	28.6	237	12.4
<b>North Central</b>	71	20	<b>92</b>	13	7.5	48	33.1	24	18.4	4	NA	3	NA
Bradford	5	2	7	1	NA	1	NA	4	NA	1	NA	0	NA
Centre	10	4	14	1	NA	9	NA	2	NA	0	NA	2	NA
Clinton	4	1	5	1	NA	1	NA	2	NA	1	NA	0	NA
Columbia	12	2	15	4	NA	9	NA	1	NA	0	NA	1	NA
Lycoming	13	5	18	2	NA	13	57.7	2	NA	1	NA	0	NA
Montour	1	1	2	0	NA	1	NA	1	NA	0	NA	0	NA
Northumberland	5	2	7	4	NA	1	NA	2	NA	0	NA	0	NA
Potter	0	0	0	0	NA	0	NA	0	NA	0	NA	0	NA
Snyder	1	1	2	0	NA	1	NA	1	NA	0	NA	0	NA
Sullivan	0	1	1	0	NA	0	NA	0	NA	1	NA	0	NA
Tioga	1	0	1	0	NA	0	NA	1	NA	0	NA	0	NA
Union	19	1	20	0	NA	12	116.3	8	NA	0	NA	0	NA
<b>South Central</b>	212	67	<b>279</b>	50	11.9	101	33.3	80	23.2	33	10.4	15	6.0
Adams	3	0	3	0	NA	0	NA	3	NA	0	NA	0	NA
Bedford	5	2	7	1	NA	5	NA	0	NA	1	NA	0	NA
Blair	14	3	17	2	NA	7	NA	7	NA	0	NA	1	NA
Cumberland	25	10	35	2	NA	17	36.3	6	NA	6	NA	4	NA
Dauphin	51	14	65	13	19.4	24	52.1	20	35.3	8	NA	0	NA
Franklin	15	4	19	4	NA	7	NA	6	NA	2	NA	0	NA
Fulton	2	0	2	0	NA	0	NA	0	NA	2	NA	0	NA
Huntingdon	3	2	5	1	NA	1	NA	2	NA	0	NA	1	NA
Juniata	2	0	2	0	NA	0	NA	1	NA	1	NA	0	NA
Lebanon	8	2	10	5	NA	1	NA	1	NA	3	NA	0	NA
Mifflin	3	2	5	2	NA	2	NA	1	NA	0	NA	0	NA
Perry	5	0	5	1	NA	3	NA	1	NA	0	NA	0	NA
York	76	28	104	19	17.2	34	43.6	32	33.6	10	12.2	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	4,663	1,134	5,799	960	29.9	2,308	97.4	1,617	62.4	677	28.6	237	12.4
<b>Northwest</b>	202	49	251	51	21.7	90	53.1	67	35.8	30	16.7	13	8.4
Cameron	2	0	2	1	NA	1	NA	0	NA	0	NA	0	NA
Clarion	4	0	4	0	NA	2	NA	1	NA	1	NA	0	NA
Clearfield	6	3	9	4	NA	2	NA	0	NA	1	NA	2	NA
Crawford	12	2	14	3	NA	4	NA	4	NA	2	NA	1	NA
Elk	3	2	5	1	NA	3	NA	1	NA	0	NA	0	NA
Erie	107	20	127	17	22.8	50	87.5	39	69.4	18	35.3	3	NA
Forest	1	0	1	0	NA	1	NA	0	NA	0	NA	0	NA
Jefferson	6	1	7	1	NA	3	NA	2	NA	1	NA	0	NA
Lawrence	21	11	32	7	NA	7	NA	10	55.4	3	NA	5	NA
McKean	11	0	11	1	NA	6	NA	3	NA	1	NA	0	NA
Mercer	14	6	20	7	NA	7	NA	2	NA	2	NA	2	NA
Venango	14	3	17	8	NA	4	NA	4	NA	1	NA	0	NA
Warren	1	1	2	1	NA	0	NA	1	NA	0	NA	0	NA
<b>Southwest</b>	833	259	1,092	200	30.9	461	95.1	267	47.8	113	20.8	51	11.0
Allegheny	557	155	712	126	42.9	308	136.3	178	71.0	67	27.9	33	16.1
Armstrong	8	9	17	4	NA	7	NA	3	NA	2	NA	1	NA
Beaver	41	11	52	8	NA	22	76.5	6	NA	14	38.8	2	NA
Butler	23	8	31	10	20.5	12	37.2	3	NA	5	NA	1	NA
Cambria	31	15	46	9	NA	17	66.5	15	51.1	3	NA	2	NA
Fayette	27	12	39	5	NA	19	78.6	10	33.2	1	NA	4	NA
Greene	8	1	9	0	NA	4	NA	3	NA	1	NA	1	NA
Indiana	16	3	19	3	NA	9	NA	4	NA	1	NA	2	NA
Somerset	13	3	16	3	NA	6	NA	4	NA	2	NA	1	NA
Washington	41	20	61	11	22.1	20	53.5	22	52.7	7	NA	1	NA
Westmoreland	68	22	90	21	25.5	37	61.7	19	25.0	10	13.1	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.

## INJURY HOSPITALIZATIONS: ALL ASSAULT

**NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI),  
BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2008**

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	370	219.3	197.0-241.7	Allegheny	291	30.7	27.1-34.2 +	Berks	31	51.6	33.4-69.7
Chester	25	82.7	50.3-115.2 -	Chester	58	13.6	10.1-17.1 -	Lancaster	3	NA	
Dauphin	35	74.9	50.1-99.7 -	Dauphin	23	12.0	7.1-16.9 -	Lehigh	37	65.0	44.1-85.9
Delaware	217	187.7	162.7-212.6	Delaware	164	41.3	35.0-47.6 +	Philadelphia	265	163.8	144.0-183.5 +
Montgomery	48	65.5	46.9-84.0 -	Montgomery	93	14.9	11.8-17.9 -				
Philadelphia	1,697	256.3	244.1-268.5 +	Philadelphia	462	66.5	60.4-72.5 +				
Pennsylvania	2,686	193.6	186.3-200.9	Pennsylvania	2,339	22.7	21.8-23.7	Pennsylvania	444	76.0	68.9-83.0

**NUMBER FOR SELECT AGE GROUPS AND AGE-SPECIFIC HOSPITALIZATION RATES  
BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2008**

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	13.5%	294	76	<b>370</b>	52.0%	74	134.6	173	484.4	82	268.3	32	129.9	9	NA
	White	82.8%	220	71	<b>291</b>	40.9%	43	19.3	111	62.5	82	38.9	33	15.7	22	12.0
Chester	Black	6.2%	21	4	<b>25</b>	28.4%	5	NA	8	NA	10	170.2	1	NA	1	NA
	White	89.5%	46	12	<b>58</b>	65.9%	12	9.9	20	25.5	16	16.2	6	NA	4	NA
Dauphin	Black	17.9%	28	7	<b>35</b>	53.8%	9	NA	15	158.6	9	NA	2	NA	0	NA
	White	77.2%	18	5	<b>23</b>	35.4%	3	NA	9	NA	6	NA	5	NA	0	NA
Delaware	Black	18.8%	188	29	<b>217</b>	53.6%	46	134.5	100	381.5	54	246.9	16	115.0	1	NA
	White	75.4%	123	41	<b>164</b>	40.5%	21	20.1	60	80.9	49	57.0	24	28.3	10	14.6
Montgomery	Black	8.9%	39	9	<b>48</b>	27.3%	4	NA	21	132.7	16	97.7	6	NA	1	NA
	White	84.0%	71	22	<b>93</b>	52.8%	13	8.0	28	24.7	30	20.9	16	12.4	6	NA
Philadelphia	Black	45.6%	1,426	271	<b>1,697</b>	66.9%	296	139.0	654	445.3	500	391.1	208	204.3	39	55.3
	White	46.9%	370	92	<b>462</b>	18.2%	38	23.6	173	109.1	144	107.8	81	69.3	26	24.1
Pennsylvania	Black	10.7%	2,246	440	<b>2,686</b>	46.3%	484	111.4	1,101	352.2	756	283.3	291	148.9	54	42.3
	White	85.7%	1,760	577	<b>2,339</b>	40.3%	354	13.5	854	43.8	663	29.7	311	14.7	157	9.0

## INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

In 2008, among Pennsylvania residents, there were 17,981 injury hospitalizations involving traumatic brain injury (TBI). On average, one resident was hospitalized every 30 minutes.

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### ***Injury Definition***

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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 **stable** over 2004 to 2008.*
- *Most common demographic is residents age **75 and older**.*
- *Of all Pennsylvania counties, **Carbon and Northampton** show the highest rate.*

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### ***Trends Over Time***

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- Age-adjusted hospitalization rates for TBI increased from 2004 to 2006, from 133.5 to 143.0 hospitalizations per 100,000 population. Rates then decreased from 2006 to 2008, to 132.3 hospitalizations per 100,000 population.
- Males showed significantly higher age-adjusted TBI hospitalization rates than females over 2004 to 2008 (rates were 175.0 and 91.9, respectively, in 2008).
- Black males showed significantly higher age-adjusted TBI hospitalization rates than white males over 2004 to 2008 (rates were 224.6 and 152.2, respectively, in 2008).

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### ***Demographic Trends***

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- Males showed significantly higher hospitalization rates than females for all age groups.
- Among males, blacks showed significantly higher TBI hospitalization rates for ages less than 70, while whites showed significantly higher rates for ages 75 and older.
- Among females, blacks showed significantly higher TBI hospitalization rates for ages less than 5, while whites showed significantly higher rates for ages 80 and older.

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### ***Regional Trends***

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- 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.
- Eleven counties showed age-adjusted TBI hospitalization rates for 2008 that were significantly higher than the comparable state rate.

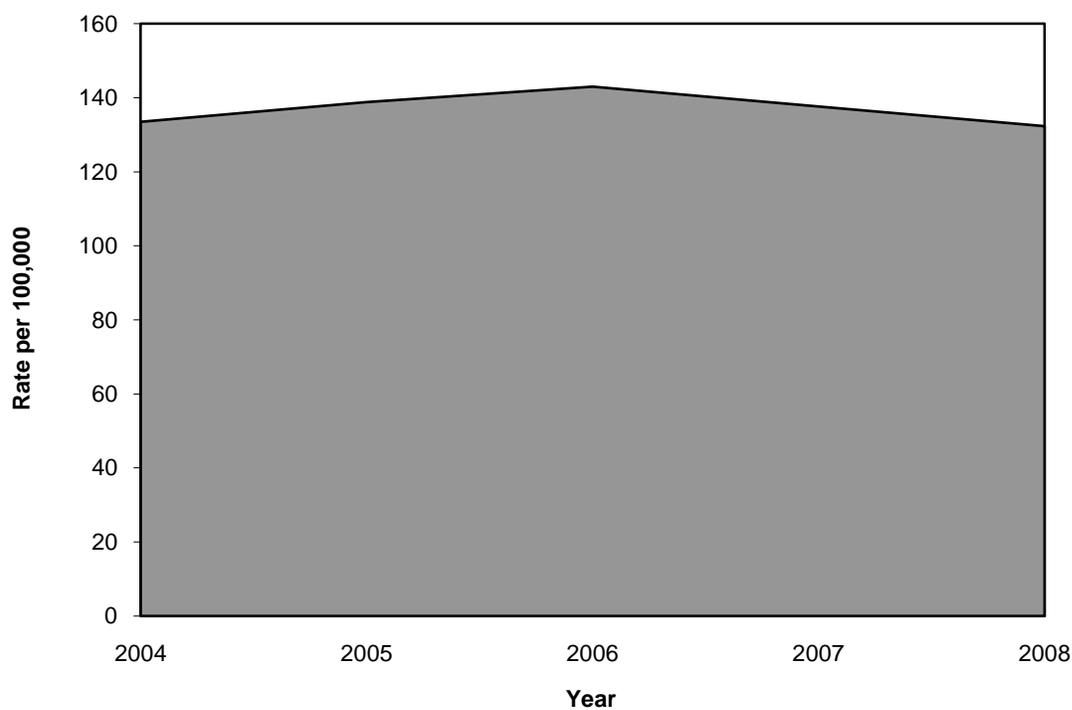
# INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

## TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, 2004-2008

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Year	No.	Rate
2004	17,513	133.5
2005	18,365	138.8
2006	18,768	143.0
2007	18,260	137.6
2008	17,981	132.3

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## AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2004-2008

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Year	Northwest	N. Central	Northeast	Southeast	S. Central	Southwest
2004	113.5	82.8	156.2	133.3	120.2	148.3
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

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

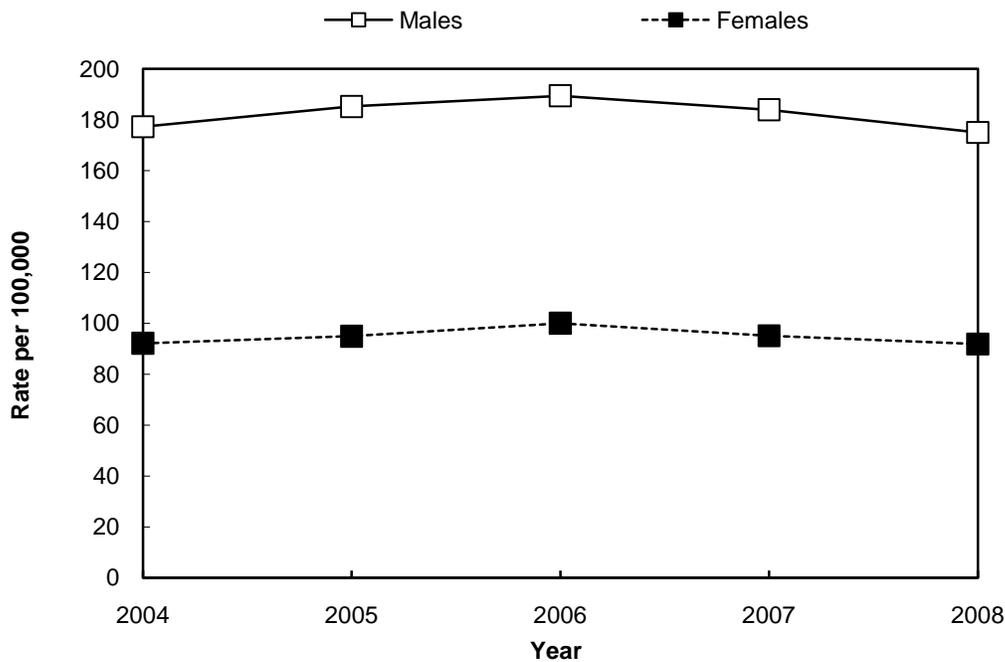
Rates are per 100,000. Data for 2004-2008 based on ICD-9-CM codes. See Technical Notes.

# INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

## TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX PENNSYLVANIA RESIDENTS, 2004-2008

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2004	10,611	177.3 *	2004	6,899	92.2
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

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



## AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2004-2008

Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2004	180.9	168.3 *	2004	93.2	89.7
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 *

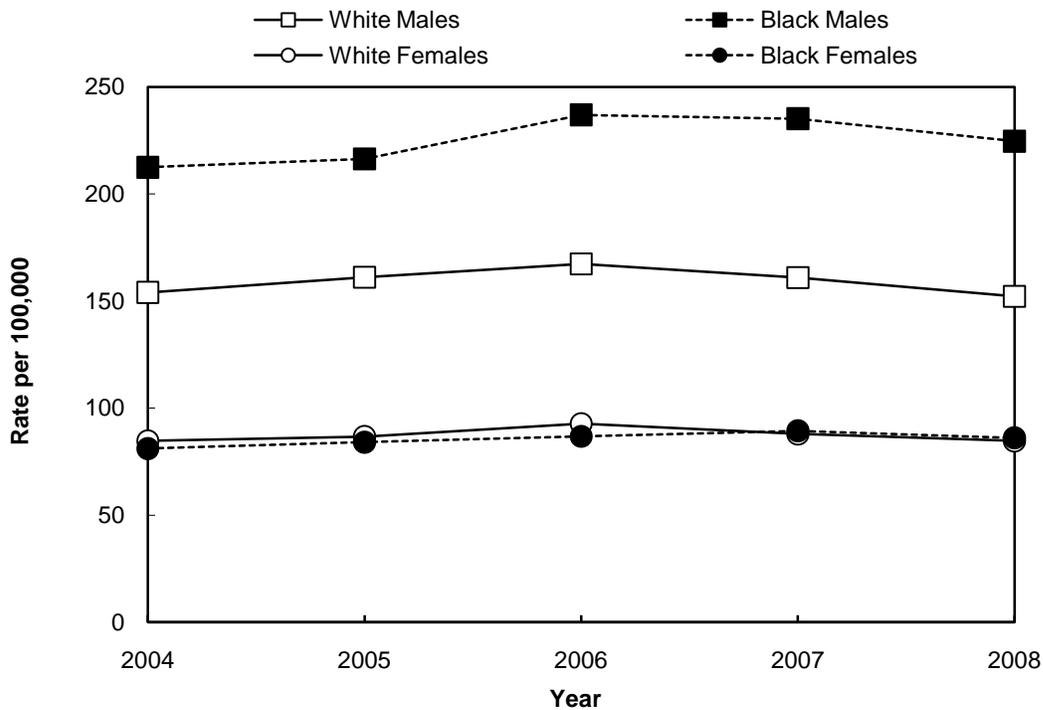
NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

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, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	8,085	1,249	5,716	544	405	164
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



### AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2004-2008

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2004	154.0	212.5 *	84.7	81.1	197.3	90.9
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

\* 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, 2008

AGE GROUP	PA TOTAL		MALE		FEMALE		URBAN		RURAL			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
<b>TOTAL</b>	<b>17,981</b>	<b>144.4</b>	<b>10,720</b>	<b>177.2</b>	<b>7,242</b>	<b>113.2</b>						
< 5	525	71.2	328	87.0	197	54.7	*	402	72.7	123	66.7	
5-9	266	35.2	168	43.5	98	26.6	*	193	34.5	73	37.3	
10-14	398	49.8	285	69.9	113	28.9	*	293	49.9	105	49.8	
15-19	1,175	127.3	848	182.6	325	70.9	*	824	124.2	351	135.2	
20-24	1,318	148.7	985	218.8	333	76.4	*	969	152.6	349	138.9	
25-29	932	126.1	701	185.4	231	64.0	*	692	125.4	240	128.3	
30-34	711	95.4	518	137.8	191	51.8	*	533	97.2	178	90.7	
35-39	742	92.5	513	128.4	229	56.9	*	543	92.3	199	93.0	
40-44	891	101.8	647	149.2	243	55.0	*	640	100.1	251	106.5	
45-49	1,075	117.7	747	165.8	328	70.8	*	803	120.9	272	108.9	
50-54	1,027	115.7	711	163.5	315	69.5	*	797	124.3	230	93.2	*
55-59	871	108.7	583	150.3	286	69.2	*	664	116.0	207	90.5	*
60-64	854	126.7	558	173.8	295	83.6	*	640	134.5	214	107.9	*
65-69	804	151.6	442	181.6	360	125.5	*	587	159.3	217	134.2	*
70-74	912	205.8	471	243.0	440	176.5	*	638	206.5	274	204.4	
75-79	1,289	349.2	613	407.5	675	308.6	*	945	364.9	344	312.3	*
80-84	1,762	620.1	726	677.4	1,033	583.6	*	1,286	634.9	476	583.4	
85 +	2,428	855.0	875	996.2	1,550	790.2	*	1,796	881.3	632	788.1	*

\* 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: 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, 2008

AGE GROUP	WHITE MALE		BLACK MALE		WHITE FEMALE		BLACK FEMALE		HISPANICS*			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
<b>TOTAL</b>	<b>8,151</b>	<b>156.9</b>	<b>1,341</b>	<b>211.2</b>	<b>5,992</b>	<b>109.5</b>	<b>598</b>	<b>85.2</b>	<b>616</b>	<b>103.7</b>		
< 5	215	70.5	58	112.0	*	121	41.7	33	65.4	*	51	75.0
5-9	105	33.4	35	68.0	*	68	22.7	14	28.1		21	34.8
10-14	206	61.7	49	88.6	*	85	26.7	16	29.9		13	23.2
15-19	606	158.4	130	210.6	*	257	67.9	37	61.3		53	89.8
20-24	707	191.0	145	238.8	*	242	67.7	46	77.2		61	115.6
25-29	493	158.8	102	198.7	*	185	62.9	31	61.1		56	115.0
30-34	364	116.0	71	160.9	*	137	45.0	30	65.0		45	98.5
35-39	359	105.5	87	206.6	*	169	50.0	31	66.9		38	84.7
40-44	452	120.3	105	248.9	*	184	48.7	34	71.0		45	114.7
45-49	524	132.0	130	318.6	*	250	62.2	45	94.7	*	56	163.9
50-54	518	133.5	112	314.0	*	243	61.1	37	85.3		42	166.9
55-59	423	120.8	98	341.4	*	225	61.4	33	89.8		24	122.8
60-64	446	152.7	55	253.2	*	247	78.2	20	68.4		23	172.1
65-69	357	159.7	48	321.6	*	297	114.3	29	135.5		15	161.1
70-74	395	221.4	34	286.8		378	166.7	26	140.0		13	195.9
75-79	537	384.9	22	254.0	*	587	292.5	39	255.7		20	417.0
80-84	657	660.2	26	421.1	*	915	562.4	49	401.2	*	19	608.4
85 +	786	969.4	34	616.7	*	1,402	775.8	48	367.2	*	21	629.7

\* 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. 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, 2008

AGE GROUP	NORTHWEST		NORTH CENTRAL		NORTHEAST		SOUTHEAST		SOUTH CENTRAL		SOUTHWEST	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
<b>TOTAL</b>	<b>1,418</b>	<b>153.2</b>	<b>666</b>	<b>98.1</b>	<b>2,567</b>	<b>164.0</b>	<b>6,977</b>	<b>141.1</b>	<b>1,755</b>	<b>107.4</b>	<b>4,598</b>	<b>170.3</b>
< 5	40	78.1	27	76.7	80	92.0 +	244	75.9	66	66.4	68	47.5 -
5-9	13	23.9	7	NA	46	50.6 +	114	35.4	47	46.8	39	25.7 -
10-14	27	45.8	21	54.7	65	64.9 +	150	45.0	44	41.8	91	56.0
15-19	92	131.2	55	87.0 -	190	164.1 +	462	125.3	128	111.4	248	130.5
20-24	95	149.0	45	62.3 -	182	166.1	547	153.8	120	112.5 -	329	184.4 +
25-29	74	142.7	37	105.3	128	141.5	385	122.8	84	86.0 -	224	148.9 +
30-34	57	105.9	29	77.3	103	113.9	286	92.8	55	55.4 -	181	116.2 +
35-39	54	94.4	34	84.6	108	109.1	321	97.5	59	55.0 -	166	98.2
40-44	68	108.1	33	75.0	144	131.5 +	370	104.4	79	67.6 -	197	105.0
45-49	72	107.1	45	97.5	158	137.3	453	125.2	97	79.9 -	250	123.7
50-54	87	131.3	22	48.3 -	142	125.7	447	130.5 +	79	67.1 -	250	123.4
55-59	86	141.5 +	27	64.3 -	100	96.2	357	118.5	93	86.0 -	208	112.4
60-64	52	99.1	29	79.9 -	115	126.5	344	138.9	95	104.6	219	140.4
65-69	71	166.2	32	103.7 -	131	182.6 +	282	148.2	85	116.8 -	203	166.6
70-74	90	246.9	35	136.8 -	142	242.5	305	193.1	99	167.9 -	241	228.3
75-79	108	353.4	40	192.7 -	199	417.8 +	430	327.5	135	284.2 -	377	412.4 +
80-84	146	632.5	72	472.1 -	245	681.6	595	580.1	170	493.9 -	534	732.6 +
85 +	186	850.9	75	515.2 -	289	810.5	885	854.1	220	638.9 -	773	1,046.5 +

