Injury Deaths and Hospitalizations in Pennsylvania 2007-2011

pennsylvania
DEPARTMENT OF HEALTH

ACKNOWLEDGMENTS

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EXECUTIVE SUMMARY

INJURY IN PENNSYLVANIA

Injury is a serious public health problem in Pennsylvania and across the nation. Injuries can lead to premature death and disability and represent a significant financial burden to the health care system. In 2011, 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 2011, contributing to 6,062 deaths. Overall, unintentional injury death rates increased slightly by 4.9 percent from 2007 to 2011.

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 2007 to 2011, intentional injuries represented the second leading cause of death among Pennsylvanians under 20 years. Homicide by firearms was the leading cause of death among blacks, especially black males, over the five-year period, while suicide was the fourth leading cause of death among whites. Firearms were the most common mechanism of suicide and homicide in 2007 to 2011, especially among males.

Mortality statistics alone do not convey the full impact of injury. In 2011, Pennsylvania hospitals reported 139,900 discharges of residents with injury-related admissions, corresponding to an average of 383 persons per day. About half of all injury hospitalizations were to females age 65 and older, highlighting the prevalence of falls among the elderly. Total charges for hospitalized injury discharges in Pennsylvania in 2011 exceeded $7.80 billion. Slightly over half of these charges, about $4 billion, were billed to Medicare.

Every four minutes a Pennsylvania resident entered hospital care due to preventable injury in 2011. The leading causes of hospitalized injury were falls, poisonings and motor vehicle accidents. Over 87 percent of injuries were reported as unintentional. One group with very high injury hospitalization rates were persons age 85 and older. Overall, injury hospitalization rates decreased by 11 percent from 1,066.2 hospitalizations per 100,000 population in 2007 to 952.2 hospitalizations per 100,000 population in 2011.

2007-2011 COMBINED INJURY REPORT

This report describes Pennsylvania's injury burden from 2007 to 2011, using vital statistics from Pennsylvania Vital Records and Hospital Discharge Data (HDD) compiled by the Pennsylvania Health Care Cost Containment Council (PHC4).

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
2007-2011

INJURY DEATHS: ALL INJURIES

In 2011, among Pennsylvania residents, there were 8,618 deaths due to injury.
On average, one resident died every 61 minutes.

Injury Definition

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

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

Most injury deaths in Pa are unintentional.

HIGHLIGHTS

- Age-adjusted rates generally **increased** from 2007 to 2011.
- Most common demographic is **white males**, ages 45 to 54 and 85 and older.
- Of all Pennsylvania counties, **Cameron and Greene** had the highest rates.

Trends Over Time

- Age-adjusted injury death rates increased by 5 percent from 59.7 injury deaths per 100,000 population in 2007 to 62.6 injury deaths per 100,000 population in 2011.
- Males had significantly higher age-adjusted injury death rates than females from 2007 to 2011.
- Black males generally had significantly higher age-adjusted injury death rates than white males from 2007 to 2011.

Demographic Trends

- White males accounted for over half of all injury deaths in 2009 to 2013.
- Among males, blacks had significantly higher injury death rates for ages less than 75 than whites, while whites had higher rates for ages 75 and older.
- Among females, blacks had higher injury death rates for ages less than 25, while whites had significantly higher injury death rates for ages 75 and older.

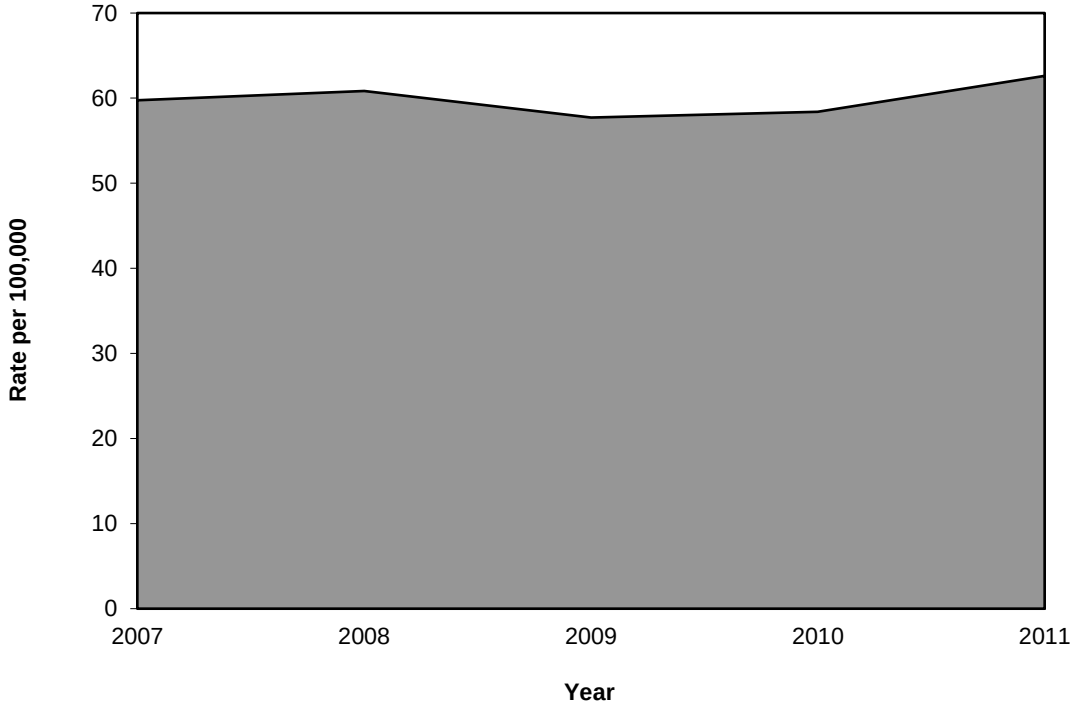
Regional Trends

- The Southwest Health District had the highest age-adjusted injury death rate while the North Central Health District had the lowest age-adjusted injury death rate. However, other districts had high rates for certain age groups.
- Fifteen counties had age-adjusted injury death rates for 2007 to 2011 that were significantly higher than the comparable state rate. Most of these were rural counties.

INJURY DEATHS: ALL INJURIES

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES
PENNSYLVANIA RESIDENTS, 2007-2011

Year	No.	Rate
2007	7,811	59.7
2008	8,061	60.9
2009	7,847	57.7
2010	8,001	58.4
2011	8,618	62.6



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2007-2011

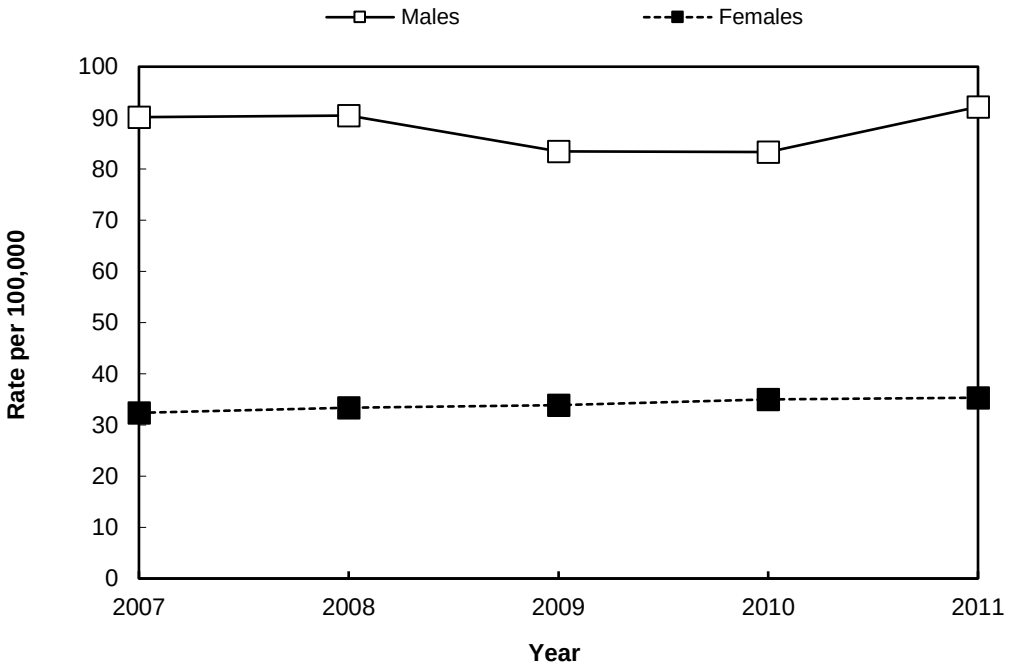
Year	Northwest	North Central	Northeast	Southeast	South Central	Southwest
2007	62.2	50.9	61.1	62.4	55.2	59.2
2008	61.9	52.5	62.7	60.6	57.6	63.8
2009	56.9	51.3	55.2	58.0	56.5	61.6
2010	59.7	50.9	54.1	58.1	57.3	63.7
2011	65.2	51.4	62.0	63.7	56.0	67.3

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2007-2011 based on ICD-9 codes. See Technical Notes.

INJURY DEATHS: ALL INJURIES

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES BY SEX
PENNSYLVANIA RESIDENTS, 2007-2011

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2007	5,408	90.2	2007	2,403	32.4
2008	5,524	90.5	2008	2,537	33.4
2009	5,221	83.5	2009	2,626	33.9
2010	5,272	83.3	2010	2,728	35.0
2011	5,875	92.2	2011	2,743	35.3



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2007-2011

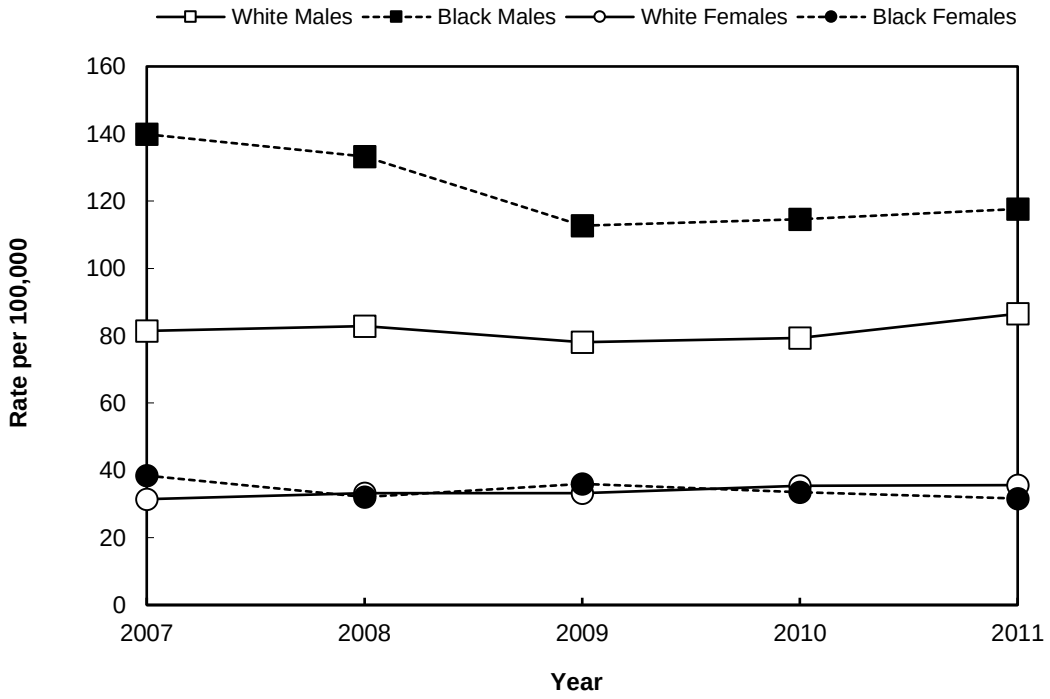
Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2007	90.8	88.5	2007	31.9	33.7
2008	90.3	90.8	2008	32.7	35.3
2009	82.8	85.4	2009	32.4	38.1
2010	82.7	85.0	2010	33.5	39.3
2011	92.4	91.8	2011	34.2	38.5

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: ALL INJURIES

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES BY SEX AND RACE OR ETHNICITY
PENNSYLVANIA RESIDENTS, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	4,270	863	2,075	262	226	41
2008	4,426	838	2,240	225	214	45
2009	4,268	724	2,299	254	170	45
2010	4,251	763	2,377	241	174	69
2011	4,758	802	2,418	235	215	61



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	81.5	139.8	31.4	38.4	92.2	15.5
2008	82.9	133.3	33.2	32.1	83.8	19.1
2009	78.1	112.7	33.2	35.9	62.0	16.5
2010	79.4	114.6	35.4	33.5	56.5	25.2
2011	86.5	117.6	35.6	31.6	65.0	21.0

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, 2007-2011

AGE	PA TOTAL		MALE		FEMALE			URBAN		RURAL		
GROUP	No.	Rate	No.	Rate	No.	Rate		No.	Rate	No.	Rate	
TOTAL	**40,339**	**64.1**	**27,301**	**89.2**	**13,037**	**40.4**		**28,856**	**63.1**	**11,483**	**66.7**	
< 5	355	9.7	215	11.5	139	7.8	*	256	9.3	99	10.8	*
5-9	153	4.0	88	4.6	65	3.5	*	106	3.8	47	4.8	*
10-14	265	6.7	183	9.0	82	4.2	*	158	5.4	107	10.2	*
15-19	2,053	44.8	1,529	66.0	524	23.2	*	1,455	44.0	598	46.9	
20-24	3,252	73.4	2,646	117.8	606	27.8	*	2,413	75.5	839	67.9	*
25-29	3,008	79.0	2,376	122.9	632	33.8	*	2,203	76.7	805	86.3	*
30-34	2,482	66.7	1,907	101.9	575	31.1	*	1,781	64.5	701	73.0	*
35-39	2,462	63.0	1,821	93.6	641	32.7	*	1,738	60.6	724	69.5	*
40-44	3,023	69.8	2,172	101.2	851	38.9	*	2,184	69.0	839	71.9	
45-49	3,584	77.3	2,501	109.5	1,083	46.1	*	2,611	77.4	973	77.0	
50-54	3,372	72.6	2,437	107.0	935	39.5	*	2,454	73.1	918	71.3	
55-59	2,511	59.8	1,822	89.3	689	32.0	*	1,839	61.3	672	56.3	*
60-64	1,801	50.6	1,318	77.3	483	26.0	*	1,269	50.4	532	51.0	
65-69	1,319	48.6	904	71.9	415	28.5	*	869	46.0	450	54.6	*
70-74	1,404	63.9	915	93.9	489	40.0	*	915	59.8	489	73.2	*
75-79	1,819	99.3	1,115	146.5	704	65.7	*	1,267	98.4	552	101.2	
80-84	2,525	172.1	1,364	243.0	1,161	128.2	*	1,760	168.8	765	180.3	
85 +	4,951	335.3	1,988	434.5	2,963	290.7	*	3,578	337.3	1,373	330.0	

* 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 INJURIES

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES
PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2007-2011

AGE	WHITE MALE		BLACK MALE			WHITE FEMALE		BLACK FEMALE			HISPANICS	
GROUP	No.	Rate	No.	Rate		No.	Rate	No.	Rate		No.	Rate
TOTAL	**21,973**	**84.7**	**3,991**	**122.3**		**11,409**	**41.9**	**1,217**	**33.9**		**1,260**	**38.6**
< 5	126	8.6	62	23.5	*	91	6.5	38	14.8	*	27	7.4
5-9	48	3.1	29	11.1	*	42	2.9	16	6.3	*	14	4.2
10-14	129	7.9	39	14.0	*	55	3.5	17	6.3	*	20	6.5
15-19	952	51.0	474	148.1	*	399	21.9	80	25.9	*	118	36.5
20-24	1,783	98.4	664	218.0	*	486	27.7	87	28.9		172	58.0
25-29	1,720	109.5	488	195.9	*	517	34.4	82	32.6		151	55.6
30-34	1,428	93.0	359	162.1	*	458	30.6	84	35.9		123	48.2
35-39	1,378	84.8	304	144.0	*	527	32.5	80	34.7		137	57.1
40-44	1,767	96.4	281	128.8	*	713	38.7	105	43.2		125	58.1
45-49	2,100	105.7	297	137.1	*	917	45.5	133	53.9		107	56.8
50-54	2,057	102.2	286	145.2	*	812	39.4	99	42.6		85	59.4
55-59	1,514	83.0	243	152.6	*	599	31.6	76	38.7	*	52	48.0
60-64	1,113	72.3	156	129.4	*	419	25.4	49	31.1	*	39	50.9
65-69	798	69.6	78	96.5	*	365	27.9	40	35.3		15	28.7
70-74	819	91.8	69	112.2	*	436	39.4	41	43.7		21	58.5
75-79	1,021	145.2	64	143.1		642	65.6	36	46.5	*	22	86.8
80-84	1,306	249.7	44	143.7	*	1,085	130.1	56	92.3	*	15	91.3
85 +	1,914	449.6	54	209.7	*	2,846	301.5	98	153.0	*	17	109.4

* 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. 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, 2007-2011

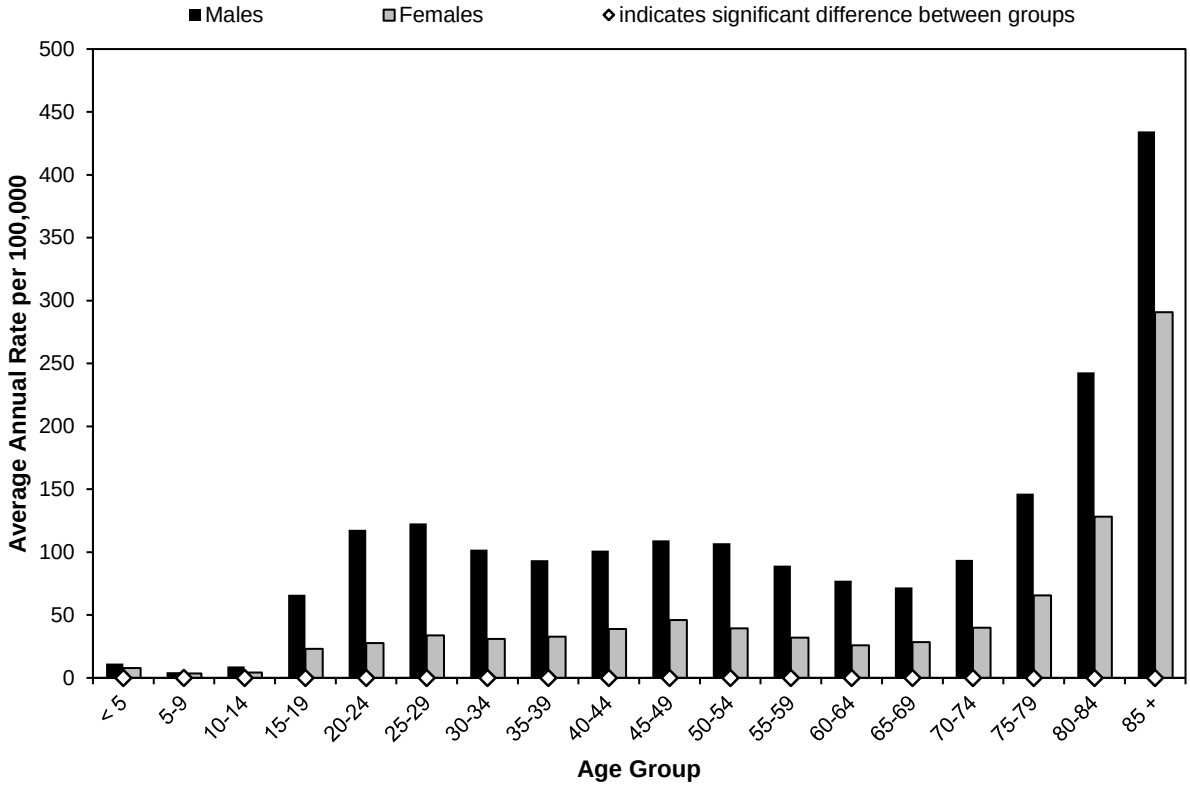
AGE	NORTHWEST			NORTH CENTRAL			NORTHEAST			SOUTHEAST			SOUTH CENTRAL			SOUTHWEST		
GROUP	No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate	
TOTAL	**3,059**	**66.1**		**1,893**	**54.9**		**4,991**	**63.2**		**15,976**	**63.5**		**4,953**	**59.9**		**9,467**	**63.9**	
< 5	36	14.2	+	19	10.7		38	8.8		142	8.8		61	12.3	+	59	8.4	
5-9	16	6.0	+	7	12.5		17	3.7		56	3.5	-	19	3.7		38	5.1	+
10-14	20	6.9		16	8.4		41	8.2	+	94	5.6	-	33	6.2		61	7.6	
15-19	154	44.7		96	31.5	-	242	42.2		865	46.7		287	50.1		409	44.0	
20-24	210	66.9		145	39.5	-	404	75.9		1,479	82.2	+	358	68.3		656	73.5	
25-29	208	80.1		129	69.2		372	83.1		1,320	80.4		317	64.4	-	662	85.2	
30-34	201	77.0		99	52.7	-	281	62.8		1,020	65.2		291	59.0	-	590	77.0	+
35-39	189	68.3		116	58.6		294	60.4		987	61.3		308	58.5		568	70.2	+
40-44	196	63.5		135	61.9		414	75.2		1,250	71.1		356	61.1	-	672	73.5	
45-49	244	72.8		145	61.5	-	464	78.3		1,509	81.6		383	62.0	-	839	83.4	
50-54	286	82.7	+	130	54.5	-	414	69.8		1,399	77.6	+	374	61.1	-	769	73.0	
55-59	166	51.9		128	57.9		302	56.1		1,019	64.3		296	52.6	-	600	61.9	
60-64	163	59.3		92	47.7		221	46.5		689	52.4		230	47.6		406	49.5	
65-69	118	54.6		74	47.4		171	46.6		473	48.1		181	48.2		302	49.0	
70-74	132	73.7		82	64.3		171	59.0		459	58.4		239	80.4	+	321	62.0	
75-79	151	101.4		112	108.3		232	97.6		591	89.9	-	262	108.9		471	105.9	
80-84	205	173.5		131	164.7		303	160.2		844	161.1		345	190.9		697	185.4	
85 +	364	314.0		237	305.0		610	324.3		1,780	330.0		613	348.7		1,347	354.5	

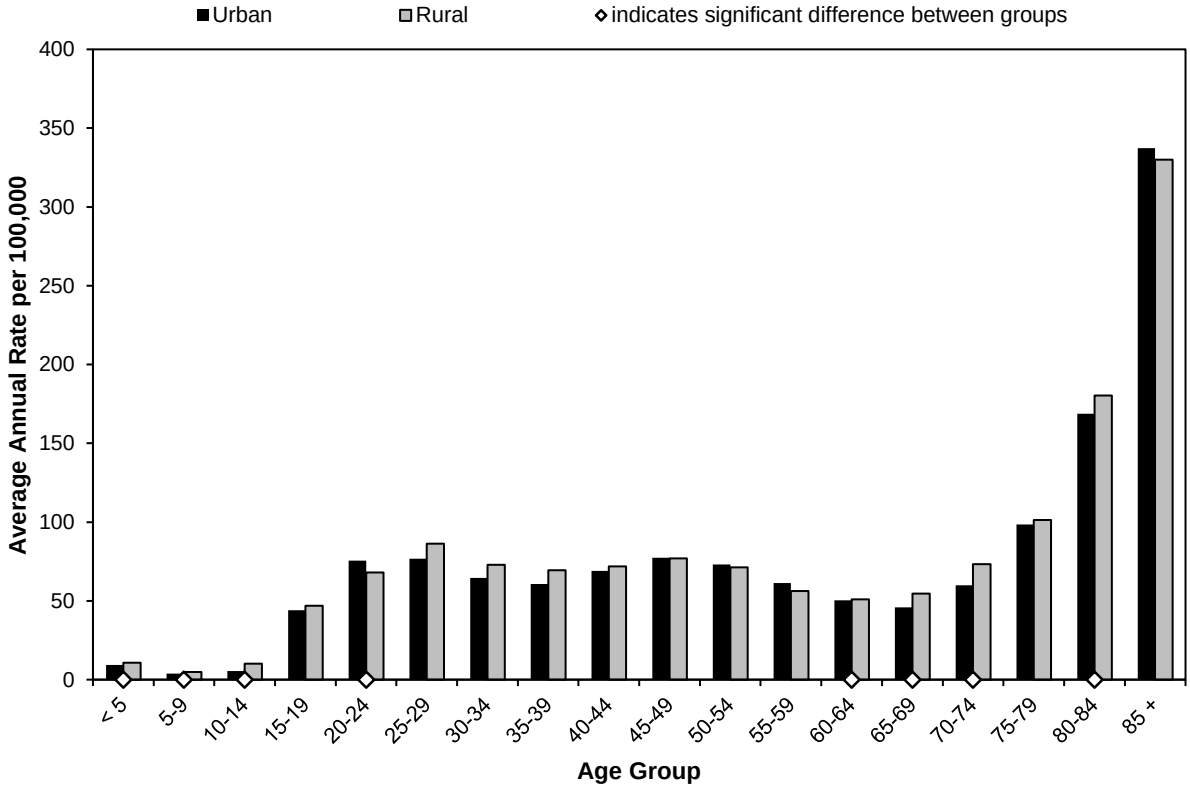
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

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 INJURIES

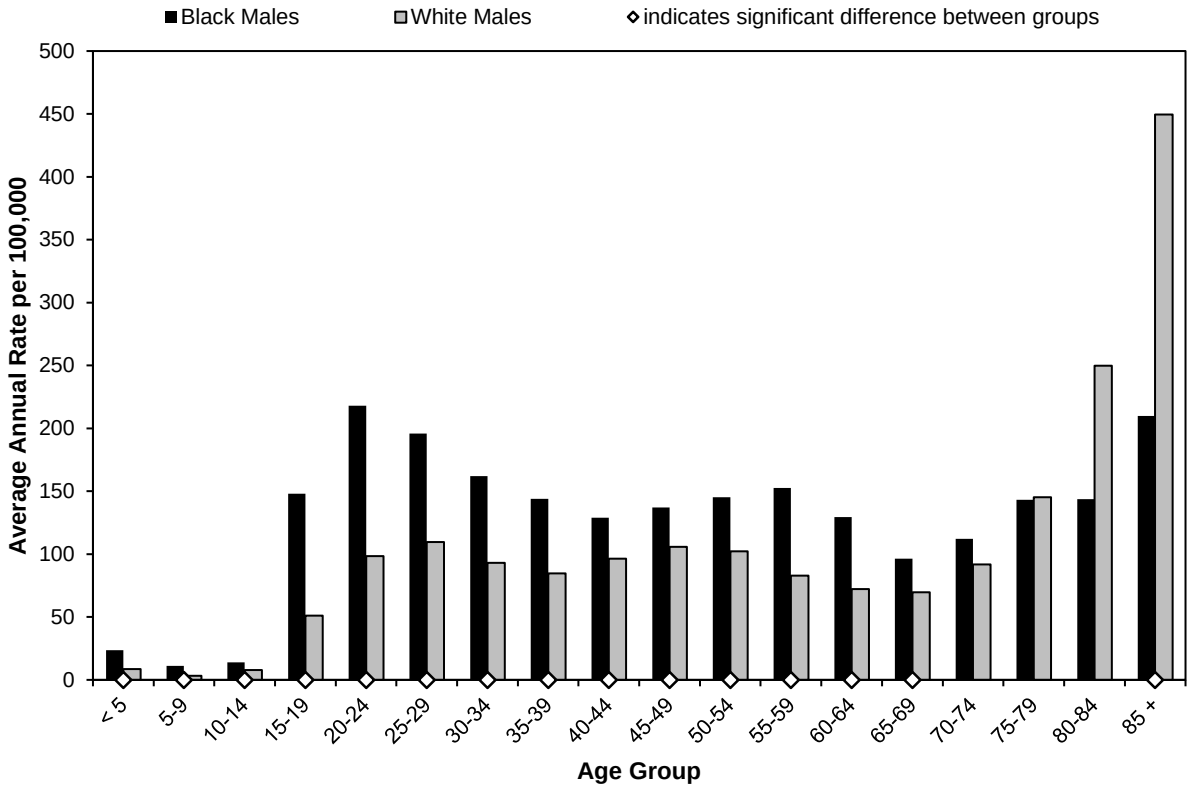
AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2007-2011