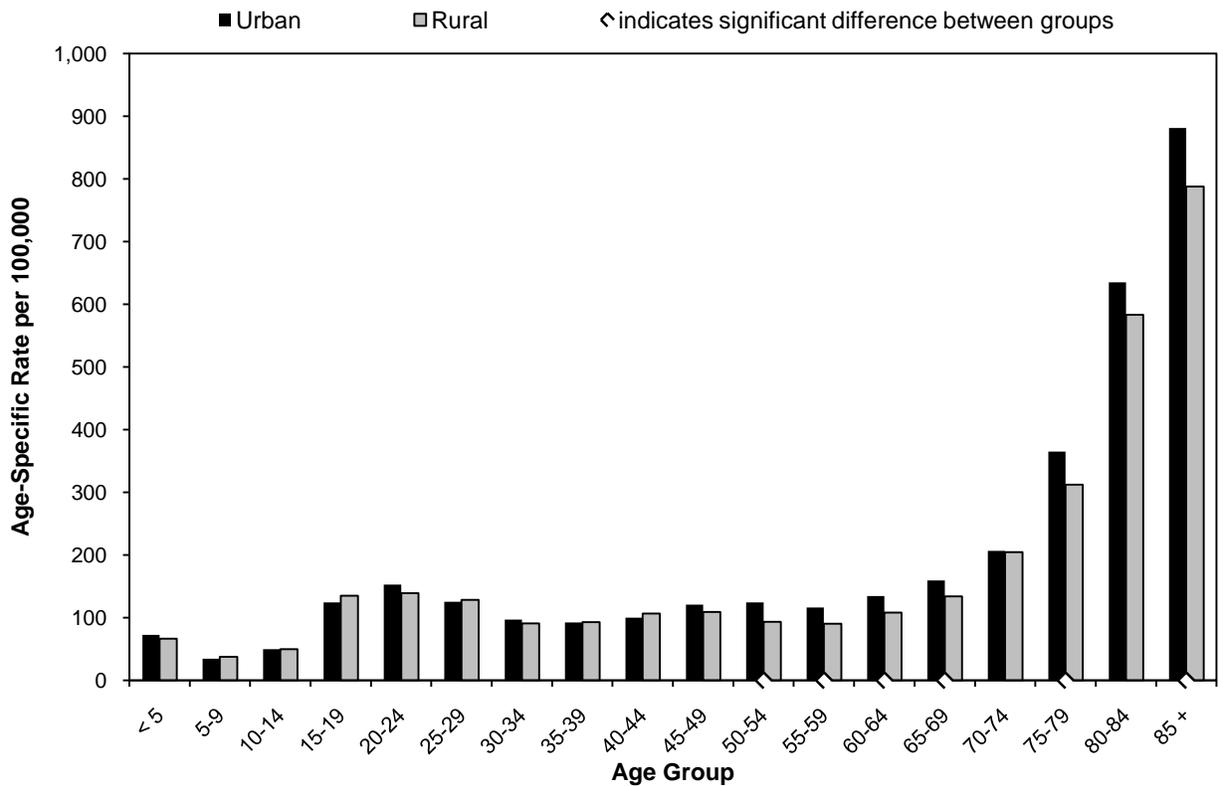
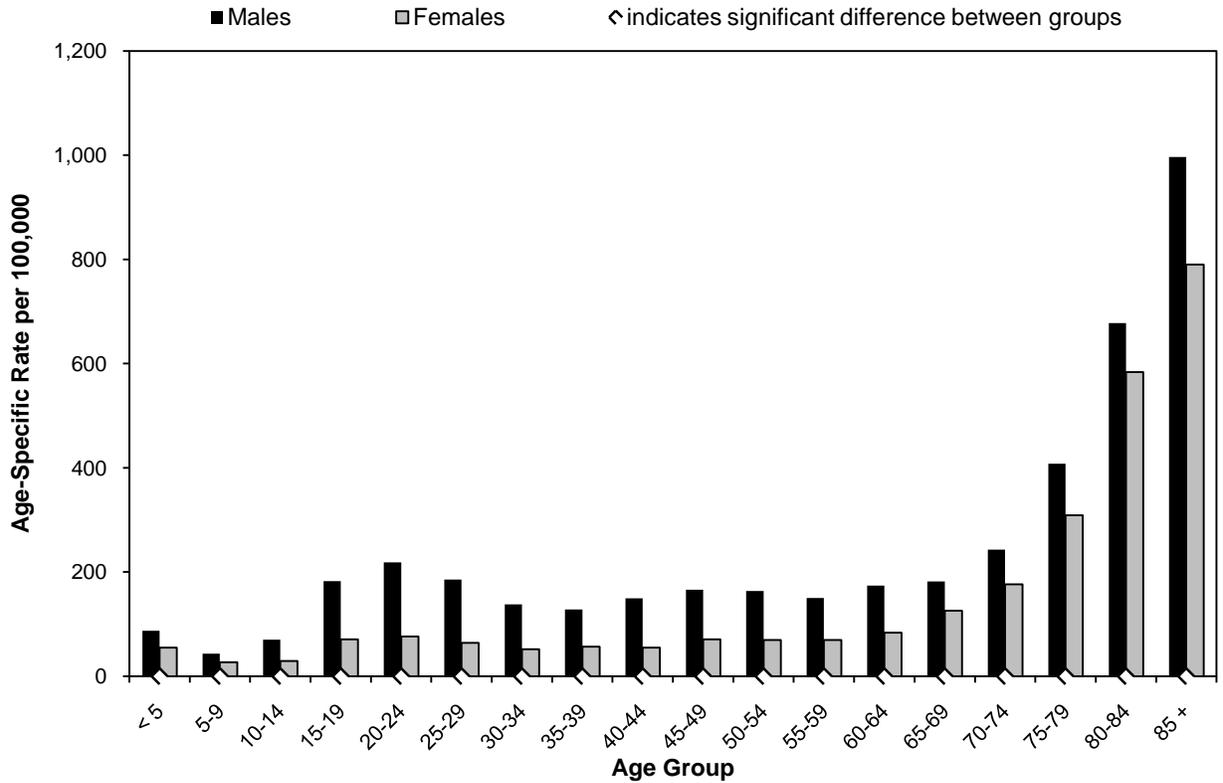
*+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.*

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.

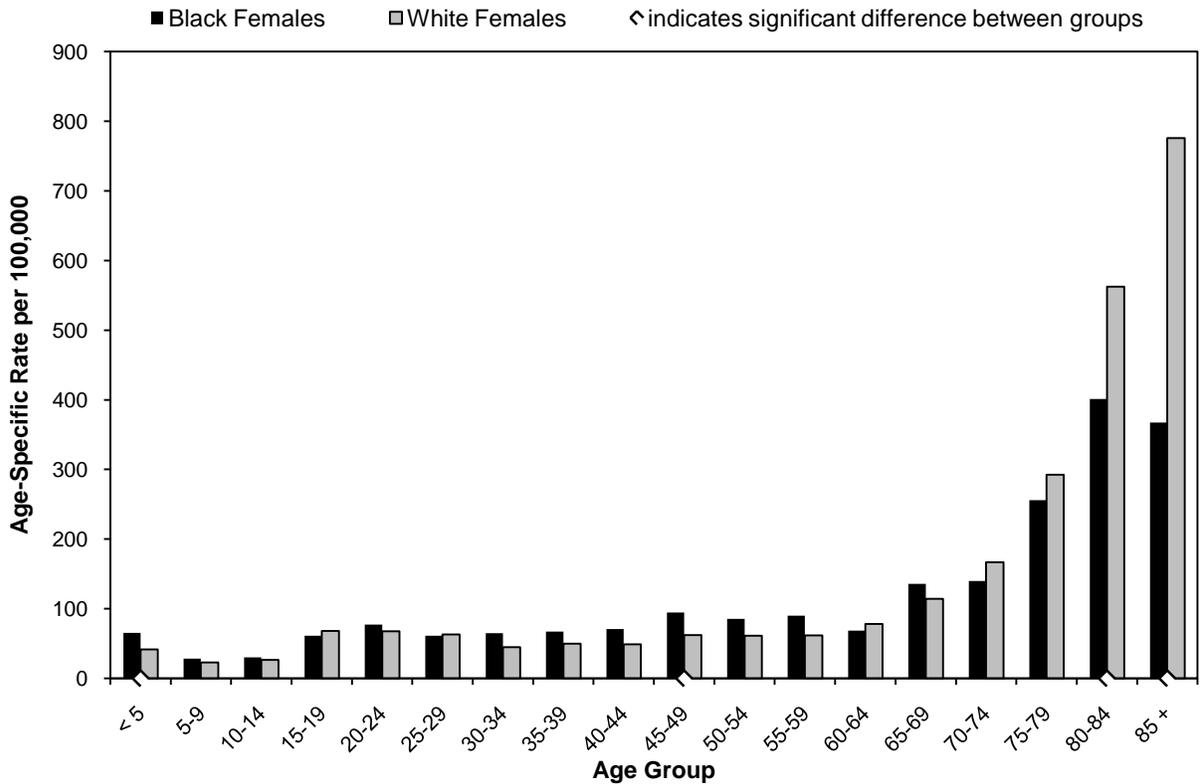
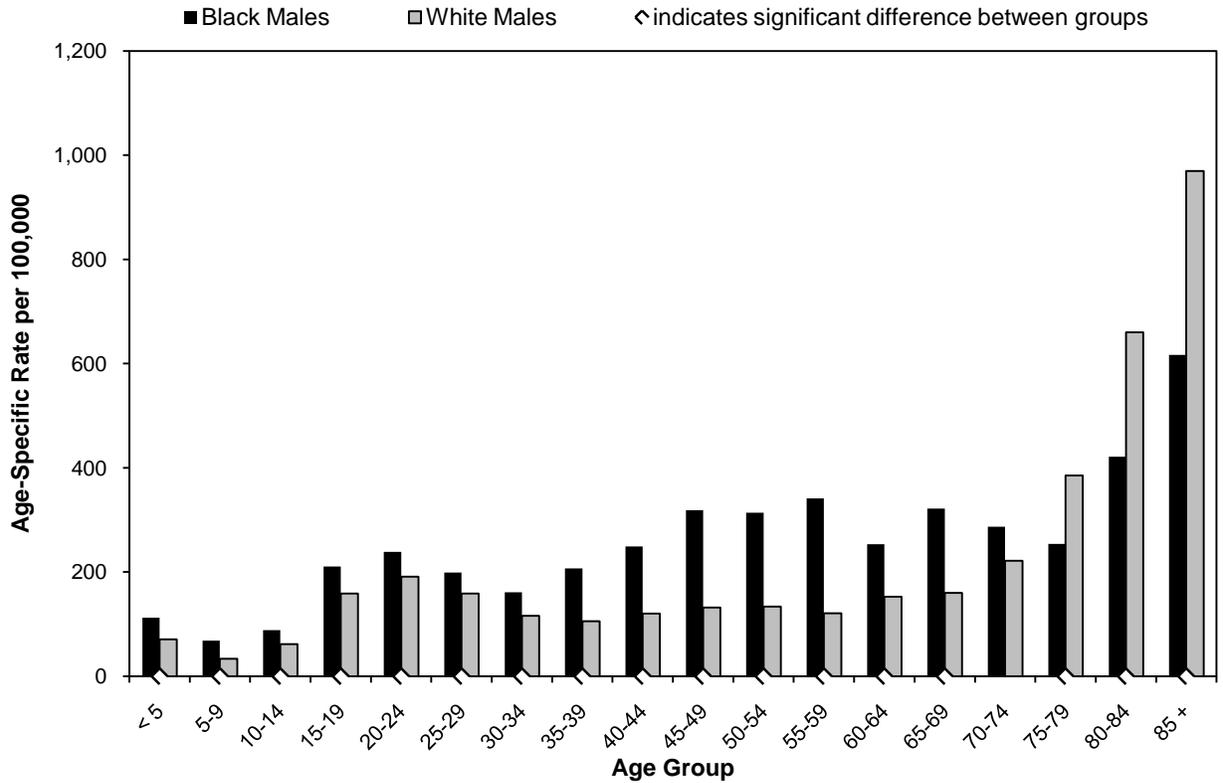
# INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

## AGE-SPECIFIC HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS PENNSYLVANIA RESIDENTS, 2008



# INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

## AGE-SPECIFIC HOSPITALIZATION RATES BY SEX AND RACE PENNSYLVANIA RESIDENTS, 2008



# INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

## NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2008

District/County	No.	Rate	CI (95%)	District/County	No.	Rate	CI (95%)
<b>Northeast</b>	2,567	151.8	145.9-157.7 +	<b>Southeast</b>	6,977	133.3	130.2-136.4
Carbon	138	197.2	164.3-230.1 +	Berks	527	122.1	111.6-132.5
Lackawanna	325	134.2	119.6-148.8	Bucks	652	102.7	94.8-110.6 -
Lehigh	513	143.9	131.4-156.3	Chester	456	94.2	85.5-102.8 -
Luzerne	514	136.1	124.3-147.8	Delaware	990	165.1	154.9-175.4 +
Monroe	269	165.8	146.0-185.6 +	Lancaster	704	133.2	123.4-143.1
Northampton	598	193.3	177.8-208.8 +	Montgomery	879	102.8	96.0-109.6 -
Pike	48	87.6	62.8-112.4 -	Philadelphia	2,507	167.6	161.1-174.2 +
Susquehanna	48	111.5	80.0-143.1	Schuylkill	262	154.8	136.0-173.5 +
Wayne	70	129.3	99.0-159.6				
Wyoming	44	159.4	112.3-206.5				
<b>North Central</b>	666	92.2	85.2-99.2 -	<b>South Central</b>	1,755	99.9	95.3-104.6 -
Bradford	57	82.6	61.1-104.0 -	Adams	66	61.8	46.9-76.7 -
Centre	122	95.6	78.6-112.5 -	Bedford	67	132.3	100.6-164.0
Clinton	42	96.0	67.0-125.1 -	Blair	221	158.1	137.3-179.0 +
Columbia	83	116.8	91.7-141.9	Cumberland	240	93.6	81.8-105.5 -
Lycoming	103	84.5	68.1-100.8 -	Dauphin	245	91.4	80.0-102.9 -
Montour	29	165.5	105.3-225.8	Franklin	140	87.4	72.9-101.9 -
Northumberland	116	113.2	92.6-133.8	Fulton	29	187.0	119.0-255.1
Potter	17	NA		Huntingdon	49	100.4	72.3-128.5 -
Snyder	26	66.2	40.8-91.7 -	Juniata	23	84.8	50.1-119.5 -
Sullivan	9	NA		Lebanon	140	99.3	82.8-115.7 -
Tioga	21	51.2	29.3-73.1 -	Mifflin	65	133.8	101.3-166.3
Union	41	92.8	64.4-121.2 -	Perry	45	100.0	70.8-129.2 -
				York	425	96.1	86.9-105.2 -
<b>Northwest</b>	1,418	137.3	130.1-144.4	<b>Southwest</b>	4,598	146.3	142.0-150.5 +
Cameron	13	NA		Allegheny	2,193	153.4	147.0-159.9 +
Clarion	67	141.0	107.2-174.8	Armstrong	112	149.1	121.5-176.7
Clearfield	141	159.6	133.2-185.9	Beaver	244	119.7	104.7-134.7
Crawford	149	155.9	130.9-180.9	Butler	282	140.5	124.1-156.9
Elk	53	155.6	113.7-197.5	Cambria	293	176.5	156.3-196.7 +
Erie	423	142.4	128.8-155.9	Fayette	180	107.7	92.0-123.4 -
Forest	10	NA		Greene	36	86.9	58.5-115.3 -
Jefferson	79	163.9	127.8-200.1	Indiana	142	153.0	127.9-178.2
Lawrence	145	132.3	110.8-153.8	Somerset	154	168.8	142.1-195.4 +
McKean	44	90.1	63.5-116.7 -	Washington	292	122.8	108.7-136.8
Mercer	166	116.2	98.5-133.8	Westmoreland	670	159.3	147.2-171.4 +
Venango	76	131.6	102.0-161.1				
Warren	52	110.5	80.4-140.5	<b>Pennsylvania</b>	<b>17,981</b>	<b>132.3</b>	<b>130.4-134.3</b>

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

### TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2008

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	10,720	7,242	<b>17,981</b>	2,364	73.6	2,961	124.9	2,708	104.5	2,752	116.5	7,195	376.6
<b>Northeast</b>	1,499	1,057	<b>2,567</b>	381	96.8	413	142.2	410	126.7	357	116.0	1,006	403.1
Carbon	82	56	138	21	151.5	22	176.1	20	152.1	18	136.4	57	525.1
Lackawanna	174	151	325	41	81.2	44	110.5	44	106.5	36	89.9	160	424.6
Lehigh	322	190	513	81	90.4	103	160.1	90	129.2	69	107.1	170	327.0
Luzerne	263	242	514	54	75.5	65	112.1	57	88.3	79	129.4	259	455.4
Monroe	174	94	269	56	121.7	39	129.1	56	152.2	41	127.2	77	389.0
Northampton	362	236	598	98	123.5	96	171.9	99	162.9	87	155.9	218	506.8
Pike	28	20	48	7	NA	13	134.8	15	113.0	5	NA	8	NA
Susquehanna	25	23	48	6	NA	10	146.7	8	NA	6	NA	18	267.8
Wayne	42	28	70	11	98.0	15	173.7	10	97.0	11	89.3	23	241.7
Wyoming	27	17	44	6	NA	6	NA	11	194.6	5	NA	16	385.9
<b>Southeast</b>	4,350	2,627	<b>6,977</b>	970	72.1	1,218	124.6	1,144	109.5	1,148	128.8	2,497	364.2
Berks	326	201	527	66	58.3	74	99.0	84	98.8	81	110.8	222	386.2
Bucks	371	281	652	88	54.9	97	93.4	100	69.1	98	77.6	269	311.2
Chester	281	175	456	79	57.2	82	91.2	68	61.5	58	63.3	169	276.5
Delaware	606	384	990	127	84.9	164	153.1	165	142.8	182	176.5	352	449.4
Lancaster	436	268	704	126	88.1	147	152.9	86	85.6	87	97.8	258	349.4
Montgomery	522	357	879	91	45.4	113	80.3	114	65.5	135	91.7	426	367.8
Philadelphia	1,649	858	2,507	358	87.6	507	150.2	486	172.3	472	202.6	684	367.8
Schuylkill	159	103	262	35	108.4	34	124.7	41	125.2	35	123.9	117	438.3

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	10,720	7,242	17,981	2,364	73.6	2,961	124.9	2,708	104.5	2,752	116.5	7,195	376.6
<b>North Central</b>	416	242	<b>666</b>	110	63.7	111	76.6	112	85.9	78	63.0	254	237.4
Bradford	34	23	57	6	NA	8	NA	7	NA	10	82.3	26	246.6
Centre	80	42	122	20	51.7	28	63.8	18	73.9	10	46.7	46	278.7
Clinton	26	14	42	7	NA	5	NA	4	NA	4	NA	22	350.0
Columbia	55	27	83	9	NA	17	120.2	15	129.8	12	102.6	30	282.9
Lycoming	70	32	103	24	84.2	11	48.9	21	89.0	12	52.8	35	181.0
Montour	15	13	29	4	NA	6	NA	6	NA	5	NA	8	NA
Northumberland	63	50	116	16	75.5	18	119.8	20	104.4	11	59.1	50	292.3
Potter	15	2	17	4	NA	7	NA	2	NA	0	NA	4	NA
Snyder	17	9	26	4	NA	1	NA	5	NA	3	NA	13	243.9
Sullivan	4	5	9	1	NA	1	NA	1	NA	2	NA	4	NA
Tioga	13	8	21	6	NA	2	NA	4	NA	4	NA	5	NA
Union	24	17	41	9	NA	7	NA	9	NA	5	NA	11	174.9
<b>South Central</b>	1,071	684	<b>1,755</b>	285	67.9	259	85.3	235	68.0	267	84.3	709	285.7
Adams	40	26	66	15	55.5	6	NA	6	NA	6	NA	33	226.2
Bedford	42	25	67	16	131.3	9	NA	15	143.3	8	NA	19	215.7
Blair	130	91	221	22	71.0	37	163.9	38	151.9	36	144.3	88	406.5
Cumberland	141	99	240	38	65.3	30	64.0	19	41.1	43	100.9	110	310.5
Dauphin	157	88	245	42	62.8	33	71.7	37	65.3	45	86.8	88	250.4
Franklin	85	55	140	24	63.5	16	61.0	16	56.5	16	59.3	68	281.5
Fulton	18	11	29	4	NA	6	NA	6	NA	8	NA	5	NA
Huntingdon	35	14	49	5	NA	15	161.9	9	NA	7	NA	13	178.6
Juniata	13	10	23	0	NA	2	NA	4	NA	5	NA	12	301.1
Lebanon	78	62	140	34	105.1	16	63.9	11	43.3	21	85.4	58	269.3
Mifflin	38	27	65	18	149.0	11	142.6	6	NA	7	NA	23	273.2
Perry	27	18	45	14	115.4	10	124.6	7	NA	7	NA	7	NA
York	267	158	425	53	48.1	68	87.2	61	64.0	58	70.5	185	314.6

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	10,720	7,242	<b>17,981</b>	2,364	73.6	2,961	124.9	2,708	104.5	2,752	116.5	7,195	376.6
<b>Northwest</b>	825	593	<b>1,418</b>	172	73.3	226	133.4	194	103.6	225	125.3	601	388.6
Cameron	9	4	13	1	NA	2	NA	0	NA	4	NA	6	NA
Clarion	40	27	67	6	NA	8	NA	6	NA	11	146.9	36	517.2
Clearfield	87	54	141	19	105.5	28	186.6	26	140.8	19	113.9	49	332.7
Crawford	84	65	149	13	55.1	22	141.2	29	168.5	21	119.3	64	443.9
Elk	32	21	53	16	208.4	8	NA	6	NA	8	NA	15	250.3
Erie	258	165	423	48	64.3	82	143.5	64	113.8	69	135.4	160	397.4
Forest	7	3	10	1	NA	0	NA	3	NA	2	NA	4	NA
Jefferson	53	26	79	11	100.9	15	193.1	14	154.3	12	132.7	27	324.6
Lawrence	84	61	145	14	61.8	20	132.5	10	55.4	25	140.4	76	456.0
McKean	19	25	44	4	NA	7	NA	8	NA	6	NA	19	255.7
Mercer	87	79	166	15	49.8	16	79.9	13	56.4	27	119.0	95	457.0
Venango	42	34	76	17	125.5	12	134.5	10	91.2	12	104.3	25	263.6
Warren	23	29	52	7	NA	6	NA	5	NA	9	NA	25	336.4
<b>Southwest</b>	2,559	2,039	<b>4,598</b>	446	68.9	734	151.5	613	109.7	677	124.5	2,128	457.1
Allegheny	1,180	1,013	2,193	188	64.0	335	148.3	289	115.2	336	140.1	1,045	510.5
Armstrong	67	45	112	11	65.0	20	189.5	17	119.4	12	84.7	52	402.7
Beaver	138	106	244	24	59.7	39	135.6	32	89.5	40	110.8	109	344.1
Butler	158	124	282	28	57.5	48	148.8	33	83.1	34	95.8	139	519.2
Cambria	167	126	293	34	102.7	62	242.6	38	129.5	37	125.9	122	453.2
Fayette	112	68	180	17	50.3	32	132.4	17	56.4	30	98.5	84	331.2
Greene	21	15	36	4	NA	11	141.4	6	NA	4	NA	11	183.2
Indiana	94	48	142	14	61.3	32	175.2	33	208.1	19	116.0	44	311.2
Somerset	89	65	154	21	125.4	22	157.4	21	126.1	17	110.3	73	497.7
Washington	174	118	292	29	58.2	34	91.0	47	112.6	43	102.8	139	389.9
Westmoreland	359	311	670	76	92.3	99	165.1	80	105.1	105	137.5	310	464.3

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: TRAUMATIC BRAIN INJURY

**NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI),  
BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2008**

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	288	182.4	161.3-203.5 +	Allegheny	1,723	137.0	130.5-143.4 +	Berks	27	54.5	33.9-75.0 -
Chester	24	74.8	44.9-104.8 -	Chester	411	94.4	85.2-103.5 -	Lancaster	5	NA	
Dauphin	39	92.8	63.6-121.9 -	Dauphin	183	83.6	71.5-95.7 -	Lehigh	54	102.8	75.4-130.2
Delaware	173	169.3	144.1-194.5	Delaware	762	157.7	146.5-168.9 +	Philadelphia	265	193.3	170.1-216.6 +
Montgomery	59	91.6	68.2-115.0 -	Montgomery	687	90.7	83.9-97.5 -				
Philadelphia	1,074	165.2	155.4-175.1	Philadelphia	1,020	131.1	123.1-139.2 +				
Pennsylvania	1,939	150.3	143.6-157.0	Pennsylvania	14,161	117.5	115.6-119.5	Pennsylvania	616	132.8	122.3-143.2

**NUMBER FOR SELECT AGE GROUPS AND AGE-SPECIFIC HOSPITALIZATION RATES  
BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2008**

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	13.5%	190	98	<b>288</b>	13.1%	47	85.5	69	193.2	62	202.8	52	211.2	58	318.9
	White	82.8%	875	848	<b>1,723</b>	78.6%	124	55.6	226	127.2	194	91.9	249	118.3	930	506.1
Chester	Black	6.2%	18	6	<b>24</b>	5.3%	6	NA	6	NA	5	NA	0	NA	7	NA
	White	89.5%	245	166	<b>411</b>	90.1%	65	53.7	71	90.5	59	59.6	58	68.4	158	279.0
Dauphin	Black	17.9%	30	9	<b>39</b>	15.9%	8	NA	9	NA	9	NA	5	NA	8	NA
	White	77.2%	114	69	<b>183</b>	74.7%	28	60.9	19	55.7	25	56.4	36	83.5	75	245.2
Delaware	Black	18.8%	121	52	<b>173</b>	17.5%	37	108.2	47	179.3	45	205.8	22	158.1	22	278.0
	White	75.4%	447	315	<b>762</b>	77.0%	79	75.6	107	144.4	106	123.2	147	173.5	323	472.8
Montgomery	Black	8.9%	39	20	<b>59</b>	6.7%	9	NA	14	88.5	14	85.4	5	NA	17	268.5
	White	84.0%	406	281	<b>687</b>	78.2%	63	38.7	77	68.1	79	55.1	109	84.8	359	339.8
Philadelphia	Black	45.6%	744	330	<b>1,074</b>	42.8%	196	92.0	217	147.7	241	188.5	227	223.0	193	273.8
	White	46.9%	607	413	<b>1,020</b>	40.7%	75	46.5	177	111.6	166	124.2	178	152.3	424	392.2
Pennsylvania	Black	10.7%	1,341	598	<b>1,939</b>	10.8%	372	85.6	425	136.0	432	161.9	355	181.6	355	278.1
	White	85.7%	8,151	5,992	<b>14,161</b>	78.8%	1,665	63.5	2,130	109.2	1,939	86.9	2,105	99.8	6,321	360.6

# Appendices

## LEADING CAUSES OF INJURY DEATH

For 2004 to 2008, the leading causes of injury death among Pennsylvania residents were motor vehicle traffic (MVT) accidents, unintentional poisoning, unintentional falls, suicide by firearm and homicide by firearm. These five causes accounted for 70 percent of injury deaths.

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### Overview

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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

- ***MVT accidents lead among whites less than age 20.***
- ***Unintentional poisoning leads among whites ages 20 to 49, blacks ages 35 to 64 and Hispanics.***
- ***Homicide by firearm leads among blacks under age 35.***

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### Youth Injury Deaths

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- For 2004 to 2008, 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 fourth and sixth, respectively, in causes of injury death among youths less than age 20.

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### Violent Deaths

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- For 2004 to 2008, 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.

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### Fatal Traumatic Brain Injuries

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- For 2004 to 2008, 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: 2004-2008

### 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	MVT (Unint.)	MVT (Unint.)	Falls (Unint.)	MVT (Unint.)	Poisoning (Unint.)	Poisoning (Unint.)	Poisoning (Unint.)	Falls (Unint.)
	<b>7,638</b>	5,354	2,594	1,086	2,257	3,197	1,339	4,349
2	Poisoning (Unint.)	Poisoning (Unint.)	MVT (Unint.)	Firearm (Asslt.)	MVT (Unint.)	MVT (Unint.)	MVT (Unint.)	MVT (Unint.)
	<b>7,297</b>	5,107	2,284	487	2,166	1,610	1,203	1,571
3	Falls (Unint.)	Firearm (Self-Inf.)	Poisoning (Unint.)	Poisoning (Unint.)	Firearm (Asslt.)	Firearm (Self-Inf.)	Firearm (Self-Inf.)	Suffoc. (Unint.)
	<b>5,313</b>	3,343	2,190	227	1,443	1,088	921	1,129
4	Firearm (Self-Inf.)	Falls (Unint.)	Suffoc. (Unint.)	Fire/Flame (Unint.)	Firearm (Self-Inf.)	Hanging (Self-Inf.)	Falls (Unint.)	Firearm (Self-Inf.)
	<b>3,683</b>	2,719	748	160	714	585	541	819
5	Firearm (Asslt.)	Firearm (Asslt.)	Poisoning (Self-Inf.)	Hanging (Self-Inf.)	Hanging (Self-Inf.)	Firearm (Asslt.)	Poisoning (Self-Inf.)	Fire/Flame (Unint.)
	<b>2,687</b>	2,352	538	153	530	532	368	302
6	Hanging (Self-Inf.)	Hanging (Self-Inf.)	Fire/Flame (Unint.)	Drowning (Unint.)	Poisoning (Self-Inf.)	Poisoning (Self-Inf.)	Hanging (Self-Inf.)	Poisoning (Unint.)
	<b>1,713</b>	1,423	359	146	213	477	310	276
7	Suffoc. (Unint.)	Suffoc. (Unint.)	Firearm (Self-Inf.)	Suffoc. (Unint.)	Cut/Pierce (Asslt.)	Falls (Unint.)	Firearm (Asslt.)	Hanging (Self-Inf.)
	<b>1,629</b>	881	340	141	104	285	171	134
8	Poisoning (Self-Inf.)	Poisoning (Self-Inf.)	Firearm (Asslt.)	Firearm (Self-Inf.)	Falls (Unint.)	Poisoning (Undet.)	Suffoc. (Unint.)	Poisoning (Self-Inf.)
	<b>1,202</b>	664	335	140	97	197	170	123
9	Fire/Flame (Unint.)	Fire/Flame (Unint.)	Hanging (Self-Inf.)	Falls (Unint.)	Poisoning (Undet.)	Fire/Flame (Unint.)	Fire/Flame (Unint.)	Drowning (Unint.)
	<b>848</b>	489	290	39	95	142	157	76
10	Drowning (Unint.)	Drowning (Unint.)	Poisoning (Undet.)	Cut/Pierce (Asslt.)	Fire/Flame (Unint.)	Suffoc. (Unint.)	Poisoning (Undet.)	Firearm (Asslt.)
	<b>474</b>	376	178	38	87	131	100	52
<b>TOTAL</b>	<b>38,213</b>	<b>26,296</b>	<b>11,917</b>	<b>3,079</b>	<b>8,485</b>	<b>9,370</b>	<b>6,219</b>	<b>11,044</b>

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: 2004-2008

### 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.)
	720	366	1,721	536	2,139	1,058	928	411	2,014	2,335
2	Firearm (Asslt.)	Fire/Flame (Unint.)	MVT (Unint.)							
	438	68	1,701	465	1,180	430	875	328	877	694
3	Poisoning (Unint.)	Poisoning (Unint.)	Firearm (Asslt.)	Firearm (Asslt.)	Firearm (Self-Inf.)	Poisoning (Self-Inf.)	Firearm (Self-Inf.)	Poisoning (Self-Inf.)	Firearm (Self-Inf.)	Suffoc. (Unint.)
	177	50	1,328	115	971	220	825	173	777	591
4	Firearm (Self-Inf.)	Firearm (Asslt.)	Firearm (Self-Inf.)	Hanging (Self-Inf.)	Hanging (Self-Inf.)	Firearm (Self-Inf.)	Falls (Unint.)	Falls (Unint.)	Suffoc. (Unint.)	Fire/Flame (Unint.)
	126	49	643	91	507	117	381	160	538	148
5	Drowning (Unint.)	Hanging (Self-Inf.)	Hanging (Self-Inf.)	Poisoning (Self-Inf.)	Firearm (Asslt.)	Firearm (Asslt.)	Hanging (Self-Inf.)	Firearm (Self-Inf.)	Fire/Flame (Unint.)	Poisoning (Unint.)
	107	47	439	77	428	104	268	96	154	135
6	Hanging (Self-Inf.)	Suffoc. (Unint.)	Poisoning (Self-Inf.)	Firearm (Self-Inf.)	Poisoning (Self-Inf.)	Hanging (Self-Inf.)	Poisoning (Self-Inf.)	Suffoc. (Unint.)	Poisoning (Unint.)	Poisoning (Self-Inf.)
	106	45	136	71	257	78	195	55	141	58
7	Suffoc. (Unint.)	Drowning (Unint.)	Drowning (Unint.)	Fire/Flame (Unint.)	Falls (Unint.)	Poisoning (Undet.)	Firearm (Asslt.)	Fire/Flame (Unint.)	Hanging (Self-Inf.)	Firearm (Self-Inf.)
	96	39	75	40	225	76	129	53	102	42
8	Fire/Flame (Unint.)	Falls (Unint.)	Falls (Unint.)	Poisoning (Undet.)	Poisoning (Undet.)	Falls (Unint.)	Suffoc. (Unint.)	Poisoning (Undet.)	Poisoning (Self-Inf.)	Hanging (Self-Inf.)
	92	16	74	38	121	60	115	53	65	32
9	Transport (Unint.)	Firearm (Self-Inf.)	Cut/Pierce (Asslt.)	Cut/Pierce (Asslt.)	Fire/Flame (Unint.)	Fire/Flame (Unint.)	Fire/Flame (Unint.)	Firearm (Asslt.)	Drowning (Unint.)	Firearm (Asslt.)
	29	14	73	31	92	50	104	42	52	25
10	Firearm (Unint.)	Cut/Pierce (Asslt.)	Poisoning (Undet.)	Falls (Unint.)	Suffoc. (Unint.)	Suffoc. (Unint.)	Drowning (Unint.)	Hanging (Self-Inf.)	Struck By (Unint.)	Drowning (Unint.)
	28	11	57	23	91	40	60	42	37	24
<b>TOTAL</b>	<b>2,224</b>	<b>855</b>	<b>6,826</b>	<b>1,659</b>	<b>6,874</b>	<b>2,496</b>	<b>4,586</b>	<b>1,633</b>	<b>5,771</b>	<b>5,273</b>

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: 2004-2008

### 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	MVT (Unint.)	MVT (Unint.)	Firearm (Asslt.)	Poisoning (Unint.)	MVT (Unint.)	Firearm (Asslt.)	Falls (Unint.)	Poisoning (Unint.)
	<b>7,638</b>	6,955	1,917	268	4,862	1,792	2,487	292
2	Poisoning (Unint.)	Poisoning (Unint.)	Poisoning (Unint.)	MVT (Unint.)	Poisoning (Unint.)	Poisoning (Unint.)	MVT (Unint.)	MVT (Unint.)
	<b>7,297</b>	6,262	998	250	4,375	706	2,093	147
3	Falls (Unint.)	Falls (Unint.)	MVT (Unint.)	Firearm (Asslt.)	Firearm (Self-Inf.)	MVT (Unint.)	Poisoning (Unint.)	Firearm (Asslt.)
	<b>5,313</b>	5,033	561	224	3,158	414	1,887	125
4	Firearm (Self-Inf.)	Firearm (Self-Inf.)	Falls (Unint.)	Hanging (Self-Inf.)	Falls (Unint.)	Firearm (Self-Inf.)	Suffoc. (Unint.)	Falls (Unint.)
	<b>3,683</b>	3,483	251	72	2,546	170	651	101
5	Firearm (Asslt.)	Hanging (Self-Inf.)	Suffoc. (Unint.)	Firearm (Self-Inf.)	Hanging (Self-Inf.)	Falls (Unint.)	Poisoning (Self-Inf.)	Suffoc. (Unint.)
	<b>2,687</b>	1,536	213	61	1,281	150	516	89
6	Hanging (Self-Inf.)	Suffoc. (Unint.)	Firearm (Self-Inf.)	Falls (Unint.)	Suffoc. (Unint.)	Suffoc. (Unint.)	Firearm (Self-Inf.)	Fire/Flame (Unint.)
	<b>1,713</b>	1,401	183	55	750	124	325	73
7	Suffoc. (Unint.)	Poisoning (Self-Inf.)	Fire/Flame (Unint.)	Drowning (Unint.)	Poisoning (Self-Inf.)	Cut/Pierce (Asslt.)	Fire/Flame (Unint.)	Cut/Pierce (Asslt.)
	<b>1,629</b>	1,147	169	35	631	120	277	35
8	Poisoning (Self-Inf.)	Firearm (Asslt.)	Cut/Pierce (Asslt.)	Cut/Pierce (Asslt.)	Firearm (Asslt.)	Hanging (Self-Inf.)	Hanging (Self-Inf.)	Hanging (Self-Inf.)
	<b>1,202</b>	722	155	30	518	116	255	26
9	Fire/Flame (Unint.)	Fire/Flame (Unint.)	Hanging (Self-Inf.)	Fire/Flame (Unint.)	Fire/Flame (Unint.)	Fire/Flame (Unint.)	Firearm (Asslt.)	Poisoning (Self-Inf.)
	<b>848</b>	665	142	29	388	96	204	18
10	Drowning (Unint.)	Drowning (Unint.)	Drowning (Unint.)	Poisoning (Undet.)	Drowning (Unint.)	Drowning (Unint.)	Poisoning (Undet.)	Poisoning (Undet.)
	<b>474</b>	409	61	28	321	52	162	14
<b>TOTAL</b>	<b>38,213</b>	<b>32,416</b>	<b>5,379</b>	<b>1,229</b>	<b>21,789</b>	<b>4,217</b>	<b>10,627</b>	<b>1,162</b>

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: 2004-2008

### 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
<b>1</b>	MVT (Unint.) 960	Firearm (Asslt.) 395	Poisoning (Unint.) 2,082	Firearm (Asslt.) 1,116	Poisoning (Unint.) 2,721	Poisoning (Unint.) 465	MVT (Unint.) 1,111	Poisoning (Unint.) 329	Falls (Unint.) 4,190	Falls (Unint.) 143
<b>2</b>	Poisoning (Unint.) 215	MVT (Unint.) 106	MVT (Unint.) 1,936	MVT (Unint.) 190	MVT (Unint.) 1,464	Firearm (Asslt.) 323	Poisoning (Unint.) 1,003	MVT (Unint.) 79	MVT (Unint.) 1,483	Suffoc. (Unint.) 136
<b>3</b>	Hanging (Self-Inf.) 130	Fire/Flame (Unint.) 50	Firearm (Self-Inf.) 630	Poisoning (Unint.) 161	Firearm (Self-Inf.) 1,033	MVT (Unint.) 123	Firearm (Self-Inf.) 898	Firearm (Asslt.) 70	Suffoc. (Unint.) 984	MVT (Unint.) 63
<b>4</b>	Firearm (Self-Inf.) 127	Drowning (Unint.) 31	Hanging (Self-Inf.) 466	Firearm (Self-Inf.) 72	Hanging (Self-Inf.) 535	Cut/Pierce (Asslt.) 52	Falls (Unint.) 470	Falls (Unint.) 66	Firearm (Self-Inf.) 794	Fire/Flame (Unint.) 52
<b>5</b>	Drowning (Unint.) 113	Suffoc. (Unint.) 31	Firearm (Asslt.) 302	Hanging (Self-Inf.) 50	Poisoning (Self-Inf.) 451	Firearm (Self-Inf.) 52	Poisoning (Self-Inf.) 356	Fire/Flame (Unint.) 32	Fire/Flame (Unint.) 248	Poisoning (Unint.) 34
<b>6</b>	Suffoc. (Unint.) 107	Hanging (Self-Inf.) 22	Poisoning (Self-Inf.) 198	Cut/Pierce (Asslt.) 48	Falls (Unint.) 252	Hanging (Self-Inf.) 43	Hanging (Self-Inf.) 280	Suffoc. (Unint.) 29	Poisoning (Unint.) 240	Firearm (Self-Inf.) 25
<b>7</b>	Fire/Flame (Unint.) 105	Cut/Pierce (Asslt.) 21	Falls (Unint.) 86	Fire/Flame (Unint.) 15	Firearm (Asslt.) 194	Falls (Unint.) 27	Suffoc. (Unint.) 139	Cut/Pierce (Asslt.) 24	Hanging (Self-Inf.) 124	Firearm (Asslt.) 13
<b>8</b>	Firearm (Asslt.) 89	Firearm (Self-Inf.) 12	Poisoning (Undet.) 85	Poisoning (Self-Inf.) 12	Poisoning (Undet.) 186	Poisoning (Self-Inf.) 21	Fire/Flame (Unint.) 125	Hanging (Self-Inf.) 23	Poisoning (Self-Inf.) 122	Cut/Pierce (Asslt.) 10
<b>9</b>	Falls (Unint.) 33	Poisoning (Unint.) 9	Drowning (Unint.) 72	Falls (Unint.) 9	Fire/Flame (Unint.) 119	Fire/Flame (Unint.) 20	Firearm (Asslt.) 97	Firearm (Self-Inf.) 22	Drowning (Unint.) 71	
<b>10</b>	Transport (Unint.) 31	Falls (Unint.) 6	Fire/Flame (Unint.) 68	Firearm (Unint.) 9	Suffoc. (Unint.) 117	Suffoc. (Unint.) 14	Poisoning (Undet.) 91	Poisoning (Self-Inf.) 12	Struck By (Unint.) 50	
<b>TOTAL</b>	<b>2,222</b>	<b>802</b>	<b>6,528</b>	<b>1,812</b>	<b>7,948</b>	<b>1,328</b>	<b>5,351</b>	<b>818</b>	<b>10,359</b>	<b>615</b>

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: 2004-2008

### PENNSYLVANIA RESIDENTS BY INJURY INTENT, BRAIN INJURY, AND GENDER

RANK	INTENT		UNINT.		VIOLENCE		TBI		
	Unint.	Violence	Males	Females	Males	Females	Total	Males	Females
1	MVT (Unint.)	Firearm (Self-Inf.)	MVT (Unint.)	Falls (Unint.)	Firearm (Self-Inf.)	Poisoning (Self-Inf.)	Falls (Unint.)	Firearm (Self-Inf.)	Falls (Unint.)
	7,638	3,683	5,354	2,594	3,343	538	3,127	2,747	1,399
2	Poisoning (Unint.)	Firearm (Asslt.)	Poisoning (Unint.)	MVT (Unint.)	Firearm (Asslt.)	Firearm (Self-Inf.)	Firearm (Self-Inf.)	MVT (Unint.)	MVT (Unint.)
	7,297	2,687	5,107	2,284	2,352	340	3,007	1,970	734
3	Falls (Unint.)	Hanging (Self-Inf.)	Falls (Unint.)	Poisoning (Unint.)	Hanging (Self-Inf.)	Firearm (Asslt.)	MVT (Unint.)	Falls (Unint.)	Firearm (Self-Inf.)
	5,313	1,713	2,719	2,190	1,423	335	2,704	1,728	260
4	Suffoc. (Unint.)	Poisoning (Self-Inf.)	Suffoc. (Unint.)	Suffoc. (Unint.)	Poisoning (Self-Inf.)	Hanging (Self-Inf.)	Firearm (Asslt.)	Firearm (Asslt.)	Firearm (Asslt.)
	1,629	1,202	881	748	664	290	829	647	182
5	Fire/Flame (Unint.)	Cut/Pierce (Asslt.)	Fire/Flame (Unint.)	Fire/Flame (Unint.)	Cut/Pierce (Asslt.)	Cut/Pierce (Asslt.)	Struck By (Unint.)	Struck By (Unint.)	Poisoning (Unint.)
	848	333	489	359	233	100	98	87	14
6	Drowning (Unint.)	Cut/Pierce (Self-Inf.)	Drowning (Unint.)	Drowning (Unint.)	Cut/Pierce (Self-Inf.)	Cut/Pierce (Self-Inf.)	Transport (Unint.)	Firearm (Unint.)	Transport (Unint.)
	474	139	376	98	115	24	84	74	13
7	Transport (Unint.)	Struck By (Asslt.)	Transport (Unint.)	Transport (Unint.)	Struck By (Asslt.)	Struck By (Asslt.)	Firearm (Unint.)	Transport (Unint.)	Struck By (Unint.)
	232	32	188	44	19	13	83	71	11
8	Struck By (Unint.)		Struck By (Unint.)	Struck By (Unint.)			Poisoning (Unint.)	Poisoning (Unint.)	Struck By (Asslt.)
	184		163	21			46	32	10
9	Firearm (Unint.)		Firearm (Unint.)	Firearm (Unint.)			Struck By (Asslt.)	Cut/Pierce (Asslt.)	Firearm (Unint.)
	140		125	15			24	15	9
10	Cut/Pierce (Unint.)		Cut/Pierce (Unint.)	Burn/Scald (Unint.)			Cut/Pierce (Asslt.)	Struck By (Asslt.)	Cut/Pierce (Asslt.)
	46		42	10			23	14	8
<b>TOTAL</b>	<b>26,675</b>	<b>10,719</b>	<b>17,029</b>	<b>9,646</b>	<b>8,734</b>	<b>1,985</b>	<b>11,058</b>	<b>8,107</b>	<b>2,951</b>

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 2008, 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 62 percent of injury hospitalizations.