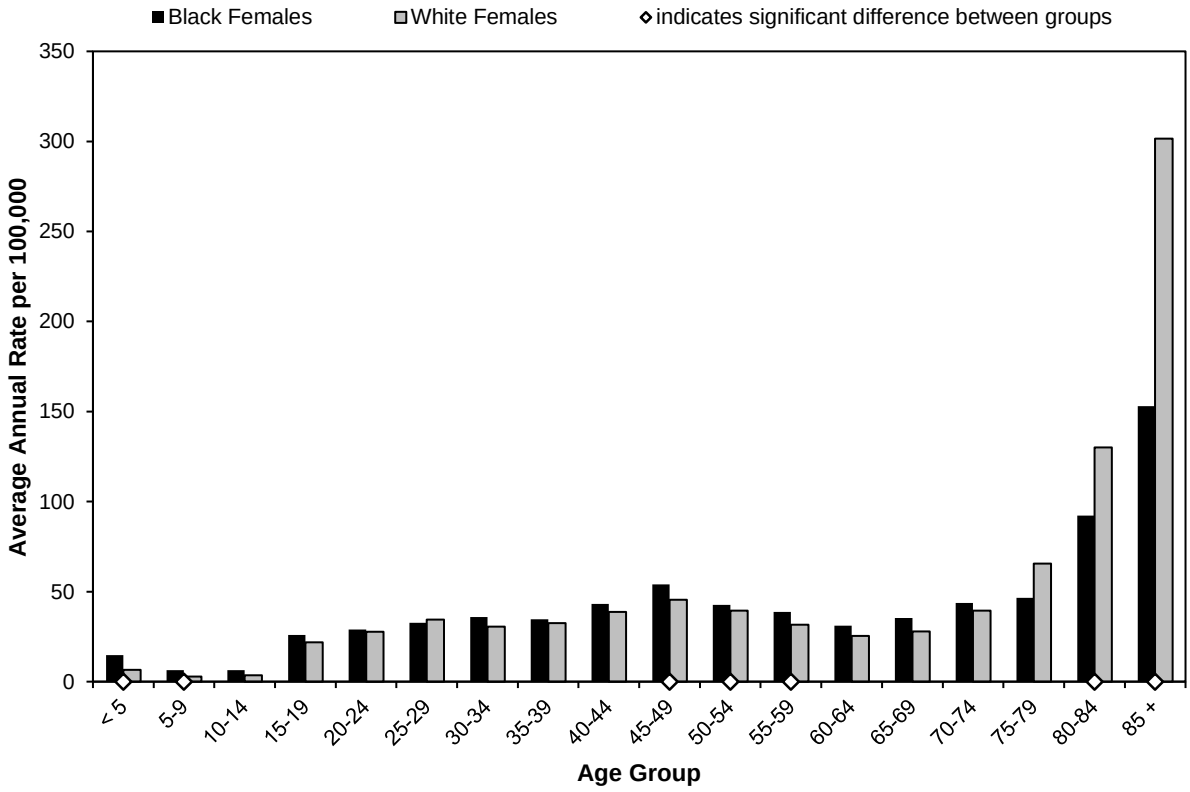




INJURY DEATHS: ALL INJURIES

AVERAGE ANNUAL DEATH RATES BY SEX AND RACE
PENNSYLVANIA RESIDENTS, 2007-2011





INJURY DEATHS: ALL INJURIES

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2007-2011

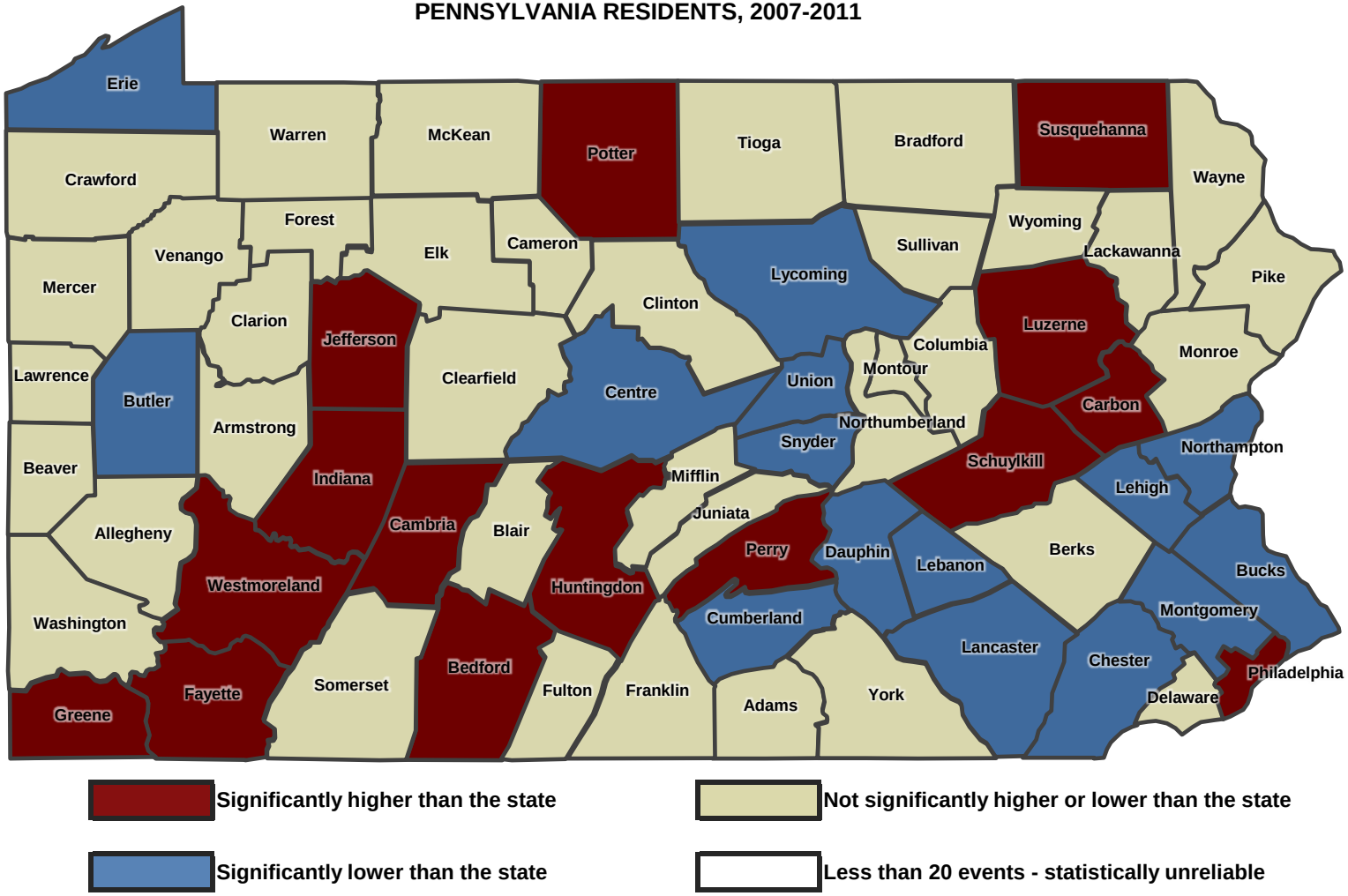
District/County	No.	Rate	CI (95%)		District/County	No.	Rate	CI (95%)	
Northeast	4,991	59.0	57.3-60.6		**Southeast**	15,976	60.5	58.9-62.2	
Carbon	250	71.9	63.0-80.8	+	Berks	1,242	57.9	54.7-61.1	
Lackawanna	713	61.6	57.1-66.2		Bucks	1,706	52.7	50.2-55.3	-
Lehigh	1,042	55.6	52.2-59.0	-	Chester	1,070	42.5	40.0-45.1	-
Luzerne	1,081	64.0	60.2-67.8	+	Delaware	1,863	62.8	59.9-65.6	
Monroe	514	62.0	56.7-67.4		Lancaster	1,346	49.8	47.1-52.5	-
Northampton	790	48.7	45.3-52.1	-	Montgomery	2,091	48.0	46.0-50.1	-
Pike	161	53.9	45.6-62.2		Philadelphia	6,083	79.1	77.1-81.1	+
Susquehanna	159	76.0	64.2-87.8	+	Schuylkill	575	71.4	65.6-77.2	+
Wayne	190	69.5	59.7-79.4						
Wyoming	91	65.2	51.8-78.6						
North Central	1,893	51.3	49.0-53.6	-	**South Central**	4,953	56.5	54.9-1.6	-
Bradford	210	65.4	56.6-74.3		Adams	300	57.7	51.2-64.3	
Centre	275	39.6	34.9-44.3	-	Bedford	193	74.9	64.3-85.5	+
Clinton	110	54.9	44.6-65.1		Blair	440	62.9	57.0-68.8	
Columbia	199	59.8	51.5-68.2		Cumberland	561	43.9	40.3-47.6	-
Lycoming	318	50.0	44.5-55.5	-	Dauphin	733	53.9	50.0-57.8	-
Montour	52	52.8	38.5-67.2		Franklin	436	55.5	50.3-60.7	
Northumberland	304	58.8	52.2-65.4		Fulton	64	78.9	59.5-98.2	
Potter	72	82.3	63.3-101.3	+	Huntingdon	175	72.4	61.7-83.1	+
Snyder	96	46.7	37.3-56.0	-	Juniata	88	70.7	55.9-85.4	
Sullivan	31	85.8	55.6-116.1		Lebanon	348	48.3	43.2-53.3	-
Tioga	125	56.8	46.9-66.8		Mifflin	153	60.5	50.9-70.1	
Union	101	41.5	33.4-49.6	-	Perry	162	73.8	62.4-85.1	+
					York	1,300	58.3	55.1-61.4	
Northwest	3,059	61.1	58.9-63.3		**Southwest**	9,467	63.0	61.8-64.3	+
Cameron	27	98.7	61.5-98.3		Allegheny	4,172	60.9	59.0-62.7	
Clarion	132	63.4	52.6-74.2		Armstrong	223	59.7	51.9-67.5	
Clearfield	297	65.2	57.8-72.6		Beaver	581	61.5	56.5-66.5	
Crawford	311	66.7	59.3-74.1		Butler	509	52.2	47.7-56.8	-
Elk	117	66.2	54.2-78.2		Cambria	605	74.3	68.4-80.2	+
Erie	798	54.0	50.3-57.7	-	Fayette	555	76.0	69.6-82.3	+
Forest	28	80.1	50.4-109.7		Greene	179	87.0	74.3-99.8	+
Jefferson	175	73.8	62.8-84.7	+	Indiana	326	70.3	62.7-78.0	+
Lawrence	300	60.2	53.4-67.0		Somerset	292	65.0	57.5-72.4	
McKean	127	55.1	45.5-64.6		Washington	689	61.5	56.9-66.1	
Mercer	397	61.8	55.7-67.9		Westmoreland	1,336	65.5	62.0-69.1	+
Venango	199	68.2	58.7-77.7						
Warren	151	70.0	58.8-81.1		Pennsylvania	40,339	59.8	59.3-60.4	

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

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

INJURY DEATHS: ALL INJURIES

AGE-ADJUSTED DEATH RATES BY COUNTY, WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE PENNSYLVANIA RESIDENTS, 2007-2011



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

INJURY DEATHS: ALL INJURIES

TOTAL NUMBER OF INJURY DEATHS AND AVERAGE ANNUAL DEATH RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2007-2011

Geography	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	27,301	13,037	**40,338**	3,280	20.5	8,712	72.9	9,148	71.0	7,487	60.4	11,712	120.9
Northeast	3,336	1,655	**4,991**	382	19.4	1,041	72.9	1,188	72.9	920	57.3	1,420	114.8
Carbon	172	78	250	10	14.1	58	100.7	53	79.1	68	98.1	61	108.8
Lackawanna	455	258	713	45	17.9	165	83.1	159	76.9	127	60.2	217	115.5
Lehigh	666	376	1,042	62	13.7	183	56.5	222	62.7	178	53.3	397	153.0
Luzerne	734	347	1,081	66	18.2	254	88.3	290	89.6	197	61.6	274	96.0
Monroe	361	153	514	49	21.3	110	75.1	139	75.4	100	58.5	116	111.6
Northampton	518	272	790	49	12.6	149	54.7	166	54.3	142	48.4	284	126.4
Pike	114	47	161	30	42.2	26	59.2	49	75.8	34	50.5	22	47.8
Susquehanna	113	46	159	28	56.5	37	111.9	44	105.9	16	32.7	34	94.2
Wayne	136	54	190	31	55.9	34	83.1	50	94.0	37	59.7	38	76.9
Wyoming	67	24	91	12	32.6	25	107.3	16	56.8	21	70.5	17	77.2
Southeast	11,079	4,896	**15,975**	1,157	17.2	3,819	76.3	3,746	71.8	3,107	66.0	4,147	118.8
Berks	855	386	1,241	83	14.7	244	65.4	285	67.0	238	62.1	392	134.0
Bucks	1,144	562	1,706	81	10.2	375	73.2	374	52.9	340	51.5	536	120.2
Chester	723	347	1,070	71	10.3	245	55.6	231	41.9	232	48.1	291	92.9
Delaware	1,268	595	1,863	112	15.0	434	81.0	422	74.1	384	71.7	511	128.8
Lancaster	898	448	1,346	134	18.7	258	53.4	265	52.8	233	49.6	456	120.2
Montgomery	1,304	787	2,091	99	9.9	376	53.6	433	50.0	386	49.7	797	134.7
Philadelphia	4,497	1,586	6,083	529	25.7	1,775	97.1	1,592	110.8	1,183	94.8	1,004	107.2
Schuylkill	390	185	575	48	29.7	112	85.5	144	89.3	111	74.4	160	119.3

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	27,301	13,037	**40,338**	3,280	20.5	8,712	72.9	9,148	71.0	7,487	60.4	11,712	120.9
North Central	1,269	624	**1,893**	241	28.1	372	50.2	392	60.1	326	50.0	562	103.3
Bradford	143	67	210	29	37.1	45	89.8	44	70.2	39	60.4	53	98.3
Centre	179	96	275	21	11.1	60	25.3	50	40.8	52	46.4	92	109.2
Clinton	74	36	110	19	37.9	22	58.3	31	90.1	13	36.2	25	79.6
Columbia	138	61	199	25	29.7	50	71.6	47	79.1	26	41.6	51	95.0
Lycoming	211	107	318	25	17.6	54	48.3	77	66.7	66	55.9	96	99.7
Montour	33	19	52	9	41.5	11	76.9	4	22.6	12	61.5	16	96.5
Northumberland	201	103	304	42	39.5	53	68.6	59	62.0	44	45.1	106	122.7
Potter	47	25	72	19	87.6	15	114.3	8	49.6	16	87.8	14	86.6
Snyder	64	32	96	18	34.6	17	43.4	16	42.5	9	24.5	36	125.1
Sullivan	20	11	31	8	114.6	8	185.8	4	73.6	11	155.7	0	0.0
Tioga	85	40	125	17	31.4	20	55.8	36	96.6	23	54.6	29	78.3
Union	74	27	101	9	17.6	17	33.4	16	33.2	15	39.1	44	136.7
South Central	3,294	1,659	**4,953**	492	23.3	960	63.6	1,057	61.2	851	51.3	1,593	125.5
Adams	212	88	300	43	32.5	70	77.1	72	67.5	32	31.7	83	108.7
Bedford	132	61	193	21	35.1	35	87.9	43	83.5	33	63.8	61	133.7
Blair	271	169	440	27	17.5	84	74.9	89	72.0	73	56.2	167	150.5
Cumberland	367	194	561	91	31.5	86	36.9	136	58.0	83	36.7	165	91.3
Dauphin	512	221	733	66	19.6	150	62.1	156	56.0	150	55.4	211	117.0
Franklin	276	160	436	39	20.2	87	67.0	83	57.1	67	47.7	160	131.0
Fulton	38	26	64	7	38.1	11	86.3	8	51.5	16	105.9	22	174.5
Huntingdon	115	60	175	28	53.4	40	89.3	28	57.8	23	50.1	56	152.6
Juniata	65	23	88	13	42.0	19	94.4	16	67.0	14	59.4	26	130.5
Lebanon	222	126	348	23	13.9	59	48.7	68	52.6	72	55.9	126	113.8
Mifflin	106	47	153	24	40.0	21	55.3	35	75.9	22	48.0	51	119.8
Perry	108	54	162	19	31.7	40	101.3	46	94.0	25	51.0	32	104.8
York	870	430	1,300	91	16.4	258	66.9	277	58.4	241	56.1	433	144.1

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	27,301	13,037	**40,338**	3,280	20.5	8,712	72.9	9,148	71.0	7,487	60.4	11,712	120.9
Northwest	2,064	995	**3,059**	378	32.7	612	73.3	669	72.7	554	58.9	846	108.7
Cameron	18	9	27	6	102.1	7	188.6	5	103.9	9	145.1	0	0.0
Clarion	99	33	132	23	45.0	21	52.7	39	107.3	13	33.7	36	107.1
Clearfield	206	91	297	16	17.9	65	88.8	56	62.1	54	63.9	106	146.5
Crawford	218	93	311	37	32.0	56	73.0	84	98.0	56	61.0	78	106.8
Elk	91	26	117	30	80.2	22	93.1	31	88.5	16	46.5	18	59.8
Erie	537	261	798	67	18.1	166	58.6	164	59.8	166	61.9	235	115.7
Forest	17	11	28	6	101.1	5	50.9	4	57.7	13	187.9	0	0.0
Jefferson	125	50	175	20	36.7	43	113.7	29	64.8	31	66.0	52	126.4
Lawrence	185	115	300	23	20.7	52	69.9	65	73.4	68	72.0	92	108.9
McKean	81	46	127	29	54.5	25	64.5	29	63.7	17	39.9	27	73.3
Mercer	259	138	397	53	36.0	76	77.3	95	84.0	63	53.3	110	104.2
Venango	124	75	199	36	54.0	42	96.1	44	82.1	26	42.8	51	105.4
Warren	104	47	151	32	66.4	32	100.7	24	58.1	22	47.5	41	107.8
Southwest	6,259	3,208	**9,467**	630	19.8	1,908	78.3	2,096	76.8	1,729	60.8	3,104	133.0
Allegheny	2,777	1,395	4,172	247	17.2	843	71.9	896	73.6	816	65.2	1,370	133.8
Armstrong	153	70	223	12	14.7	42	79.6	52	73.7	39	52.2	78	122.9
Beaver	397	184	581	39	19.7	128	90.4	108	62.2	113	60.5	193	122.2
Butler	328	181	509	39	16.3	109	69.3	105	53.3	99	52.9	157	114.1
Cambria	395	210	605	35	21.3	117	93.1	133	93.5	97	63.1	223	165.1
Fayette	379	176	555	36	22.2	133	112.9	151	103.8	76	49.4	159	127.7
Greene	112	67	179	23	51.7	46	121.3	39	94.3	35	83.5	36	121.0
Indiana	225	101	326	20	17.6	59	62.8	73	93.8	63	73.9	111	158.9
Somerset	198	94	292	33	39.5	59	87.2	54	66.1	37	45.1	109	150.1
Washington	444	245	689	77	31.3	144	80.3	180	86.4	94	42.5	194	107.6
Westmoreland	851	485	1,336	69	16.9	228	78.6	305	81.4	260	64.6	474	139.6

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

INJURY DEATHS: ALL INJURIES

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

BLACK POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	790	97.0	90.3-103.8
Chester	84	55.6	43.7-67.5
Dauphin	151	65.7	55.2-76.1
Delaware	335	62.6	55.9-69.4
Montgomery	151	42.7	35.9-49.6
Philadelphia	2,986	88.3	85.1-91.4
Pennsylvania	5,208	76.1	74.0-78.2

WHITE POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	3,303	55.2	53.3-57.1
Chester	940	41.6	38.9-44.2
Dauphin	540	49.2	45.0-53.3
Delaware	1,475	63.8	60.6-67.1
Montgomery	1,856	49.3	47.0-51.5
Philadelphia	2,424	66.2	63.5-68.8
Pennsylvania	33,383	56.7	56.1-57.3

HISPANIC POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Berks	127	47.5	39.2-55.7
Lancaster	68	35.1	26.7-43.4
Lehigh	119	60.4	49.6-71.3
Philadelphia	528	68.3	62.5-74.1
Pennsylvania	1,260	44.8	42.3-47.3

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

Select Counties		Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+	
County and Race		Cty. Pop.	Male	Female	All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Allegheny	Black	13.4%	600	190	**790**	18.9%	132	48.9	269	155.0	161	106.3	143	106.2	85	94.7
	White	82.4%	2,119	1,184	**3,303**	79.2%	106	9.9	542	58.5	720	70.8	661	60.5	1,274	138.6
Chester	Black	6.2%	61	23	**84**	7.9%	9	18.1	32	91.0	18	60.7	14	57.6	11	70.2
	White	88.3%	626	314	**940**	87.9%	57	9.6	187	49.6	208	42.8	214	48.2	274	94.3
Dauphin	Black	18.1%	110	41	**151**	20.6%	31	38.3	49	101.9	32	65.8	24	62.0	15	73.4
	White	75.8%	370	170	**540**	73.7%	31	13.9	92	52.3	110	51.4	117	52.6	190	121.6
Delaware	Black	19.2%	257	78	**335**	18.0%	53	29.5	126	97.9	71	64.0	51	67.3	34	84.0
	White	74.4%	968	507	**1,475**	79.2%	54	10.7	292	79.3	338	80.9	320	73.5	471	136.6
Montgomery	Black	8.8%	103	48	**151**	7.2%	26	25.8	36	47.6	44	55.0	28	48.0	17	50.8
	White	83.2%	1,140	716	**1,856**	88.8%	63	7.9	316	56.8	372	52.4	341	50.5	764	142.3
Philadelphia	Black	45.1%	2,314	672	**2,986**	49.1%	380	35.6	1,015	136.2	708	108.0	527	95.2	356	98.5
	White	45.3%	1,650	774	**2,424**	39.8%	71	9.4	536	61.7	693	107.4	544	90.7	580	109.5
Pennsylvania	Black	10.9%	3,991	1,217	**5,208**	12.9%	755	34.2	1,764	113.0	1,200	87.8	909	85.5	580	88.9
	White	84.5%	21,973	11,409	**33,382**	82.8%	1,843	14.5	6,392	66.1	7,402	67.8	6,514	59.3	11,232	126.7

INJURY DEATHS: UNINTENTIONAL FALLS

In 2011, among Pennsylvania residents, there were 1,429 deaths due to unintentional falls. On average, one resident died every six hours.

Injury Definition

Unintentional falls include:

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

The type of fall often varies by age and gender.

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

HIGHLIGHTS

- Age-adjusted rates generally **increased** from 2007 to 2011.
- Most common demographic is **whites** age **85 and older**.
- Of all Pennsylvania counties, **Huntingdon**, **Blair** and **Lehigh** had the highest rates of over 11.0.

Trends Over Time

- Age-adjusted death rates for unintentional falls increased by 9 percent from 7.6 deaths per 100,000 population in 2007 to 8.3 deaths per 100,000 population in 2011.
- Males had higher age-adjusted falls death rates than females during 2007 to 201 (rates were 11.5 and 6.0 for males and females, respectively, in 2011).

Demographic Trends

- Males had significantly higher falls death rates than females for all ages where rates could be calculated.
- White males and females had significantly higher falls death rates than black males and females for ages 80 and older from 2007 to 2011.
- Ages 80 and older accounted for over two-thirds of all falls deaths. While males had higher rates in this age group, females (especially white females) represent the majority of falls deaths in this age group.

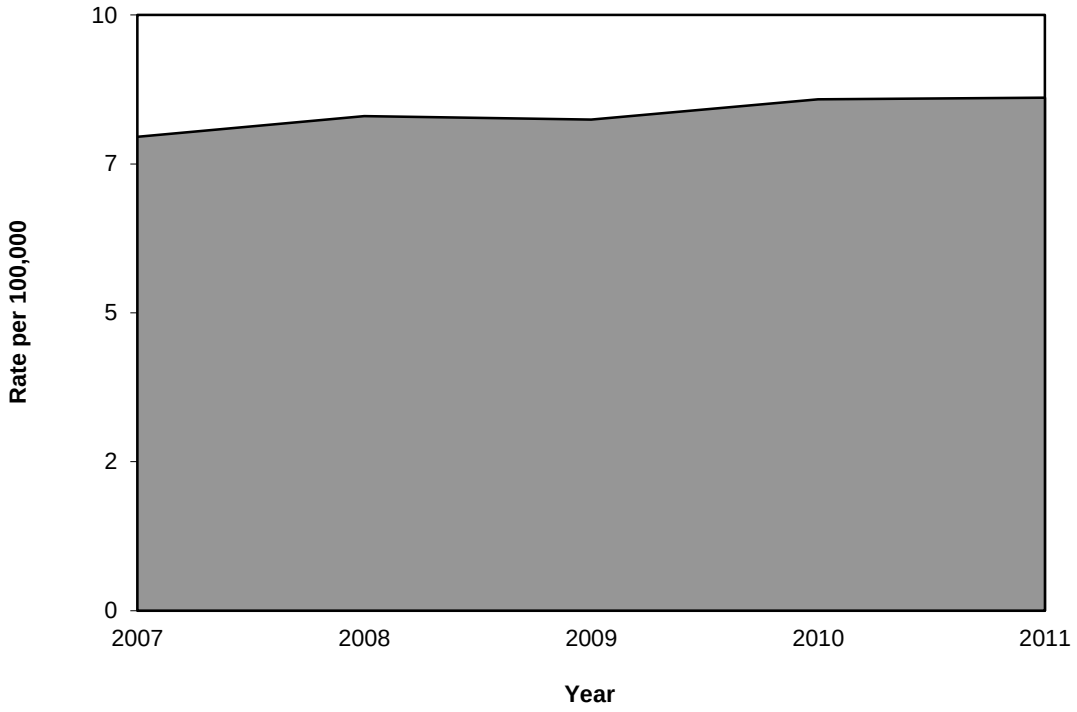
Regional Trends

- The Southwest Health District had the highest age-adjusted falls death rate, while the North Central Health District had the lowest rate.
- Ten counties had age-adjusted falls death rates for 2007 to 2011 that were significantly higher than the comparable state rate. Most of these were urban counties.

INJURY DEATHS: UNINTENTIONAL FALLS

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES
PENNSYLVANIA RESIDENTS, 2007-2011

Year	No.	Rate
2007	1,153	7.6
2008	1,266	8.0
2009	1,329	7.9
2010	1,401	8.2
2011	1,429	8.3



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2007-2011

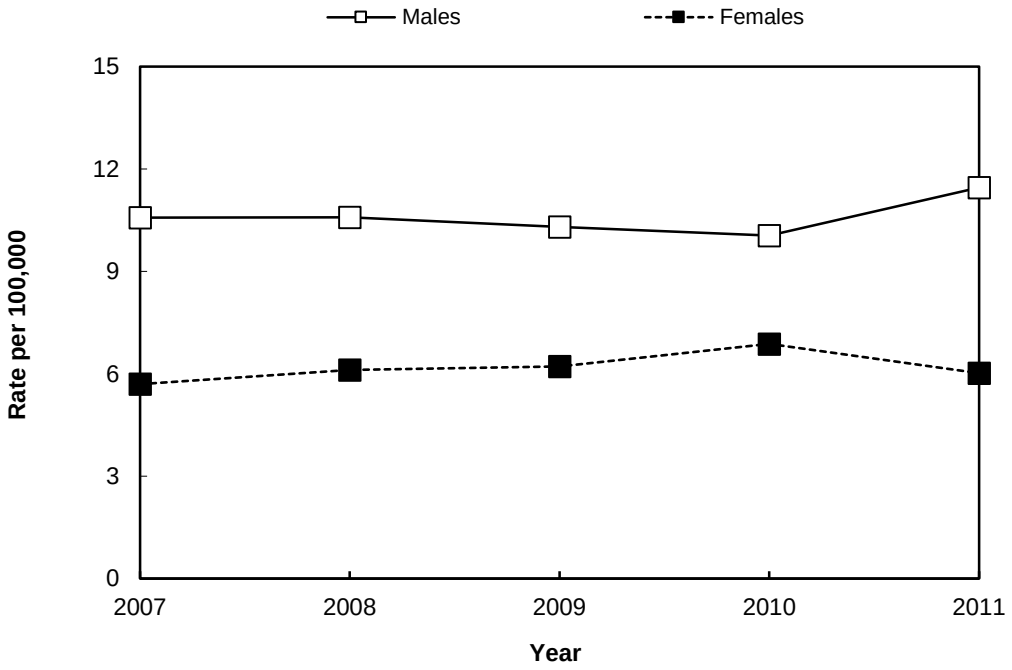
Year	Northwest	North Central	Northeast	Southeast	South Central	Southwest
2007	6.8	7.3	7.4	8.1	8.3	7.1
2008	6.0	7.4	7.7	7.2	8.6	9.7
2009	7.3	5.9	6.3	8.3	8.9	8.4
2010	7.4	5.7	6.8	8.0	8.7	10.0
2011	6.0	6.0	7.3	8.3	7.4	10.5

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2007-2011 based on ICD-9 codes. See Technical Notes.

INJURY DEATHS: UNINTENTIONAL FALLS

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES BY SEX
PENNSYLVANIA RESIDENTS, 2007-2011

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2007	598	10.6	2007	555	5.7
2008	641	10.6	2008	625	6.1
2009	660	10.3	2009	669	6.2
2010	654	10.1	2010	747	6.9
2011	762	11.5	2011	667	6.0



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2007-2011

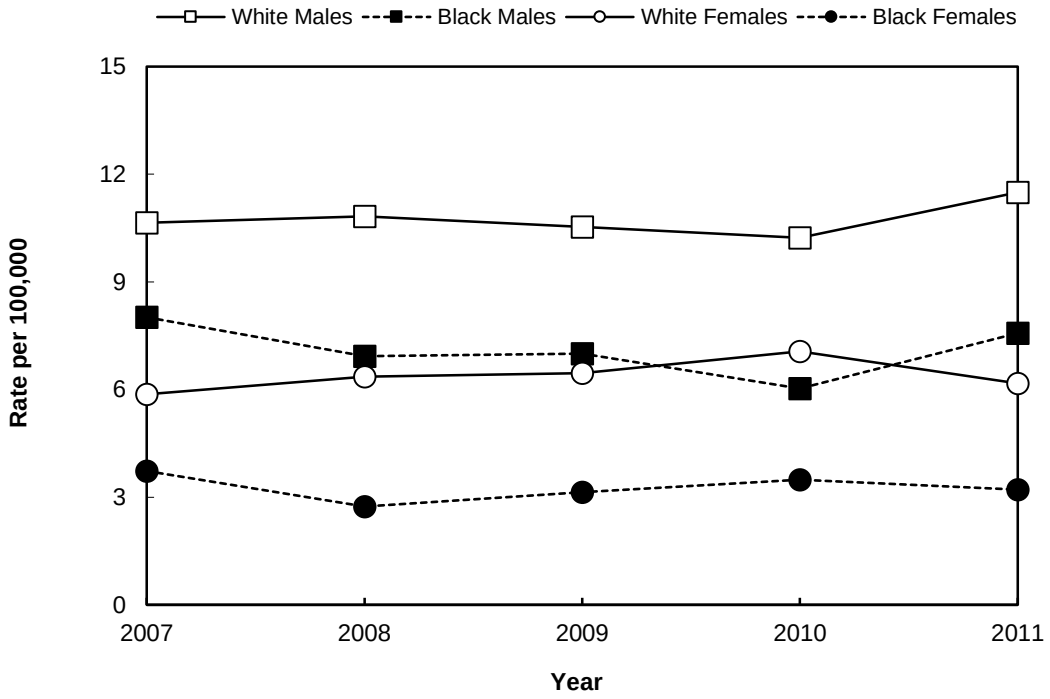
Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2007	11.3	8.8	2007	5.6	5.9
2008	10.7	10.2	2008	6.2	6.0
2009	10.4	10.0	2009	6.3	6.0
2010	10.4	9.3	2010	7.1	6.2
2011	12.0	10.2	2011	6.4	5.0

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: UNINTENTIONAL FALLS

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES BY SEX AND RACE OR ETHNICITY
PENNSYLVANIA RESIDENTS, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	549	32	528	25	14	1
2008	597	34	597	20	8	5
2009	617	31	641	22	6	3
2010	608	28	706	25	10	8
2011	701	35	633	24	11	4



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	10.7	8.0	5.9	3.7	NSR	NSR
2008	10.8	6.9	6.4	2.7	NSR	NSR
2009	10.5	7.0	6.5	3.1	NSR	NSR
2010	10.2	6.0	7.1	3.5	NSR	NSR
2011	11.5	7.6	6.2	3.2	NSR	NSR

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: UNINTENTIONAL FALLS

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES
PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2007-2011

AGE	PA TOTAL		MALE		FEMALE			URBAN		RURAL		
GROUP	No.	Rate	No.	Rate	No.	Rate		No.	Rate	No.	Rate	
TOTAL	**6,578**	**10.5**	**3,315**	**10.8**	**3,263**	**10.1**		**4,842**	**10.6**	**1,736**	**10.1**	
< 5	10	0.3	5	NSR	5	NSR		7	NSR	3	NSR	
5-9	4	NSR	1	NSR	3	NSR		3	NSR	1	NSR	
10-14	4	NSR	2	NSR	2	NSR		2	NSR	2	NSR	
15-19	16	0.3	12	0.5	4	NSR		15	0.5	1	NSR	
20-24	26	0.6	20	0.9	6	NSR		20	0.6	6	NSR	
25-29	36	0.9	29	1.5	7	NSR		27	0.9	9	NSR	
30-34	26	0.7	16	0.9	10	0.5	*	20	0.7	6	NSR	
35-39	40	1.0	33	1.7	7	NSR		26	0.9	14	1.3	*
40-44	77	1.8	59	2.7	18	0.8	*	55	1.7	22	1.9	
45-49	132	2.8	95	4.2	37	1.6	*	104	3.1	28	2.2	*
50-54	163	3.5	124	5.4	39	1.6	*	117	3.5	46	3.6	
55-59	240	5.7	177	8.7	63	2.9	*	186	6.2	54	4.5	*
60-64	268	7.5	180	10.6	88	4.7	*	187	7.4	81	7.8	
65-69	310	11.4	196	15.6	114	7.8	*	224	11.9	86	10.4	*
70-74	417	19.0	244	25.1	173	14.1	*	273	17.9	144	21.6	
75-79	748	40.8	422	55.5	326	30.4	*	545	42.3	203	37.2	
80-84	1,263	86.1	630	112.2	633	69.9	*	910	87.3	353	83.2	
85 +	2,798	189.5	1,070	233.9	1,728	169.5	*	2,121	200.0	677	162.7	*

* 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: UNINTENTIONAL FALLS

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES
PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2007-2011

AGE	WHITE MALE		BLACK MALE			WHITE FEMALE		BLACK FEMALE			HISPANICS	
GROUP	No.	Rate	No.	Rate		No.	Rate	No.	Rate		No.	Rate
TOTAL	**3,072**	**11.8**	**160**	**4.9**		**3,105**	**11.4**	**116**	**3.2**		**70**	**2.1**
< 5	4	NSR	0	NSR		0	NSR	2	NSR		3	NSR
5-9	0	NSR	1	NSR		3	NSR	0	NSR		0	NSR
10-14	2	NSR	0	NSR		2	NSR	0	NSR		0	NSR
15-19	11	0.6	0	NSR		4	NSR	0	NSR		0	NSR
20-24	18	1.0	0	NSR		4	NSR	2	NSR		2	NSR
25-29	22	1.4	4	NSR		4	NSR	3	NSR		2	NSR
30-34	15	1.0	1	NSR		6	NSR	4	NSR		0	NSR
35-39	23	1.4	8	NSR		5	NSR	2	NSR		2	NSR
40-44	51	2.8	3	NSR		17	0.9	1	NSR		3	NSR
45-49	80	4.0	8	NSR		30	1.5	5	NSR		6	NSR
50-54	104	5.2	15	7.6	*	34	1.7	4	NSR		4	NSR
55-59	145	7.9	27	17.0	*	55	2.9	8	NSR		5	NSR
60-64	156	10.1	16	13.3		82	5.0	6	NSR		8	NSR
65-69	181	15.8	9	NSR		109	8.3	5	NSR		1	NSR
70-74	224	25.1	14	22.8		157	14.2	12	12.8		8	NSR
75-79	394	56.0	12	26.8	*	305	31.2	9	NSR		11	43.4
80-84	608	116.2	17	55.5	*	607	72.8	17	28.0	*	6	NSR
85 +	1,034	242.9	25	97.1	*	1,681	178.1	36	56.2	*	9	NSR

* 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: UNINTENTIONAL FALLS

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES
PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2007-2011

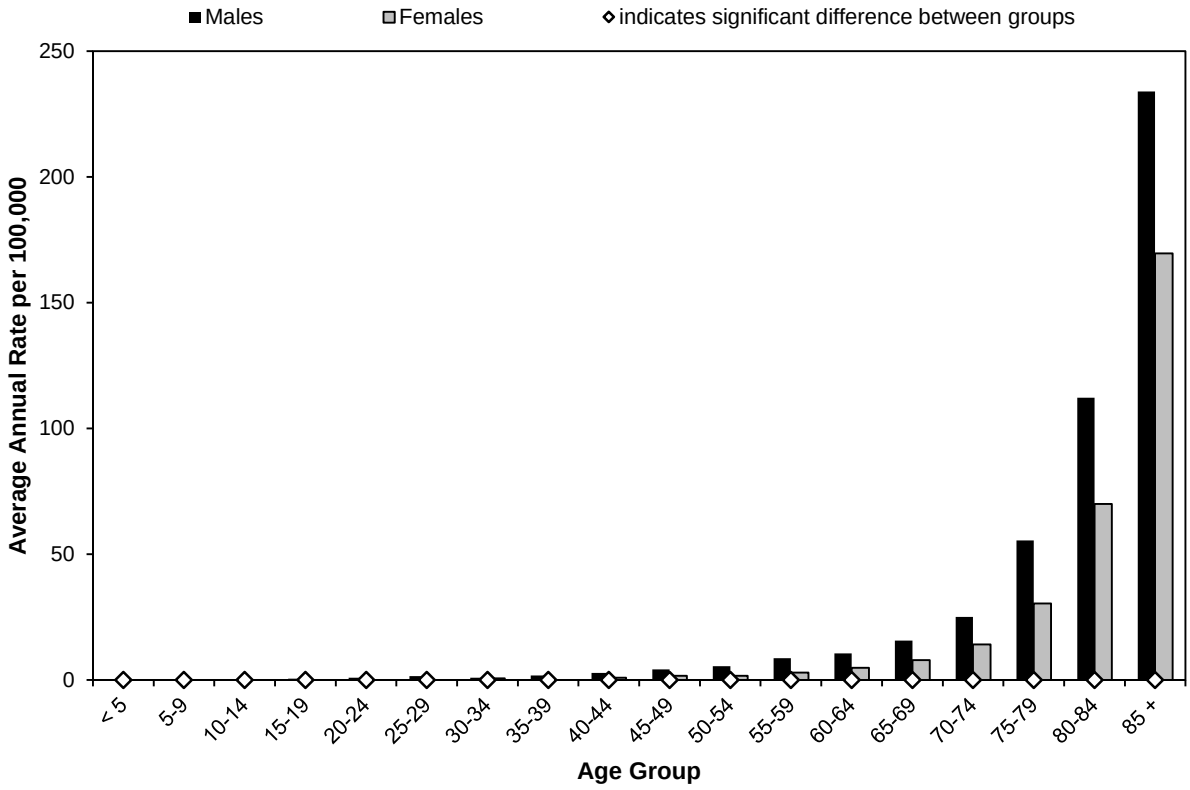
AGE	NORTHWEST			NORTH CENTRAL			NORTHEAST			SOUTHEAST			SOUTH CENTRAL			SOUTHWEST		
GROUP	No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate	
TOTAL	**425**	**9.2**		**281**	**8.2**		**748**	**9.5**		**2,423**	**9.6**		**852**	**10.3**		**1,849**	**13.7**	
< 5	0	NSR	-	2	NSR		2	NSR		3	NSR		3	NSR		0	NSR	-
5-9	1	NSR		0	NSR		0	NSR		2	NSR		0	NSR		1	NSR	
10-14	1	NSR		0	NSR		1	NSR		0	NSR		1	NSR		1	NSR	
15-19	1	NSR		0	NSR	-	1	NSR		7	NSR		3	NSR		4	NSR	
20-24	2	NSR		0	NSR	-	7	NSR		13	0.7		1	NSR		3	NSR	
25-29	3	NSR		2	NSR		2	NSR		15	0.9		6	NSR		8	NSR	
30-34	1	0.4		1	NSR		2	NSR		10	0.6		4	NSR		8	NSR	
35-39	1	0.4		5	NSR		2	NSR		13	0.8		8	NSR		11	1.4	
40-44	6	1.9		2	NSR		7	NSR		26	1.5		13	2.2		23	2.5	+
45-49	5	NSR		3	NSR		16	2.7		61	3.3		16	2.6		31	3.1	
50-54	12	3.5		7	NSR		26	4.4		66	3.7		15	2.5	-	37	3.5	
55-59	19	5.9		8	NSR		25	4.6	-	107	6.7		22	3.9	-	59	6.1	
60-64	15	5.5	-	18	9.3		36	7.6		98	7.4		36	7.4		65	7.9	
65-69	33	15.3	+	8	NSR		33	9.0	-	120	12.2		34	9.1	-	82	13.3	+
70-74	35	19.5		16	12.5		48	16.6		130	16.5		73	24.6	+	115	22.2	
75-79	60	40.3		36	34.8		84	35.4	-	244	37.1		114	47.4		210	47.2	
80-84	84	71.1	-	63	79.2		154	81.4		428	81.7		168	92.9		366	97.4	
85 +	146	126.0	-	110	141.6		302	160.5	-	1,080	200.2		335	190.6		825	217.1	+

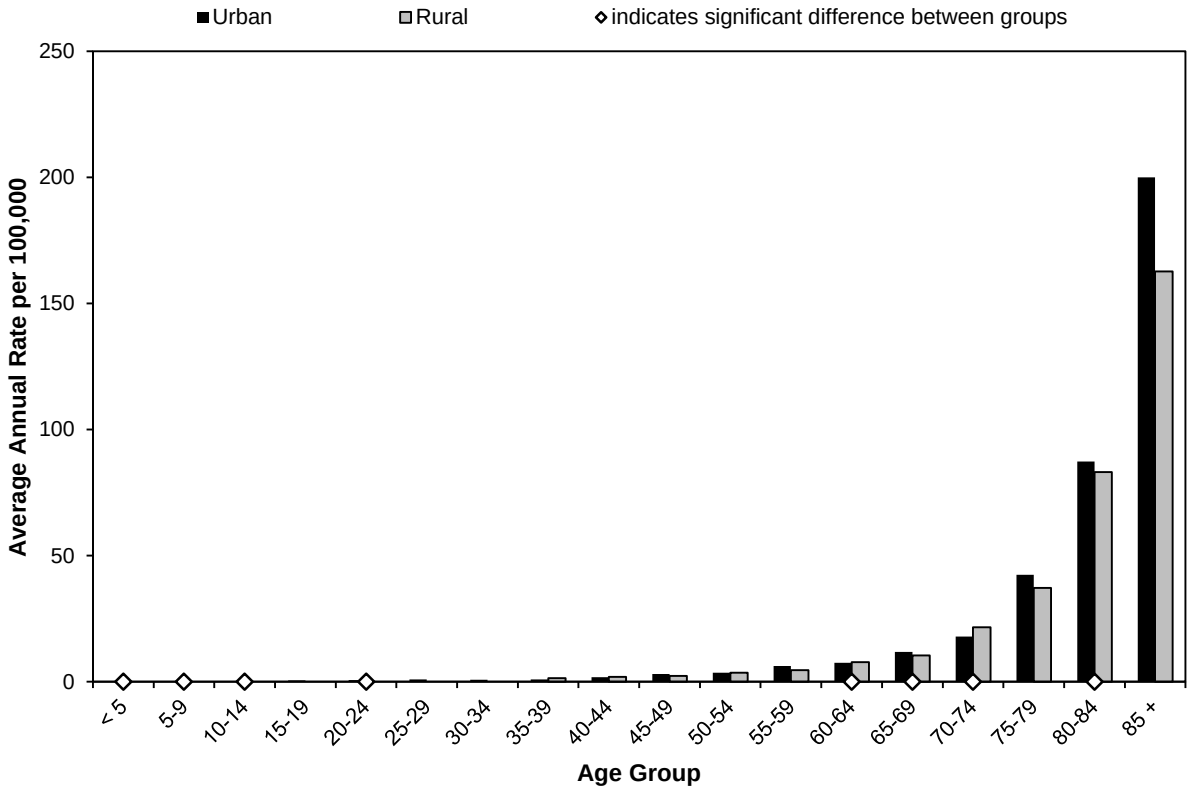
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

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

INJURY DEATHS: UNINTENTIONAL FALLS

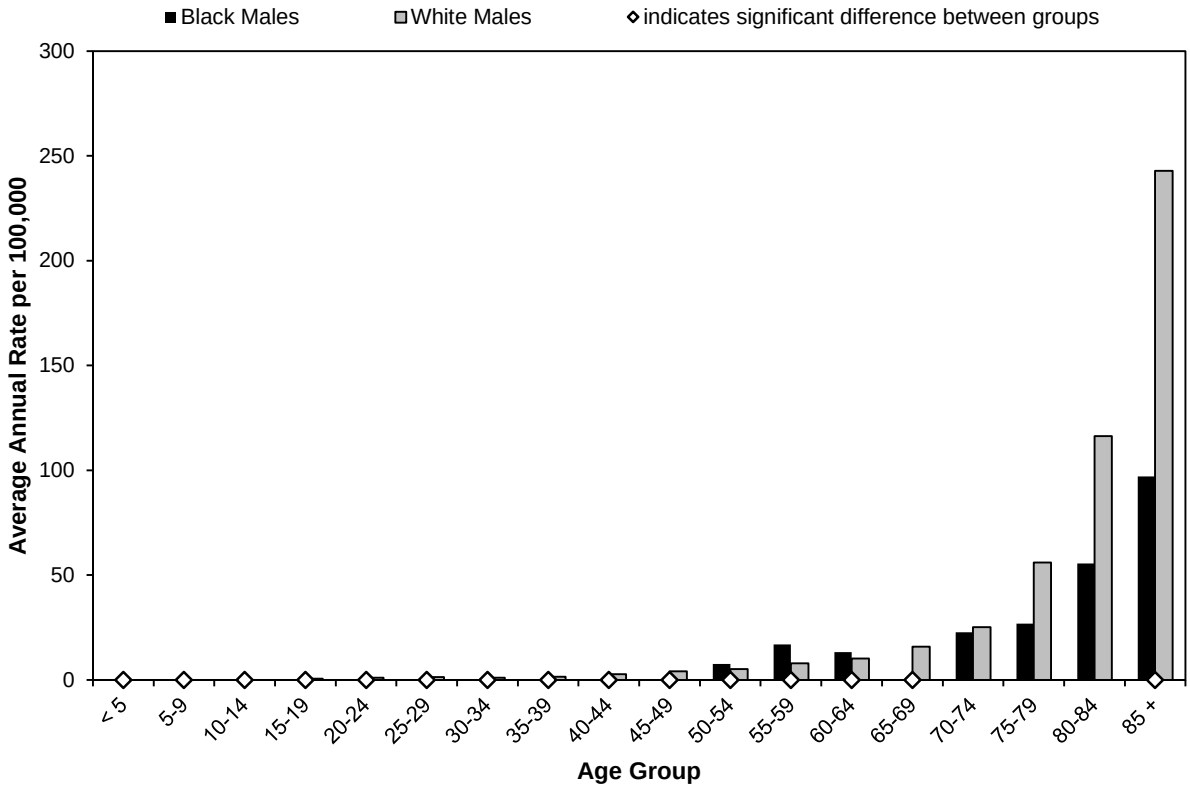
AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2007-2011

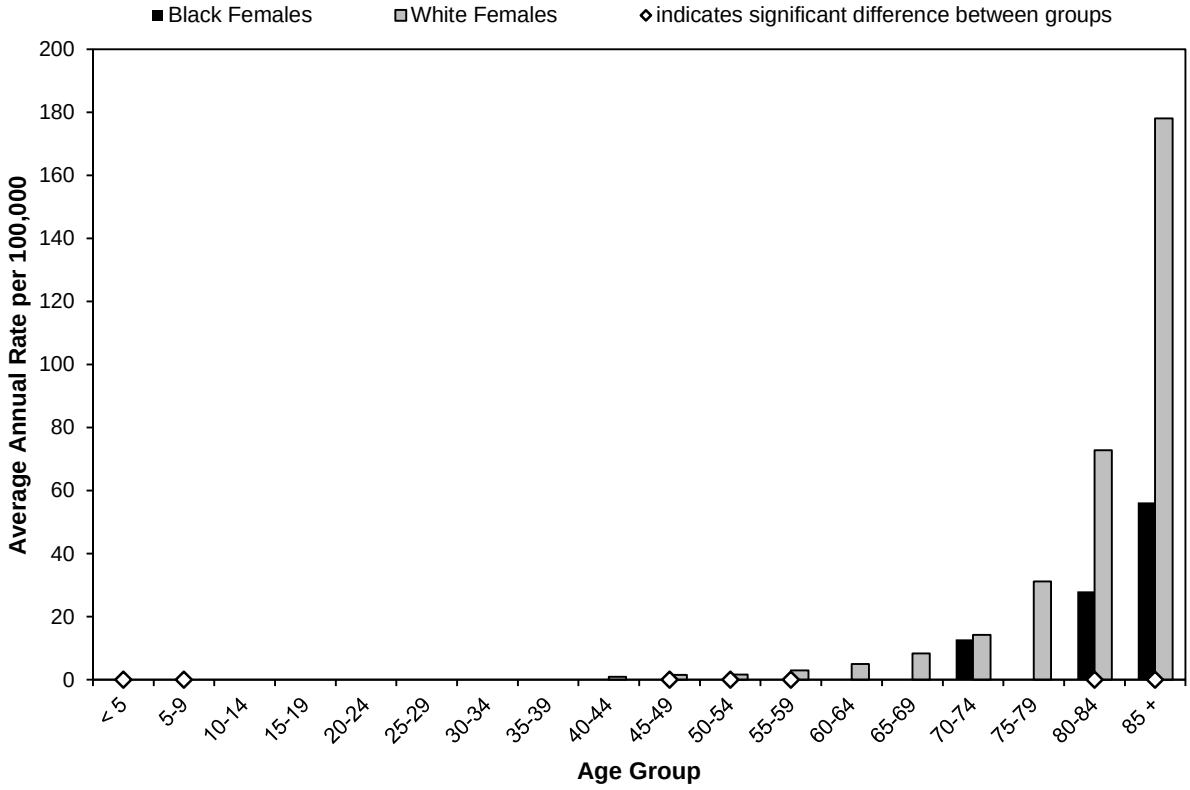




INJURY DEATHS: UNINTENTIONAL FALLS

AVERAGE ANNUAL DEATH RATES BY SEX AND RACE
PENNSYLVANIA RESIDENTS, 2007-2011





INJURY DEATHS: UNINTENTIONAL FALLS

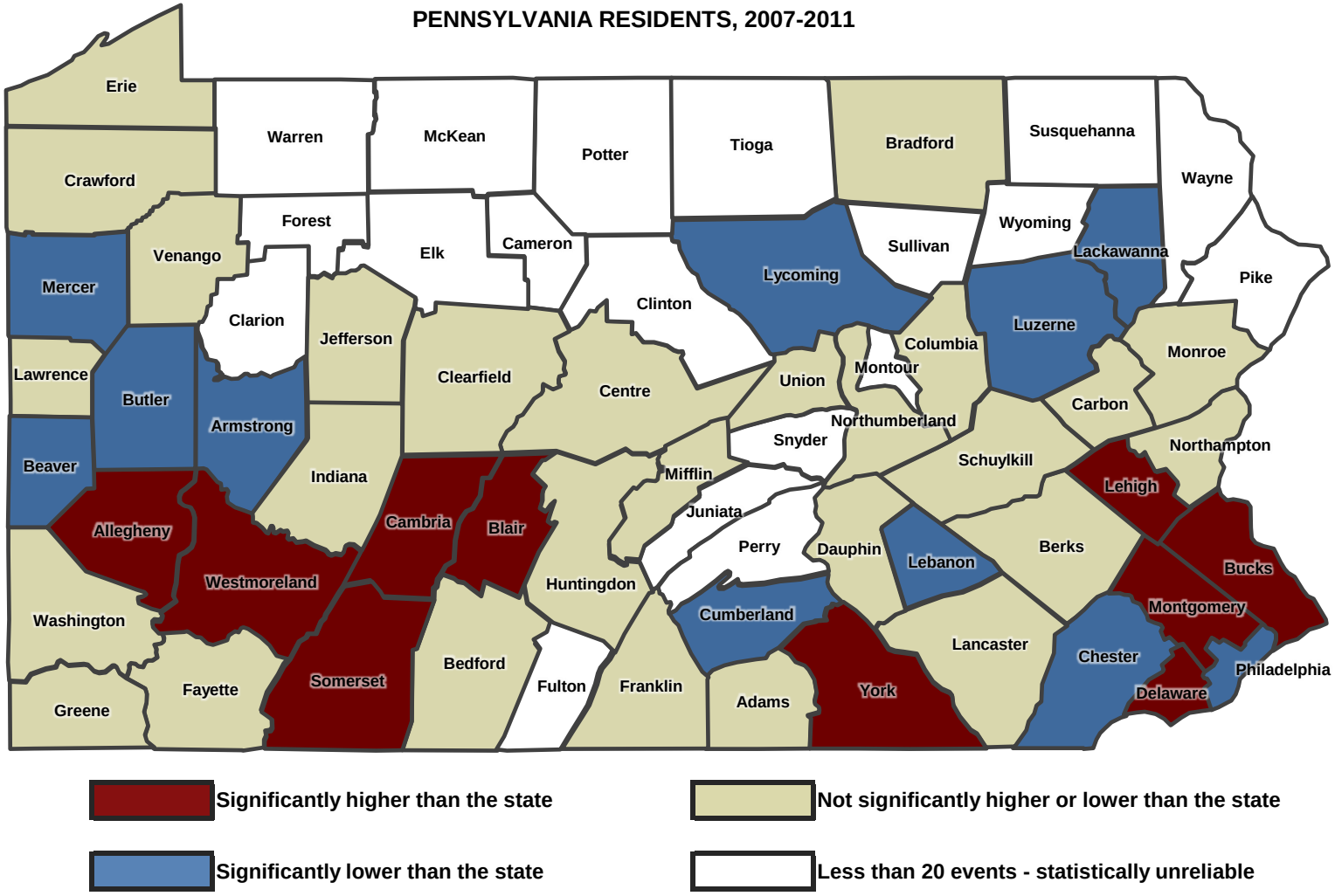
NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2007-2011