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### Overview

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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 35 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.*

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### Youth Injury Hospitalizations

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- In 2008, 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.

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### Violence-Related Hospitalizations

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- For 2008, 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 64 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).

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### Traumatic Brain Injury Hospitalizations

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- For 2008, the leading causes of traumatic brain injury hospitalization were unintentional falls and MVT occupant injury, accounting for nearly 70 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: 2008

### 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.) <b>68,670</b>	Falls (Unint.) 25,417	Falls (Unint.) 43,242	Falls (Unint.) 2,252	Poisoning (Self-Inf.) 2,641	Falls (Unint.) 4,774	Falls (Unint.) 9,917	Falls (Unint.) 49,558
2	MVT Occ. (Unint.) <b>9,050</b>	MVT Occ. (Unint.) 5,024	Poisoning (Self-Inf.) 4,848	MVT Occ. (Unint.) 1,176	MVT Occ. (Unint.) 2,577	Poisoning (Self-Inf.) 2,889	Poisoning (Unint.) 1,727	MVT Occ. (Unint.) 1,871
3	Poisoning (Self-Inf.) <b>8,186</b>	Poisoning (Unint.) 3,595	MVT Occ. (Unint.) 4,013	Poisoning (Self-Inf.) 956	Falls (Unint.) 2,169	Poisoning (Unint.) 1,861	MVT Occ. (Unint.) 1,583	Poisoning (Unint.) 1,518
4	Poisoning (Unint.) <b>6,894</b>	Poisoning (Self-Inf.) 3,337	Poisoning (Unint.) 3,298	Struck By (Unint.) 747	Poisoning (Unint.) 1,153	MVT Occ. (Unint.) 1,842	Poisoning (Self-Inf.) 1,386	Suffoc. (Unint.) 1,034
5	Struck By (Unint.) <b>3,208</b>	Struck By (Unint.) 2,152	Ovrexert. (Unint.) 1,350	Poisoning (Unint.) 635	Struck By (Asslt.) 778	Poisoning (Undet.) 815	Struck By (Unint.) 526	Ovrexert. (Unint.) 1,013
6	Ovrexert. (Unint.) <b>2,472</b>	Struck By (Asslt.) 1,708	Bite/Sting (Unint.) 1,058	Pedest. (Unint.) 486	MVT Moto. (Unint.) 581	Struck By (Asslt.) 660	Ovrexert. (Unint.) 505	Struck By (Unint.) 913
7	Poisoning (Undet.) <b>2,128</b>	MVT Moto. (Unint.) 1,667	Struck By (Unint.) 1,055	Transport (Unint.) 464	Firearm (Asslt.) 567	MVT Moto. (Unint.) 637	Poisoning (Undet.) 501	Bite/Sting (Unint.) 421
8	Struck By (Asslt.) <b>2,115</b>	Transport (Unint.) 1,381	Poisoning (Undet.) 894	Ped Cyc. (Unint.) 375	Cut/Pierce (Self-Inf.) 536	Struck By (Unint.) 539	Bite/Sting (Unint.) 485	Poisoning (Self-Inf.) 314
9	Transport (Unint.) <b>2,016</b>	Poisoning (Undet.) 1,233	Suffoc. (Unint.) 741	Burn/Scald (Unint.) 344	Poisoning (Undet.) 516	Ovrexert. (Unint.) 509	MVT Moto. (Unint.) 461	Transport (Unint.) 299
10	Bite/Sting (Unint.) <b>1,935</b>	Ovrexert. (Unint.) 1,122	Cut/Pierce (Self-Inf.) 653	Bite/Sting (Unint.) 319	Transport (Unint.) 515	Transport (Unint.) 442	Suffoc. (Unint.) 322	Ped Cyc. (Unint.) 263
<b>TOTAL</b>	<b>148,452</b>	<b>71,385</b>	<b>77,023</b>	<b>11,569</b>	<b>18,410</b>	<b>22,847</b>	<b>25,458</b>	<b>70,167</b>

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: 2008

### 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
<b>1</b>	Falls (Unint.) 1,456	Falls (Unint.) 796	MVT Occ. (Unint.) 1,573	Poisoning (Self-Inf.) 1,568	Falls (Unint.) 2,776	Falls (Unint.) 1,997	Falls (Unint.) 4,767	Falls (Unint.) 5,149	Falls (Unint.) 15,120	Falls (Unint.) 34,429
<b>2</b>	MVT Occ. (Unint.) 684	Poisoning (Self-Inf.) 634	Falls (Unint.) 1,298	MVT Occ. (Unint.) 1,001	Poisoning (Self-Inf.) 1,217	Poisoning (Self-Inf.) 1,671	Poisoning (Unint.) 954	Poisoning (Self-Inf.) 784	MVT Occ. (Unint.) 854	MVT Occ. (Unint.) 1,016
<b>3</b>	Struck By (Unint.) 590	MVT Occ. (Unint.) 490	Poisoning (Self-Inf.) 1,073	Falls (Unint.) 871	MVT Occ. (Unint.) 1,060	Poisoning (Unint.) 861	MVT Occ. (Unint.) 852	Poisoning (Unint.) 772	Poisoning (Unint.) 632	Poisoning (Unint.) 886
<b>4</b>	Pedest. (Unint.) 410	Poisoning (Unint.) 271	Poisoning (Unint.) 645	Poisoning (Unint.) 508	Poisoning (Unint.) 1,000	MVT Occ. (Unint.) 777	Poisoning (Self-Inf.) 602	MVT Occ. (Unint.) 729	Suffoc. (Unint.) 514	Ovrexert. (Unint.) 718
<b>5</b>	Poisoning (Unint.) 364	Struck By (Unint.) 157	Struck By (Asslt.) 617	Cut/Pierce (Self-Inf.) 270	MVT Moto. (Unint.) 551	Poisoning (Undet.) 342	MVT Moto. (Unint.) 395	Bite/Sting (Unint.) 269	Struck By (Unint.) 384	Struck By (Unint.) 529
<b>6</b>	Transport (Unint.) 348	Bite/Sting (Unint.) 147	Firearm (Asslt.) 532	Poisoning (Undet.) 211	Struck By (Asslt.) 532	Bite/Sting (Unint.) 226	Struck By (Unint.) 371	Ovrexert. (Unint.) 245	Ovrexert. (Unint.) 295	Suffoc. (Unint.) 520
<b>7</b>	Poisoning (Self-Inf.) 322	Ped Cyc. (Unint.) 144	MVT Moto. (Unint.) 528	Struck By (Asslt.) 161	Poisoning (Undet.) 473	Ovrexert. (Unint.) 208	Poisoning (Undet.) 309	Poisoning (Undet.) 192	Transport (Unint.) 166	Bite/Sting (Unint.) 281
<b>8</b>	Firearm (Asslt.) 248	Burn/Scald (Unint.) 138	Transport (Unint.) 394	Bite/Sting (Unint.) 135	Struck By (Unint.) 426	Cut/Pierce (Self-Inf.) 165	Struck By (Asslt.) 264	Struck By (Unint.) 155	Bite/Sting (Unint.) 140	Poisoning (Self-Inf.) 191
<b>9</b>	Struck By (Asslt.) 239	Cut/Pierce (Self-Inf.) 134	Struck By (Unint.) 381	Transport (Unint.) 121	Ovrexert. (Unint.) 301	Transport (Unint.) 146	Ovrexert. (Unint.) 260	Suffoc. (Unint.) 125	Cut/Pierce (Unint.) 139	Ped Cyc. (Unint.) 142
<b>10</b>	Ped Cyc. (Unint.) 231	Transport (Unint.) 115	Cut/Pierce (Unint.) 307	Ovrexert. (Unint.) 116	Transport (Unint.) 293	Struck By (Asslt.) 128	Cut/Pierce (Unint.) 241	Ped Cyc. (Unint.) 120	Poisoning (Self-Inf.) 123	Transport (Unint.) 133
<b>TOTAL</b>	<b>7,374</b>	<b>4,191</b>	<b>11,774</b>	<b>6,627</b>	<b>13,896</b>	<b>8,941</b>	<b>14,084</b>	<b>11,365</b>	<b>24,256</b>	<b>45,899</b>

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: 2008

### 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.) <b>68,670</b>	Falls (Unint.) 60,135	Falls (Unint.) 4,673	Falls (Unint.) 1,331	Falls (Unint.) 21,661	Falls (Unint.) 2,088	Falls (Unint.) 38,463	Falls (Unint.) 2,585
2	MVT Occ. (Unint.) <b>9,050</b>	MVT Occ. (Unint.) 7,218	Poisoning (Unint.) 1,633	Poisoning (Self-Inf.) 470	MVT Occ. (Unint.) 3,981	Poisoning (Unint.) 972	Poisoning (Self-Inf.) 3,856	Poisoning (Unint.) 661
3	Poisoning (Self-Inf.) <b>8,186</b>	Poisoning (Self-Inf.) 6,463	Poisoning (Self-Inf.) 1,025	MVT Occ. (Unint.) 342	Poisoning (Self-Inf.) 2,607	Firearm (Asslt.) 731	MVT Occ. (Unint.) 3,224	Poisoning (Self-Inf.) 563
4	Poisoning (Unint.) <b>6,894</b>	Poisoning (Unint.) 4,738	MVT Occ. (Unint.) 877	Poisoning (Unint.) 266	Poisoning (Unint.) 2,345	Struck By (Asslt.) 606	Poisoning (Unint.) 2,393	MVT Occ. (Unint.) 383
5	Struck By (Unint.) <b>3,208</b>	Struck By (Unint.) 2,581	Firearm (Asslt.) 775	Suffoc. (Unint.) 135	Struck By (Unint.) 1,695	MVT Occ. (Unint.) 494	Ovrexert. (Unint.) 1,181	Poisoning (Undet.) 195
6	Ovrexert. (Unint.) <b>2,472</b>	Ovrexert. (Unint.) 2,092	Struck By (Asslt.) 773	Struck By (Asslt.) 127	MVT Moto. (Unint.) 1,366	Poisoning (Self-Inf.) 462	Bite/Sting (Unint.) 904	Struck By (Asslt.) 167
7	Poisoning (Undet.) <b>2,128</b>	Transport (Unint.) 1,782	Poisoning (Undet.) 576	Struck By (Unint.) 119	Transport (Unint.) 1,217	Poisoning (Undet.) 381	Struck By (Unint.) 886	Ped Cyc. (Unint.) 155
8	Struck By (Asslt.) <b>2,115</b>	Bite/Sting (Unint.) 1,633	Ped Cyc. (Unint.) 384	Poisoning (Undet.) 109	Ovrexert. (Unint.) 911	Cut/Pierce (Asslt.) 260	Suffoc. (Unint.) 636	Struck By (Unint.) 118
9	Transport (Unint.) <b>2,016</b>	MVT Moto. (Unint.) 1,565	Struck By (Unint.) 373	Ped Cyc. (Unint.) 106	Struck By (Asslt.) 875	Struck By (Unint.) 254	Poisoning (Undet.) 626	Burn/Scald (Unint.) 103
10	Bite/Sting (Unint.) <b>1,935</b>	Suffoc. (Unint.) 1,359	Cut/Pierce (Asslt.) 313	Cut/Pierce (Asslt.) 95	Cut/Pierce (Unint.) 811	Ped Cyc. (Unint.) 229	Cut/Pierce (Self-Inf.) 569	Ovrexert. (Unint.) 101
<b>TOTAL</b>	<b>148,452</b>	<b>120,242</b>	<b>17,434</b>	<b>4,771</b>	<b>55,035</b>	<b>10,313</b>	<b>65,170</b>	<b>7,120</b>

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: 2008

## 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
<b>1</b>	Falls (Unint.) 1,547	Falls (Unint.) 398	Poisoning (Self-Inf.) 2,051	Firearm (Asslt.) 427	Falls (Unint.) 3,682	Falls (Unint.) 689	Falls (Unint.) 8,114	Falls (Unint.) 1,118	Falls (Unint.) 45,229	Falls (Unint.) 2,094
<b>2</b>	MVT Occ. (Unint.) 915	Firearm (Asslt.) 216	MVT Occ. (Unint.) 1,923	Falls (Unint.) 374	Poisoning (Self-Inf.) 2,284	Poisoning (Unint.) 623	MVT Occ. (Unint.) 1,279	Poisoning (Unint.) 531	MVT Occ. (Unint.) 1,665	Poisoning (Unint.) 184
<b>3</b>	Poisoning (Self-Inf.) 696	Ped Cyc. (Unint.) 135	Falls (Unint.) 1,563	MVT Occ. (Unint.) 337	MVT Occ. (Unint.) 1,435	Poisoning (Self-Inf.) 408	Poisoning (Self-Inf.) 1,146	Poisoning (Undet.) 199	Poisoning (Unint.) 1,259	MVT Occ. (Unint.) 87
<b>4</b>	Struck By (Unint.) 558	Poisoning (Unint.) 132	Poisoning (Unint.) 868	Poisoning (Self-Inf.) 326	Poisoning (Unint.) 1,107	Struck By (Asslt.) 269	Poisoning (Unint.) 1,106	Poisoning (Self-Inf.) 151	Ovrexert. (Unint.) 937	Suffoc. (Unint.) 55
<b>5</b>	Transport (Unint.) 412	MVT Occ. (Unint.) 127	Cut/Pierce (Self-Inf.) 451	Struck By (Asslt.) 253	MVT Moto. (Unint.) 537	Poisoning (Undet.) 267	Ovrexert. (Unint.) 437	MVT Occ. (Unint.) 145	Suffoc. (Unint.) 936	Ovrexert. (Unint.) 50
<b>6</b>	Poisoning (Unint.) 398	Struck By (Unint.) 126	Transport (Unint.) 447	Poisoning (Unint.) 163	Poisoning (Undet.) 469	MVT Occ. (Unint.) 181	Bite/Sting (Unint.) 430	Struck By (Asslt.) 115	Struck By (Unint.) 831	Struck By (Unint.) 44
<b>7</b>	Pedest. (Unint.) 340	Poisoning (Self-Inf.) 125	MVT Moto. (Unint.) 432	Cut/Pierce (Asslt.) 139	Struck By (Unint.) 420	Firearm (Asslt.) 101	Struck By (Unint.) 429	Ped Cyc. (Unint.) 76	Bite/Sting (Unint.) 396	Ped Cyc. (Unint.) 29
<b>8</b>	Bite/Sting (Unint.) 228	Struck By (Asslt.) 117	Struck By (Asslt.) 414	MVT Moto. (Unint.) 76	Ovrexert. (Unint.) 395	Cut/Pierce (Asslt.) 92	MVT Moto. (Unint.) 413	Struck By (Unint.) 65	Poisoning (Self-Inf.) 286	Poisoning (Undet.) 28
<b>9</b>	Cut/Pierce (Self-Inf.) 192	Burn/Scald (Unint.) 105	Poisoning (Undet.) 401	Struck By (Unint.) 69	Transport (Unint.) 391	Ped Cyc. (Unint.) 85	Poisoning (Undet.) 266	Suffoc. (Unint.) 59	Transport (Unint.) 274	Burn/Scald (Unint.) 27
<b>10</b>	Ped Cyc. (Unint.) 167	Pedest. (Unint.) 76	Struck By (Unint.) 343	Poisoning (Undet.) 67	Bite/Sting (Unint.) 356	Ovrexert. (Unint.) 73	Transport (Unint.) 258	Cut/Pierce (Unint.) 54	Ped Cyc. (Unint.) 209	Fire/Flame (Unint.) 27
<b>TOTAL</b>	<b>7,680</b>	<b>2,335</b>	<b>12,804</b>	<b>3,460</b>	<b>16,507</b>	<b>4,293</b>	<b>19,932</b>	<b>3,725</b>	<b>63,318</b>	<b>3,621</b>

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: 2008**  
**PENNSYLVANIA RESIDENTS BY INJURY INTENT, BRAIN INJURY, AND GENDER**

RANK	INTENT		UNINT.		VIOLENCE		Total	TBI	
	Unint.	Violence	Males	Females	Males	Females		Males	Females
<b>1</b>	Falls (Unint.) 68,670	Poisoning (Self-Inf.) 8,186	Falls (Unint.) 25,417	Falls (Unint.) 43,242	Poisoning (Self-Inf.) 3,337	Poisoning (Self-Inf.) 4,848	Falls (Unint.) 9,101	Falls (Unint.) 4,533	Falls (Unint.) 4,559
<b>2</b>	MVT Occ. (Unint.) 9,050	Struck By (Asslt.) 2,115	MVT Occ. (Unint.) 5,024	MVT Occ. (Unint.) 4,013	Struck By (Asslt.) 1,708	Cut/Pierce (Self-Inf.) 653	MVT Occ. (Unint.) 3,418	MVT Occ. (Unint.) 2,019	MVT Occ. (Unint.) 1,393
<b>3</b>	Poisoning (Unint.) 6,894	Cut/Pierce (Self-Inf.) 1,263	Poisoning (Unint.) 3,595	Poisoning (Unint.) 3,298	Firearm (Asslt.) 953	Struck By (Asslt.) 407	Struck By (Asslt.) 862	Struck By (Asslt.) 747	Ped Cyc. (Unint.) 203
<b>4</b>	Struck By (Unint.) 3,208	Firearm (Asslt.) 1,019	Struck By (Unint.) 2,152	Ovrexert. (Unint.) 1,350	Cut/Pierce (Self-Inf.) 609	Cut/Pierce (Asslt.) 101	MVT Moto. (Unint.) 637	MVT Moto. (Unint.) 564	Transport (Unint.) 165
<b>5</b>	Ovrexert. (Unint.) 2,472	Cut/Pierce (Asslt.) 699	MVT Moto. (Unint.) 1,667	Bite/Sting (Unint.) 1,058	Cut/Pierce (Asslt.) 597	Firearm (Asslt.) 66	Transport (Unint.) 578	Transport (Unint.) 413	Struck By (Unint.) 151
<b>6</b>	Transport (Unint.) 2,016	Hanging (Self-Inf.) 136	Transport (Unint.) 1,381	Struck By (Unint.) 1,055	Hanging (Self-Inf.) 99	Hanging (Self-Inf.) 37	Ped Cyc. (Unint.) 535	Struck By (Unint.) 378	Struck By (Asslt.) 115
<b>7</b>	Bite/Sting (Unint.) 1,935	Firearm (Self-Inf.) 101	Ovrexert. (Unint.) 1,122	Suffoc. (Unint.) 741	Firearm (Self-Inf.) 83	Firearm (Self-Inf.) 18	Struck By (Unint.) 529	Ped Cyc. (Unint.) 331	MVT Moto. (Unint.) 71
<b>8</b>	MVT Moto. (Unint.) 1,905		Cut/Pierce (Unint.) 1,107	Transport (Unint.) 630			Pedest. (Unint.) 397	Pedest. (Unint.) 330	Pedest. (Unint.) 67
<b>9</b>	Suffoc. (Unint.) 1,582		Pedest. (Unint.) 953	Ped Cyc. (Unint.) 580			Firearm (Asslt.) 90	Firearm (Asslt.) 78	Firearm (Asslt.) 12
<b>10</b>	Ped Cyc. (Unint.) 1,467		Ped Cyc. (Unint.) 886	Burn/Scald (Unint.) 460			Firearm (Self-Inf.) 51	Firearm (Self-Inf.) 42	Poisoning (Unint.) 10
<b>TOTAL</b>	<b>127,101</b>	<b>15,984</b>	<b>59,344</b>	<b>67,719</b>	<b>9,091</b>	<b>6,888</b>	<b>17,981</b>	<b>10,720</b>	<b>7,242</b>

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 2008, among Pennsylvania residents, there were 148,452 hospitalizations due to injury. Total treatment charges for these injuries exceeded \$7.17 billion.

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### Overview

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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 45 percent from 2004 to 2008.

### HIGHLIGHTS

- *Total treatment charges for unintentional falls exceeded **\$2.95 billion** in 2008.*
- *Median charges were highest for **assault by firearm**.*
- ***Insurance coverage** differed among MVT accidents, falls and firearm-related injuries.*

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### Total Injury Cost Burden

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- In 2008, unintentional falls hospitalizations accounted for \$2.95 billion in total charges, or 41.2 percent of the total charges for all injury hospitalizations.
- Unintentional MVT injury hospitalizations accounted for \$1.04 billion in total charges.
- Other large cost burdens included poisoning hospitalizations (with \$483 million in total charges) and assault injury hospitalizations (with \$441 million in total charges).

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### Highest Median Charges

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- Hospitalizations for assault by firearm showed the highest median treatment charges of any major injury. At \$73,754, the median charges for assault by firearm were over three times greater than the median charges for injury hospitalizations overall (\$24,373).
- 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.