District/County	No.	Rate	CI (95%)		District/County	No.	Rate	CI (95%)	
Northeast	748	7.1	6.6-7.6	-	**Southeast**	2,423	8.0	7.7-8.3	
Carbon	36	8.1	5.5-10.7		Berks	220	8.8	7.6-9.9	
Lackawanna	90	5.7	4.5-6.9	-	Bucks	335	9.3	8.3-10.3	+
Lehigh	247	11.1	9.7-12.5	+	Chester	155	6.0	5.1-7.0	-
Luzerne	108	4.9	3.9-5.8	-	Delaware	342	9.5	8.5-10.5	+
Monroe	60	7.6	5.7-9.5		Lancaster	235	7.5	6.5-8.5	
Northampton	162	8.1	6.9-9.4		Montgomery	513	9.7	8.9-10.6	+
Pike	14	NSR			Philadelphia	520	6.3	5.7-6.8	-
Susquehanna	11	NSR			Schuylkill	103	9.6	7.8-11.5	
Wayne	12	NSR							
Wyoming	8	NSR							
North Central	281	6.4	5.7-7.1	-	**South Central**	852	8.4	7.8-8.9	
Bradford	25	6.5	3.9-9.0		Adams	43	7.1	5.0-9.3	
Centre	49	7.3	5.3-9.3		Bedford	27	7.5	4.7-10.4	
Clinton	18	NSR			Blair	104	11.4	9.2-13.6	+
Columbia	30	6.8	4.4-9.3		Cumberland	91	6.4	5.0-7.7	-
Lycoming	28	3.6	2.3-5.0	-	Dauphin	103	6.7	5.4-8.0	
Montour	13	NSR			Franklin	85	8.6	6.8-10.4	
Northumberland	59	8.2	6.1-10.4		Fulton	5	NSR		
Potter	11	NSR			Huntingdon	32	11.4	7.5-15.4	
Snyder	16	NSR			Juniata	15	NSR		
Sullivan	1	NSR			Lebanon	44	4.9	3.5-6.4	-
Tioga	10	NSR			Mifflin	29	8.5	5.4-11.6	
Union	21	8.1	4.6-11.6		Perry	11	NSR		
					York	263	11.0	9.6-12.3	+
Northwest	425	6.7	6.0-7.3	-	**Southwest**	1,849	9.1	8.7-9.5	+
Cameron	4	NSR			Allegheny	898	9.8	9.1-10.4	+
Clarion	11	NSR			Armstrong	29	5.5	3.5-7.5	-
Clearfield	40	6.7	4.6-8.8		Beaver	86	6.5	5.1-7.9	-
Crawford	36	6.3	4.3-8.4		Butler	70	6.2	4.7-7.6	-
Elk	15	NSR			Cambria	125	10.3	8.5-12.1	+
Erie	135	7.9	6.6-9.2		Fayette	83	7.9	6.2-9.5	
Forest	4	NSR			Greene	20	8.1	4.5-11.6	
Jefferson	21	7.1	4.1-10.2		Indiana	52	8.4	6.1-10.7	
Lawrence	49	7.2	5.2-9.2		Somerset	70	11.0	8.4-13.5	+
McKean	14	NSR			Washington	121	8.0	6.6-9.4	
Mercer	43	4.9	3.4-6.3	-	Westmoreland	295	10.6	9.4-11.8	+
Venango	35	8.6	5.8-11.5						
Warren	18	NSR			Pennsylvania	6,578	8.0	7.8-8.2	

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: UNINTENTIONAL FALLS

AGE-ADJUSTED DEATH RATES BY COUNTY, WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE PENNSYLVANIA RESIDENTS, 2007-2011



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

INJURY DEATHS: UNINTENTIONAL FALLS

TOTAL NUMBER OF INJURY DEATHS AND AVERAGE ANNUAL DEATH RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2007-2011

Geography	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	3,315	3,263	**6,578**	493	3.1	809	6.8	1,250	9.7	2,420	19.5	1,606	16.6
Northeast	380	368	**748**	78	4.0	84	5.9	136	8.3	330	20.5	120	9.4
Carbon	20	16	36	10	14.1	11	19.1	15	22.4	0	NSR	0	NSR
Lackawanna	42	48	90	10	4.0	14	7.1	30	14.5	36	17.1	0	NSR
Lehigh	112	135	247	4	NSR	11	3.4	18	5.1	94	28.1	120	46.2
Luzerne	60	48	108	8	NSR	15	5.2	20	6.2	65	20.3	0	NSR
Monroe	33	27	60	7	NSR	9	NSR	24	13.0	20	11.7	0	NSR
Northampton	86	76	162	4	NSR	14	5.1	29	9.5	115	39.2	0	NSR
Pike	10	4	14	8	NSR	6	NSR	0	NSR	0	NSR	0	NSR
Susquehanna	4	7	11	11	22.2	0	NSR	0	NSR	0	NSR	0	NSR
Wayne	7	5	12	9	NSR	3	NSR	0	NSR	0	NSR	0	NSR
Wyoming	6	2	8	7	NSR	1	NSR	0	NSR	0	NSR	0	NSR
Southeast	1,229	1,194	**2,423**	76	1.1	175	3.5	343	6.6	1,215	25.8	614	17.6
Berks	126	94	220	5	NSR	10	2.7	31	7.3	70	18.3	104	35.5
Bucks	151	184	335	8	NSR	17	3.3	32	4.5	119	18.0	159	35.7
Chester	83	72	155	5	NSR	10	2.3	25	4.5	49	10.2	66	21.1
Delaware	171	171	342	8	NSR	25	4.7	44	7.7	265	49.5	0	NSR
Lancaster	129	106	235	9	NSR	14	2.9	25	5.0	84	17.9	103	27.2
Montgomery	233	280	513	8	NSR	27	3.8	59	6.8	419	54.0	0	NSR
Philadelphia	284	236	520	22	1.1	55	3.0	106	7.4	155	12.4	182	19.4
Schuylkill	52	51	103	11	6.8	17	13.0	21	13.0	54	36.2	0	NSR

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	3,315	3,263	**6,578**	493	3.1	809	6.8	1,250	9.7	2,420	19.5	1,606	16.6
North Central	152	129	**281**	77	9.0	87	11.7	97	14.9	20	3.1	0	NSR
Bradford	15	10	25	5	NSR	13	25.9	7	NSR	0	NSR	0	NSR
Centre	20	29	49	5	NSR	5	NSR	19	15.5	20	17.8	0	NSR
Clinton	11	7	18	10	20.0	8	NSR	0	NSR	0	NSR	0	NSR
Columbia	20	10	30	6	NSR	9	NSR	15	25.3	0	NSR	0	NSR
Lycoming	11	17	28	6	NSR	12	10.7	10	8.7	0	NSR	0	NSR
Montour	7	6	13	6	NSR	7	NSR	0	NSR	0	NSR	0	NSR
Northumberland	36	23	59	9	NSR	14	18.1	36	37.9	0	NSR	0	NSR
Potter	2	9	11	11	50.7	0	NSR	0	NSR	0	NSR	0	NSR
Snyder	9	7	16	10	19.2	6	NSR	0	NSR	0	NSR	0	NSR
Sullivan	1	0	1	1	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Tioga	8	2	10	4	NSR	6	NSR	0	NSR	0	NSR	0	NSR
Union	12	9	21	4	NSR	7	NSR	10	20.8	0	NSR	0	NSR
South Central	414	438	**852**	90	4.3	134	8.9	255	14.8	268	16.2	105	8.3
Adams	21	22	43	6	NSR	8	NSR	29	27.2	0	NSR	0	NSR
Bedford	16	11	27	6	NSR	10	25.1	11	21.4	0	NSR	0	NSR
Blair	51	53	104	9	NSR	17	15.2	78	63.1	0	NSR	0	NSR
Cumberland	41	50	91	9	NSR	8	NSR	20	8.5	54	23.9	0	NSR
Dauphin	52	51	103	9	NSR	16	6.6	23	8.3	55	20.3	0	NSR
Franklin	36	49	85	4	NSR	8	6.2	26	17.9	47	33.5	0	NSR
Fulton	4	1	5	4	NSR	1	NSR	0	NSR	0	NSR	0	NSR
Huntingdon	18	14	32	5	NSR	20	44.6	7	NSR	0	NSR	0	NSR
Juniata	8	7	15	10	32.3	5	NSR	0	NSR	0	NSR	0	NSR
Lebanon	20	24	44	4	NSR	6	NSR	34	26.3	0	NSR	0	NSR
Mifflin	15	14	29	12	20.0	17	44.8	0	NSR	0	NSR	0	NSR
Perry	4	7	11	4	NSR	7	NSR	0	NSR	0	NSR	0	NSR
York	128	135	263	8	NSR	11	2.9	27	5.7	112	26.1	105	35.0

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	3,315	3,263	**6,578**	493	3.1	809	6.8	1,250	9.7	2,420	19.5	1,606	16.6
Northwest	225	200	**425**	74	6.4	129	15.5	109	11.8	113	12.0	0	NSR
Cameron	2	2	4	4	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Clarion	8	3	11	6	NSR	5	NSR	0	NSR	0	NSR	0	NSR
Clearfield	24	16	40	11	12.3	29	39.6	0	NSR	0	NSR	0	NSR
Crawford	20	16	36	5	NSR	8	NSR	23	26.8	0	NSR	0	NSR
Elk	7	8	15	7	NSR	8	NSR	0	NSR	0	NSR	0	NSR
Erie	73	62	135	6	NSR	15	5.3	18	6.6	96	35.8	0	NSR
Forest	1	3	4	4	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Jefferson	13	8	21	5	NSR	10	26.4	6	NSR	0	NSR	0	NSR
Lawrence	27	22	49	6	NSR	10	13.4	16	18.1	17	18.0	0	NSR
McKean	4	10	14	6	NSR	8	NSR	0	NSR	0	NSR	0	NSR
Mercer	25	18	43	4	NSR	6	NSR	33	29.2	0	NSR	0	NSR
Venango	10	25	35	5	NSR	17	38.9	13	24.3	0	NSR	0	NSR
Warren	11	7	18	5	NSR	13	40.9	0	NSR	0	NSR	0	NSR
Southwest	915	934	**1,849**	98	3.1	200	8.2	310	11.4	474	16.7	767	32.9
Allegheny	430	468	898	12	0.8	31	2.6	78	6.4	191	15.3	586	57.3
Armstrong	16	13	29	7	NSR	22	41.7	0	NSR	0	NSR	0	NSR
Beaver	51	35	86	6	NSR	11	7.8	17	9.8	52	27.8	0	NSR
Butler	37	33	70	6	NSR	7	NSR	19	9.6	38	20.3	0	NSR
Cambria	60	65	125	6	NSR	11	8.8	43	30.2	65	42.3	0	NSR
Fayette	38	45	83	7	NSR	21	17.8	55	37.8	0	NSR	0	NSR
Greene	9	11	20	6	NSR	7	NSR	7	NSR	0	NSR	0	NSR
Indiana	26	26	52	11	9.7	16	17.0	25	32.1	0	NSR	0	NSR
Somerset	37	33	70	18	21.6	52	76.9	0	NSR	0	NSR	0	NSR
Washington	59	62	121	12	4.9	14	7.8	42	20.1	53	23.9	0	NSR
Westmoreland	152	143	295	7	NSR	8	NSR	24	6.4	75	18.6	181	53.3

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: UNINTENTIONAL FALLS

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

BLACK POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	38	4.8	3.3-6.4
Chester	4	NSR	
Dauphin	10	5.2	2.0-8.4
Delaware	25	6.7	4.0-9.3
Montgomery	13	4.1	1.9-6.3
Philadelphia	148	4.7	3.9-5.4
Pennsylvania	276	4.7	4.2-5.3

WHITE POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	850	10.2	9.6-10.9
Chester	149	6.3	5.3-7.3
Dauphin	90	6.8	5.4-8.2
Delaware	314	9.9	8.8-11.0
Montgomery	492	10.1	9.2-11.0
Philadelphia	331	6.9	6.2-7.7
Pennsylvania	6,177	8.2	8.0-8.4

HISPANIC POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Berks	7	NSR	
Lancaster	1	NSR	
Lehigh	15	16.8	8.3-25.3
Philadelphia	27	5.8	3.6-8.0
Pennsylvania	70	4.9	3.7-6.0

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

Select Counties		Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+	
County and Race		Cty. Pop.	Male	Female	All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Allegheny	Black	13.4%	18	20	**38**	4.2%	0	NSR	1	NSR	4	NSR	13	9.7	20	22.3
	White	82.4%	407	443	**850**	94.7%	3	NSR	8	NSR	27	2.7	65	6.0	747	81.3
Chester	Black	6.2%	3	1	**4**	2.6%	0	NSR	2	NSR	1	NSR		NSR	1	NSR
	White	88.3%	79	70	**149**	96.1%	1	NSR	2	NSR	5	NSR	22	5.0	119	40.9
Dauphin	Black	18.1%	4	6	**10**	9.7%	0	NSR	1	NSR	1	NSR	3	NSR	5	NSR
	White	75.8%	46	44	**90**	87.4%	1	NSR	0	NSR	5	NSR	12	5.4	72	46.1
Delaware	Black	19.2%	10	15	**25**	7.3%	0	NSR	1	NSR	1	NSR	5	NSR	18	44.5
	White	74.4%	158	156	**314**	91.8%	2	NSR	0	NSR	9	NSR	26	6.0	277	80.3
Montgomery	Black	8.8%	9	4	**13**	2.5%	1	NSR	0	NSR	2	NSR	5	NSR	5	NSR
	White	83.2%	220	272	**492**	95.9%	0	NSR	3	NSR	8	NSR	26	3.8	455	84.7
Philadelphia	Black	45.1%	93	55	**148**	28.5%	0	NSR	7	NSR	13	2.0	39	7.0	89	24.6
	White	45.3%	159	172	**331**	63.7%	0	NSR	3	NSR	16	2.5	58	9.7	254	47.9
Pennsylvania	Black	10.9%	160	116	**276**	4.2%	3	NSR	14	0.9	27	2.0	76	7.1	156	23.9
	White	84.5%	3,072	3,105	**6,177**	93.9%	26	0.2	69	0.7	206	1.9	576	5.2	5,300	59.8

INJURY DEATHS: ALL POISONING

In 2011, among Pennsylvania residents, there were 2,429 deaths due to poisoning.
On average, one resident died every four hours.

Injury Definition

Poisoning includes:

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

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

HIGHLIGHTS

- Age-adjusted rates generally **increased** from 2007 - 2011.
- Most common demographic is **white males** ages 20 to 54.
- Of Pennsylvania counties, **Cambria and Philadelphia** had the highest rates of 26.0 and above.

Trends Over Time

- Age-adjusted death rates for poisoning increased by over 26 percent from 15.3 deaths per 100,000 population in 2007 to 19.3 deaths per 100,000 population in 2011.
- Males had significantly higher age-adjusted poisoning death rates than females for all age groups where rates could be calculated from 2007 – 2011.
- Urban populations generally had higher age-adjusted poisoning death rates than rural populations during 2007 to 2011.

Demographic Trends

- White males and white females accounted for over four-fifths of all poisoning deaths during 2007 to 2011; white males alone accounted for more than half of all poisoning deaths.
- Among ages 20 to 34, white males and females had significantly higher poisoning death rates than black males and females.
- Among ages 50 to 74, black males had significantly higher poisoning death rates than white males.

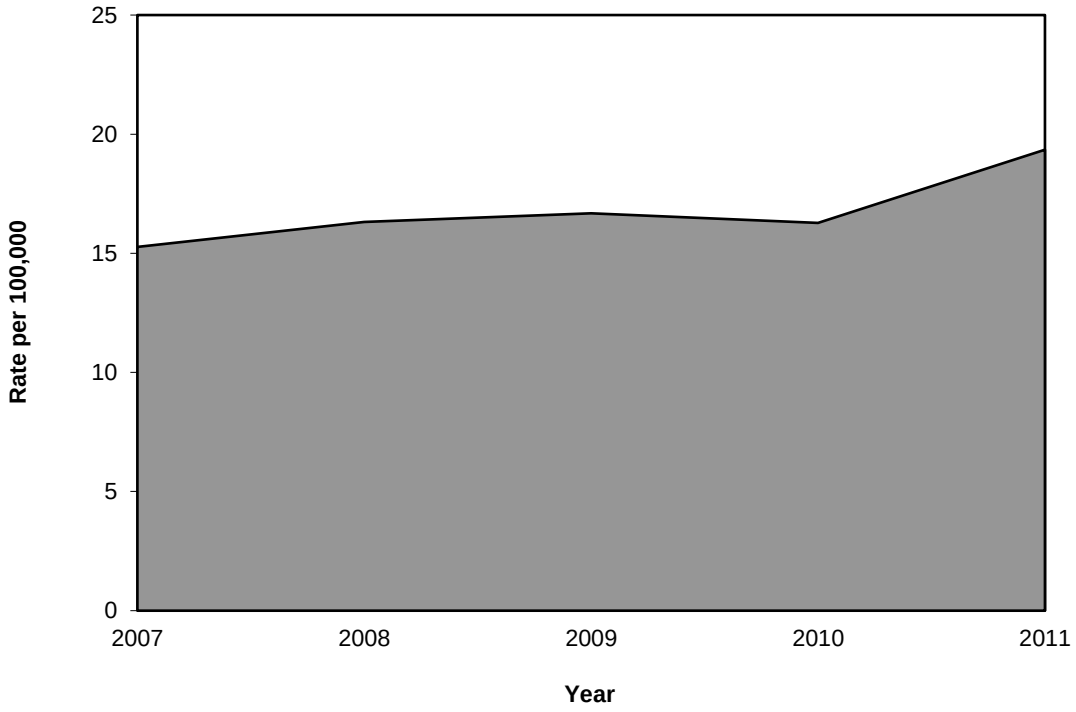
Regional Trends

- The Southwest Health District had the highest age-adjusted poisoning death rate while the North Central Health District had the lowest rate.
- Eight counties had age-adjusted poisoning death rates for 2007 to 2011 that were significantly higher than the comparable state rate; the majority of these were located in the Southwest Health District. There were two rural and six urban counties.

INJURY DEATHS: ALL POISONING

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES
PENNSYLVANIA RESIDENTS, 2007-2011

Year	No.	Rate
2007	1,884	15.3
2008	1,997	16.3
2009	2,069	16.7
2010	2,042	16.3
2011	2,429	19.3



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2007-2011

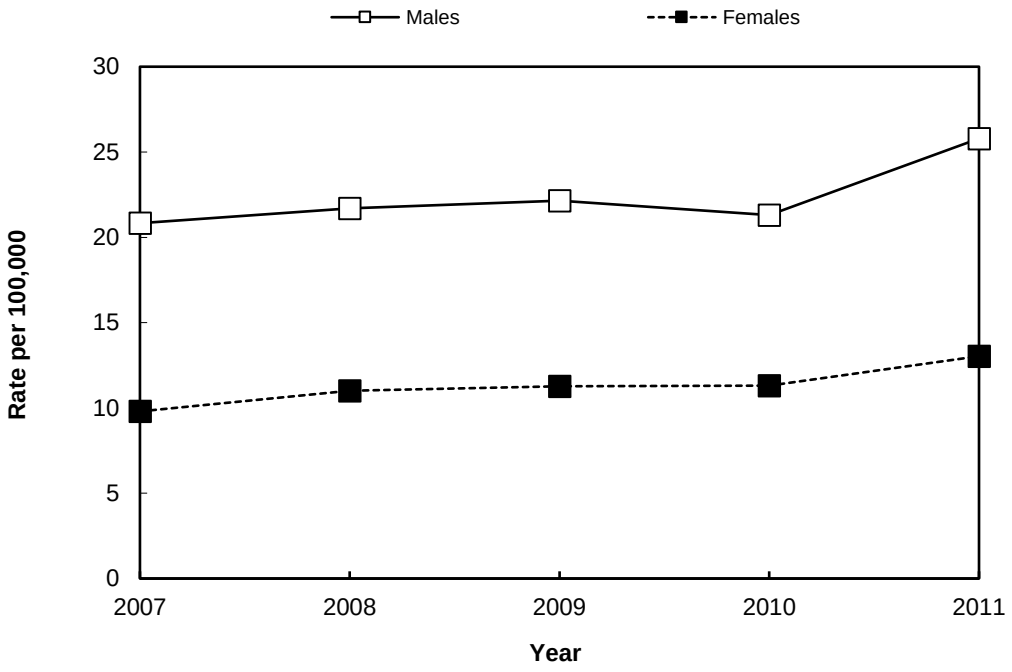
Year	Northwest	North Central	Northeast	Southeast	South Central	Southwest
2007	14.6	8.0	15.5	17.0	10.9	16.6
2008	13.5	8.2	17.5	18.3	11.8	18.0
2009	14.5	10.9	17.1	18.5	12.0	18.2
2010	13.3	9.9	14.3	18.0	11.6	19.9
2011	18.5	10.8	19.4	21.1	12.4	23.0

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2007-2011 based on ICD-9 codes. See Technical Notes.

INJURY DEATHS: ALL POISONING

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES BY SEX
PENNSYLVANIA RESIDENTS, 2007-2011

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2007	1,260	20.8	2007	624	9.8
2008	1,308	21.7	2008	689	11.0
2009	1,351	22.1	2009	718	11.3
2010	1,312	21.3	2010	730	11.3
2011	1,592	25.8	2011	837	13.0



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2007-2011

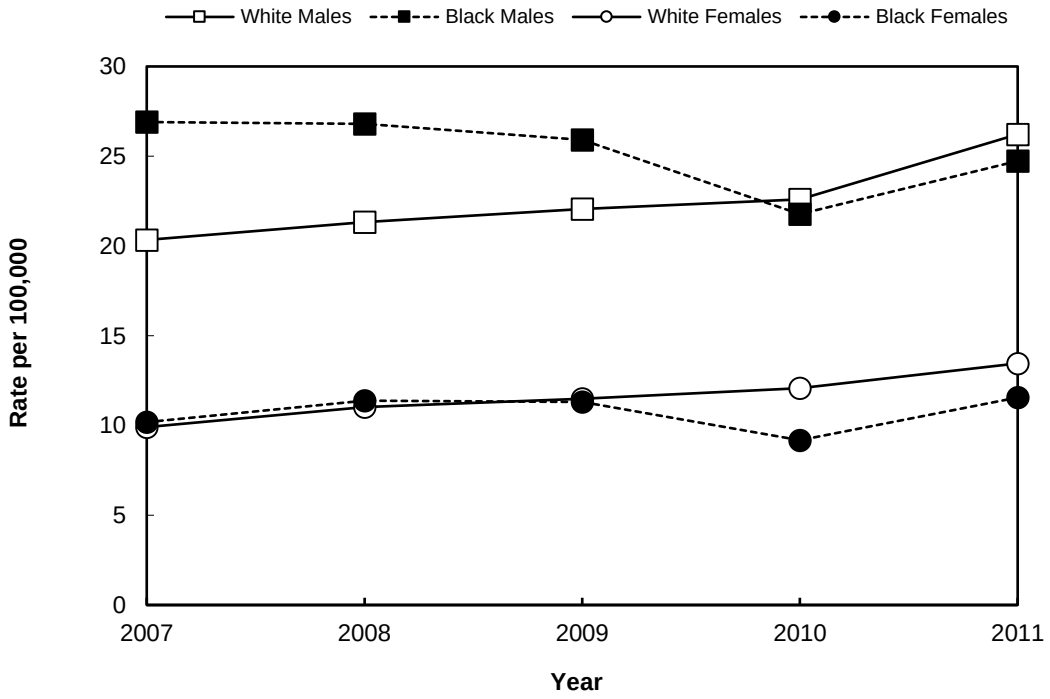
Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2007	22.3	17.2	2007	10.3	8.5
2008	23.4	17.3	2008	11.7	9.1
2009	23.3	19.2	2009	11.4	11.1
2010	22.1	19.3	2010	11.3	11.4
2011	27.2	22.2	2011	13.1	12.9

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 DEATHS: ALL POISONING

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES BY SEX AND RACE OR ETHNICITY
PENNSYLVANIA RESIDENTS, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	1,051	152	542	67	54	10
2008	1,097	152	592	76	51	16
2009	1,146	148	627	75	46	13
2010	1,128	140	635	66	33	27
2011	1,352	162	726	82	64	26



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	20.3	26.9	9.9	10.2	21.0	NSR
2008	21.3	26.8	11.0	11.4	20.6	NSR
2009	22.1	25.9	11.5	11.3	16.9	NSR
2010	22.6	21.8	12.1	9.2	9.5	8.6
2011	26.2	24.7	13.5	11.6	19.9	7.5

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, 2007-2011

AGE	PA TOTAL		MALE		FEMALE			URBAN		RURAL		
GROUP	No.	Rate	No.	Rate	No.	Rate		No.	Rate	No.	Rate	
TOTAL	**10,421**	**16.6**	**6,823**	**22.3**	**3,598**	**11.1**		**7,973**	**17.4**	**2,448**	**14.2**	
< 5	21	0.6	10	0.5	11	0.6		15	0.5	6	NSR	
5-9	3	NSR	1	NSR	2	NSR		2	NSR	1	NSR	
10-14	10	0.3	10	0.5	0	NSR		7	NSR	3	NSR	
15-19	244	5.3	181	7.8	63	2.8	*	175	5.3	69	5.4	
20-24	828	18.7	623	27.7	205	9.4	*	630	19.7	198	16.0	*
25-29	1,140	30.0	849	43.9	291	15.6	*	855	29.8	285	30.5	
30-34	1,059	28.5	750	40.1	309	16.7	*	775	28.1	284	29.6	
35-39	1,035	26.5	672	34.5	363	18.5	*	747	26.1	288	27.6	
40-44	1,362	31.4	874	40.7	488	22.3	*	1,059	33.5	303	26.0	*
45-49	1,626	35.1	981	42.9	645	27.4	*	1,282	38.0	344	27.2	*
50-54	1,408	30.3	868	38.1	540	22.8	*	1,119	33.3	289	22.4	*
55-59	832	19.8	515	25.2	317	14.7	*	673	22.4	159	13.3	*
60-64	354	9.9	219	12.8	135	7.3	*	289	11.5	65	6.2	*
65-69	142	5.2	81	6.4	61	4.2	*	93	4.9	49	5.9	*
70-74	88	4.0	52	5.3	36	2.9	*	62	4.1	26	3.9	
75-79	98	5.3	53	7.0	45	4.2	*	65	5.0	33	6.1	
80-84	70	4.8	37	6.6	33	3.6	*	50	4.8	20	4.7	
85 +	101	6.8	47	10.3	54	5.3	*	75	7.1	26	6.2	