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### Charges by Primary Payor

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- Medicare was primary payor on most unintentional falls hospitalizations. In 2008, 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 2008, Medicaid was billed over \$200 million to treat poisonings (42 percent of the total).
- Commercial providers were primary payor on most MVT hospitalizations. In 2008, these plans were billed \$795 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, 2008

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
<b>Fall</b>	68,815	\$2,970,933,996	\$25,371	70%	10%	18%	9,135	\$546,692,122	\$29,275	59,680	\$2,424,241,874	\$24,986
→ <i>On same level</i>	21,228	\$810,349,248	\$25,219	75%	7%	17%	1,910	\$77,020,299	\$24,226	19,318	\$733,328,950	\$25,322
→ <i>One level to another</i>	16,582	\$852,653,292	\$27,660	55%	16%	25%	3,199	\$232,930,530	\$33,398	13,383	\$619,722,762	\$26,641
→ <i>Unspecified</i>	31,005	\$1,307,931,455	\$24,449	77%	8%	13%	4,026	\$236,741,293	\$29,477	26,979	\$1,071,190,162	\$23,898
<b>Poisoning</b>	17,221	\$483,071,662	\$13,978	27%	42%	25%	48	\$3,199,372	\$31,455	17,173	\$479,872,290	\$13,956
→ <i>Drug</i>	15,601	\$432,314,026	\$13,862	27%	42%	25%	39	\$2,914,218	\$36,291	15,562	\$429,399,809	\$13,840
→ <i>Non-Drug</i>	1,620	\$50,757,636	\$15,353	32%	40%	23%	9	\$285,154	\$27,362	1,611	\$50,472,481	\$15,274
<b>Motor Vehicle Traffic</b>	13,372	\$1,041,385,515	\$35,501	5%	15%	76%	4,856	\$440,197,475	\$38,300	8,516	\$601,188,041	\$33,930
→ <i>MVT Occupant</i>	9,072	\$646,756,124	\$34,175	4%	10%	83%	3,429	\$264,631,603	\$36,319	5,643	\$382,124,521	\$32,741
→ <i>MVT Motorcyclist</i>	1,905	\$181,474,147	\$39,837	4%	20%	72%	637	\$82,073,723	\$48,585	1,268	\$99,400,424	\$37,751
→ <i>MVT Pedal Cyclist</i>	327	\$29,157,633	\$38,234	6%	23%	62%	136	\$17,708,011	\$38,135	191	\$11,449,622	\$38,366
→ <i>MVT Pedestrian</i>	1,339	\$135,751,334	\$42,900	12%	28%	55%	503	\$57,707,678	\$46,174	836	\$78,043,656	\$41,514
→ <i>MVT Other</i>	92	\$5,231,064	\$30,933	3%	19%	72%	41	\$2,537,115	\$31,164	51	\$2,693,948	\$30,703
→ <i>MVT Unspecified</i>	637	\$43,015,213	\$30,005	11%	16%	73%	110	\$15,539,344	\$45,304	527	\$27,475,869	\$26,589
All Pedal Cyclist	1,186	\$66,249,535	\$27,051	9%	29%	56%	397	\$29,979,419	\$31,837	789	\$36,270,117	\$25,487
All Pedestrian	1,467	\$143,309,279	\$40,982	12%	27%	56%	535	\$60,219,795	\$44,953	932	\$83,089,484	\$38,412
Other Transport	2,016	\$101,216,475	\$25,608	11%	17%	67%	578	\$37,357,068	\$28,123	1,438	\$63,859,407	\$24,729
Firearm	1,500	\$225,710,755	\$57,614	4%	72%	16%	171	\$39,801,866	\$88,751	1,329	\$185,908,890	\$55,125
Drowning	63	\$4,358,215	\$19,546	5%	16%	56%	2	\$33,661	\$16,831	61	\$4,324,554	\$19,546
Suffocation	1,756	\$189,989,392	\$36,135	64%	11%	23%	18	\$2,183,521	\$46,732	1,738	\$187,805,871	\$36,010
Fire/Flames	882	\$127,846,063	\$36,140	24%	46%	22%	9	\$434,721	\$45,330	873	\$127,411,341	\$36,045
Hot Object/Scald	1,138	\$72,673,323	\$23,843	32%	32%	28%	3	\$189,915	\$62,310	1,135	\$72,483,408	\$23,735
Cut/Pierce	3,434	\$113,446,288	\$16,038	18%	43%	27%	48	\$3,051,531	\$35,319	3,386	\$110,394,757	\$15,784
Struck By/Against	5,366	\$207,809,139	\$22,337	21%	35%	34%	1,397	\$67,396,435	\$26,930	3,969	\$140,412,704	\$20,979
Machinery	671	\$29,440,070	\$23,874	14%	6%	70%	54	\$4,092,130	\$40,045	617	\$25,347,941	\$22,875
Overexertion	2,472	\$71,318,444	\$18,837	43%	15%	40%	3	\$57,680	\$5,367	2,469	\$71,260,765	\$18,849
Nat./Env. Causes	3,161	\$109,808,439	\$14,128	43%	25%	28%	39	\$1,964,230	\$25,535	3,122	\$107,844,209	\$13,991
→ <i>Bites and Stings</i>	1,935	\$37,696,516	\$10,892	27%	29%	38%	5	\$266,649	\$25,535	1,930	\$37,429,866	\$10,874
Other Spec./NEC	11,333	\$635,283,808	\$26,266	42%	25%	30%	368	\$33,270,724	\$37,455	10,965	\$602,013,084	\$25,930
Unspecified	14,265	\$743,037,561	\$26,826	52%	20%	25%	959	\$96,566,951	\$42,947	13,306	\$646,470,610	\$26,046
<b>Total: All Mechanisms</b>	<b>148,452</b>	<b>\$7,171,978,992</b>	<b>\$24,373</b>	<b>46%</b>	<b>20%</b>	<b>31%</b>	<b>17,981</b>	<b>\$1,291,272,925</b>	<b>\$32,727</b>	<b>130,471</b>	<b>\$5,880,706,068</b>	<b>\$23,396</b>

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, 2008

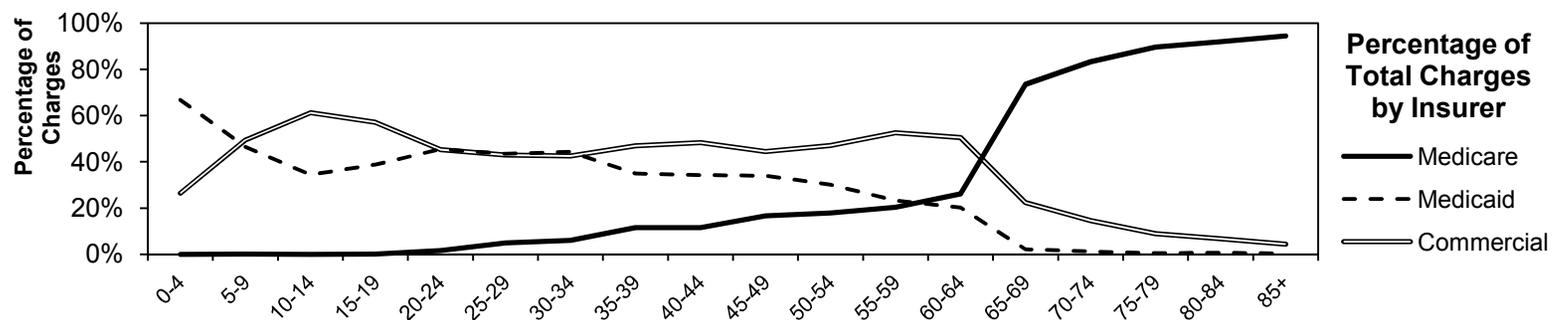
Injury Mechanism	Unintentional Injury			Self-Inflicted Injury			Assault Injury			Undetermined Injury		
	No.	Sum	Median	No.	Sum	Median	No.	Sum	Median	No.	Sum	Median
<b>Fall</b>	68,670	\$2,957,095,308	\$25,352	74	\$6,698,856	\$36,834	17	\$1,807,817	\$41,628	54	\$5,332,015	\$40,748
→ <i>On same level</i>	21,228	\$810,349,248	\$25,219	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
→ <i>One level to another</i>	16,437	\$838,814,604	\$27,571	74	\$6,698,856	\$36,834	17	\$1,807,817	\$41,628	54	\$5,332,015	\$40,748
→ <i>Unspecified</i>	31,005	\$1,307,931,455	\$24,449	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
<b>Poisoning</b>	6,894	\$215,785,719	\$16,111	8,186	\$181,949,606	\$11,764	13	\$213,152	\$9,988	2,128	\$85,123,186	\$17,120
→ <i>Drug</i>	5,876	\$186,940,924	\$16,285	7,848	\$169,834,826	\$11,677	10	\$174,911	\$12,595	1,867	\$75,363,365	\$17,019
→ <i>Non-Drug</i>	1,018	\$28,844,794	\$14,904	338	\$12,114,780	\$14,830	3	\$38,241	\$5,410	261	\$9,759,821	\$17,869
<b>Motor Vehicle Traffic</b>	13,350	\$1,040,543,358	\$35,507	15	\$552,987	\$28,829	6	\$239,659	\$26,936	1	\$49,511	\$49,511
→ <i>MVT Occupant</i>	9,050	\$645,913,967	\$34,178	15	\$552,987	\$28,829	6	\$239,659	\$26,936	1	\$49,511	\$49,511
→ <i>MVT Motorcyclist</i>	1,905	\$181,474,147	\$39,837	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
→ <i>MVT Pedal Cyclist</i>	327	\$29,157,633	\$38,234	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
→ <i>MVT Pedestrian</i>	1,339	\$135,751,334	\$42,900	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
→ <i>MVT Other</i>	92	\$5,231,064	\$30,933	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
→ <i>MVT Unspecified</i>	637	\$43,015,213	\$30,005	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
All Pedal Cyclist	1,186	\$66,249,535	\$27,051	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
All Pedestrian	1,467	\$143,309,279	\$40,982	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
Other Transport	2,016	\$101,216,475	\$25,608	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
Firearm	268	\$22,933,207	\$36,643	101	\$16,696,441	\$44,983	1,019	\$176,273,377	\$73,754	93	\$8,275,819	\$37,905
Drowning	60	\$3,886,436	\$19,568	2	\$14,579	\$7,289	0	\$0	\$0	1	\$457,201	\$457,201
Suffocation	1,582	\$181,765,139	\$37,996	160	\$6,064,746	\$23,534	8	\$584,544	\$46,732	6	\$1,574,964	\$47,864
Fire/Flames	834	\$120,064,035	\$36,553	35	\$5,969,918	\$22,010	5	\$323,004	\$39,710	8	\$1,489,105	\$76,869
Hot Object/Scald	1,119	\$70,729,932	\$23,914	2	\$28,207	\$14,104	10	\$150,393	\$9,752	7	\$1,764,791	\$52,814
Cut/Pierce	1,435	\$39,779,956	\$16,273	1,263	\$27,511,013	\$9,768	699	\$45,228,676	\$35,395	36	\$901,238	\$12,664
Struck By/Against	3,208	\$106,367,632	\$18,946	0	\$0	\$0	2,115	\$100,150,363	\$28,694	0	\$0	\$0
Machinery	671	\$29,440,070	\$23,874	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
Overexertion	2,472	\$71,318,444	\$18,837	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
Nat/Env. Causes	3,148	\$108,739,557	\$14,096	5	\$157,621	\$9,567	0	\$0	\$0	8	\$911,261	\$36,056
→ <i>Bites and Stings</i>	1,935	\$37,696,516	\$10,892	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
Other Spec./NEC	9,447	\$528,593,808	\$25,813	282	\$15,422,602	\$21,040	1,138	\$64,137,043	\$28,818	406	\$24,358,404	\$30,635
Unspecified	10,940	\$540,543,089	\$26,250	60	\$1,187,770	\$8,522	769	\$52,382,260	\$41,178	2,491	\$148,744,373	\$26,826
<b>Total: All Mechanisms</b>	<b>127,101</b>	<b>\$6,183,452,013</b>	<b>\$25,173</b>	<b>10,185</b>	<b>\$262,254,346</b>	<b>\$11,901</b>	<b>5,799</b>	<b>\$441,490,287</b>	<b>\$35,569</b>	<b>5,239</b>	<b>\$278,981,868</b>	<b>\$23,079</b>

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, 2008

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	2,331	\$95,933,399	\$14,342	0%	67%	26%	525	\$23,092,656	\$14,994	1,806	\$72,840,742	\$14,188
5-9	Unint. Falls	1,399	\$41,094,401	\$15,679	0%	46%	49%	266	\$8,111,341	\$16,823	1,133	\$32,983,060	\$15,134
10-14	Unint. Falls	2,070	\$66,119,909	\$16,538	0%	34%	61%	398	\$16,607,090	\$19,011	1,672	\$49,512,819	\$16,167
15-19	MVT Occupant	5,769	\$274,680,373	\$20,363	0%	39%	57%	1,175	\$86,769,370	\$28,569	4,594	\$187,911,003	\$18,364
20-24	MVT Occupant	6,851	\$378,832,370	\$23,811	2%	45%	45%	1,318	\$113,405,188	\$37,131	5,533	\$265,427,182	\$20,923
25-29	Self-Poisoning	6,223	\$316,132,242	\$23,086	5%	44%	43%	932	\$77,722,074	\$35,881	5,291	\$238,410,168	\$20,901
30-34	Self-Poisoning	5,336	\$264,057,671	\$22,531	6%	44%	43%	711	\$55,122,948	\$37,606	4,625	\$208,934,723	\$20,626
35-39	Unint. Falls	6,086	\$284,419,621	\$22,557	12%	35%	47%	742	\$56,823,075	\$38,255	5,344	\$227,596,545	\$20,590
40-44	Unint. Falls	7,603	\$398,560,340	\$22,638	12%	34%	48%	891	\$89,075,871	\$37,800	6,712	\$309,484,470	\$20,913
45-49	Unint. Falls	9,158	\$478,010,029	\$24,534	17%	34%	45%	1,075	\$81,006,216	\$37,671	8,083	\$397,003,813	\$22,885
50-54	Unint. Falls	9,356	\$525,950,504	\$25,486	18%	30%	47%	1,027	\$87,220,166	\$37,031	8,329	\$438,730,338	\$24,342
55-59	Unint. Falls	8,276	\$483,063,537	\$26,605	20%	23%	53%	871	\$89,333,232	\$41,264	7,405	\$393,730,305	\$25,402
60-64	Unint. Falls	7,826	\$434,946,314	\$26,675	26%	20%	51%	854	\$71,223,793	\$36,521	6,972	\$363,722,521	\$25,768
65-69	Unint. Falls	7,510	\$412,486,926	\$27,577	74%	2%	22%	804	\$59,468,881	\$34,851	6,706	\$353,018,045	\$26,866
70-74	Unint. Falls	8,452	\$434,638,899	\$26,448	83%	1%	15%	912	\$67,112,692	\$34,490	7,540	\$367,526,207	\$25,776
75-79	Unint. Falls	11,941	\$568,236,730	\$26,225	90%	1%	9%	1,289	\$82,301,141	\$33,007	10,652	\$485,935,589	\$25,665
80-84	Unint. Falls	16,308	\$711,925,796	\$25,573	92%	1%	7%	1,762	\$111,805,238	\$31,203	14,546	\$600,120,558	\$25,060
85+	Unint. Falls	25,956	\$1,002,850,994	\$24,598	94%	0%	4%	2,428	\$115,033,015	\$26,828	23,528	\$887,817,980	\$24,369
<b>Total:</b>	Unint. Falls	148,452	\$7,171,978,992	\$24,373	46%	20%	31%	17,981	\$1,291,272,925	\$32,727	130,471	\$5,880,706,068	\$23,396

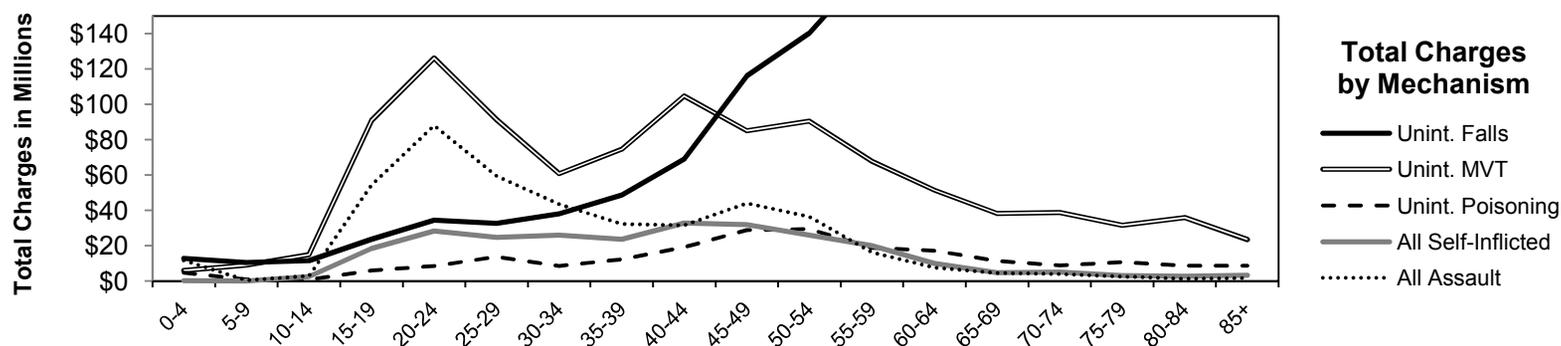


NOTES: Percentages indicate provider's share of total charges, not total number of hospitalizations. Charges are skewed right. Not all payors shown. See Technical Notes.

## SUMMARY TABLE: HOSPITALIZATION CHARGES

### TOTAL NUMBER, CHARGES AND MEDIAN CHARGES BY AGE GROUP AND SELECT MECHANISMS, PENNSYLVANIA RESIDENTS, 2008

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	639	\$12,691,016	\$13,354	119	\$5,857,466	\$24,318	278	\$4,588,099	\$7,531	4	\$77,351	\$13,358	153	\$11,614,036	\$23,597
5-9	476	\$10,462,679	\$14,758	220	\$8,931,462	\$23,770	52	\$965,329	\$11,087	2	\$27,640	\$13,820	18	\$342,722	\$9,479
10-14	506	\$11,513,424	\$16,675	285	\$15,006,937	\$25,487	43	\$616,259	\$8,476	142	\$2,442,367	\$8,945	84	\$2,933,299	\$19,237
15-19	631	\$23,642,423	\$20,715	1,247	\$90,761,858	\$33,723	262	\$5,889,634	\$10,635	1,117	\$18,330,204	\$9,187	705	\$54,205,501	\$32,308
20-24	666	\$34,321,928	\$26,600	1,639	\$126,217,934	\$37,261	358	\$8,460,641	\$12,015	1,316	\$28,257,134	\$10,459	981	\$87,908,804	\$36,676
25-29	741	\$32,634,500	\$25,916	1,167	\$91,301,539	\$36,337	435	\$13,617,251	\$13,349	1,129	\$24,727,715	\$10,858	791	\$59,530,300	\$36,038
30-34	762	\$37,963,641	\$25,532	840	\$60,663,596	\$37,446	360	\$8,407,520	\$12,463	980	\$25,863,155	\$11,066	536	\$43,345,674	\$36,562
35-39	1,027	\$48,605,257	\$27,543	876	\$74,529,672	\$37,794	424	\$12,248,595	\$15,159	1,097	\$23,555,080	\$11,041	503	\$32,290,137	\$35,633
40-44	1,481	\$69,056,276	\$24,938	1,002	\$104,772,292	\$38,513	627	\$19,034,800	\$17,311	1,208	\$32,760,837	\$13,044	547	\$31,451,659	\$37,225
45-49	2,266	\$116,113,851	\$26,227	1,087	\$85,125,994	\$36,647	810	\$28,784,869	\$18,556	1,130	\$31,964,415	\$12,534	567	\$43,985,909	\$38,842
50-54	2,941	\$140,159,322	\$26,610	1,012	\$90,552,416	\$38,455	784	\$29,281,093	\$18,336	860	\$25,909,300	\$14,868	374	\$36,303,013	\$37,915
55-59	3,348	\$179,660,630	\$27,356	797	\$67,703,381	\$34,751	533	\$18,719,572	\$20,672	475	\$19,971,587	\$16,259	188	\$16,241,040	\$41,457
60-64	3,628	\$187,409,088	\$27,631	683	\$51,378,860	\$34,993	410	\$17,172,835	\$19,751	290	\$9,845,507	\$16,500	115	\$7,539,094	\$34,985
65-69	4,058	\$196,673,690	\$27,188	516	\$38,256,194	\$36,905	333	\$11,269,650	\$18,289	134	\$4,693,965	\$16,856	64	\$4,429,958	\$42,744
70-74	5,121	\$240,429,178	\$26,498	482	\$38,657,490	\$38,128	273	\$8,750,343	\$16,985	97	\$4,996,269	\$23,837	56	\$4,011,118	\$28,956
75-79	8,106	\$355,108,713	\$26,035	463	\$31,534,155	\$34,111	316	\$10,675,037	\$19,339	82	\$3,030,111	\$15,547	48	\$2,453,310	\$28,972
80-84	11,868	\$494,469,562	\$25,615	524	\$35,784,176	\$31,785	299	\$8,631,021	\$16,956	62	\$2,632,306	\$21,453	29	\$1,225,953	\$35,897
85+	20,405	\$766,180,128	\$24,702	390	\$23,468,998	\$33,307	297	\$8,673,174	\$18,714	60	\$3,169,402	\$23,365	40	\$1,678,758	\$29,730
<b>Total:</b>	<b>68,670</b>	<b>\$2,957,095,308</b>	<b>\$25,352</b>	<b>13,350</b>	<b>\$1,040,543,358</b>	<b>\$35,507</b>	<b>6,894</b>	<b>\$215,785,719</b>	<b>\$16,111</b>	<b>10,185</b>	<b>\$262,254,346</b>	<b>\$11,901</b>	<b>5,799</b>	<b>\$441,490,287</b>	<b>\$35,569</b>