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

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.
Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY DEATHS: ALL POISONING

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES
PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2007-2011

AGE	WHITE MALE		BLACK MALE			WHITE FEMALE		BLACK FEMALE			HISPANICS	
GROUP	No.	Rate	No.	Rate		No.	Rate	No.	Rate		No.	Rate
TOTAL	**5,774**	**22.3**	**754**	**23.1**		**3,122**	**11.5**	**366**	**10.2**		**340**	**10.4**
< 5	7	NSR	2	NSR		8	NSR	2	NSR		2	NSR
5-9	0	NSR	1	NSR		1	NSR	1	NSR		0	NSR
10-14	9	NSR	1	NSR		0	NSR	0	NSR		0	NSR
15-19	169	9.1	9	NSR		55	3.0	3	NSR		6	NSR
20-24	571	31.5	19	6.2	*	185	10.5	12	4.0	*	29	9.8
25-29	776	49.4	36	14.5	*	262	17.4	21	8.4	*	38	14.0
30-34	657	42.8	54	24.4	*	262	17.5	31	13.2	*	47	18.4
35-39	576	35.4	56	26.5	*	309	19.1	42	18.2		40	16.7
40-44	719	39.2	105	48.1	*	408	22.1	60	24.7		60	27.9
45-49	828	41.7	117	54.0	*	558	27.7	72	29.2		50	26.6
50-54	693	34.4	143	72.6	*	467	22.7	60	25.8		40	28.0
55-59	377	20.7	123	77.3	*	277	14.6	32	16.3		18	16.6
60-64	160	10.4	57	47.3	*	115	7.0	17	10.8	*	5	NSR
65-69	67	5.8	13	16.1	*	57	4.4	4	NSR		1	NSR
70-74	39	4.4	10	16.3	*	35	3.2	1	NSR		2	NSR
75-79	45	6.4	6	NSR		40	4.1	4	NSR		1	NSR
80-84	35	6.7	1	NSR		31	3.7	2	NSR		1	NSR
85 +	46	10.8	1	NSR		52	5.5	2	NSR		0	NSR

* 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, 2007-2011

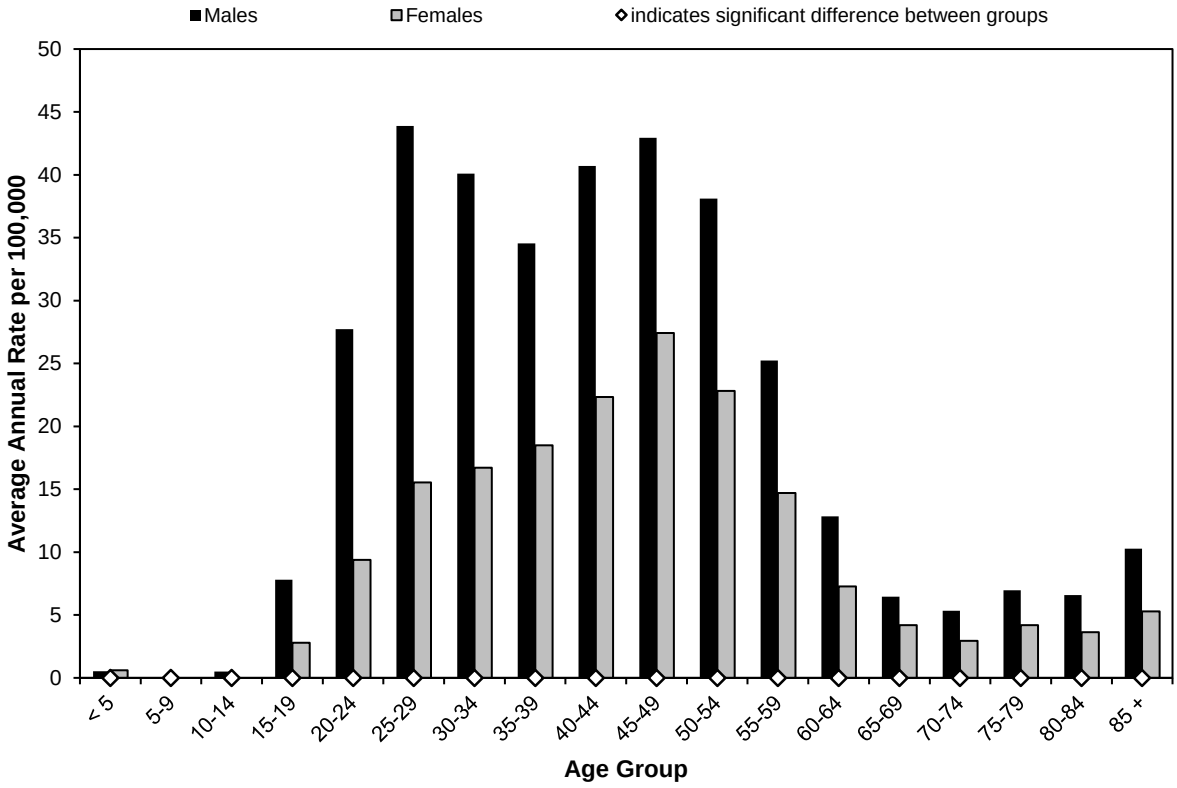
AGE	NORTHWEST			NORTH CENTRAL			NORTHEAST			SOUTHEAST			SOUTH CENTRAL			SOUTHWEST		
GROUP	No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate	
TOTAL	**662**	**14.3**		**311**	**9.0**		**1,282**	**16.2**		**4,673**	**18.6**		**960**	**11.6**		**2,533**	**18.7**	
< 5	1	NSR		0	NSR		1	NSR		12	0.7		3	NSR		4	NSR	
5-9	0	NSR		0	NSR		0	NSR		2	NSR		1	NSR		0	NSR	
10-14	1	NSR		0	NSR		2	NSR		4	NSR		0	NSR		3	NSR	
15-19	19	5.5		6	NSR		33	5.8		100	5.4		28	4.9		58	6.2	+
20-24	40	12.7	-	25	6.8	-	96	18.0		382	21.2		87	16.6	-	198	22.2	+
25-29	72	27.7		35	18.8	-	162	36.2	+	493	30.0		101	20.5	-	277	35.7	+
30-34	85	32.5	+	36	19.2	-	135	30.2		457	29.2		96	19.5	-	250	32.6	
35-39	75	27.1		31	15.7	-	126	25.9		443	27.5		96	18.2	-	264	32.6	+
40-44	64	20.7	-	50	22.9	-	183	33.3		636	36.2	+	116	19.9	-	313	34.2	
45-49	101	30.1		34	14.4	-	204	34.4		744	40.2	+	137	22.2	-	406	40.4	+
50-54	98	28.3		31	13.0	-	158	26.6		633	35.1	+	129	21.1	-	359	34.1	
55-59	42	13.1	-	28	12.7	-	82	15.2	-	403	25.4	+	68	12.1	-	209	21.6	
60-64	21	7.6	-	7	NSR		34	7.2	-	184	14.0	+	29	6.0	-	79	9.6	
65-69	14	6.5		10	6.4		13	3.5	-	57	5.8		22	5.9		26	4.2	-
70-74	7	NSR		4	NSR		13	4.5		31	3.9		13	4.4		20	3.9	
75-79	9	NSR		7	NSR		12	5.1		36	5.5		9	NSR		25	5.6	
80-84	5	NSR		3	NSR		11	5.8		21	4.0		12	6.6		18	4.8	
85 +	8	NSR		4	NSR		17	9.0		35	6.5		13	7.4		24	6.3	

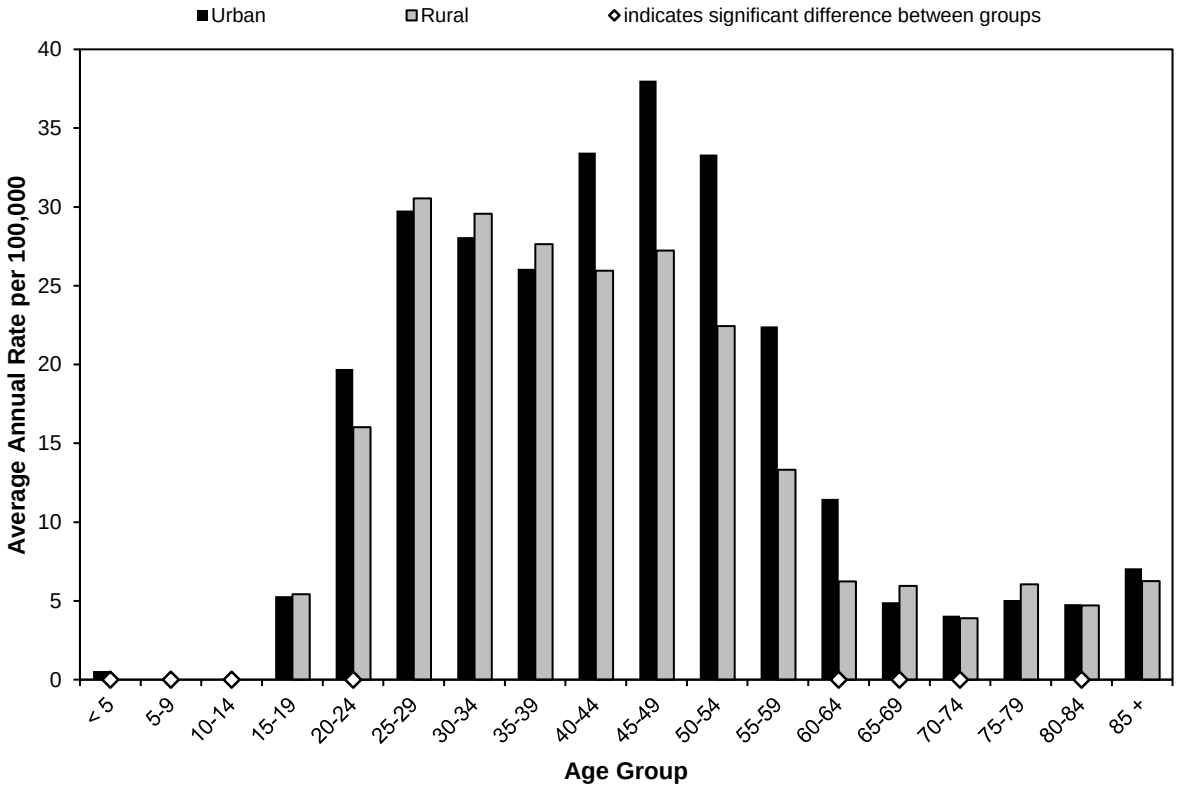
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

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

INJURY DEATHS: ALL POISONING

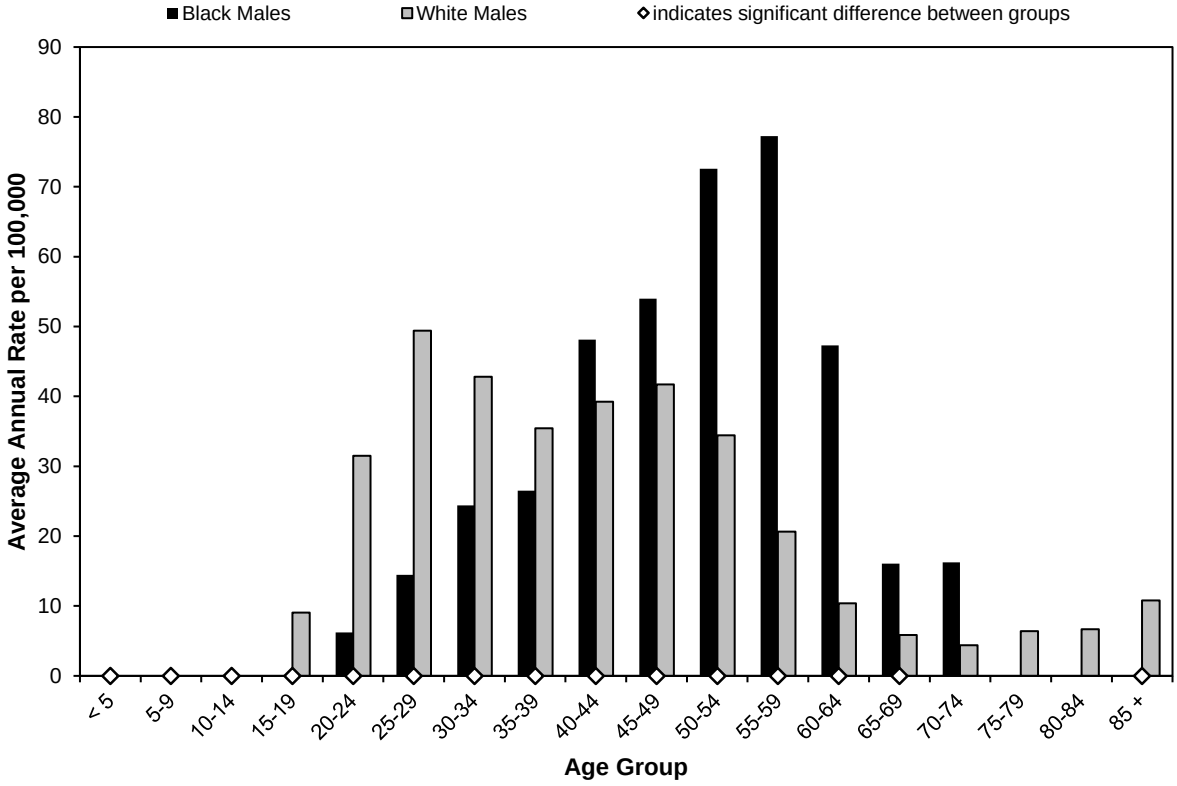
AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2007-2011

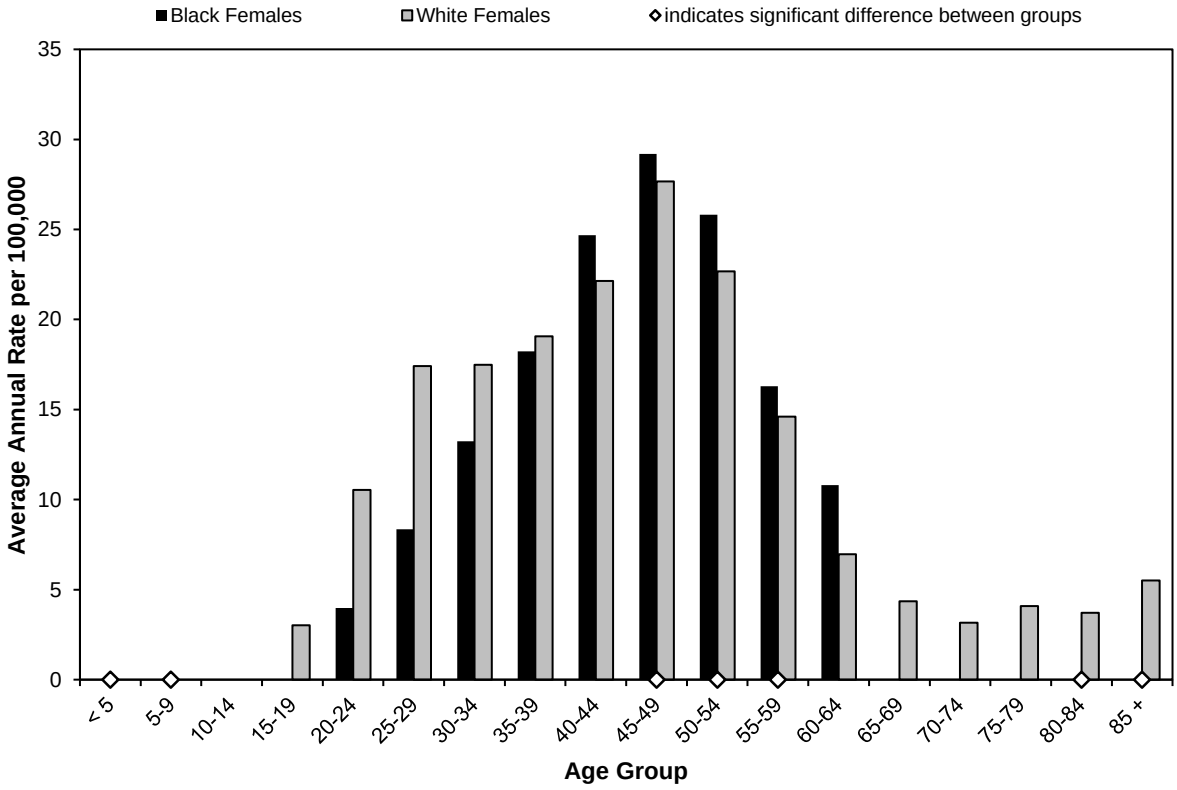




INJURY DEATHS: ALL POISONING

AVERAGE ANNUAL DEATH RATES BY SEX AND RACE
PENNSYLVANIA RESIDENTS, 2007-2011





INJURY DEATHS: ALL POISONING

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2007-2011

District/County	No.	Rate	CI (95%)	
Northeast	1,282	16.8	15.8-17.7	
Carbon	65	21.0	15.9-26.1	
Lackawanna	208	20.8	17.9-23.6	+
Lehigh	255	15.0	13.2-16.9	
Luzerne	290	19.3	17.0-21.5	+
Monroe	135	16.6	13.8-19.4	
Northampton	197	13.4	11.5-15.3	-
Pike	43	15.9	11.1-20.6	
Susquehanna	32	17.9	11.7-24.1	
Wayne	41	14.8	10.3-19.4	
Wyoming	16	NSR		
North Central	311	9.6	8.5-10.6	-
Bradford	32	11.1	7.3-15.0	-
Centre	51	7.8	5.7-9.9	-
Clinton	22	13.5	7.8-19.1	
Columbia	36	12.6	8.5-16.7	
Lycoming	49	8.3	6.0-10.6	-
Montour	12	NSR		
Northumberland	56	12.8	9.5-16.2	-
Potter	13	NSR		
Snyder	11	NSR		
Sullivan	4	NSR		
Tioga	13	NSR		
Union	12	NSR		
Northwest	662	14.9	13.7-16.0	-
Cameron	2	NSR		
Clarion	15	NSR		
Clearfield	55	13.6	10.0-17.2	
Crawford	64	15.2	11.5-19.0	
Elk	25	17.0	10.4-23.7	
Erie	189	13.9	11.9-15.9	-
Forest	6	NSR		
Jefferson	26	13.4	8.2-18.5	
Lawrence	77	17.7	13.7-21.7	
McKean	28	12.7	8.0-17.4	
Mercer	107	19.1	15.5-22.7	
Venango	42	17.4	12.1-22.6	
Warren	26	13.7	8.4-18.9	

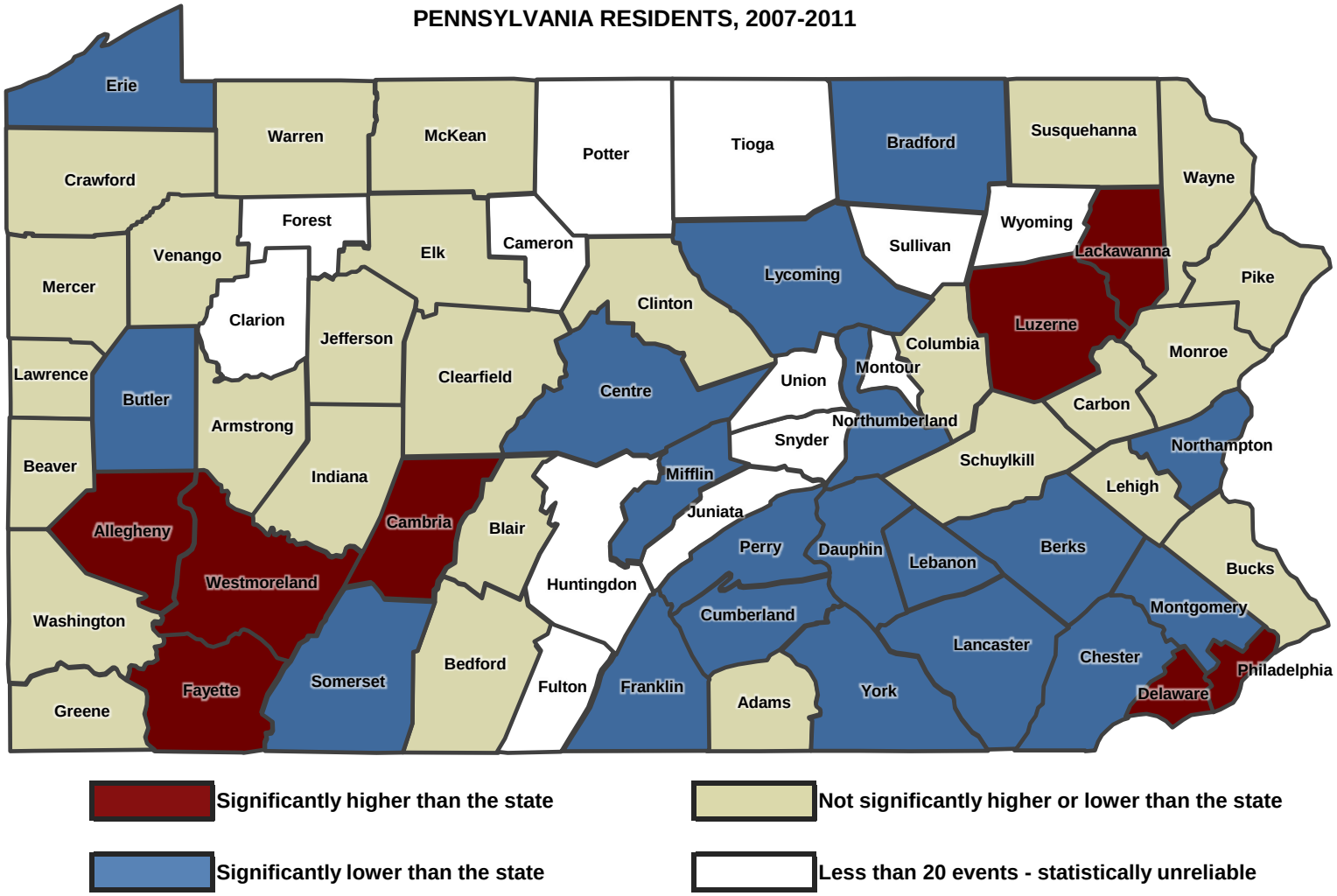
District/County	No.	Rate	CI (95%)	
Southeast	4,673	18.6	18.1-19.1	+
Berks	292	14.7	13.0-16.4	-
Bucks	524	17.4	15.9-18.9	
Chester	309	12.4	11.0-13.8	-
Delaware	657	23.8	21.9-25.6	+
Lancaster	270	10.9	9.6-12.2	-
Montgomery	584	14.8	13.6-16.0	-
Philadelphia	1,894	26.1	24.9-27.3	+
Schuylkill	143	19.6	16.4-22.8	
South Central	960	11.7	11.0-12.5	-
Adams	69	14.4	11.0-17.8	
Bedford	39	16.9	11.6-22.2	
Blair	103	17.4	14.0-20.8	
Cumberland	123	10.4	8.5-12.2	-
Dauphin	139	10.5	8.7-12.2	-
Franklin	78	11.0	8.6-13.5	-
Fulton	10	NSR		
Huntingdon	15	NSR		
Juniata	13	NSR		
Lebanon	53	8.4	6.2-10.7	-
Mifflin	24	10.4	6.2-14.5	-
Perry	24	11.4	6.8-16.0	-
York	270	12.4	10.9-13.9	-
Southwest	2,533	19.1	18.4-19.9	+
Allegheny	1,234	20.1	19.0-21.3	+
Armstrong	53	16.7	12.2-21.2	
Beaver	138	16.8	14.0-19.6	
Butler	119	13.5	11.1-16.0	-
Cambria	185	27.2	23.3-31.1	+
Fayette	141	21.5	18.0-25.1	+
Greene	46	22.5	16.0-29.0	
Indiana	68	18.4	14.0-22.7	
Somerset	46	12.7	9.1-16.4	-
Washington	156	16.3	13.8-18.9	
Westmoreland	347	19.7	17.6-21.7	+
Pennsylvania	10,421	16.8	16.5-17.1	

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

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

INJURY DEATHS: ALL POISONING

AGE-ADJUSTED DEATH RATES BY COUNTY, WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE PENNSYLVANIA RESIDENTS, 2007-2011



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

INJURY DEATHS: ALL POISONING

TOTAL NUMBER OF INJURY DEATHS AND AVERAGE ANNUAL DEATH RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2007-2011

Geography	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	6,825	3,596	**10,421**	2,278	14.2	3,383	28.3	3,523	27.4	1,000	8.1	237	2.4
Northeast	814	468	**1,282**	391	19.9	493	34.5	325	19.9	50	3.1	23	1.8
Carbon	47	18	65	24	33.8	23	39.9	17	25.4	1	NSR	0	NSR
Lackawanna	121	87	208	55	21.8	70	35.3	73	35.3	8	3.8	2	NSR
Lehigh	173	82	255	70	15.5	108	33.3	60	17.0	12	3.6	5	NSR
Luzerne	186	104	290	107	29.6	115	40.0	59	18.2	4	NSR	5	NSR
Monroe	84	51	135	29	12.6	47	32.1	47	25.5	8	NSR	4	NSR
Northampton	122	75	197	65	16.8	71	26.1	44	14.4	10	3.4	7	NSR
Pike	25	18	43	7	NSR	20	45.5	12	18.6	4	NSR	0	NSR
Susquehanna	21	11	32	14	28.3	15	45.3	3	NSR	0	NSR	0	NSR
Wayne	24	17	41	10	18.0	18	44.0	10	18.8	3	NSR	0	NSR
Wyoming	11	5	16	10	27.1	6	NSR	0	NSR	0	NSR	0	NSR
Southeast	3,130	1,543	**4,673**	648	9.6	1,394	27.8	1,774	34.0	727	15.5	130	3.7
Berks	182	110	292	77	13.7	125	33.5	70	16.5	14	3.7	6	NSR
Bucks	361	163	524	153	19.2	168	32.8	171	24.2	23	3.5	9	NSR
Chester	204	105	309	67	9.7	101	22.9	121	22.0	14	2.9	6	NSR
Delaware	440	217	657	156	20.9	214	40.0	247	43.4	28	5.2	12	3.0
Lancaster	163	107	270	37	5.2	78	16.1	105	20.9	37	7.9	13	3.4
Montgomery	374	210	584	87	8.7	169	24.1	228	26.3	77	9.9	23	3.9
Philadelphia	1,306	588	1,894	25	1.2	482	26.4	803	55.9	524	42.0	60	6.4
Schuylkill	100	43	143	46	28.5	57	43.5	29	18.0	10	6.7	1	NSR

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	6,825	3,596	**10,421**	2,278	14.2	3,383	28.3	3,523	27.4	1,000	8.1	237	2.4
North Central	180	131	**311**	133	15.5	114	15.4	50	7.7	14	2.1	0	NSR
Bradford	19	13	32	21	26.9	7	14.0	4	NSR	0	NSR	0	NSR
Centre	33	18	51	15	7.9	16	6.8	15	12.2	5	NSR	0	NSR
Clinton	14	8	22	6	NSR	14	37.1	2	NSR	0	NSR	0	NSR
Columbia	18	18	36	19	22.5	11	15.8	5	NSR	1	NSR	0	NSR
Lycoming	28	21	49	12	8.5	24	21.5	9	NSR	4	NSR	0	NSR
Montour	5	7	12	5	NSR	3	NSR	3	NSR	1	NSR	0	NSR
Northumberland	31	25	56	20	18.8	21	27.2	12	12.6	3	NSR	0	NSR
Potter	9	4	13	8	NSR	5	NSR	0	NSR	0	NSR	0	NSR
Snyder	5	6	11	9	NSR	2	NSR	0	NSR	0	NSR	0	NSR
Sullivan	2	2	4	4	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Tioga	9	4	13	7	NSR	6	NSR	0	NSR	0	NSR	0	NSR
Union	7	5	12	7	NSR	5	NSR	0	NSR	0	NSR	0	NSR
South Central	594	366	**960**	275	13.0	327	21.7	279	16.2	61	3.7	18	1.4
Adams	44	25	69	19	14.4	32	35.2	12	11.2	5	NSR	1	NSR
Bedford	24	15	39	12	20.1	15	37.7	11	21.4	1	NSR	0	NSR
Blair	63	40	103	39	25.3	37	33.0	25	20.2	2	NSR	0	NSR
Cumberland	77	46	123	44	15.2	40	17.2	32	13.6	5	NSR	2	NSR
Dauphin	90	49	139	33	9.8	42	17.4	49	17.6	11	4.1	4	NSR
Franklin	45	33	78	13	6.7	19	14.6	31	21.3	10	7.1	5	NSR
Fulton	4	6	10	7	NSR	3	NSR	0	NSR	0	NSR	0	NSR
Huntingdon	8	7	15	9	NSR	4	NSR	2	NSR	0	NSR	0	NSR
Juniata	7	6	13	7	NSR	5	NSR	1	NSR	0	NSR	0	NSR
Lebanon	35	18	53	13	7.9	24	19.8	11	8.5	3	NSR	2	NSR
Mifflin	17	7	24	8	NSR	11	29.0	3	NSR	2	NSR	0	NSR
Perry	8	16	24	10	16.7	12	30.4	2	NSR	0	NSR	0	NSR
York	172	98	270	61	11.0	83	21.5	100	21.1	22	5.1	4	NSR

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	6,825	3,596	**10,421**	2,278	14.2	3,383	28.3	3,523	27.4	1,000	8.1	237	2.4
Northwest	434	228	**662**	217	18.7	227	27.2	178	19.3	31	3.3	9	NSR
Cameron	2	0	2	2	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Clarion	12	3	15	6	NSR	5	NSR	4	NSR	0	NSR	0	NSR
Clearfield	39	16	55	25	27.9	16	21.9	9	NSR	3	NSR	2	NSR
Crawford	41	23	64	19	16.4	26	33.9	14	16.3	5	NSR	0	NSR
Elk	18	7	25	12	32.1	9	NSR	4	NSR	0	NSR	0	NSR
Erie	115	74	189	32	8.6	62	21.9	74	27.0	14	5.2	7	NSR
Forest	4	2	6	4	NSR	2	NSR	0	NSR	0	NSR	0	NSR
Jefferson	19	7	26	17	31.2	7	NSR	2	NSR	0	NSR	0	NSR
Lawrence	51	26	77	18	16.2	33	44.4	24	27.1	2	NSR	0	NSR
McKean	19	9	28	10	18.8	13	33.5	5	NSR	0	NSR	0	NSR
Mercer	69	38	107	40	27.2	28	28.5	34	30.1	5	NSR	0	NSR
Venango	27	15	42	24	36.0	13	29.8	5	NSR	0	NSR	0	NSR
Warren	18	8	26	8	NSR	13	40.9	3	NSR	2	NSR	0	NSR
Southwest	1,673	860	**2,533**	614	19.3	828	34.0	917	33.6	117	4.1	57	2.4
Allegheny	839	395	1,234	232	16.1	383	32.7	523	43.0	63	5.0	33	3.2
Armstrong	31	22	53	15	18.3	18	34.1	14	19.9	5	NSR	1	NSR
Beaver	88	50	138	49	24.7	47	33.2	33	19.0	6	NSR	3	NSR
Butler	79	40	119	47	19.7	39	24.8	25	12.7	3	NSR	5	NSR
Cambria	123	62	185	39	23.8	63	50.1	70	49.2	9	NSR	4	NSR
Fayette	95	46	141	65	40.1	60	50.9	12	8.2	4	NSR	0	NSR
Greene	30	16	46	18	40.5	15	39.5	12	29.0	1	NSR	0	NSR
Indiana	46	22	68	21	18.5	21	22.3	22	28.3	4	NSR	0	NSR
Somerset	34	12	46	21	25.2	15	22.2	9	11.0	1	NSR	0	NSR
Washington	98	58	156	46	18.7	54	30.1	48	23.0	4	NSR	4	NSR
Westmoreland	210	137	347	61	14.9	113	39.0	149	39.8	17	4.2	7	NSR

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, 2007-2011

BLACK POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	162	20.7	17.5-23.9
Chester	20	14.6	8.2-21.1
Dauphin	14	5.7	2.7-8.8
Delaware	62	11.9	8.9-14.8
Montgomery	42	11.8	8.2-15.4
Philadelphia	659	20.6	19.0-22.1
Pennsylvania	1,120	17.3	16.3-18.3

WHITE POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	1,059	21.1	19.8-22.4
Chester	284	13.0	11.5-14.5
Dauphin	116	11.6	9.5-13.7
Delaware	574	28.5	26.1-30.8
Montgomery	529	16.4	15.0-17.8
Philadelphia	1,062	31.5	29.6-33.4
Pennsylvania	8,896	17.0	16.7-17.4

HISPANIC POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Berks	35	14.2	9.5-18.9
Lancaster	13	7.1	3.3-11.0
Lehigh	35	14.1	9.4-18.7
Philadelphia	158	20.2	17.0-23.3
Pennsylvania	340	11.8	10.6-13.1

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

Select Counties		Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+	
County and Race		Cty. Pop.	Male	Female	All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Allegheny	Black	13.4%	105	57	**162**	13.1%	2	0.7	19	10.9	54	35.6	79	58.7	8	NSR
	White	82.4%	724	335	**1,059**	85.8%	27	2.5	287	31.0	417	41.0	284	26.0	44	4.8
Chester	Black	6.2%	11	9	**20**	6.5%	0	NSR	2	NSR	7	NSR	8	NSR	3	NSR
	White	88.3%	190	94	**284**	91.9%	10	1.7	85	22.6	106	21.8	76	17.1	7	NSR
Dauphin	Black	18.1%	5	9	**14**	10.1%	1	NSR	1	NSR	4	NSR	8	NSR	0	NSR
	White	75.8%	77	39	**116**	83.5%	5	NSR	40	22.8	35	16.4	26	11.7	10	6.4
Delaware	Black	19.2%	42	20	**62**	9.4%	5	NSR	11	8.6	21	18.9	25	33.0	0	NSR
	White	74.4%	380	194	**574**	87.4%	13	2.6	187	50.8	205	49.1	152	34.9	17	4.9
Montgomery	Black	8.8%	29	13	**42**	7.2%	3	NSR	7	NSR	16	20.0	13	22.3	3	NSR
	White	83.2%	338	191	**529**	90.6%	17	2.1	169	30.4	192	27.0	125	18.5	26	4.8
Philadelphia	Black	45.1%	447	212	**659**	34.8%	6	NSR	88	11.8	278	42.4	261	47.1	26	7.2
	White	45.3%	731	331	**1,062**	56.1%	17	2.2	332	38.2	452	70.1	231	38.5	30	5.7
Pennsylvania	Black	10.9%	754	366	**1,120**	10.7%	19	0.9	173	11.1	452	33.1	432	40.6	44	6.7
	White	84.5%	5,774	3,122	**8,896**	85.4%	249	2.0	2,713	28.0	3,398	31.1	2,089	19.0	447	5.0

INJURY DEATHS: MOTOR VEHICLE TRAFFIC ACCIDENTS

In 2011, among Pennsylvania residents, there were 1,381 deaths due to motor vehicle traffic (MVT) accidents. On average, one resident died every six hours.

Injury Definition

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

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

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

HIGHLIGHTS

- Age-adjusted rates generally **decreased slightly** from 2007 to 2011.
- Most common demographic is **white males**, ages 20 to 24.
- Of all Pennsylvania counties, **Juniata**, **Bedford**, **Clarion**, **Susquehanna**, and **Perry** had the highest rates of over 25.0.

Trends Over Time

- Overall, age-adjusted death rates for MVT injury declined slightly from 2007 to 2011.
- Age-adjusted MVT death rates increased by 1 percent from 11.4 deaths per 100,000 population in 2007 to 11.5 deaths per 100,000 population in 2011; it then decreased by 17 percent to 9.6 deaths per 100,000 population in 2009 and finally increased by 7 percent to 10.3 deaths per 100,000 population in 2011.
- Rural populations had significantly higher age-adjusted MVT death rates than urban populations for all the age groups from 2007 to 2011.

Demographic Trends

- Males had significantly higher MVT death rates than females for all the age groups.
- Among males, whites had significantly higher MVT death rates for ages 15 to 29, while blacks had significantly higher MVT death rates for ages 45 to 49.
- Among females, whites had significantly higher MVT death rates for ages 15 to 29, while blacks had significantly higher MVT death rates for ages 55 to 59.

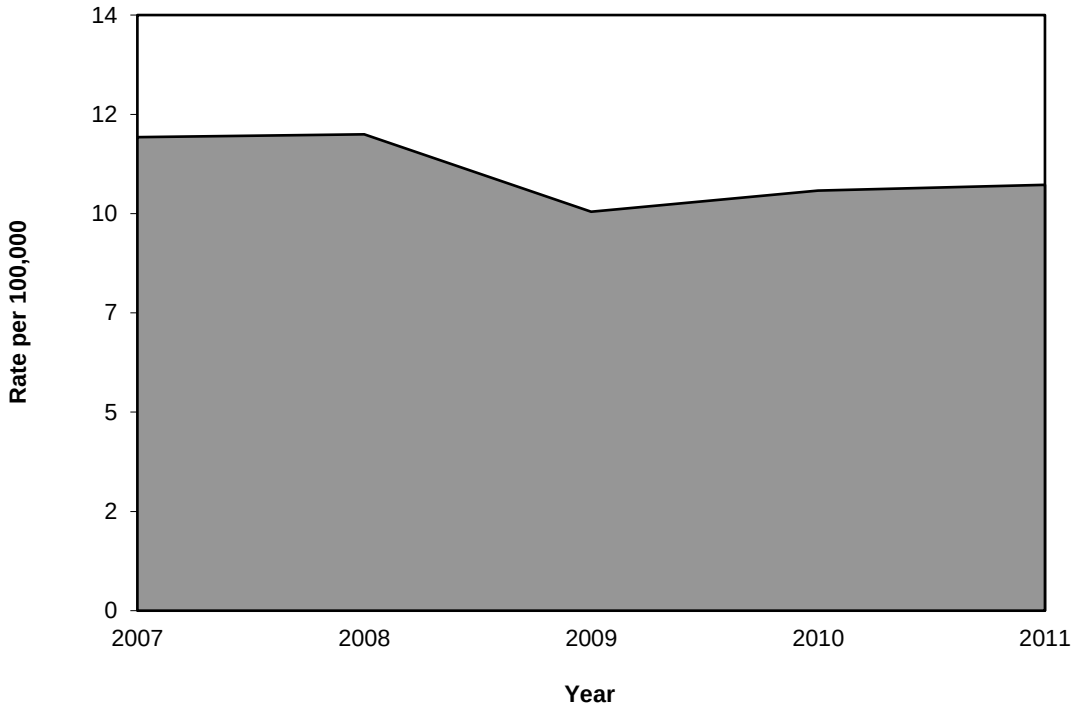
Regional Trends

- The Northwest Health District had the highest age-adjusted MVT death rate while the Southeast Health District had the lowest rate.
- Thirty-three counties had age-adjusted MVT death rates that were significantly higher than the comparable state rate for 2009 to 2013; most of them were rural counties.

INJURY DEATHS: MOTOR VEHICLE TRAFFIC

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES
PENNSYLVANIA RESIDENTS, 2007-2011

Year	No.	Rate
2007	1,478	11.4
2008	1,484	11.5
2009	1,261	9.6
2010	1,328	10.2
2011	1,381	10.3



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2007-2011

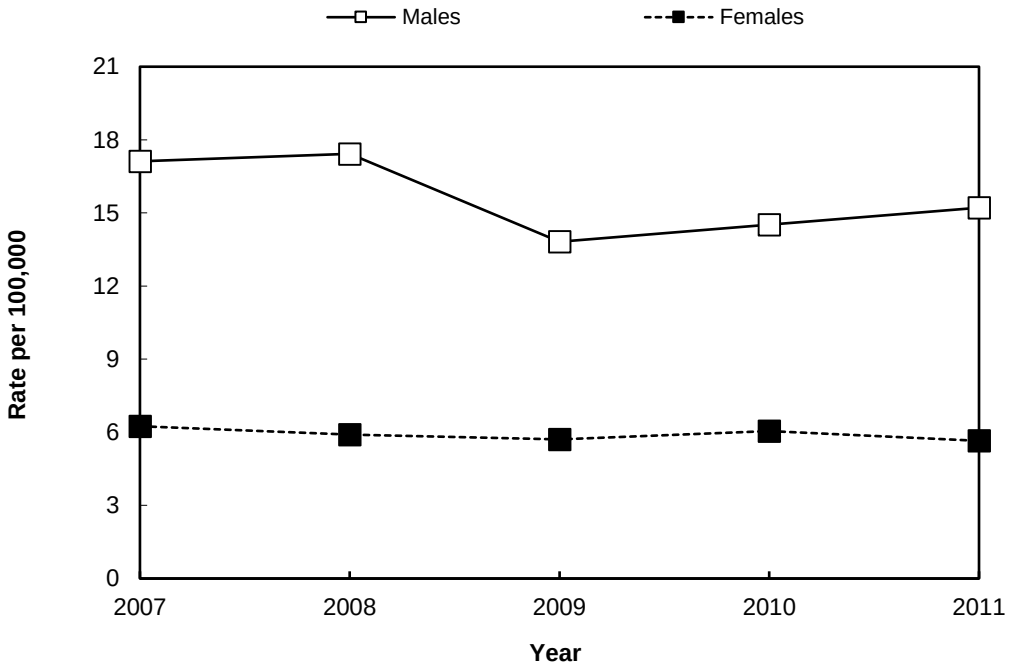
Year	Northwest	North Central	Northeast	Southeast	South Central	Southwest
2007	16.3	13.6	13.3	9.2	14.6	10.7
2008	15.9	16.0	13.4	8.5	15.0	11.4
2009	12.9	12.1	10.8	7.3	12.8	9.8
2010	14.2	13.2	11.0	7.2	14.3	10.6
2011	15.1	14.4	11.1	8.0	13.4	9.7

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2007-2011 based on ICD-9 codes. See Technical Notes.

INJURY DEATHS: MOTOR VEHICLE TRAFFIC

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES BY SEX
PENNSYLVANIA RESIDENTS, 2007-2011

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2007	1,053	17.1	2007	425	6.2
2008	1,077	17.4	2008	407	5.9
2009	865	13.8	2009	396	5.7
2010	913	14.5	2010	415	6.0
2011	972	15.2	2011	409	5.7



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2007-2011

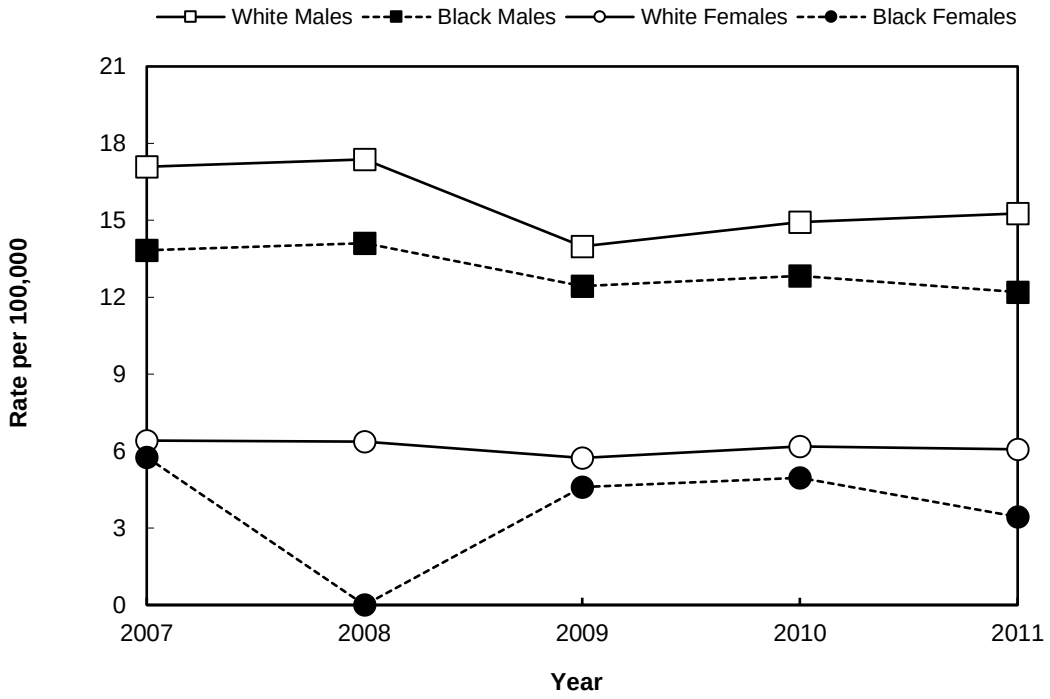
Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2007	14.4	24.0	2007	5.1	9.4
2008	14.5	24.8	2008	4.7	9.2
2009	11.4	20.0	2009	4.4	9.3
2010	11.6	22.1	2010	4.4	10.7
2011	13.0	21.1	2011	4.2	9.5

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 DEATHS: MOTOR VEHICLE TRAFFIC

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES BY SEX AND RACE OR ETHNICITY
PENNSYLVANIA RESIDENTS, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	911	92	374	41	36	7
2008	928	87	377	16	52	6
2009	756	80	348	32	17	10
2010	780	84	349	36	33	16
2011	829	82	370	27	40	8



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	17.1	13.8	6.4	5.8	13.4	NSR
2008	17.4	14.1	6.4	NSR	16.8	NSR
2009	14.0	12.4	5.7	4.6	NSR	NSR
2010	14.9	12.8	6.2	5.0	8.8	NSR
2011	15.3	12.2	6.1	3.4	11.1	NSR

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, 2007-2011

AGE	PA TOTAL		MALE		FEMALE			URBAN		RURAL		
GROUP	No.	Rate	No.	Rate	No.	Rate		No.	Rate	No.	Rate	
TOTAL	**6,933**	**11.0**	**4,881**	**15.9**	**2,052**	**6.4**		**4,095**	**9.0**	**2,838**	**16.5**	
< 5	51	1.4	31	1.7	20	1.1	*	35	1.3	16	1.7	
5-9	37	1.0	21	1.1	16	0.9		20	0.7	17	1.7	*
10-14	70	1.8	43	2.1	27	1.4	*	38	1.3	32	3.0	*
15-19	714	15.6	461	19.9	253	11.2	*	399	12.1	315	24.7	*
20-24	937	21.2	725	32.3	212	9.7	*	568	17.8	369	29.9	*
25-29	646	17.0	490	25.3	156	8.3	*	387	13.5	259	27.8	*
30-34	407	10.9	312	16.7	95	5.1	*	243	8.8	164	17.1	*
35-39	435	11.1	341	17.5	94	4.8	*	250	8.7	185	17.8	*
40-44	455	10.5	323	15.0	132	6.0	*	246	7.8	209	17.9	*
45-49	541	11.7	399	17.5	142	6.0	*	315	9.3	226	17.9	*
50-54	483	10.4	365	16.0	118	5.0	*	277	8.2	206	16.0	*
55-59	413	9.8	305	15.0	108	5.0	*	265	8.8	148	12.4	*
60-64	314	8.8	234	13.7	80	4.3	*	171	6.8	143	13.7	*
65-69	244	9.0	161	12.8	83	5.7	*	140	7.4	104	12.6	*
70-74	269	12.2	159	16.3	110	9.0	*	157	10.3	112	16.8	*
75-79	293	16.0	173	22.7	120	11.2	*	175	13.6	118	21.6	*
80-84	318	21.7	181	32.2	137	15.1	*	204	19.6	114	26.9	*
85 +	306	20.7	157	34.3	149	14.6	*	205	19.3	101	24.3	

* 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: MOTOR VEHICLE TRAFFIC

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES
PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2007-2011

AGE	WHITE MALE		BLACK MALE			WHITE FEMALE		BLACK FEMALE			HISPANICS	
GROUP	No.	Rate	No.	Rate		No.	Rate	No.	Rate		No.	Rate
TOTAL	**4,204**	**16.2**	**426**	**13.1**		**1,818**	**6.7**	**152**	**4.2**		**225**	**6.9**
< 5	17	1.2	7	NSR		15	1.1	4	NSR		7	NSR
5-9	14	0.9	6	NSR		14	1.0	1	NSR		2	NSR
10-14	33	2.0	6	NSR		21	1.3	4	NSR		4	NSR
15-19	392	21.0	39	12.2	*	225	12.3	13	4.2	*	35	10.8
20-24	603	33.3	77	25.3	*	185	10.5	19	6.3	*	33	11.1
25-29	402	25.6	54	21.7	*	129	8.6	17	6.8	*	36	13.3
30-34	251	16.3	46	20.8	*	78	5.2	11	4.7		16	6.3
35-39	271	16.7	39	18.5		79	4.9	8	NSR		31	12.9
40-44	285	15.6	24	11.0	*	121	6.6	9	NSR		14	6.5
45-49	337	17.0	46	21.2	*	127	6.3	11	4.5	*	13	6.9
50-54	331	16.5	18	9.1	*	103	5.0	13	5.6		12	8.4
55-59	272	14.9	21	13.2		91	4.8	14	7.1	*	6	NSR
60-64	212	13.8	14	11.6		72	4.4	3	NSR		6	NSR
65-69	146	12.7	7	NSR		74	5.6	5	NSR		4	NSR
70-74	147	16.5	8	NSR		102	9.2	3	NSR		2	NSR
75-79	166	23.6	5	NSR		111	11.3	7	NSR		2	NSR
80-84	169	32.3	8	NSR		127	15.2	8	NSR		2	NSR
85 +	156	36.6	1	NSR		144	15.3	2	NSR		0	NSR

* 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, 2007-2011

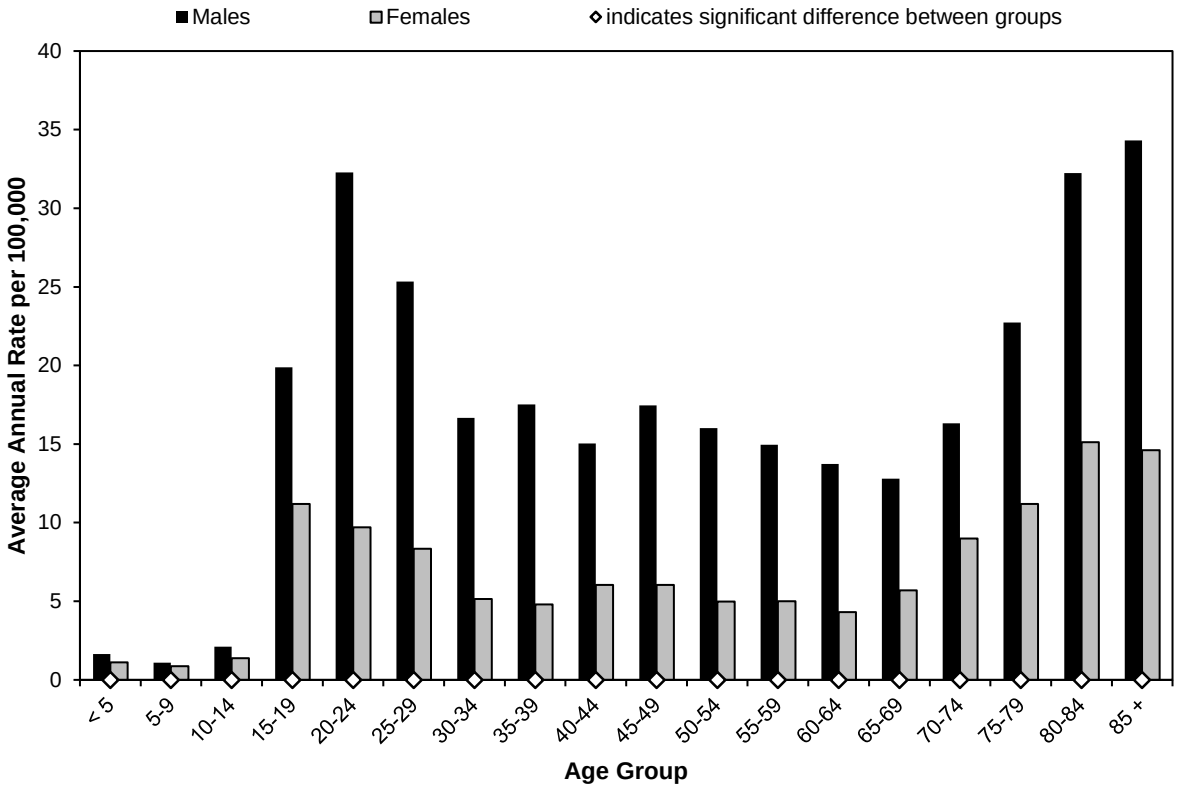
AGE	NORTHWEST			NORTH CENTRAL			NORTHEAST			SOUTHEAST			SOUTH CENTRAL			SOUTHWEST		
GROUP	No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate	
TOTAL	**707**	**15.3**		**513**	**14.9**		**980**	**12.4**		**2,082**	**8.3**		**1,179**	**14.3**		**1,472**	**10.9**	
< 5	4	NSR		3	NSR		10	2.3	+	20	1.2		7	NSR		7	NSR	
5-9	4	NSR		3	NSR		2	NSR		12	NSR		7	NSR		9	NSR	
10-14	9	NSR		6	NSR		8	NSR		23	1.4	-	6	NSR		18	2.3	
15-19	64	18.6	+	49	16.1		98	17.1		227	12.3	-	141	24.6	+	135	14.5	
20-24	92	29.3	+	76	20.7		146	27.4	+	283	15.7	-	153	29.2	+	187	20.9	
25-29	63	24.3	+	48	25.7	+	87	19.4	+	212	12.9	-	95	19.3	+	141	18.1	
30-34	45	17.2	+	24	12.8		38	8.5	-	120	7.7	-	76	15.4	+	104	13.6	
35-39	43	15.5	+	28	14.1	+	59	12.1		127	7.9	-	88	16.7	+	90	11.1	
40-44	54	17.5	+	38	17.4	+	73	13.3	+	125	7.1	-	83	14.2	+	82	9.0	-
45-49	56	16.7	+	38	16.1	+	86	14.5	+	163	8.8	-	77	12.5		121	12.0	
50-54	60	17.3	+	31	13.0	+	63	10.6		139	7.7	-	85	13.9	+	105	10.0	
55-59	26	8.1	-	37	16.7	+	59	11.0		125	7.9	-	70	12.4	+	96	9.9	
60-64	39	14.2	+	31	16.1	+	41	8.6		72	5.5	-	51	10.6	+	80	9.8	
65-69	28	13.0	+	15	9.6		44	12.0	+	65	6.6	-	42	11.2	+	50	8.1	
70-74	28	15.6	+	22	17.3	+	40	13.8		78	9.9	-	48	16.2	+	53	10.2	-
75-79	34	22.8	+	20	19.3		46	19.4	+	91	13.8	-	49	20.4	+	53	11.9	-
80-84	33	27.9	+	20	25.1		37	19.6		104	19.9		52	28.8	+	72	19.2	
85 +	25	21.6		24	30.9	+	43	22.9		96	17.8	-	49	27.9	+	69	18.2	-