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, 2008

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																
<b>Fall</b>	639	86.7	477	63.2	509	63.7	642	69.6	682	77.0	763	103.2	779	104.6	1,046	130.4	1,494	170.7
→ On same level	69	9.4	104	13.8	214	26.8	268	29.0	160	18.1	185	25.0	185	24.8	260	32.4	385	44.0
→ One level to another	452	61.3	284	37.6	182	22.8	210	22.8	313	35.3	339	45.9	359	48.2	462	57.6	608	69.5
→ Unspecified	118	16.0	89	11.8	113	14.2	164	17.8	209	23.6	239	32.3	235	31.5	324	40.4	501	57.2
<b>Poisoning</b>	294	39.9	53	7.0	143	17.9	1,246	135.0	1,524	172.0	1,492	201.9	1,300	174.5	1,543	192.4	1,908	218.0
→ Drug	206	27.9	31	4.1	119	14.9	1,168	126.6	1,448	163.4	1,411	190.9	1,210	162.4	1,444	180.1	1,766	201.8
→ Non-Drug	88	11.9	22	2.9	24	3.0	78	8.5	76	8.6	81	11.0	90	12.1	99	12.3	142	16.2
<b>Motor Vehicle Traffic</b>	119	16.1	220	29.1	285	35.7	1,247	135.1	1,643	185.4	1,172	158.6	844	113.3	877	109.4	1,003	114.6
→ MVT Occupant	62	8.4	80	10.6	102	12.8	932	101.0	1,195	134.8	814	110.1	581	78.0	569	70.9	616	70.4
→ MVT Motorcyclist	0	NA	2	NA	15	1.9	106	11.5	240	27.1	202	27.3	139	18.7	190	23.7	226	25.8
→ MVT Pedal Cyclist	3	NA	27	3.6	67	8.4	47	5.1	31	3.5	17	2.3	18	2.4	20	2.5	27	3.1
→ MVT Pedestrian	49	6.6	107	14.2	91	11.4	104	11.3	100	11.3	76	10.3	62	8.3	61	7.6	72	8.2
→ MVT Other	5	NA	4	NA	6	NA	15	1.6	9	NA	5	NA	2	NA	5	NA	9	NA
→ MVT Unspecified	0	NA	0	NA	4	NA	43	4.7	68	7.7	58	7.8	42	5.6	32	4.0	53	6.1
All Pedal Cyclist	13	1.8	118	15.6	198	24.8	157	17.0	86	9.7	43	5.8	54	7.2	52	6.5	85	9.7
All Pedestrian	55	7.5	112	14.8	98	12.3	110	11.9	111	12.5	77	10.4	72	9.7	66	8.2	86	9.8
Other Transport	15	2.0	52	6.9	133	16.7	264	28.6	214	24.1	174	23.5	127	17.0	135	16.8	167	19.1
Firearm	2	NA	3	NA	24	3.0	336	36.4	365	41.2	230	31.1	162	21.7	112	14.0	83	9.5
Drowning	22	3.0	11	1.5	7	NA	5	NA	0	NA	1	NA	2	NA	1	NA	1	NA
Suffocation	49	6.6	10	1.3	13	1.6	34	3.7	39	4.4	41	5.5	25	3.4	41	5.1	41	4.7
Fire/Flames	35	4.7	16	2.1	30	3.8	52	5.6	75	8.5	59	8.0	49	6.6	47	5.9	69	7.9
Hot Object/Scald	268	36.4	22	2.9	24	3.0	34	3.7	32	3.6	51	6.9	52	7.0	64	8.0	73	8.3
Cut/Pierce	32	4.3	50	6.6	79	9.9	346	37.5	494	55.7	435	58.9	318	42.7	336	41.9	314	35.9
Struck By/Against	90	12.2	113	15.0	282	35.3	549	59.5	522	58.9	434	58.7	322	43.2	333	41.5	409	46.7
Machinery	9	NA	5	NA	10	1.3	19	2.1	50	5.6	50	6.8	48	6.4	52	6.5	74	8.5
Overexertion	8	NA	9	NA	42	5.3	95	10.3	76	8.6	93	12.6	122	16.4	147	18.3	158	18.1
Nat/Env. Causes	164	22.2	91	12.1	81	10.1	84	9.1	91	10.3	119	16.1	136	18.3	140	17.5	196	22.4
→ Bites and Stings	121	16.4	79	10.5	55	6.9	64	6.9	70	7.9	97	13.1	109	14.6	114	14.2	153	17.5
Other Spec./NEC	304	41.2	126	16.7	166	20.8	375	40.6	566	63.9	660	89.3	604	81.1	663	82.7	850	97.1
Unspecified	265	35.9	45	6.0	104	13.0	325	35.2	412	46.5	422	57.1	400	53.7	512	63.8	691	79.0
<b>Total: All Mechanisms</b>	<b>2,331</b>	<b>316.2</b>	<b>1,399</b>	<b>185.3</b>	<b>2,070</b>	<b>259.2</b>	<b>5,769</b>	<b>625.2</b>	<b>6,851</b>	<b>773.0</b>	<b>6,223</b>	<b>842.0</b>	<b>5,336</b>	<b>716.3</b>	<b>6,086</b>	<b>758.9</b>	<b>7,603</b>	<b>868.8</b>

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, 2008

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										
<b>Fall</b>	2,286	250.2	2,952	332.5	3,351	418.3	3,630	538.5	4,059	765.5	5,124	1,156.5	8,107	2,196.1	11,870	4,177.2	20,405	7,185.3
→ On same level	616	67.4	841	94.7	997	124.4	1,156	171.5	1,334	251.6	1,678	378.7	2,606	705.9	3,920	1,379.5	6,250	2,200.9
→ One level to another	872	95.4	1,035	116.6	1,083	135.2	980	145.4	1,045	197.1	1,129	254.8	1,659	449.4	2,144	754.5	3,426	1,206.4
→ Unspecified	798	87.3	1,076	121.2	1,271	158.6	1,494	221.6	1,680	316.8	2,317	523.0	3,842	1,040.8	5,806	2,043.2	10,729	3,778.1
<b>Poisoning</b>	2,116	231.6	1,797	202.4	1,087	135.7	731	108.4	488	92.0	377	85.1	402	108.9	368	129.5	352	124.0
→ Drug	1,921	210.3	1,603	180.6	952	118.8	640	94.9	410	77.3	321	72.5	348	94.3	306	107.7	297	104.6
→ Non-Drug	195	21.3	194	21.9	135	16.9	91	13.5	78	14.7	56	12.6	54	14.6	62	21.8	55	19.4
<b>Motor Vehicle Traffic</b>	1,090	119.3	1,013	114.1	798	99.6	684	101.5	516	97.3	482	108.8	463	125.4	524	184.4	391	137.7
→ MVT Occupant	662	72.5	617	69.5	525	65.5	444	65.9	377	71.1	372	84.0	374	101.3	426	149.9	323	113.7
→ MVT Motorcyclist	221	24.2	216	24.3	129	16.1	116	17.2	53	10.0	33	7.4	7	NA	7	NA	3	NA
→ MVT Pedal Cyclist	20	2.2	20	2.3	15	1.9	7	NA	3	NA	2	NA	2	NA	0	NA	1	NA
→ MVT Pedestrian	117	12.8	113	12.7	80	10.0	71	10.5	51	9.6	48	10.8	41	11.1	58	20.4	38	13.4
→ MVT Other	7	NA	5	NA	6	NA	2	NA	2	NA	3	NA	2	NA	1	NA	4	NA
→ MVT Unspecified	63	6.9	42	4.7	43	5.4	44	6.5	30	5.7	24	5.4	37	10.0	32	11.3	22	7.7
All Pedal Cyclist	88	9.6	95	10.7	83	10.4	50	7.4	27	5.1	21	4.7	11	3.0	2	NA	3	NA
All Pedestrian	129	14.1	120	13.5	92	11.5	76	11.3	58	10.9	51	11.5	47	12.7	64	22.5	43	15.1
Other Transport	140	15.3	115	13.0	88	11.0	93	13.8	59	11.1	63	14.2	58	15.7	59	20.8	60	21.1
Firearm	54	5.9	49	5.5	27	3.4	15	2.2	13	2.5	8	NA	8	NA	4	NA	5	NA
Drowning	1	NA	0	NA	3	NA	1	NA	1	NA	1	NA	2	NA	3	NA	1	NA
Suffocation	80	8.8	100	11.3	126	15.7	115	17.1	140	26.4	151	34.1	207	56.1	228	80.2	316	111.3
Fire/Flames	80	8.8	74	8.3	66	8.2	61	9.0	48	9.1	41	9.3	31	8.4	23	8.1	26	9.2
Hot Object/Scald	83	9.1	81	9.1	68	8.5	57	8.5	42	7.9	38	8.6	46	12.5	34	12.0	69	24.3
Cut/Pierce	284	31.1	246	27.7	141	17.6	98	14.5	68	12.8	49	11.1	57	15.4	37	13.0	50	17.6
Struck By/Against	470	51.4	390	43.9	264	33.0	189	28.0	135	25.5	132	29.8	195	52.8	208	73.2	329	115.9
Machinery	80	8.8	57	6.4	64	8.0	46	6.8	31	5.8	28	6.3	18	4.9	14	4.9	16	5.6
Overexertion	204	22.3	188	21.2	146	18.2	171	25.4	162	30.6	167	37.7	172	46.6	258	90.8	254	89.4
Nat/Env. Causes	236	25.8	304	34.2	264	33.0	233	34.6	186	35.1	183	41.3	172	46.6	207	72.8	274	96.5
→ Bites and Stings	167	18.3	190	21.4	161	20.1	134	19.9	108	20.4	85	19.2	76	20.6	75	26.4	77	27.1
Other Spec./NEC	955	104.5	954	107.5	758	94.6	701	104.0	639	120.5	584	131.8	662	179.3	777	273.4	989	348.3
Unspecified	919	100.6	954	107.5	945	118.0	953	141.4	892	168.2	1,002	226.2	1,326	359.2	1,686	593.3	2,412	849.4
<b>Total: All Mechanisms</b>	<b>9,158</b>	<b>1,002.3</b>	<b>9,356</b>	<b>1,053.8</b>	<b>8,276</b>	<b>1,033.0</b>	<b>7,826</b>	<b>1,161.0</b>	<b>7,510</b>	<b>1,416.3</b>	<b>8,452</b>	<b>1,907.7</b>	<b>11,941</b>	<b>3,234.7</b>	<b>16,308</b>	<b>5,739.0</b>	<b>25,956</b>	<b>9,140.0</b>

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, 2008

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
<b>Fall</b>	383	101.5	285	73.8	348	85.3	448	96.5	424	94.2	474	125.4	444	118.1	619	154.9	887	204.5
→ On same level	52	13.8	57	14.8	160	39.2	207	44.6	101	22.4	97	25.7	84	22.3	118	29.5	188	43.4
→ One level to another	262	69.5	173	44.8	113	27.7	133	28.6	205	45.5	240	63.5	230	61.2	330	82.6	423	97.5
→ Unspecified	69	18.3	55	14.2	75	18.4	108	23.3	118	26.2	137	36.2	130	34.6	171	42.8	276	63.6
<b>Poisoning</b>	168	44.5	29	7.5	37	9.1	531	114.3	714	158.6	676	178.8	633	168.4	727	181.9	914	210.8
→ Drug	119	31.5	16	4.1	26	6.4	485	104.4	665	147.7	622	164.5	579	154.0	663	165.9	835	192.6
→ Non-Drug	49	13.0	13	3.4	11	2.7	46	9.9	49	10.9	54	14.3	54	14.4	64	16.0	79	18.2
<b>Motor Vehicle Traffic</b>	68	18.0	144	37.3	182	44.6	796	171.4	1,072	238.1	772	204.2	566	150.6	562	140.6	655	151.0
→ MVT Occupant	32	8.5	48	12.4	53	13.0	551	118.6	726	161.2	488	129.1	364	96.8	315	78.8	367	84.6
→ MVT Motorcyclist	0	NA	1	NA	10	2.5	92	19.8	221	49.1	184	48.7	123	32.7	174	43.5	187	43.1
→ MVT Pedal Cyclist	3	NA	21	5.4	57	14.0	39	8.4	21	4.7	9	NA	15	4.0	16	4.0	21	4.8
→ MVT Pedestrian	31	8.2	72	18.6	53	13.0	66	14.2	66	14.7	51	13.5	40	10.6	33	8.3	43	9.9
→ MVT Other	2	NA	2	NA	5	NA	15	3.2	6	NA	4	NA	1	NA	4	NA	8	NA
→ MVT Unspecified	0	NA	0	NA	4	NA	33	7.1	32	7.1	36	9.5	23	6.1	20	5.0	29	6.7
All Pedal Cyclist	12	3.2	90	23.3	171	41.9	137	29.5	68	15.1	26	6.9	45	12.0	43	10.8	64	14.8
All Pedestrian	35	9.3	74	19.2	54	13.2	68	14.6	74	16.4	51	13.5	47	12.5	38	9.5	54	12.5
Other Transport	11	2.9	36	9.3	104	25.5	197	42.4	162	36.0	133	35.2	99	26.3	90	22.5	119	27.4
Firearm	1	NA	2	NA	20	4.9	319	68.7	339	75.3	214	56.6	153	40.7	107	26.8	72	16.6
Drowning	12	3.2	7	NA	3	NA	2	NA	0	NA	1	NA	2	NA	1	NA	1	NA
Suffocation	29	7.7	4	NA	10	2.5	23	5.0	21	4.7	24	6.3	21	5.6	24	6.0	27	6.2
Fire/Flames	21	5.6	10	2.6	27	6.6	43	9.3	54	12.0	35	9.3	38	10.1	36	9.0	48	11.1
Hot Object/Scald	158	41.9	13	3.4	15	3.7	22	4.7	23	5.1	36	9.5	30	8.0	41	10.3	46	10.6
Cut/Pierce	20	5.3	34	8.8	44	10.8	200	43.1	339	75.3	304	80.4	226	60.1	231	57.8	213	49.1
Struck By/Against	50	13.3	83	21.5	232	56.9	466	100.3	421	93.5	342	90.5	251	66.8	262	65.6	332	76.6
Machinery	7	NA	5	NA	8	NA	15	3.2	47	10.4	47	12.4	46	12.2	49	12.3	67	15.5
Overexertion	4	NA	6	NA	22	5.4	59	12.7	38	8.4	62	16.4	75	19.9	88	22.0	93	21.4
Nat/Env. Causes	94	24.9	44	11.4	52	12.7	43	9.3	51	11.3	58	15.3	78	20.7	67	16.8	94	21.7
→ Bites and Stings	66	17.5	35	9.1	39	9.6	32	6.9	36	8.0	44	11.6	61	16.2	50	12.5	71	16.4
Other Spec./NEC	173	45.9	74	19.2	111	27.2	253	54.5	383	85.1	479	126.7	435	115.7	416	104.1	583	134.4
Unspecified	155	41.1	19	4.9	60	14.7	234	50.4	283	62.9	288	76.2	252	67.0	330	82.6	429	98.9
<b>Total: All Mechanisms</b>	<b>1,367</b>	<b>362.4</b>	<b>866</b>	<b>224.2</b>	<b>1,390</b>	<b>340.8</b>	<b>3,751</b>	<b>807.6</b>	<b>4,426</b>	<b>983.0</b>	<b>3,962</b>	<b>1,047.9</b>	<b>3,386</b>	<b>900.7</b>	<b>3,682</b>	<b>921.3</b>	<b>4,634</b>	<b>1,068.6</b>

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, 2008

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																
<b>Fall</b>	1,300	288.5	1,517	348.9	1,633	421.0	1,628	506.9	1,658	681.0	1,924	992.7	2,771	1,842.2	3,609	3,367.6	5,162	5,877.1
→ On same level	300	66.6	328	75.4	393	101.3	457	142.3	480	197.2	528	272.4	791	525.9	1,096	1,022.7	1,482	1,687.3
→ One level to another	566	125.6	616	141.7	627	161.6	491	152.9	469	192.6	460	237.3	617	410.2	714	666.2	961	1,094.1
→ Unspecified	434	96.3	573	131.8	613	158.0	680	211.7	709	291.2	936	482.9	1,363	906.1	1,799	1,678.7	2,719	3,095.6
<b>Poisoning</b>	1,050	233.0	944	217.1	566	145.9	356	110.9	222	91.2	162	83.6	156	103.7	154	143.7	132	150.3
→ Drug	917	203.5	808	185.9	479	123.5	307	95.6	169	69.4	127	65.5	135	89.7	127	118.5	108	123.0
→ Non-Drug	133	29.5	136	31.3	87	22.4	49	15.3	53	21.8	35	18.1	21	14.0	27	25.2	24	27.3
<b>Motor Vehicle Traffic</b>	717	159.1	629	144.7	476	122.7	406	126.4	257	105.6	254	131.0	220	146.3	235	219.3	169	192.4
→ MVT Occupant	379	84.1	340	78.2	282	72.7	232	72.2	168	69.0	189	97.5	173	115.0	190	177.3	134	152.6
→ MVT Motorcyclist	190	42.2	183	42.1	107	27.6	105	32.7	47	19.3	30	15.5	5	NA	5	NA	3	NA
→ MVT Pedal Cyclist	17	3.8	19	4.4	15	3.9	7	NA	3	NA	2	NA	2	NA	0	NA	1	NA
→ MVT Pedestrian	92	20.4	68	15.6	47	12.1	37	11.5	24	9.9	19	9.8	22	14.6	26	24.3	16	18.2
→ MVT Other	3	NA	4	NA	6	NA	2	NA	1	NA	2	NA	1	NA	0	NA	2	NA
→ MVT Unspecified	36	8.0	15	3.5	19	4.9	23	7.2	14	5.8	12	6.2	17	11.3	14	13.1	13	14.8
All Pedal Cyclist	68	15.1	80	18.4	61	15.7	38	11.8	21	8.6	17	8.8	8	NA	2	NA	2	NA
All Pedestrian	103	22.9	71	16.3	56	14.4	40	12.5	28	11.5	21	10.8	25	16.6	29	27.1	18	20.5
Other Transport	84	18.6	71	16.3	44	11.3	65	20.2	40	16.4	33	17.0	34	22.6	34	31.7	25	28.5
Firearm	46	10.2	37	8.5	23	5.9	11	3.4	10	4.1	6	NA	8	NA	3	NA	5	NA
Drowning	1	NA	0	NA	3	NA	1	NA	0	NA	1	NA	2	NA	3	NA	1	NA
Suffocation	47	10.4	67	15.4	69	17.8	76	23.7	65	26.7	83	42.8	125	83.1	120	112.0	126	143.5
Fire/Flames	56	12.4	47	10.8	42	10.8	35	10.9	34	14.0	27	13.9	19	12.6	13	12.1	10	11.4
Hot Object/Scald	53	11.8	51	11.7	45	11.6	36	11.2	22	9.0	19	9.8	19	12.6	11	10.3	31	35.3
Cut/Pierce	197	43.7	179	41.2	103	26.6	71	22.1	49	20.1	41	21.2	40	26.6	24	22.4	27	30.7
Struck By/Against	375	83.2	307	70.6	203	52.3	131	40.8	88	36.1	78	40.2	110	73.1	72	67.2	93	105.9
Machinery	70	15.5	54	12.4	58	15.0	41	12.8	30	12.3	23	11.9	17	11.3	12	11.2	13	14.8
Overexertion	120	26.6	104	23.9	76	19.6	80	24.9	63	25.9	60	31.0	53	35.2	60	56.0	59	67.2
Nat/Env. Causes	129	28.6	155	35.7	136	35.1	110	34.3	86	35.3	93	48.0	70	46.5	71	66.3	86	97.9
→ Bites and Stings	87	19.3	87	20.0	74	19.1	55	17.1	40	16.4	38	19.6	24	16.0	18	16.8	20	22.8
Other Spec./NEC	672	149.1	645	148.4	502	129.4	429	133.6	364	149.5	311	160.5	312	207.4	372	347.1	383	436.1
Unspecified	601	133.4	608	139.9	544	140.2	517	161.0	481	197.6	483	249.2	573	380.9	685	639.2	804	915.4
<b>Total: All Mechanisms</b>	<b>5,580</b>	<b>1,238.2</b>	<b>5,479</b>	<b>1,260.3</b>	<b>4,578</b>	<b>1,180.2</b>	<b>4,027</b>	<b>1,254.0</b>	<b>3,491</b>	<b>1,433.9</b>	<b>3,615</b>	<b>1,865.1</b>	<b>4,538</b>	<b>3,016.8</b>	<b>5,483</b>	<b>5,116.2</b>	<b>7,129</b>	<b>8,116.5</b>

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, 2008

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
<b>Fall</b>	256	71.1	192	52.0	161	41.2	194	42.3	258	59.2	289	80.1	335	90.8	427	106.1	606	137.3
→ On same level	17	4.7	47	12.7	54	13.8	61	13.3	59	13.5	88	24.4	101	27.4	142	35.3	197	44.6
→ One level to another	190	52.8	111	30.1	69	17.7	77	16.8	108	24.8	99	27.4	129	35.0	132	32.8	184	41.7
→ Unspecified	49	13.6	34	9.2	38	9.7	56	12.2	91	20.9	102	28.3	105	28.5	153	38.0	225	51.0
<b>Poisoning</b>	126	35.0	24	6.5	106	27.1	715	156.0	809	185.6	816	226.1	667	180.8	816	202.8	993	224.9
→ Drug	87	24.2	15	4.1	93	23.8	683	149.0	782	179.4	789	218.6	631	171.0	781	194.1	930	210.7
→ Non-Drug	39	10.8	9	NA	13	3.3	32	7.0	27	6.2	27	7.5	36	9.8	35	8.7	63	14.3
<b>Motor Vehicle Traffic</b>	51	14.2	76	20.6	103	26.4	449	98.0	569	130.5	400	110.8	276	74.8	313	77.8	346	78.4
→ MVT Occupant	30	8.3	32	8.7	49	12.5	379	82.7	467	107.1	326	90.3	216	58.5	252	62.6	247	55.9
→ MVT Motorcyclist	0	NA	1	NA	5	NA	14	3.1	19	4.4	18	5.0	16	4.3	16	4.0	39	8.8
→ MVT Pedal Cyclist	0	NA	6	NA	10	2.6	8	NA	10	2.3	8	NA	3	NA	4	NA	6	NA
→ MVT Pedestrian	18	5.0	35	9.5	38	9.7	38	8.3	34	7.8	25	6.9	22	6.0	28	7.0	29	6.6
→ MVT Other	3	NA	2	NA	1	NA	0	NA	3	NA	1	NA	0	NA	1	NA	1	NA
→ MVT Unspecified	0	NA	0	NA	0	NA	10	2.2	36	8.3	22	6.1	19	5.1	12	3.0	24	5.4
All Pedal Cyclist	1	NA	28	7.6	27	6.9	20	4.4	18	4.1	17	4.7	9	NA	9	NA	21	4.8
All Pedestrian	20	5.6	38	10.3	44	11.3	42	9.2	37	8.5	26	7.2	25	6.8	28	7.0	32	7.2
Other Transport	3	NA	16	4.3	29	7.4	67	14.6	52	11.9	41	11.4	28	7.6	44	10.9	47	10.6
Firearm	1	NA	1	NA	4	NA	17	3.7	26	6.0	16	4.4	9	NA	5	NA	11	2.5
Drowning	9	NA	4	NA	4	NA	3	NA	0	NA								
Suffocation	20	5.6	6	NA	3	NA	11	2.4	18	4.1	17	4.7	4	NA	17	4.2	14	3.2
Fire/Flames	14	3.9	6	NA	3	NA	9	NA	21	4.8	24	6.6	11	3.0	11	2.7	21	4.8
Hot Object/Scald	110	30.6	9	NA	9	NA	12	2.6	9	NA	15	4.2	22	6.0	23	5.7	27	6.1
Cut/Pierce	12	3.3	16	4.3	35	9.0	146	31.9	154	35.3	131	36.3	91	24.7	105	26.1	101	22.9
Struck By/Against	40	11.1	30	8.1	50	12.8	83	18.1	101	23.2	91	25.2	71	19.2	71	17.6	77	17.4
Machinery	2	NA	0	NA	2	NA	4	NA	3	NA	3	NA	2	NA	3	NA	7	NA
Overexertion	4	NA	3	NA	20	5.1	36	7.9	38	8.7	31	8.6	47	12.7	59	14.7	65	14.7
Nat/Env. Causes	70	19.4	47	12.7	29	7.4	41	8.9	40	9.2	61	16.9	58	15.7	73	18.1	102	23.1
→ Bites and Stings	55	15.3	44	11.9	16	4.1	32	7.0	34	7.8	53	14.7	48	13.0	64	15.9	82	18.6
Other Spec./NEC	131	36.4	52	14.1	55	14.1	122	26.6	183	42.0	181	50.1	169	45.8	247	61.4	267	60.5
Unspecified	110	30.6	26	7.0	44	11.3	91	19.9	129	29.6	133	36.8	148	40.1	182	45.2	262	59.3
<b>Total: All Mechanisms</b>	<b>962</b>	<b>267.2</b>	<b>533</b>	<b>144.5</b>	<b>680</b>	<b>174.1</b>	<b>2,016</b>	<b>439.8</b>	<b>2,421</b>	<b>555.3</b>	<b>2,259</b>	<b>625.8</b>	<b>1,947</b>	<b>527.7</b>	<b>2,401</b>	<b>596.8</b>	<b>2,964</b>	<b>671.4</b>