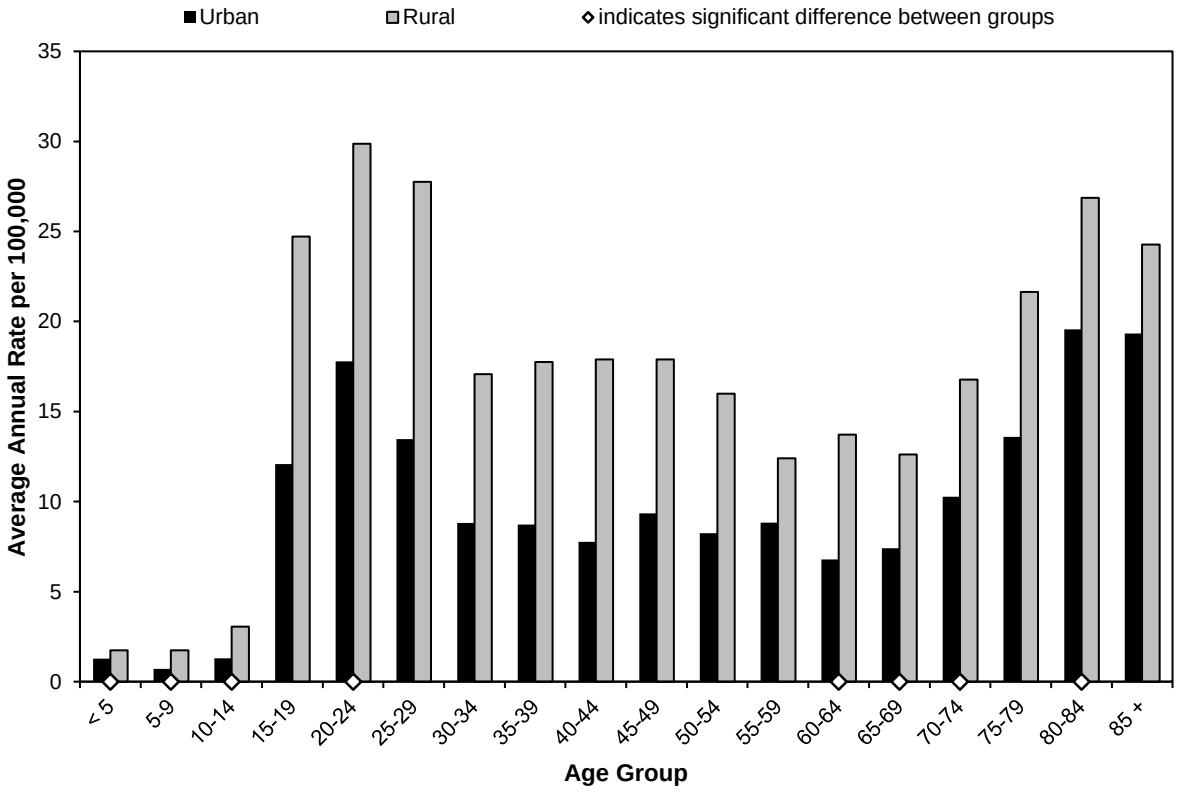
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

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

INJURY DEATHS: MOTOR VEHICLE TRAFFIC

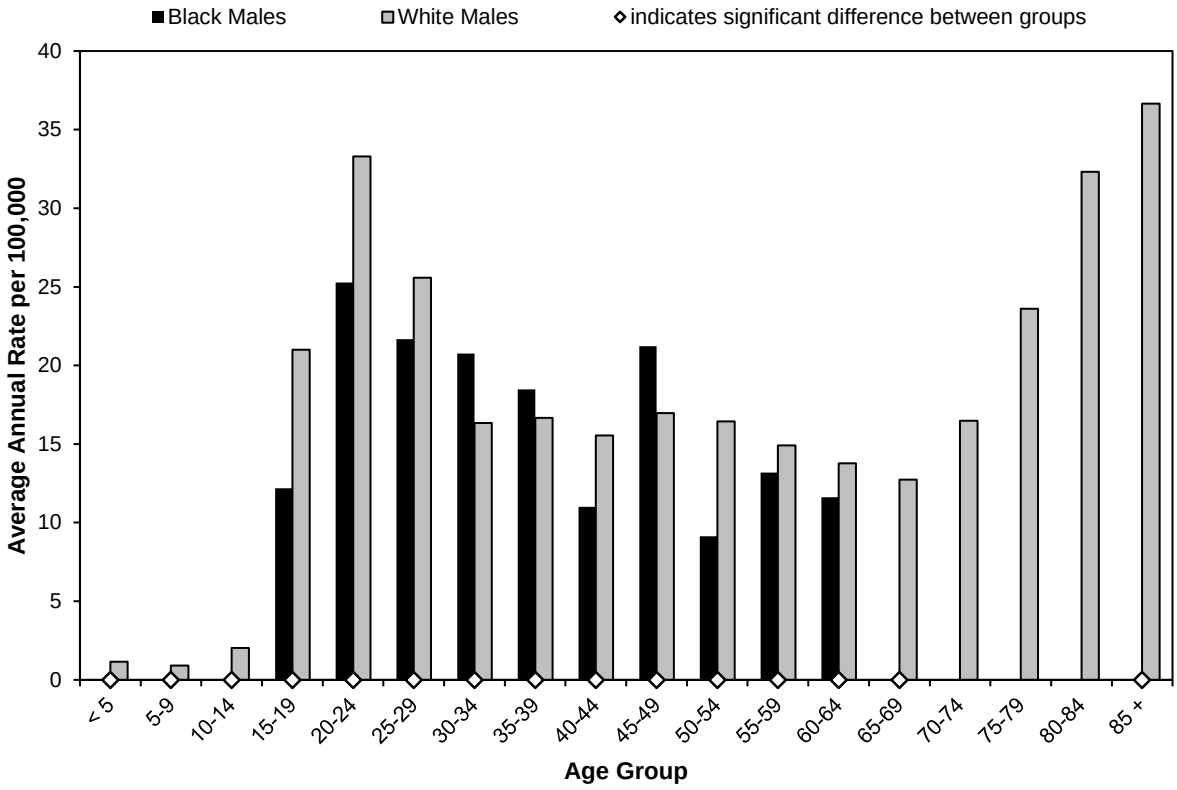
AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2007-2011

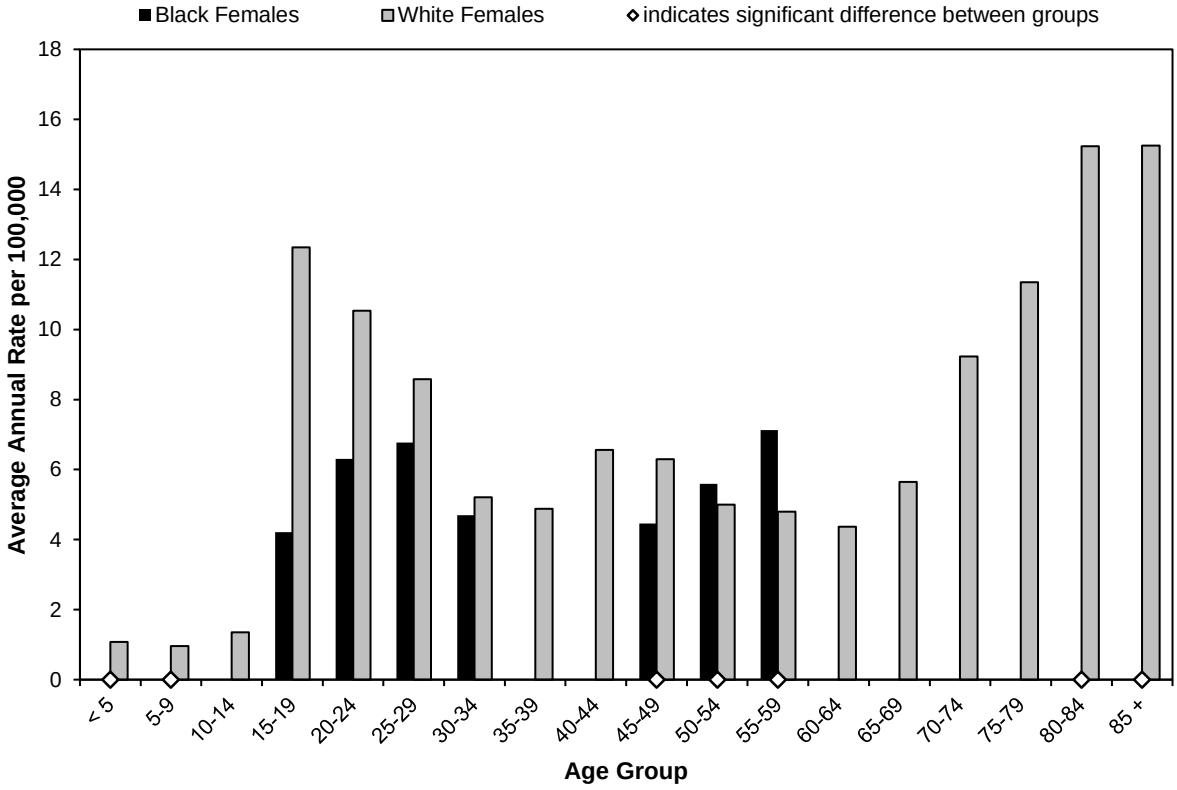




INJURY DEATHS: MOTOR VEHICLE TRAFFIC

AVERAGE ANNUAL DEATH RATES BY SEX AND RACE
PENNSYLVANIA RESIDENTS, 2007-2011





INJURY DEATHS: MOTOR VEHICLE TRAFFIC

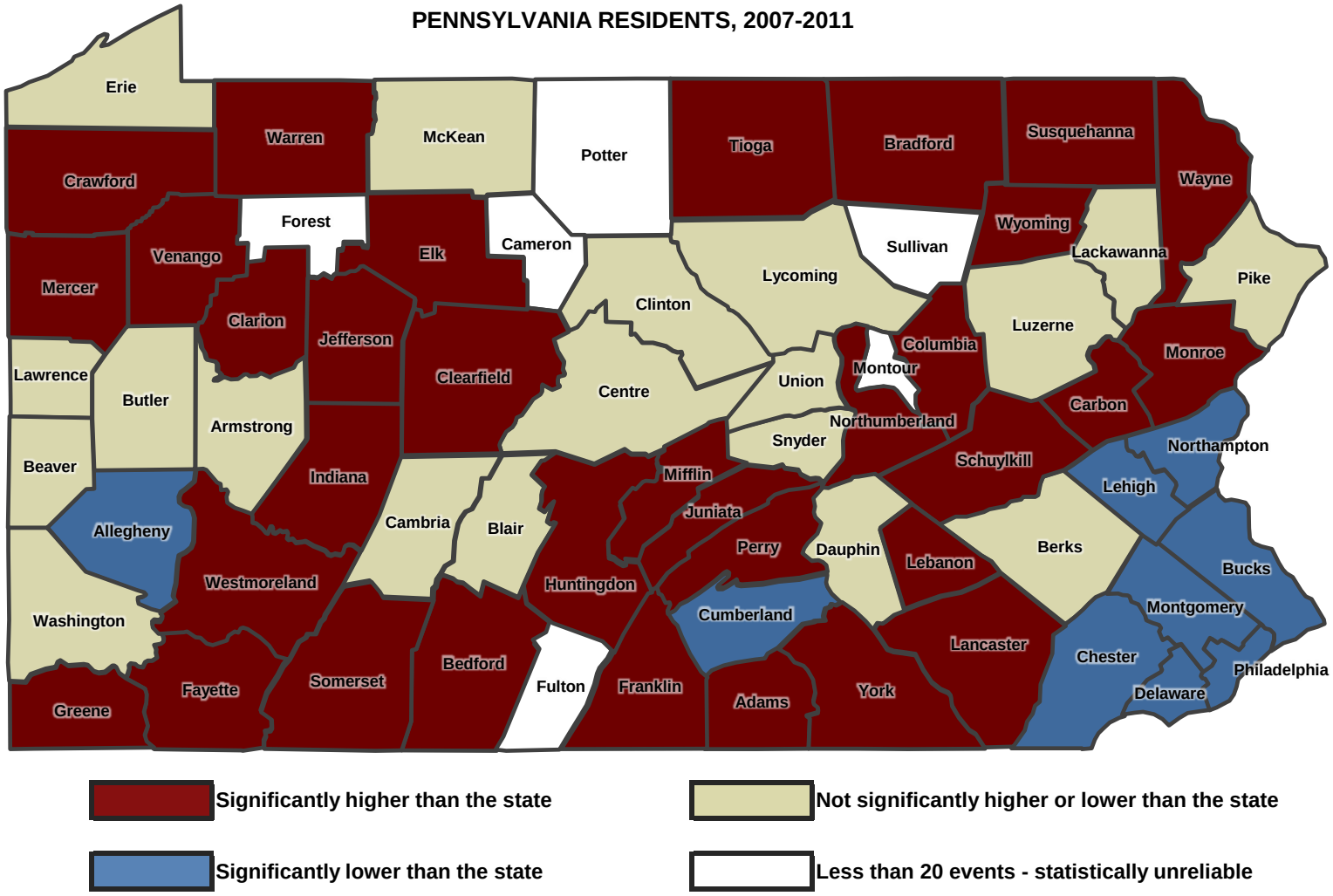
NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2007-2011

District/County	No.	Rate	CI (95%)		District/County	No.	Rate	CI (95%)	
Northeast	980	11.9	11.2-12.7	+	**Southeast**	2,082	8.0	7.7-8.4	-
Carbon	53	16.0	11.7-20.3	+	Berks	232	11.2	9.8-12.7	
Lackawanna	123	11.0	9.0-12.9		Bucks	240	7.6	6.7-8.6	-
Lehigh	158	8.8	7.4-10.2	-	Chester	185	7.5	6.4-8.6	-
Luzerne	205	12.1	10.5-13.8		Delaware	166	5.7	4.8-6.6	-
Monroe	141	16.5	13.7-19.2	+	Lancaster	320	12.4	11.0-13.7	+
Northampton	133	8.6	7.1-10.1	-	Montgomery	244	6.2	5.4-7.0	-
Pike	40	14.6	10.1-19.1		Philadelphia	555	7.1	6.5-7.7	-
Susquehanna	51	25.9	18.8-33.1	+	Schuylkill	140	18.5	15.4-21.5	+
Wayne	43	16.9	11.9-22.0	+					
Wyoming	33	24.1	15.9-32.3	+					
North Central	513	13.9	12.7-15.1	+	**South Central**	1,179	14.0	13.2-14.8	+
Bradford	58	18.8	14.0-23.6	+	Adams	83	16.7	13.1-20.3	+
Centre	70	9.5	7.3-11.7		Bedford	57	25.1	18.6-31.6	+
Clinton	33	16.2	10.7-21.8		Blair	76	11.4	8.9-14.0	
Columbia	55	16.5	12.2-20.9	+	Cumberland	112	8.9	7.2-10.5	-
Lycoming	81	12.6	9.8-15.3		Dauphin	154	11.7	9.8-13.5	
Montour	9	NSR			Franklin	120	16.6	13.6-19.6	+
Northumberland	84	17.6	13.9-21.4	+	Fulton	18	NSR		
Potter	17	NSR			Huntingdon	53	23.4	17.1-29.7	+
Snyder	27	13.9	8.7-19.2		Juniata	32	27.5	18.0-37.0	+
Sullivan	7	NSR			Lebanon	99	14.2	11.4-16.9	+
Tioga	48	23.3	16.7-29.9	+	Mifflin	41	18.0	12.5-23.5	+
Union	24	9.7	5.8-13.6		Perry	56	25.7	18.9-32.4	+
					York	278	12.8	11.3-14.3	+
Northwest	707	14.8	13.7-15.9	+	**Southwest**	1,472	10.4	9.9-11.0	
Cameron	10	NSR			Allegheny	401	6.1	5.5-6.6	-
Clarion	51	25.4	18.4-32.4	+	Armstrong	48	12.9	9.3-16.6	
Clearfield	78	18.8	14.7-23.0	+	Beaver	101	11.5	9.2-13.7	
Crawford	81	18.4	14.4-22.5	+	Butler	111	11.9	9.7-14.1	
Elk	32	18.1	11.9-24.4	+	Cambria	97	13.2	10.6-15.8	
Erie	142	9.7	8.1-11.3		Fayette	156	23.3	19.6-27.0	+
Forest	10	NSR			Greene	43	20.8	14.6-27.0	+
Jefferson	39	18.2	12.5-24.0	+	Indiana	76	16.5	12.8-20.2	+
Lawrence	47	10.1	7.2-13.0		Somerset	69	16.9	12.9-20.8	+
McKean	35	15.7	10.5-20.9		Washington	123	11.5	9.5-13.6	
Mercer	83	14.1	11.0-17.1	+	Westmoreland	247	13.9	12.1-15.6	+
Venango	52	19.0	13.9-24.2	+					
Warren	47	23.1	16.5-29.7	+	Pennsylvania	6,933	10.6	10.4-10.9	

NOTE: Rates based on less than 20 events are unreliable and were not calculated. See Technical Notes.
+/- denotes that the county's rate is significantly higher or lower than the state at the p=.05 level.

INJURY DEATHS: MOTOR VEHICLE TRAFFIC

AGE-ADJUSTED DEATH RATES BY COUNTY, WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE PENNSYLVANIA RESIDENTS, 2007-2011



Significantly higher than the state

Not significantly higher or lower than the state

Significantly lower than the state

Less than 20 events - statistically unreliable

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, 2007-2011

Geography	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	4,881	2,052	**6,933**	1,866	11.7	1,619	13.5	1,413	11.0	983	7.9	1,052	10.9
Northeast	696	284	**980**	299	15.2	191	13.4	212	13.0	133	8.3	145	11.4
Carbon	36	17	53	13	18.3	14	24.3	13	19.4	7	NSR	6	NSR
Lackawanna	92	31	123	47	18.7	19	9.6	23	11.1	17	8.1	17	9.0
Lehigh	105	53	158	40	8.9	27	8.3	28	7.9	22	6.6	41	15.8
Luzerne	150	55	205	68	18.8	38	13.2	41	12.7	29	9.1	29	10.2
Monroe	101	40	141	24	10.4	34	23.2	36	19.5	25	14.6	22	21.2
Northampton	95	38	133	41	10.6	25	9.2	34	11.1	14	4.8	19	8.5
Pike	23	17	40	18	25.3	5	NSR	8	NSR	5	NSR	4	NSR
Susquehanna	41	10	51	21	42.4	11	33.3	12	28.9	4	NSR	3	NSR
Wayne	29	14	43	14	25.3	8	NSR	9	NSR	8	NSR	4	NSR
Wyoming	24	9	33	13	35.3	10	42.9	8	NSR	2	NSR	0	NSR
Southeast	1,485	597	**2,082**	460	6.8	525	10.5	423	8.1	289	6.1	385	11.0
Berks	180	52	232	54	9.6	55	14.7	57	13.4	27	7.1	39	13.3
Bucks	163	77	240	63	7.9	38	7.4	52	7.4	41	6.2	46	10.3
Chester	131	54	185	61	8.8	37	8.4	37	6.7	21	4.4	29	9.3
Delaware	123	43	166	41	5.5	38	7.1	30	5.3	21	3.9	36	9.1
Lancaster	228	92	320	50	7.0	103	21.3	65	12.9	37	7.9	65	17.1
Montgomery	161	83	244	65	6.5	54	7.7	46	5.3	28	3.6	51	8.6
Philadelphia	405	150	555	78	3.8	173	9.5	109	7.6	97	7.8	98	10.5
Schuylkill	94	46	140	48	29.7	27	20.6	27	16.7	17	11.4	21	15.7

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	4,881	2,052	**6,933**	1,866	11.7	1,619	13.5	1,413	11.0	983	7.9	1,052	10.9
North Central	347	166	**513**	182	21.2	103	13.9	105	16.1	70	10.7	53	9.7
Bradford	35	23	58	21	26.9	13	25.9	13	20.7	8	NSR	3	NSR
Centre	49	21	70	23	12.2	14	5.9	13	10.6	8	NSR	12	14.2
Clinton	20	13	33	10	20.0	10	26.5	7	NSR	6	NSR	0	NSR
Columbia	42	13	55	24	28.5	10	14.3	12	20.2	4	NSR	5	NSR
Lycoming	55	26	81	21	14.8	11	9.8	23	19.9	16	13.6	10	10.4
Montour	7	2	9	7	NSR	2	NSR	0	NSR	0	NSR	0	NSR
Northumberland	56	28	84	31	29.2	11	14.2	17	17.9	10	10.3	15	17.4
Potter	14	3	17	8	NSR	4	NSR	4	NSR	1	NSR	0	NSR
Snyder	18	9	27	11	21.1	7	NSR	4	NSR	4	NSR	1	NSR
Sullivan	6	1	7	4	NSR	3	NSR	0	NSR	0	NSR	0	NSR
Tioga	28	20	48	14	25.8	12	33.5	8	NSR	9	NSR	5	NSR
Union	17	7	24	8	NSR	6	NSR	4	NSR	4	NSR	2	NSR
South Central	834	345	**1,179**	374	17.7	264	17.5	236	13.7	150	9.0	155	12.2
Adams	61	22	83	32	24.2	20	22.0	15	14.1	7	NSR	9	NSR
Bedford	39	18	57	25	41.8	14	35.2	10	19.4	3	NSR	5	NSR
Blair	54	22	76	9	NSR	17	15.2	16	12.9	15	11.5	19	17.1
Cumberland	81	31	112	47	16.3	25	10.7	17	7.3	12	5.3	11	6.1
Dauphin	113	41	154	43	12.8	35	14.5	33	11.8	23	8.5	20	11.1
Franklin	81	39	120	48	24.9	26	20.0	18	12.4	9	NSR	19	15.6
Fulton	9	9	18	7	NSR	4	NSR	7	NSR	0	NSR	0	NSR
Huntingdon	34	19	53	19	36.2	19	42.4	7	NSR	6	NSR	2	NSR
Juniata	25	7	32	15	48.5	6	NSR	6	NSR	5	NSR	0	NSR
Lebanon	70	29	99	34	20.6	13	10.7	24	18.6	11	8.5	17	15.4
Mifflin	30	11	41	14	23.3	10	26.3	7	NSR	8	NSR	2	NSR
Perry	41	15	56	13	21.7	15	38.0	16	32.7	4	NSR	8	NSR
York	196	82	278	68	12.2	60	15.6	60	12.6	47	10.9	43	14.3

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	4,881	2,052	**6,933**	1,866	11.7	1,619	13.5	1,413	11.0	983	7.9	1,052	10.9
Northwest	480	227	**707**	205	17.7	185	22.2	135	14.7	109	11.6	73	9.4
Cameron	7	3	10	6	NSR	3	NSR	1	NSR	0	NSR	0	NSR
Clarion	38	13	51	20	39.2	14	35.2	9	NSR	6	NSR	2	NSR
Clearfield	49	29	78	10	11.2	22	30.1	16	17.8	17	20.1	13	18.0
Crawford	50	31	81	22	19.0	22	28.7	19	22.2	11	12.0	7	NSR
Elk	26	6	32	13	34.8	7	NSR	5	NSR	7	NSR	0	NSR
Erie	98	44	142	19	5.1	46	16.2	30	10.9	21	7.8	26	12.8
Forest	7	3	10	5	NSR	5	NSR	0	NSR	0	NSR	0	NSR
Jefferson	27	12	39	20	36.7	10	26.4	5	NSR	3	NSR	1	NSR
Lawrence	27	20	47	15	13.5	8	NSR	9	NSR	9	NSR	6	NSR
McKean	23	12	35	12	22.5	8	NSR	9	NSR	6	NSR	0	NSR
Mercer	60	23	83	26	17.7	17	17.3	16	14.1	14	11.8	10	9.5
Venango	35	17	52	20	30.0	12	27.5	10	18.7	6	NSR	4	NSR
Warren	33	14	47	17	35.3	11	34.6	6	NSR	9	NSR	4	NSR
Southwest	1,039	433	**1,472**	346	10.9	351	14.4	302	11.1	232	8.2	241	10.3
Allegheny	285	116	401	34	2.4	110	9.4	70	5.8	84	6.7	103	10.1
Armstrong	38	10	48	14	17.1	10	19.0	10	14.2	9	NSR	5	NSR
Beaver	77	24	101	28	14.1	20	14.1	19	10.9	19	10.2	15	9.5
Butler	65	46	111	27	11.3	29	18.4	21	10.7	22	11.7	12	8.7
Cambria	72	25	97	22	13.4	26	20.7	18	12.7	12	7.8	19	14.1
Fayette	112	44	156	51	31.5	38	32.2	34	23.4	13	8.4	20	16.1
Greene	28	15	43	19	42.7	7	NSR	11	26.6	4	NSR	2	NSR
Indiana	57	19	76	18	15.8	14	14.9	16	20.5	16	18.8	12	17.2
Somerset	50	19	69	26	31.2	13	19.2	16	19.6	9	NSR	5	NSR
Washington	85	38	123	41	16.7	24	13.4	27	13.0	15	6.8	16	8.9
Westmoreland	170	77	247	66	16.1	60	20.7	60	16.0	29	7.2	32	9.4

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 DEATHS: MOTOR VEHICLE TRAFFIC

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

BLACK POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	75	9.9	7.6-12.1
Chester	21	13.5	7.7-19.3
Dauphin	33	14.6	9.6-19.5
Delaware	28	5.3	3.3-7.3
Montgomery	34	9.5	6.3-12.7
Philadelphia	269	7.9	7.0-8.8
Pennsylvania	578	8.4	7.7-9.1

WHITE POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	311	5.5	4.9-6.1
Chester	147	6.6	5.5-7.7
Dauphin	114	10.9	8.9-12.9
Delaware	134	5.9	4.9-6.9
Montgomery	190	5.8	4.9-6.6
Philadelphia	186	4.9	4.2-5.6
Pennsylvania	6,022	10.8	10.5-11.1

HISPANIC POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Berks	19	5.9	3.2-8.5
Lancaster	19	7.8	4.3-11.2
Lehigh	17	7.2	3.8-10.7
Philadelphia	72	9	6.7-10.8
Pennsylvania	225	7.1	6.2-8.1

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

Select Counties		Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+	
County and Race		Cty. Pop.	Male	Female	All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Allegheny	Black	13.4%	54	21	**75**	18.7%	5	NSR	29	16.7	18	11.9	11	8.2	12	13.4
	White	82.4%	221	90	**311**	77.6%	27	2.5	76	8.2	48	4.7	69	6.3	91	9.9
Chester	Black	6.2%	16	5	**21**	11.4%	2	NSR	11	31.3	5	NSR	1	NSR	2	NSR
	White	88.3%	101	46	**147**	79.5%	26	4.4	37	9.8	22	4.5	31	7.0	31	10.7
Dauphin	Black	18.1%	25	8	**33**	21.4%	4	NSR	16	33.3	8	NSR	4	NSR	1	NSR
	White	75.8%	83	31	**114**	74.0%	8	NSR	25	14.2	24	11.2	25	11.2	32	20.5
Delaware	Black	19.2%	20	8	**28**	16.9%	3	NSR	10	7.8	11	9.9	3	NSR	1	NSR
	White	74.4%	99	35	**134**	80.7%	11	2.2	30	8.1	21	5.0	28	6.4	44	12.8
Montgomery	Black	8.8%	19	15	**34**	13.9%	7	NSR	9	NSR	12	15.0	2	NSR	4	NSR
	White	83.2%	125	65	**190**	77.9%	20	2.5	59	10.6	36	5.1	22	3.3	53	9.9
Philadelphia	Black	45.1%	190	79	**269**	48.5%	39	3.7	103	13.8	59	9.0	37	6.7	31	8.6
	White	45.3%	135	51	**186**	33.5%	16	2.1	43	5.0	29	4.5	38	6.3	60	11.3
Pennsylvania	Black	10.9%	426	152	**578**	8.3%	80	3.6	224	14.3	137	10.0	83	7.8	54	8.3
	White	84.5%	4,204	1,818	**6,022**	86.9%	731	5.7	1,648	17.0	1,220	11.2	1,081	9.8	1,342	15.1

INJURY DEATHS: FIREARM-RELATED

In 2011, among Pennsylvania residents, there were 1,417 deaths due to firearm-related injuries and violence. On average, one resident died every six hours.