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, 2008

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
<b>Fall</b>	986	213.0	1,435	316.7	1,717	415.5	2,002	567.2	2,400	836.9	3,199	1,283.5	5,335	2,439.1	8,258	4,665.7	15,240	7,769.6
→ On same level	316	68.3	513	113.2	604	146.2	699	198.0	854	297.8	1,150	461.4	1,815	829.8	2,823	1,595.0	4,768	2,430.8
→ One level to another	306	66.1	419	92.5	455	110.1	489	138.5	575	200.5	668	268.0	1,042	476.4	1,430	807.9	2,463	1,255.7
→ Unspecified	364	78.6	503	111.0	658	159.2	814	230.6	971	338.6	1,381	554.1	2,478	1,132.9	4,005	2,262.8	8,009	4,083.1
<b>Poisoning</b>	1,066	230.2	853	188.3	521	126.1	374	106.0	266	92.8	215	86.3	246	112.5	214	120.9	220	112.2
→ Drug	1,004	216.8	795	175.5	473	114.5	332	94.1	241	84.0	194	77.8	213	97.4	179	101.1	189	96.4
→ Non-Drug	62	13.4	58	12.8	48	11.6	42	11.9	25	8.7	21	8.4	33	15.1	35	19.8	31	15.8
<b>Motor Vehicle Traffic</b>	372	80.3	383	84.5	319	77.2	277	78.5	258	90.0	228	91.5	243	111.1	289	163.3	221	112.7
→ MVT Occupant	282	60.9	277	61.1	241	58.3	212	60.1	209	72.9	183	73.4	201	91.9	236	133.3	188	95.8
→ MVT Motorcyclist	31	6.7	33	7.3	21	5.1	10	2.8	5	NA	3	NA	2	NA	2	NA	0	NA
→ MVT Pedal Cyclist	3	NA	1	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA
→ MVT Pedestrian	25	5.4	44	9.7	33	8.0	34	9.6	27	9.4	29	11.6	19	8.7	32	18.1	22	11.2
→ MVT Other	4	NA	1	NA	0	NA	0	NA	1	NA	1	NA	1	NA	1	NA	2	NA
→ MVT Unspecified	27	5.8	27	6.0	24	5.8	21	5.9	16	5.6	12	4.8	20	9.1	18	10.2	9	NA
All Pedal Cyclist	20	4.3	15	3.3	22	5.3	12	3.4	6	NA	4	NA	3	NA	0	NA	1	NA
All Pedestrian	26	5.6	48	10.6	36	8.7	36	10.2	30	10.5	30	12.0	22	10.1	35	19.8	25	12.7
Other Transport	55	11.9	44	9.7	43	10.4	28	7.9	19	6.6	30	12.0	24	11.0	25	14.1	35	17.8
Firearm	8	NA	12	2.6	4	NA	4	NA	3	NA	2	NA	0	NA	1	NA	0	NA
Drowning	0	NA	0	NA	0	NA	0	NA	1	NA	0	NA	0	NA	0	NA	0	NA
Suffocation	33	7.1	33	7.3	57	13.8	39	11.0	75	26.2	68	27.3	82	37.5	108	61.0	190	96.9
Fire/Flames	24	5.2	27	6.0	24	5.8	26	7.4	14	4.9	14	5.6	12	5.5	10	5.6	16	8.2
Hot Object/Scald	30	6.5	30	6.6	23	5.6	21	5.9	20	7.0	19	7.6	27	12.3	23	13.0	38	19.4
Cut/Pierce	87	18.8	67	14.8	38	9.2	27	7.6	19	6.6	8	NA	17	7.8	13	7.3	23	11.7
Struck By/Against	95	20.5	83	18.3	61	14.8	58	16.4	47	16.4	54	21.7	85	38.9	136	76.8	236	120.3
Machinery	10	2.2	3	NA	5	NA	5	NA	1	NA	5	NA	1	NA	2	NA	3	NA
Overexertion	84	18.1	84	18.5	70	16.9	91	25.8	99	34.5	107	42.9	119	54.4	198	111.9	195	99.4
Nat/Env. Causes	107	23.1	149	32.9	128	31.0	123	34.8	100	34.9	90	36.1	102	46.6	136	76.8	188	95.8
→ Bites and Stings	80	17.3	103	22.7	87	21.1	79	22.4	68	23.7	47	18.9	52	23.8	57	32.2	57	29.1
Other Spec./NEC	283	61.1	309	68.2	256	61.9	272	77.1	275	95.9	272	109.1	350	160.0	405	228.8	606	309.0
Unspecified	318	68.7	346	76.4	401	97.0	436	123.5	411	143.3	519	208.2	753	344.3	1,001	565.6	1,608	819.8
<b>Total: All Mechanisms</b>	<b>3,576</b>	<b>772.4</b>	<b>3,876</b>	<b>855.5</b>	<b>3,692</b>	<b>893.4</b>	<b>3,797</b>	<b>1,075.8</b>	<b>4,017</b>	<b>1,400.7</b>	<b>4,835</b>	<b>1,940.0</b>	<b>7,402</b>	<b>3,384.1</b>	<b>10,822</b>	<b>6,114.4</b>	<b>18,823</b>	<b>9,596.3</b>

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, 2008

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
<b>Fall</b>	229	75.0	195	62.0	250	74.9	345	90.2	314	84.8	356	114.7	317	101.0	460	135.2	690	183.6
→ On same level	35	11.5	43	13.7	115	34.5	168	43.9	80	21.6	73	23.5	59	18.8	90	26.5	154	41.0
→ One level to another	160	52.4	114	36.3	81	24.3	105	27.4	156	42.1	187	60.2	166	52.9	255	75.0	327	87.0
→ Unspecified	34	11.1	38	12.1	54	16.2	72	18.8	78	21.1	96	30.9	92	29.3	115	33.8	209	55.6
<b>Poisoning</b>	83	27.2	19	6.0	27	8.1	425	111.1	574	155.1	530	170.7	455	145.0	496	145.8	579	154.1
→ Drug	59	19.3	10	3.2	18	5.4	390	101.9	537	145.1	494	159.1	422	134.5	454	133.5	526	140.0
→ Non-Drug	24	7.9	9	NA	9	NA	35	9.1	37	10.0	36	11.6	33	10.5	42	12.3	53	14.1
<b>Motor Vehicle Traffic</b>	31	10.2	64	20.4	117	35.1	610	159.4	824	222.6	561	180.7	399	127.2	419	123.2	494	131.5
→ MVT Occupant	19	6.2	27	8.6	41	12.3	446	116.5	565	152.6	364	117.2	266	84.8	242	71.1	283	75.3
→ MVT Motorcyclist	0	NA	1	NA	8	NA	64	16.7	173	46.7	133	42.8	89	28.4	140	41.2	151	40.2
→ MVT Pedal Cyclist	1	NA	12	3.8	36	10.8	26	6.8	12	3.2	7	NA	6	NA	9	NA	12	3.2
→ MVT Pedestrian	9	NA	22	7.0	25	7.5	38	9.9	42	11.3	29	9.3	23	7.3	16	4.7	24	6.4
→ MVT Other	2	NA	2	NA	4	NA	10	2.6	5	NA	4	NA	1	NA	3	NA	5	NA
→ MVT Unspecified	0	NA	0	NA	3	NA	26	6.8	27	7.3	24	7.7	14	4.5	9	NA	19	5.1
All Pedal Cyclist	6	NA	58	18.5	120	35.9	99	25.9	47	12.7	22	7.1	28	8.9	32	9.4	47	12.5
All Pedestrian	12	3.9	23	7.3	26	7.8	40	10.5	49	13.2	29	9.3	28	8.9	21	6.2	33	8.8
Other Transport	9	NA	31	9.9	93	27.9	173	45.2	135	36.5	122	39.3	87	27.7	84	24.7	107	28.5
Firearm	0	NA	1	NA	2	NA	34	8.9	55	14.9	29	9.3	29	9.2	32	9.4	27	7.2
Drowning	8	NA	2	NA	1	NA	1	NA	0	NA	1	NA	1	NA	1	NA	1	NA
Suffocation	21	6.9	4	NA	5	NA	13	3.4	17	4.6	19	6.1	16	5.1	18	5.3	21	5.6
Fire/Flames	11	3.6	8	NA	21	6.3	33	8.6	42	11.3	20	6.4	28	8.9	21	6.2	33	8.8
Hot Object/Scald	71	23.3	4	NA	2	NA	13	3.4	14	3.8	23	7.4	22	7.0	27	7.9	31	8.2
Cut/Pierce	8	NA	21	6.7	30	9.0	135	35.3	220	59.4	186	59.9	136	43.3	146	42.9	128	34.1
Struck By/Against	33	10.8	57	18.1	164	49.1	302	78.9	251	67.8	215	69.2	153	48.8	163	47.9	199	53.0
Machinery	7	NA	5	NA	6	NA	13	3.4	39	10.5	41	13.2	34	10.8	37	10.9	56	14.9
Overexertion	3	NA	2	NA	14	4.2	40	10.5	26	7.0	41	13.2	55	17.5	69	20.3	72	19.2
Nat/Env. Causes	60	19.7	30	9.5	41	12.3	30	7.8	40	10.8	44	14.2	67	21.4	54	15.9	72	19.2
→ Bites and Stings	46	15.1	22	7.0	31	9.3	23	6.0	26	7.0	34	11.0	56	17.8	43	12.6	54	14.4
Other Spec./NEC	94	30.8	46	14.6	76	22.8	165	43.1	250	67.5	310	99.8	260	82.9	283	83.2	396	105.4
Unspecified	96	31.5	9	NA	44	13.2	149	38.9	180	48.6	191	61.5	158	50.4	205	60.3	284	75.6
<b>Total: All Mechanisms</b>	<b>772</b>	<b>253.0</b>	<b>545</b>	<b>173.4</b>	<b>978</b>	<b>293.0</b>	<b>2,556</b>	<b>667.9</b>	<b>3,023</b>	<b>816.6</b>	<b>2,704</b>	<b>870.9</b>	<b>2,244</b>	<b>715.2</b>	<b>2,543</b>	<b>747.6</b>	<b>3,234</b>	<b>860.6</b>

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, 2008

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
<b>Fall</b>	994	250.5	1,201	309.5	1,299	371.1	1,329	455.0	1,407	629.3	1,661	930.9	2,499	1,791.4	3,345	3,361.1	4,834	5,962.2
→ On same level	239	60.2	271	69.8	316	90.3	394	134.9	423	189.2	463	259.5	727	521.2	1,025	1,029.9	1,398	1,724.3
→ One level to another	430	108.3	478	123.2	504	144.0	386	132.2	380	170.0	396	221.9	548	392.8	655	658.2	885	1,091.6
→ Unspecified	325	81.9	452	116.5	479	136.8	549	188.0	604	270.2	802	449.5	1,224	877.4	1,665	1,673.0	2,551	3,146.4
<b>Poisoning</b>	655	165.0	593	152.8	341	97.4	240	82.2	166	74.2	127	71.2	139	99.6	130	130.6	108	133.2
→ Drug	570	143.6	509	131.2	290	82.8	212	72.6	133	59.5	100	56.0	119	85.3	109	109.5	89	109.8
→ Non-Drug	85	21.4	84	21.6	51	14.6	28	9.6	33	14.8	27	15.1	20	14.3	21	21.1	19	23.4
<b>Motor Vehicle Traffic</b>	575	144.9	488	125.7	389	111.1	333	114.0	214	95.7	217	121.6	192	137.6	213	214.0	158	194.9
→ MVT Occupant	306	77.1	257	66.2	233	66.6	189	64.7	142	63.5	159	89.1	150	107.5	173	173.8	126	155.4
→ MVT Motorcyclist	171	43.1	163	42.0	96	27.4	94	32.2	42	18.8	28	15.7	5	NA	5	NA	3	NA
→ MVT Pedal Cyclist	9	NA	10	2.6	7	NA	4	NA	2	NA	1	NA	2	NA	0	NA	1	NA
→ MVT Pedestrian	56	14.1	43	11.1	30	8.6	24	8.2	13	5.8	16	9.0	19	13.6	21	21.1	13	16.0
→ MVT Other	2	NA	3	NA	6	NA	0	NA	1	NA	2	NA	1	NA	0	NA	2	NA
→ MVT Unspecified	31	7.8	12	3.1	17	4.9	22	7.5	14	6.3	11	6.2	15	10.8	14	14.1	13	16.0
All Pedal Cyclist	46	11.6	58	14.9	45	12.9	30	10.3	19	8.5	15	8.4	7	NA	2	NA	2	NA
All Pedestrian	65	16.4	46	11.9	38	10.9	27	9.2	16	7.2	18	10.1	22	15.8	23	23.1	15	18.5
Other Transport	71	17.9	55	14.2	39	11.1	60	20.5	37	16.5	30	16.8	30	21.5	33	33.2	21	25.9
Firearm	19	4.8	19	4.9	12	3.4	5	NA	7	NA	5	NA	6	NA	3	NA	1	NA
Drowning	1	NA	0	NA	3	NA	1	NA	0	NA	1	NA	2	NA	3	NA	1	NA
Suffocation	40	10.1	55	14.2	57	16.3	54	18.5	57	25.5	71	39.8	114	81.7	110	110.5	116	143.1
Fire/Flames	40	10.1	31	8.0	29	8.3	25	8.6	27	12.1	17	9.5	14	10.0	11	11.1	10	12.3
Hot Object/Scald	38	9.6	33	8.5	32	9.1	24	8.2	18	8.1	14	7.8	17	12.2	11	11.1	30	37.0
Cut/Pierce	123	31.0	120	30.9	79	22.6	50	17.1	39	17.4	33	18.5	32	22.9	20	20.1	23	28.4
Struck By/Against	231	58.2	204	52.6	132	37.7	101	34.6	67	30.0	67	37.5	97	69.5	68	68.3	83	102.4
Machinery	56	14.1	44	11.3	46	13.1	35	12.0	29	13.0	20	11.2	16	11.5	11	11.1	12	14.8
Overexertion	91	22.9	88	22.7	68	19.4	73	25.0	50	22.4	57	31.9	51	36.6	54	54.3	57	70.3
Nat/Env. Causes	93	23.4	116	29.9	108	30.9	88	30.1	61	27.3	76	42.6	59	42.3	62	62.3	66	81.4
→ Bites and Stings	61	15.4	77	19.8	69	19.7	52	17.8	39	17.4	37	20.7	23	16.5	18	18.1	18	22.2
Other Spec./NEC	510	128.5	492	126.8	386	110.3	337	115.4	302	135.1	267	149.6	281	201.4	335	336.6	349	430.5
Unspecified	422	106.3	436	112.3	425	121.4	428	146.5	408	182.5	411	230.3	499	357.7	628	631.0	733	904.1
<b>Total: All Mechanisms</b>	<b>4,005</b>	<b>1,009.1</b>	<b>4,026</b>	<b>1,037.4</b>	<b>3,491</b>	<b>997.3</b>	<b>3,212</b>	<b>1,099.7</b>	<b>2,909</b>	<b>1,301.2</b>	<b>3,090</b>	<b>1,731.7</b>	<b>4,056</b>	<b>2,907.5</b>	<b>5,041</b>	<b>5,065.3</b>	<b>6,605</b>	<b>8,146.6</b>

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, 2008

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
<b>Fall</b>	147	50.6	137	45.8	116	36.4	138	36.5	179	50.1	200	68.1	234	76.8	329	97.3	478	126.6
→ On same level	7	NA	36	12.0	41	12.9	49	12.9	43	12.0	61	20.8	72	23.6	114	33.7	152	40.3
→ One level to another	105	36.1	78	26.1	48	15.1	54	14.3	75	21.0	70	23.8	93	30.5	98	29.0	139	36.8
→ Unspecified	35	12.0	23	7.7	27	8.5	35	9.2	61	17.1	69	23.5	69	22.6	117	34.6	187	49.5
<b>Poisoning</b>	66	22.7	11	3.7	64	20.1	510	134.7	635	177.6	634	215.7	495	162.5	604	178.7	737	195.2
→ Drug	56	19.3	7	NA	59	18.5	493	130.3	616	172.3	616	209.6	466	153.0	583	172.5	692	183.3
→ Non-Drug	10	3.4	4	NA	5	NA	17	4.5	19	5.3	18	6.1	29	9.5	21	6.2	45	11.9
<b>Motor Vehicle Traffic</b>	25	8.6	41	13.7	59	18.5	352	93.0	402	112.5	311	105.8	186	61.1	225	66.6	267	70.7
→ MVT Occupant	16	5.5	24	8.0	32	10.0	308	81.4	337	94.3	252	85.7	149	48.9	189	55.9	188	49.8
→ MVT Motorcyclist	0	NA	1	NA	3	NA	11	2.9	13	3.6	12	4.1	12	3.9	10	3.0	39	10.3
→ MVT Pedal Cyclist	0	NA	3	NA	7	NA	6	NA	9	NA	7	NA	3	NA	3	NA	6	NA
→ MVT Pedestrian	7	NA	11	3.7	16	5.0	21	5.5	16	4.5	17	5.8	11	3.6	14	4.1	14	3.7
→ MVT Other	2	NA	2	NA	1	NA	0	NA	2	NA	1	NA	0	NA	0	NA	1	NA
→ MVT Unspecified	0	NA	0	NA	0	NA	6	NA	25	7.0	22	7.5	11	3.6	9	NA	19	5.0
All Pedal Cyclist	0	NA	21	7.0	19	6.0	17	4.5	17	4.8	13	4.4	7	NA	7	NA	17	4.5
All Pedestrian	9	NA	14	4.7	20	6.3	23	6.1	18	5.0	18	6.1	14	4.6	14	4.1	16	4.2
Other Transport	2	NA	13	4.3	29	9.1	61	16.1	47	13.1	31	10.5	25	8.2	38	11.2	41	10.9
Firearm	0	NA	0	NA	3	NA	2	NA	8	NA	7	NA	2	NA	2	NA	2	NA
Drowning	6	NA	2	NA	1	NA	2	NA	0	NA								
Suffocation	15	5.2	4	NA	2	NA	10	2.6	10	2.8	13	4.4	1	NA	16	4.7	11	2.9
Fire/Flames	7	NA	5	NA	3	NA	7	NA	15	4.2	10	3.4	5	NA	5	NA	11	2.9
Hot Object/Scald	49	16.9	3	NA	3	NA	5	NA	4	NA	10	3.4	16	5.3	15	4.4	21	5.6
Cut/Pierce	7	NA	11	3.7	29	9.1	120	31.7	120	33.6	101	34.4	72	23.6	82	24.3	74	19.6
Struck By/Against	23	7.9	24	8.0	40	12.6	48	12.7	58	16.2	46	15.7	42	13.8	48	14.2	54	14.3
Machinery	2	NA	0	NA	2	NA	4	NA	1	NA	3	NA	0	NA	3	NA	7	NA
Overexertion	3	NA	2	NA	16	5.0	28	7.4	29	8.1	23	7.8	41	13.5	47	13.9	44	11.7
Nat/Env. Causes	54	18.6	29	9.7	21	6.6	33	8.7	29	8.1	47	16.0	49	16.1	60	17.7	90	23.8
→ Bites and Stings	41	14.1	26	8.7	13	4.1	26	6.9	23	6.4	42	14.3	42	13.8	54	16.0	76	20.1
Other Spec./NEC	64	22.0	29	9.7	39	12.2	78	20.6	122	34.1	134	45.6	121	39.7	180	53.2	195	51.6
Unspecified	60	20.7	16	5.3	30	9.4	61	16.1	90	25.2	98	33.3	95	31.2	125	37.0	184	48.7
<b>Total: All Mechanisms</b>	<b>532</b>	<b>183.1</b>	<b>348</b>	<b>116.3</b>	<b>473</b>	<b>148.5</b>	<b>1,472</b>	<b>388.9</b>	<b>1,759</b>	<b>492.1</b>	<b>1,675</b>	<b>569.9</b>	<b>1,391</b>	<b>456.6</b>	<b>1,783</b>	<b>527.4</b>	<b>2,229</b>	<b>590.4</b>

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, 2008

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
<b>Fall</b>	762	189.7	1,178	296.2	1,419	387.5	1,697	537.6	2,087	802.9	2,849	1,256.8	4,823	2,403.2	7,562	4,647.6	14,158	7,834.2
→ On same level	253	63.0	426	107.1	529	144.5	619	196.1	760	292.4	1,051	463.6	1,666	830.1	2,608	1,602.9	4,455	2,465.1
→ One level to another	226	56.3	339	85.2	368	100.5	412	130.5	486	187.0	581	256.3	927	461.9	1,278	785.5	2,239	1,238.9
→ Unspecified	283	70.5	413	103.8	522	142.6	666	211.0	841	323.6	1,217	536.8	2,230	1,111.2	3,676	2,259.2	7,464	4,130.1
<b>Poisoning</b>	791	196.9	646	162.4	401	109.5	297	94.1	213	81.9	176	77.6	218	108.6	184	113.1	198	109.6
→ Drug	743	185.0	603	151.6	361	98.6	267	84.6	196	75.4	160	70.6	186	92.7	152	93.4	172	95.2
→ Non-Drug	48	12.0	43	10.8	40	10.9	30	9.5	17	6.5	16	7.1	32	15.9	32	19.7	26	14.4
<b>Motor Vehicle Traffic</b>	291	72.4	305	76.7	246	67.2	236	74.8	221	85.0	192	84.7	220	109.6	269	165.3	200	110.7
→ MVT Occupant	227	56.5	227	57.1	194	53.0	180	57.0	181	69.6	154	67.9	188	93.7	220	135.2	172	95.2
→ MVT Motorcyclist	26	6.5	32	8.0	18	4.9	9	NA	5	NA	3	NA	1	NA	2	NA	0	NA
→ MVT Pedal Cyclist	3	NA	1	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA
→ MVT Pedestrian	13	3.2	22	5.5	15	4.1	26	8.2	21	8.1	24	10.6	13	6.5	29	17.8	18	10.0
→ MVT Other	4	NA	1	NA	0	NA	0	NA	1	NA	1	NA	1	NA	1	NA	2	NA
→ MVT Unspecified	18	4.5	22	5.5	19	5.2	21	6.7	13	5.0	10	4.4	17	8.5	17	10.4	8	NA
All Pedal Cyclist	17	4.2	12	3.0	21	5.7	10	3.2	6	NA	4	NA	3	NA	0	NA	0	NA
All Pedestrian	14	3.5	24	6.0	16	4.4	28	8.9	23	8.8	25	11.0	16	8.0	31	19.1	20	11.1
Other Transport	48	12.0	36	9.1	40	10.9	27	8.6	19	7.3	25	11.0	22	11.0	24	14.8	33	18.3
Firearm	5	NA	8	NA	0	NA	4	NA	3	NA	1	NA	0	NA	1	NA	0	NA
Drowning	0	NA	0	NA	0	NA	0	NA	1	NA	0	NA	0	NA	0	NA	0	NA
Suffocation	27	6.7	24	6.0	39	10.7	29	9.2	65	25.0	61	26.9	80	39.9	96	59.0	173	95.7
Fire/Flames	17	4.2	17	4.3	16	4.4	17	5.4	5	NA	12	5.3	9	NA	5	NA	13	7.2
Hot Object/Scald	25	6.2	18	4.5	14	3.8	16	5.1	18	6.9	14	6.2	20	10.0	22	13.5	30	16.6
Cut/Pierce	68	16.9	47	11.8	32	8.7	19	6.0	18	6.9	6	NA	11	5.5	12	7.4	21	11.6
Struck By/Against	59	14.7	58	14.6	50	13.7	45	14.3	35	13.5	44	19.4	79	39.4	123	75.6	224	123.9
Machinery	8	NA	2	NA	3	NA	4	NA	1	NA	5	NA	0	NA	2	NA	3	NA
Overexertion	72	17.9	68	17.1	57	15.6	83	26.3	87	33.5	98	43.2	114	56.8	192	118.0	177	97.9
Nat/Env. Causes	87	21.7	123	30.9	100	27.3	102	32.3	84	32.3	73	32.2	92	45.8	119	73.1	158	87.4
→ Bites and Stings	68	16.9	90	22.6	71	19.4	71	22.5	59	22.7	42	18.5	51	25.4	55	33.8	54	29.9
Other Spec./NEC	202	50.3	248	62.4	209	57.1	221	70.0	235	90.4	219	96.6	299	149.0	365	224.3	540	298.8
Unspecified	228	56.8	263	66.1	320	87.4	366	115.9	342	131.6	445	196.3	646	321.9	907	557.4	1,485	821.7
<b>Total: All Mechanisms</b>	<b>2,705</b>	<b>673.4</b>	<b>3,054</b>	<b>767.8</b>	<b>2,968</b>	<b>810.5</b>	<b>3,175</b>	<b>1,005.8</b>	<b>3,442</b>	<b>1,324.3</b>	<b>4,225</b>	<b>1,863.7</b>	<b>6,639</b>	<b>3,308.1</b>	<b>9,885</b>	<b>6,075.3</b>	<b>17,415</b>	<b>9,636.5</b>

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, 2008

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
<b>Fall</b>	76	146.8	51	99.1	60	108.4	64	103.7	67	110.3	75	146.1	66	149.6	92	218.5	103	244.1
→ On same level	9	NA	5	NA	29	52.4	20	32.4	11	18.1	15	29.2	16	36.3	18	42.7	17	40.3
→ One level to another	48	92.7	35	68.0	19	34.3	19	30.8	27	44.5	32	62.3	31	70.3	37	87.9	45	106.7
→ Unspecified	19	36.7	11	21.4	12	21.7	25	40.5	29	47.8	28	54.6	19	43.1	37	87.9	41	97.2
<b>Poisoning</b>	46	88.8	7	NA	7	NA	50	81.0	79	130.1	72	140.3	101	228.9	168	398.9	263	623.3
→ Drug	28	54.1	5	NA	5	NA	43	69.7	72	118.6	67	130.5	89	201.7	156	370.4	245	580.7
→ Non-Drug	18	34.8	2	NA	2	NA	7	NA	7	NA	5	NA	12	27.2	12	28.5	18	42.7
<b>Motor Vehicle Traffic</b>	21	40.6	53	103.0	42	75.9	95	153.9	118	194.3	102	198.7	82	185.8	67	159.1	78	184.9
→ MVT Occupant	8	NA	12	23.3	7	NA	52	84.2	78	128.5	55	107.2	44	99.7	31	73.6	35	83.0
→ MVT Motorcyclist	0	NA	0	NA	1	NA	13	21.1	20	32.9	32	62.3	16	36.3	21	49.9	16	37.9
→ MVT Pedal Cyclist	1	NA	5	NA	15	27.1	7	NA	5	NA	1	NA	6	NA	1	NA	5	NA
→ MVT Pedestrian	12	23.2	36	70.0	18	32.5	17	27.5	14	23.1	10	19.5	10	22.7	10	23.7	14	33.2
→ MVT Other	0	NA	0	NA	0	NA	4	NA	0	NA	0	NA	0	NA	0	NA	3	NA
→ MVT Unspecified	0	NA	0	NA	1	NA	2	NA	1	NA	4	NA	6	NA	4	NA	5	NA
All Pedal Cyclist	3	NA	16	31.1	32	57.8	15	24.3	12	19.8	2	NA	8	NA	2	NA	10	23.7
All Pedestrian	12	23.2	36	70.0	18	32.5	17	27.5	14	23.1	10	19.5	11	24.9	10	23.7	15	35.6
Other Transport	2	NA	2	NA	5	NA	9	NA	13	21.4	4	NA	3	NA	4	NA	10	23.7
Firearm	1	NA	0	NA	14	25.3	246	398.5	235	387.0	160	311.7	108	244.8	64	152.0	37	87.7
Drowning	1	NA	3	NA	1	NA	1	NA	0	NA								
Suffocation	3	NA	0	NA	3	NA	4	NA	2	NA	3	NA	1	NA	5	NA	3	NA
Fire/Flames	6	NA	1	NA	3	NA	2	NA	2	NA	7	NA	5	NA	8	NA	9	NA
Hot Object/Scald	48	92.7	4	NA	3	NA	4	NA	2	NA	8	NA	5	NA	4	NA	4	NA
Cut/Pierce	7	NA	9	NA	8	NA	47	76.1	76	125.2	61	118.9	56	126.9	40	95.0	54	128.0
Struck By/Against	9	NA	19	36.9	51	92.2	112	181.4	107	176.2	67	130.5	58	131.4	66	156.7	104	246.5
Machinery	0	NA	0	NA	1	NA	2	NA	1	NA	1	NA	3	NA	3	NA	3	NA
Overexertion	0	NA	2	NA	7	NA	14	22.7	8	NA	12	23.4	10	22.7	16	38.0	12	28.4
Nat/Env. Causes	19	36.7	10	19.4	7	NA	10	16.2	6	NA	4	NA	9	NA	7	NA	17	40.3
→ Bites and Stings	8	NA	9	NA	5	NA	7	NA	5	NA	3	NA	4	NA	3	NA	13	30.8
Other Spec./NEC	46	88.8	16	31.1	15	27.1	56	90.7	88	144.9	122	237.7	122	276.5	101	239.8	139	329.4
Unspecified	36	69.5	9	NA	9	NA	58	94.0	60	98.8	63	122.7	57	129.2	83	197.1	95	225.2
<b>Total: All Mechanisms</b>	<b>323</b>	<b>623.8</b>	<b>197</b>	<b>382.8</b>	<b>253</b>	<b>457.2</b>	<b>782</b>	<b>1,266.8</b>	<b>871</b>	<b>1,434.5</b>	<b>762</b>	<b>1,484.7</b>	<b>689</b>	<b>1,561.5</b>	<b>729</b>	<b>1,731.1</b>	<b>937</b>	<b>2,220.7</b>

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, 2008

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
<b>Fall</b>	209	512.3	200	560.7	214	745.4	173	796.5	145	971.4	146	1,231.4	121	1,396.7	127	2,056.7	121	2,194.8
→ On same level	41	100.5	36	100.9	57	198.5	38	175.0	36	241.2	36	303.6	31	357.8	32	518.2	32	580.4
→ One level to another	84	205.9	79	221.5	67	233.4	53	244.0	48	321.6	33	278.3	29	334.8	30	485.8	32	580.4
→ Unspecified	84	205.9	85	238.3	90	313.5	82	377.5	61	408.7	77	649.5	61	704.1	65	1,052.6	57	1,033.9
<b>Poisoning</b>	331	811.3	296	829.8	195	679.2	86	395.9	44	294.8	26	219.3	10	115.4	18	291.5	17	308.4
→ Drug	295	723.1	256	717.7	165	574.7	69	317.7	29	194.3	19	160.3	10	115.4	13	210.5	14	253.9
→ Non-Drug	36	88.2	40	112.1	30	104.5	17	78.3	15	100.5	7	NA	0	NA	5	NA	3	NA
<b>Motor Vehicle Traffic</b>	83	203.4	81	227.1	52	181.1	24	110.5	20	134.0	17	143.4	12	138.5	7	NA	6	NA
→ MVT Occupant	39	95.6	46	129.0	26	90.6	17	78.3	11	73.7	15	126.5	10	115.4	4	NA	4	NA
→ MVT Motorcyclist	5	NA	5	NA	4	NA	2	NA	2	NA	0	NA	0	NA	0	NA	0	NA
→ MVT Pedal Cyclist	7	NA	8	NA	6	NA	0	NA										
→ MVT Pedestrian	30	73.5	19	53.3	15	52.2	3	NA	7	NA	2	NA	1	NA	3	NA	2	NA
→ MVT Other	0	NA	1	NA	0	NA	1	NA	0	NA								
→ MVT Unspecified	2	NA	2	NA	1	NA	1	NA	0	NA	0	NA	1	NA	0	NA	0	NA
All Pedal Cyclist	15	36.8	18	50.5	11	38.3	2	NA	0	NA	1	NA	1	NA	0	NA	0	NA
All Pedestrian	32	78.4	19	53.3	16	55.7	3	NA	7	NA	2	NA	1	NA	4	NA	2	NA
Other Transport	1	NA	3	NA	2	NA	3	NA	1	NA	2	NA	0	NA	1	NA	1	NA
Firearm	20	49.0	16	44.9	8	NA	3	NA	2	NA	0	NA	2	NA	0	NA	2	NA
Drowning	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA
Suffocation	6	NA	8	NA	7	NA	16	73.7	3	NA	7	NA	8	NA	5	NA	3	NA
Fire/Flames	4	NA	11	30.8	7	NA	7	NA	4	NA	6	NA	2	NA	2	NA	0	NA
Hot Object/Scald	11	27.0	14	39.2	9	NA	8	NA	4	NA	3	NA	2	NA	0	NA	0	NA
Cut/Pierce	47	115.2	40	112.1	12	41.8	12	55.2	3	NA	3	NA	4	NA	1	NA	1	NA
Struck By/Against	102	250.0	67	187.8	52	181.1	24	110.5	16	107.2	5	NA	4	NA	2	NA	7	NA
Machinery	5	NA	4	NA	4	NA	1	NA	0	NA	0	NA	0	NA	1	NA	1	NA
Overexertion	22	53.9	12	33.6	4	NA	5	NA	6	NA	2	NA	1	NA	5	NA	2	NA
Nat/Env. Causes	23	56.4	34	95.3	21	73.1	18	82.9	23	154.1	14	118.1	10	115.4	6	NA	15	272.1
→ Bites and Stings	16	39.2	8	NA	4	NA	2	NA	0	NA								
Other Spec./NEC	118	289.2	101	283.2	80	278.7	67	308.5	36	241.2	27	227.7	21	242.4	24	388.7	18	326.5
Unspecified	123	301.5	119	333.6	81	282.1	61	280.8	48	321.6	42	354.3	45	519.5	41	664.0	41	743.7
<b>Total: All Mechanisms</b>	<b>1,115</b>	<b>2,732.9</b>	<b>1,016</b>	<b>2,848.3</b>	<b>754</b>	<b>2,626.4</b>	<b>510</b>	<b>2,348.1</b>	<b>355</b>	<b>2,378.2</b>	<b>301</b>	<b>2,538.8</b>	<b>243</b>	<b>2,805.0</b>	<b>241</b>	<b>3,902.8</b>	<b>235</b>	<b>4,262.7</b>

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, 2008

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																
<b>Fall</b>	58	115.0	30	60.3	31	58.0	32	53.0	54	90.7	56	110.4	70	151.7	64	138.2	92	192.1
→ On same level	4	NA	7	NA	10	18.7	8	NA	9	NA	17	33.5	20	43.3	20	43.2	33	68.9
→ One level to another	47	93.2	15	30.1	15	28.1	12	19.9	21	35.3	21	41.4	28	60.7	20	43.2	31	64.7
→ Unspecified	7	NA	8	NA	6	NA	12	19.9	24	40.3	18	35.5	22	47.7	24	51.8	28	58.5
<b>Poisoning</b>	31	61.5	7	NA	20	37.4	104	172.4	99	166.2	111	218.8	96	208.0	144	310.9	177	369.6
→ Drug	11	21.8	5	NA	14	26.2	96	159.1	94	157.8	107	211.0	91	197.2	134	289.3	170	355.0
→ Non-Drug	20	39.6	2	NA	6	NA	8	NA	5	NA	4	NA	5	NA	10	21.6	7	NA
<b>Motor Vehicle Traffic</b>	13	25.8	23	46.2	28	52.4	44	72.9	90	151.1	60	118.3	54	117.0	45	97.2	40	83.5
→ MVT Occupant	5	NA	3	NA	11	20.6	29	48.1	68	114.2	50	98.6	42	91.0	26	56.1	28	58.5
→ MVT Motorcyclist	0	NA	0	NA	1	NA	3	NA	2	NA	5	NA	1	NA	4	NA	0	NA
→ MVT Pedal Cyclist	0	NA	2	NA	1	NA	1	NA	0	NA	1	NA	0	NA	0	NA	0	NA
→ MVT Pedestrian	7	NA	18	36.2	15	28.1	10	16.6	13	21.8	4	NA	6	NA	12	25.9	8	NA
→ MVT Other	1	NA	0	NA	1	NA	0	NA										
→ MVT Unspecified	0	NA	0	NA	0	NA	1	NA	7	NA	0	NA	5	NA	2	NA	4	NA
All Pedal Cyclist	0	NA	5	NA	3	NA	2	NA	0	NA	2	NA	1	NA	1	NA	3	NA
All Pedestrian	7	NA	18	36.2	15	28.1	12	19.9	14	23.5	4	NA	6	NA	12	25.9	9	NA
Other Transport	1	NA	0	NA	0	NA	2	NA	1	NA	5	NA	1	NA	0	NA	0	NA
Firearm	0	NA	1	NA	1	NA	15	24.9	15	25.2	4	NA	6	NA	2	NA	8	NA
Drowning	3	NA	0	NA	3	NA	0	NA										
Suffocation	0	NA	2	NA	1	NA	0	NA	5	NA	2	NA	2	NA	0	NA	2	NA
Fire/Flames	4	NA	1	NA	0	NA	0	NA	3	NA	8	NA	3	NA	2	NA	5	NA
Hot Object/Scald	33	65.4	5	NA	5	NA	5	NA	3	NA	0	NA	3	NA	5	NA	5	NA
Cut/Pierce	3	NA	3	NA	6	NA	16	26.5	25	42.0	18	35.5	11	23.8	11	23.7	20	41.8
Struck By/Against	11	21.8	5	NA	8	NA	29	48.1	35	58.8	37	72.9	23	49.8	23	49.7	19	39.7
Machinery	0	NA																
Overexertion	0	NA	0	NA	4	NA	3	NA	6	NA	6	NA	2	NA	6	NA	11	23.0
Nat/Env. Causes	6	NA	13	26.1	4	NA	5	NA	7	NA	7	NA	6	NA	7	NA	9	NA
→ Bites and Stings	6	NA	13	26.1	0	NA	3	NA	7	NA	5	NA	4	NA	4	NA	3	NA
Other Spec./NEC	34	67.4	10	20.1	12	22.4	28	46.4	39	65.5	37	72.9	30	65.0	44	95.0	47	98.1
Unspecified	32	63.4	8	NA	11	20.6	18	29.8	31	52.0	24	47.3	39	84.5	47	101.5	57	119.0
<b>Total: All Mechanisms</b>	<b>229</b>	<b>453.9</b>	<b>111</b>	<b>223.0</b>	<b>136</b>	<b>254.4</b>	<b>304</b>	<b>503.8</b>	<b>414</b>	<b>695.1</b>	<b>376</b>	<b>741.3</b>	<b>347</b>	<b>752.0</b>	<b>401</b>	<b>865.8</b>	<b>496</b>	<b>1,035.8</b>

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, 2008

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																
<b>Fall</b>	142	298.8	167	385.2	190	517.3	178	608.7	171	799.1	193	1,039.1	266	1,743.9	318	2,603.8	488	3,733.5
→ On same level	44	92.6	61	140.7	43	117.1	40	136.8	47	219.6	56	301.5	67	439.3	99	810.6	150	1,147.6
→ One level to another	51	107.3	54	124.5	52	141.6	41	140.2	50	233.6	49	263.8	68	445.8	76	622.3	126	964.0
→ Unspecified	47	98.9	52	119.9	95	258.6	97	331.7	74	345.8	88	473.8	131	858.8	143	1,170.9	212	1,621.9
<b>Poisoning</b>	215	452.4	164	378.2	89	242.3	52	177.8	35	163.6	27	145.4	15	98.3	19	155.6	16	122.4
→ Drug	203	427.2	152	350.6	82	223.2	44	150.5	31	144.9	23	123.8	15	98.3	17	139.2	11	84.2
→ Non-Drug	12	25.3	12	27.7	7	NA	8	NA	4	NA	4	NA	0	NA	2	NA	5	NA
<b>Motor Vehicle Traffic</b>	37	77.9	45	103.8	34	92.6	18	61.6	17	79.4	18	96.9	10	65.6	7	NA	9	NA
→ MVT Occupant	22	46.3	22	50.7	19	51.7	15	51.3	13	60.7	15	80.8	5	NA	4	NA	6	NA
→ MVT Motorcyclist	3	NA	1	NA	1	NA	0	NA										
→ MVT Pedal Cyclist	0	NA																
→ MVT Pedestrian	7	NA	21	48.4	11	29.9	3	NA	3	NA	3	NA	2	NA	3	NA	2	NA
→ MVT Other	0	NA																
→ MVT Unspecified	5	NA	1	NA	3	NA	0	NA	1	NA	0	NA	3	NA	0	NA	1	NA
All Pedal Cyclist	3	NA	2	NA	0	NA												
All Pedestrian	7	NA	22	50.7	13	35.4	3	NA	3	NA	3	NA	2	NA	3	NA	2	NA
Other Transport	1	NA	3	NA	0	NA	0	NA	0	NA	3	NA	1	NA	1	NA	0	NA
Firearm	3	NA	4	NA	2	NA	0	NA	0	NA	1	NA	0	NA	0	NA	0	NA
Drowning	0	NA																
Suffocation	5	NA	7	NA	17	46.3	8	NA	7	NA	5	NA	0	NA	5	NA	12	91.8
Fire/Flames	5	NA	6	NA	6	NA	7	NA	3	NA	2	NA	2	NA	3	NA	3	NA
Hot Object/Scald	3	NA	7	NA	9	NA	3	NA	2	NA	4	NA	5	NA	1	NA	6	NA
Cut/Pierce	15	31.6	13	30.0	2	NA	7	NA	1	NA	2	NA	5	NA	1	NA	1	NA
Struck By/Against	28	58.9	20	46.1	9	NA	9	NA	8	NA	5	NA	2	NA	8	NA	6	NA
Machinery	0	NA																
Overexertion	6	NA	10	23.1	8	NA	5	NA	10	46.7	7	NA	4	NA	2	NA	11	84.2
Nat/Env. Causes	15	31.6	20	46.1	19	51.7	17	58.1	10	46.7	10	53.8	8	NA	12	98.3	25	191.3
→ Bites and Stings	7	NA	10	23.1	10	27.2	5	NA	4	NA	2	NA	0	NA	0	NA	0	NA
Other Spec./NEC	65	136.8	47	108.4	34	92.6	27	92.3	27	126.2	36	193.8	35	229.5	20	163.8	39	298.4
Unspecified	72	151.5	66	152.2	60	163.3	51	174.4	47	219.6	45	242.3	67	439.3	52	425.8	65	497.3
<b>Total: All Mechanisms</b>	<b>615</b>	<b>1,294.2</b>	<b>582</b>	<b>1,342.3</b>	<b>481</b>	<b>1,309.5</b>	<b>382</b>	<b>1,306.4</b>	<b>338</b>	<b>1,579.4</b>	<b>358</b>	<b>1,927.4</b>	<b>420</b>	<b>2,753.6</b>	<b>449</b>	<b>3,676.4</b>	<b>681</b>	<b>5,210.0</b>

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**

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### ***Data Source***

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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 2008 death certificates was March 1, 2009. Data pertaining to a 2008 death for which a certificate was filed after the March 1, 2009 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.

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### ***Data Quality***

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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.

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**Data Confidentiality**

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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.

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**Injury Cause Definitions**

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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

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## ***Leading Causes of Injury Death: ICD-10 Codes***

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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

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## **Source of Data**

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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](http://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.

<b>Include</b>	<b>Exclude</b>
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

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## **Data Confidentiality**

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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](http://www.phc4.org) for more information.

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## **Data Quality**

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The responsibility for hospital data quality testing and editing lies with PHC4. Please contact PHC4 at [www.phc4.org](http://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.

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## **Injury Cause Definitions**

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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 ‘ <i>Source of Data</i> ’ 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

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## ***Leading Causes of Injury Hospitalization: ICD-9-CM Codes***

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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

# POPULATION NUMBERS

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## Source of Data

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Population estimates for the years 2002-2006 used to compute rates were produced jointly by the United States Bureau of the Census and the State Data Center of the Pennsylvania State University at Harrisburg under the Federal-State Cooperative Program for Local Population Estimates. They are generated by a combination of a component procedure, which uses administrative records, and a regression method.

The population data used to develop this information is available via the Pennsylvania Department of Health's Epidemiologic Query and Mapping System (EpiQMS), which can be accessed through the Pennsylvania Department of Health, Bureau of Health Statistics and Research website at [www.health.state.pa.us/stats/](http://www.health.state.pa.us/stats/).

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## Urban/Rural Definitions

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Definitions of urban and rural used in this report are taken from the Center for Rural Pennsylvania, [www.rural.palegislature.us](http://www.rural.palegislature.us). Definitions are based on population density and are applied at the county level. If a county has a population density greater than 274 persons per square mile (the population density of Pennsylvania as of the 2000 Census), then the county is classified as urban. If a county has a population density less than 274 persons per square mile, then the county is classified as rural. The below map illustrates which counties are considered urban and rural based on this definition.

### PENNSYLVANIA COUNTIES BY URBAN AND RURAL STATUS



## CALCULATING AND COMPARING RATES

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### ***Definitions***

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#### *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

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## **Reliability of Rates**

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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*’.

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## **Calculating Average Annual Rates**

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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  $i^{\text{th}}$  year of the multi-year period

$p_i$  = population estimate (or Census count) in the  $i^{\text{th}}$  year of the multi-year period

$n$  = number of years in the multi-year period

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**Example: Calculating Average Annual Rates**

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Below is the data for deaths due to unintentional falls in Allegheny County for all persons age 80-84 for the years 2004-2006. 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.

$$\frac{\sum_{i=1}^3 k_i}{\sum_{i=1}^3 p_i} \times 100,000 = \frac{58}{102,056} \times 100,000 = 57 \text{ deaths per } 100,000 \text{ per year}$$

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## **Comparing Age-Adjusted Rates**

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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  $14.7 \pm 0.30$ . 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.

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**Example: Comparing Age-Adjusted Rates**

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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**

<b>County</b>	<b>Count</b>	<b>Rate</b>	<b>CI</b>
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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