Injury Definition

Firearm-related injury includes:

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

Firearms include handguns, shotguns and rifles.

Violence (suicide and homicide) accounts for over 96 percent of all firearm-related deaths in Pa.

HIGHLIGHTS

- Age-adjusted rates generally **increased slightly** from 2007 to 2011.
- Most common demographic is **black males**, ages 20 to 24.
- Of all Pennsylvania counties, **Elk** and **Philadelphia** had the highest rate.

Trends Over Time

- Firearm-related injury age-adjusted death rates increased slightly by 3 percent from 10.5 deaths per 100,000 population in 2007 to 10.8 deaths per 100,000 population in 2011.
- Males had significantly higher age-adjusted firearm death rates than females for all age groups where rates could be calculated from 2007 to 2011.
- Urban populations had significantly higher firearm death rates for ages 15 to 34, while rural populations had higher rates for ages 40 and older.

Demographic Trends

- Among males, blacks had significantly higher age-adjusted firearm death rates than whites for ages under 50, while whites had significantly higher rates than blacks for ages 55 and older where rates could be calculated during 2007 to 2011.
- Among females, blacks had significantly higher rates for all age groups where rates could be calculated from 2007 to 2011.
- Urban males had higher age-adjusted firearm death rates than rural males from 2007 to 2011. Urban females had higher age-adjusted firearm death rates than rural females in 2007, while rural females had higher age-adjusted firearm death rates than urban females from 2008 to 2011 except in 2010 where rates were almost the same.

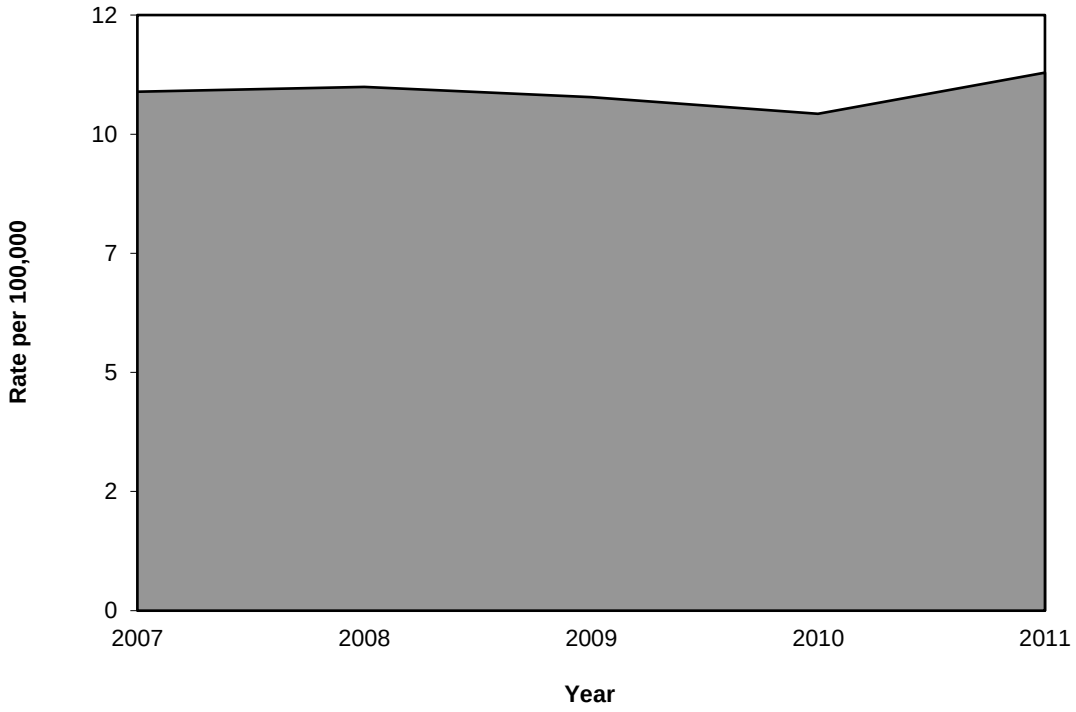
Regional Trends

- The Southeast Health District had the highest age-adjusted firearm death rate while the North Central Health District had the lowest rate.
- Two counties had age-adjusted firearm death rates that were significantly higher than the comparable state rate in 2007 to 2011; these were Philadelphia and Allegheny, both urban counties.

INJURY DEATHS: FIREARM-RELATED

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES
PENNSYLVANIA RESIDENTS, 2007-2011

Year	No.	Rate
2007	1,308	10.5
2008	1,335	10.6
2009	1,336	10.3
2010	1,294	10.0
2011	1,417	10.8



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2007-2011

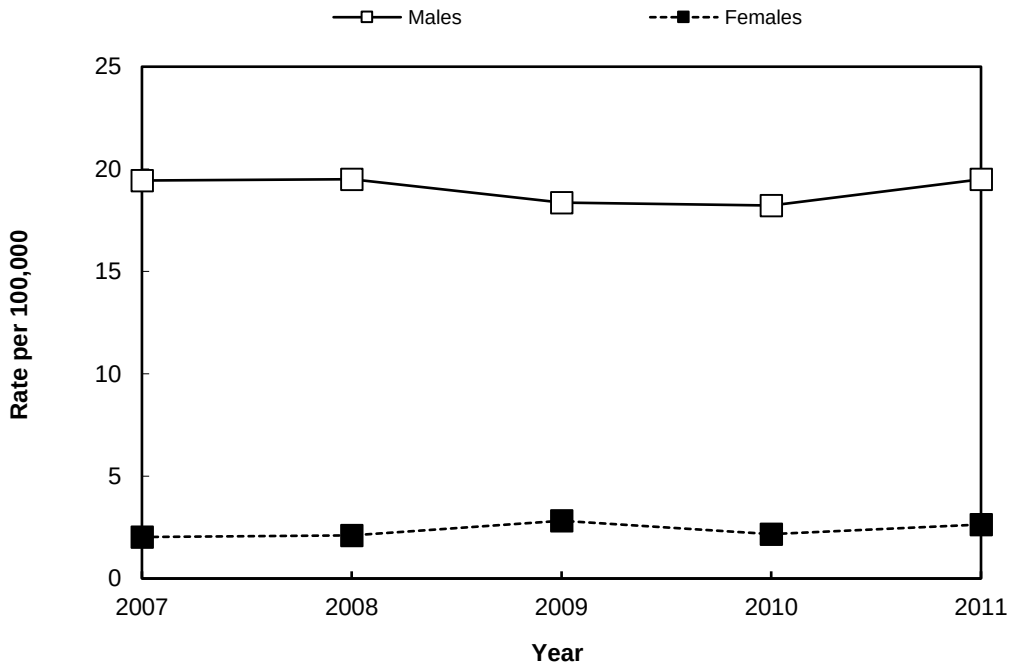
Year	Northwest	North Central	Northeast	Southeast	South Central	Southwest
2007	8.5	8.2	9.1	12.8	7.8	9.7
2008	8.4	8.0	9.0	12.1	8.7	11.1
2009	9.5	7.5	7.8	11.2	10.0	11.3
2010	11.2	9.5	8.0	10.7	9.5	9.8
2011	10.6	7.9	10.1	12.0	8.8	11.1

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2007-2011 based on ICD-9 codes. See Technical Notes.

INJURY DEATHS: FIREARM-RELATED

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES BY SEX
PENNSYLVANIA RESIDENTS, 2007-2011

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2007	1,181	19.4	2007	127	2.0
2008	1,199	19.5	2008	136	2.1
2009	1,152	18.4	2009	184	2.8
2010	1,153	18.2	2010	141	2.2
2011	1,248	19.5	2011	169	2.6



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2007-2011

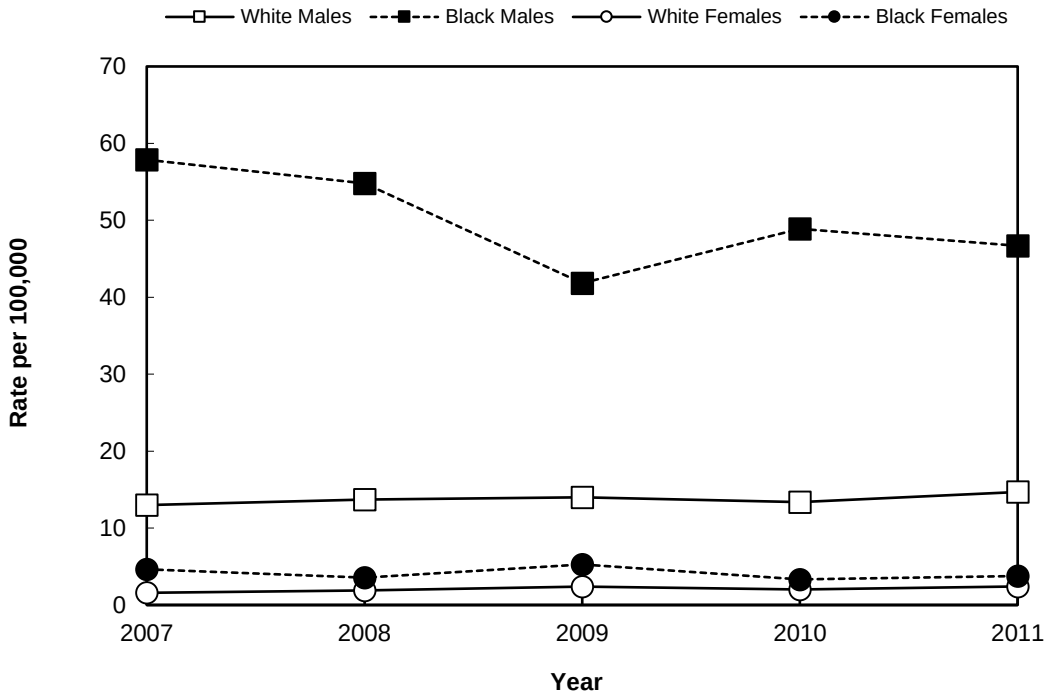
Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2007	20.8	15.9	2007	2.1	1.7
2008	20.7	16.3	2008	2.0	2.4
2009	19.2	16.1	2009	2.7	3.3
2010	19.0	15.9	2010	2.2	2.1
2011	20.1	18.0	2011	2.6	2.7

NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania. Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY DEATHS: FIREARM-RELATED

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES BY SEX AND RACE OR ETHNICITY
PENNSYLVANIA RESIDENTS, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	694	408	88	32	70	6
2008	751	392	106	26	48	4
2009	773	312	138	39	59	6
2010	729	356	112	24	39	2
2011	823	358	132	28	47	7



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	13.0	57.9	1.6	4.6	23.8	NSR
2008	13.7	54.8	1.9	3.6	16.0	NSR
2009	14.0	41.8	2.4	5.3	18.8	NSR
2010	13.4	48.9	2.0	3.3	8.8	NSR
2011	14.7	46.7	2.4	3.8	11.0	NSR

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, 2007-2011

AGE	PA TOTAL		MALE		FEMALE			URBAN		RURAL		
GROUP	No.	Rate	No.	Rate	No.	Rate		No.	Rate	No.	Rate	
TOTAL	**6,690**	**10.6**	**5,933**	**19.4**	**757**	**2.3**		**5,006**	**11.0**	**1,684**	**9.8**	
< 5	15	0.4	12	0.6	3	NSR		13	0.5	2	NSR	
5-9	13	0.3	8	NSR	5	NSR		10	0.4	3	NSR	
10-14	31	0.8	24	1.2	7	NSR		17	0.6	14	1.3	*
15-19	545	11.9	504	21.7	41	1.8	*	486	14.7	59	4.6	*
20-24	922	20.8	855	38.1	67	3.1	*	801	25.1	121	9.8	*
25-29	709	18.6	642	33.2	67	3.6	*	595	20.7	114	12.2	*
30-34	580	15.6	511	27.3	69	3.7	*	455	16.5	125	13.0	*
35-39	514	13.2	440	22.6	74	3.8	*	392	13.7	122	11.7	
40-44	519	12.0	444	20.7	75	3.4	*	375	11.8	144	12.3	
45-49	553	11.9	475	20.8	78	3.3	*	368	10.9	185	14.6	*
50-54	577	12.4	502	22.0	75	3.2	*	389	11.6	188	14.6	*
55-59	438	10.4	379	18.6	59	2.7	*	284	9.5	154	12.9	*
60-64	349	9.8	299	17.5	50	2.7	*	238	9.4	111	10.6	
65-69	238	8.8	213	16.9	25	1.7	*	154	8.1	84	10.2	*
70-74	192	8.7	173	17.8	19	1.6	*	113	7.4	79	11.8	*
75-79	188	10.3	172	22.6	16	1.5	*	125	9.7	63	11.6	*
80-84	170	11.6	151	26.9	19	2.1	*	103	9.9	67	15.8	*
85 +	137	9.3	129	28.2	8	NSR		88	8.3	49	11.8	*

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

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.
Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY DEATHS: FIREARM-RELATED

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES
PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2007-2011

AGE	WHITE MALE		BLACK MALE			WHITE FEMALE		BLACK FEMALE			HISPANICS	
GROUP	No.	Rate	No.	Rate		No.	Rate	No.	Rate		No.	Rate
TOTAL	**3,770**	**14.5**	**1,826**	**56.0**		**576**	**2.1**	**149**	**4.2**		**288**	**8.8**
< 5	8	NSR	3	NSR		3	NSR	0	NSR		0	NSR
5-9	6	NSR	1	NSR		4	NSR	1	NSR		1	NSR
10-14	17	1.0	7	NSR		5	NSR	1	NSR		1	NSR
15-19	128	6.9	339	105.9	*	16	0.9	21	6.8	*	36	11.1
20-24	264	14.6	510	167.5	*	33	1.9	30	10.0	*	71	23.9
25-29	243	15.5	344	138.1	*	43	2.9	20	8.0	*	43	15.8
30-34	263	17.1	211	95.3	*	46	3.1	18	7.7	*	34	13.3
35-39	252	15.5	148	70.1	*	50	3.1	18	7.8	*	39	16.3
40-44	333	18.2	89	40.8	*	58	3.1	15	6.2	*	21	9.8
45-49	389	19.6	64	29.5	*	62	3.1	13	5.3	*	19	10.1
50-54	439	21.8	47	23.9		68	3.3	7	NSR		8	NSR
55-59	346	19.0	22	13.8	*	55	2.9	3	NSR		7	NSR
60-64	278	18.1	15	12.4	*	47	2.8	2	NSR		4	NSR
65-69	198	17.3	10	12.4	*	24	1.8	0	NSR		3	NSR
70-74	169	18.9	2	NSR		19	1.7	0	NSR		1	NSR
75-79	162	23.0	9	NSR		16	1.6	0	NSR		0	NSR
80-84	150	28.7	1	NSR		19	2.3	0	NSR		0	NSR
85 +	125	29.4	4	NSR		8	NSR	0	NSR		0	NSR

* 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, 2007-2011

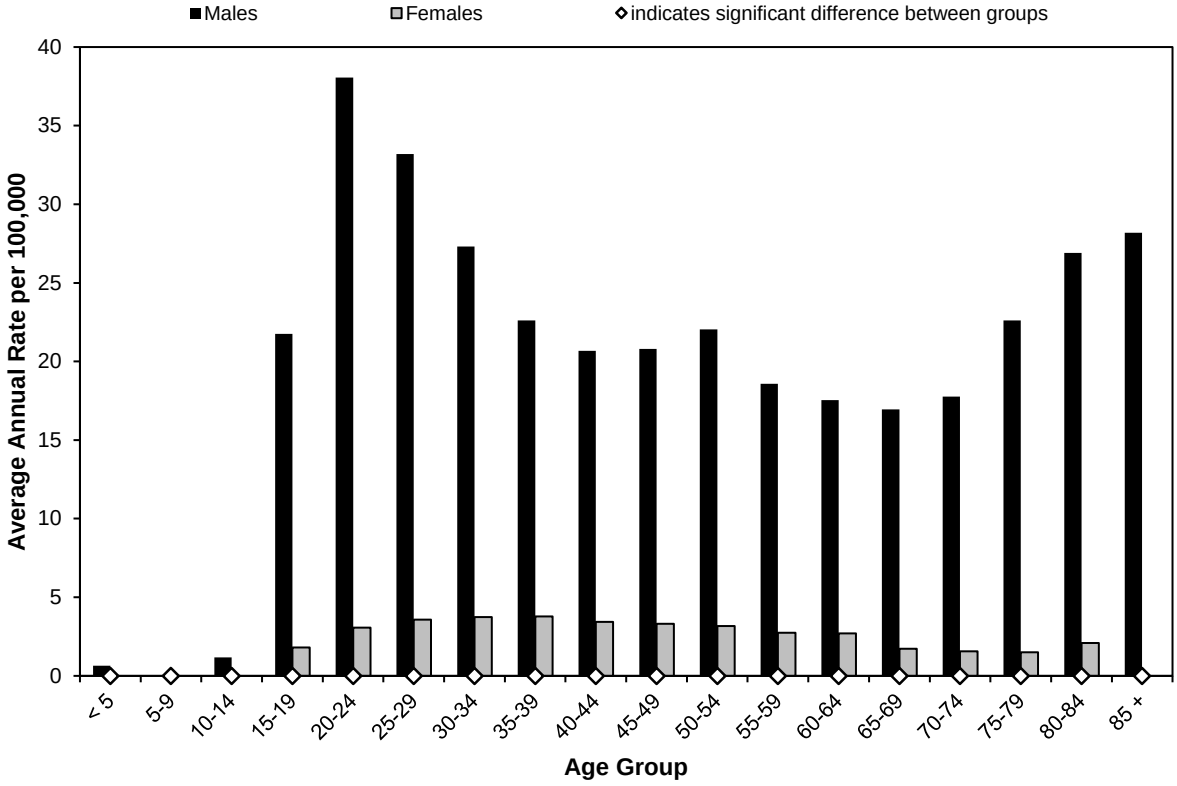
AGE	NORTHWEST			NORTH CENTRAL			NORTHEAST			SOUTHEAST			SOUTH CENTRAL			SOUTHWEST		
GROUP	No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate	
TOTAL	**465**	**10.0**		**295**	**8.6**		**717**	**9.1**		**2,996**	**11.9**		**762**	**9.2**		**1,455**	**10.8**	
< 5	1	NSR		0	NSR		1	NSR		5	NSR		2	NSR		6	NSR	
5-9	2	NSR		0	NSR		1	NSR		2	NSR		0	NSR		8	NSR	
10-14	2	NSR		1	NSR		4	NSR		7	NSR		6	NSR		11	1.4	+
15-19	18	5.2	-	11	3.6	-	44	7.7	-	316	17.1	+	43	7.5	-	113	12.1	
20-24	27	8.6	-	19	5.2	-	81	15.2	-	568	31.6	+	64	12.2	-	163	18.3	
25-29	31	11.9	-	21	11.3	-	55	12.3	-	405	24.7	+	65	13.2	-	132	17.0	
30-34	46	17.6		15	8.0	-	50	11.2	-	273	17.4		57	11.6	-	139	18.1	
35-39	35	12.7		26	13.1		61	12.5		225	14.0		58	11.0	-	109	13.5	
40-44	38	12.3		20	9.2	-	64	11.6		204	11.6		79	13.6		114	12.5	
45-49	35	10.4		32	13.6		56	9.5	-	230	12.4		61	9.9	-	139	13.8	
50-54	58	16.8	+	28	11.7		74	12.5		222	12.3		81	13.2		114	10.8	
55-59	40	12.5	+	31	14.0	+	58	10.8		149	9.4		57	10.1		103	10.6	
60-64	37	13.5	+	21	10.9		57	12.0	+	123	9.4		46	9.5		65	7.9	-
65-69	16	7.4		15	9.6		33	9.0		74	7.5	-	40	10.7	+	60	9.7	
70-74	26	14.5	+	15	11.8		23	7.9		51	6.5	-	31	10.4		46	8.9	
75-79	20	13.4	+	18	17.4	+	25	10.5		54	8.2	-	26	10.8		45	10.1	
80-84	18	15.2		15	18.9	+	17	9.0	-	43	8.2	-	27	14.9	+	50	13.3	
85 +	15	12.9	+	7	NSR		13	6.9	-	45	8.3		19	10.8		38	10.0	

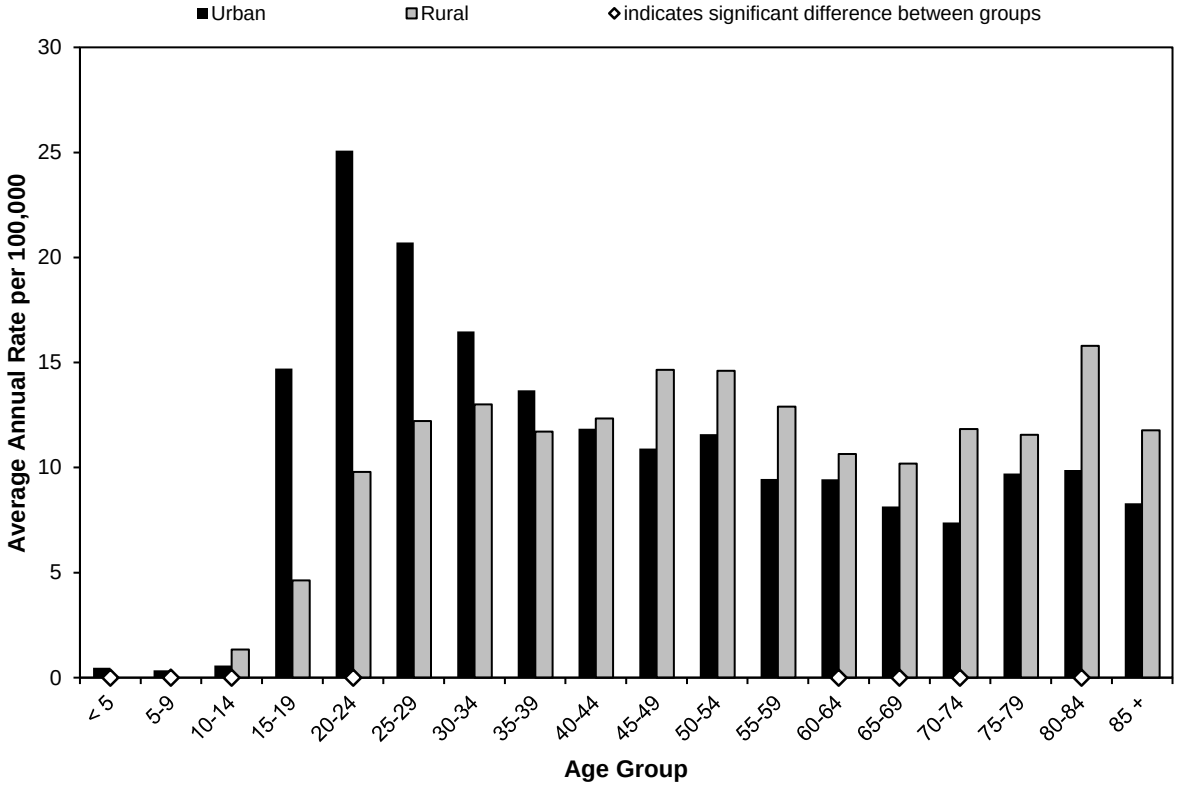
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

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

INJURY DEATHS: FIREARM-RELATED

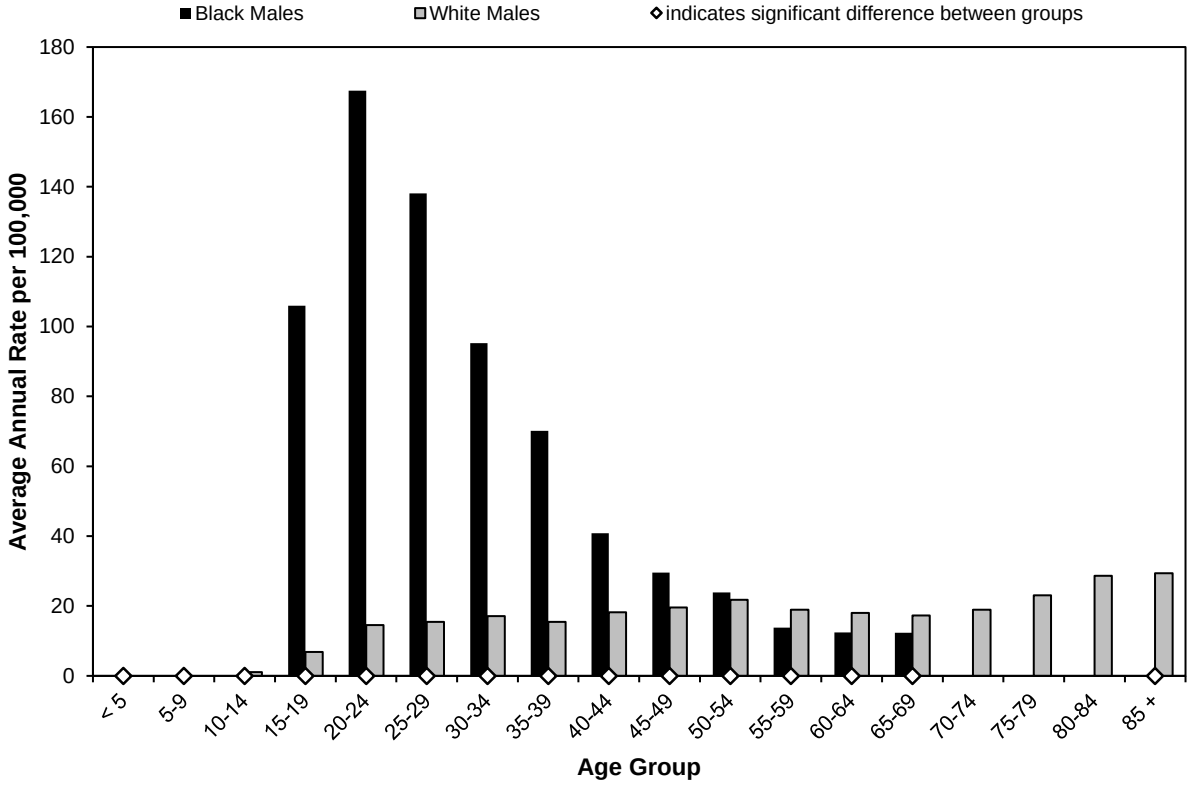
AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2007-2011

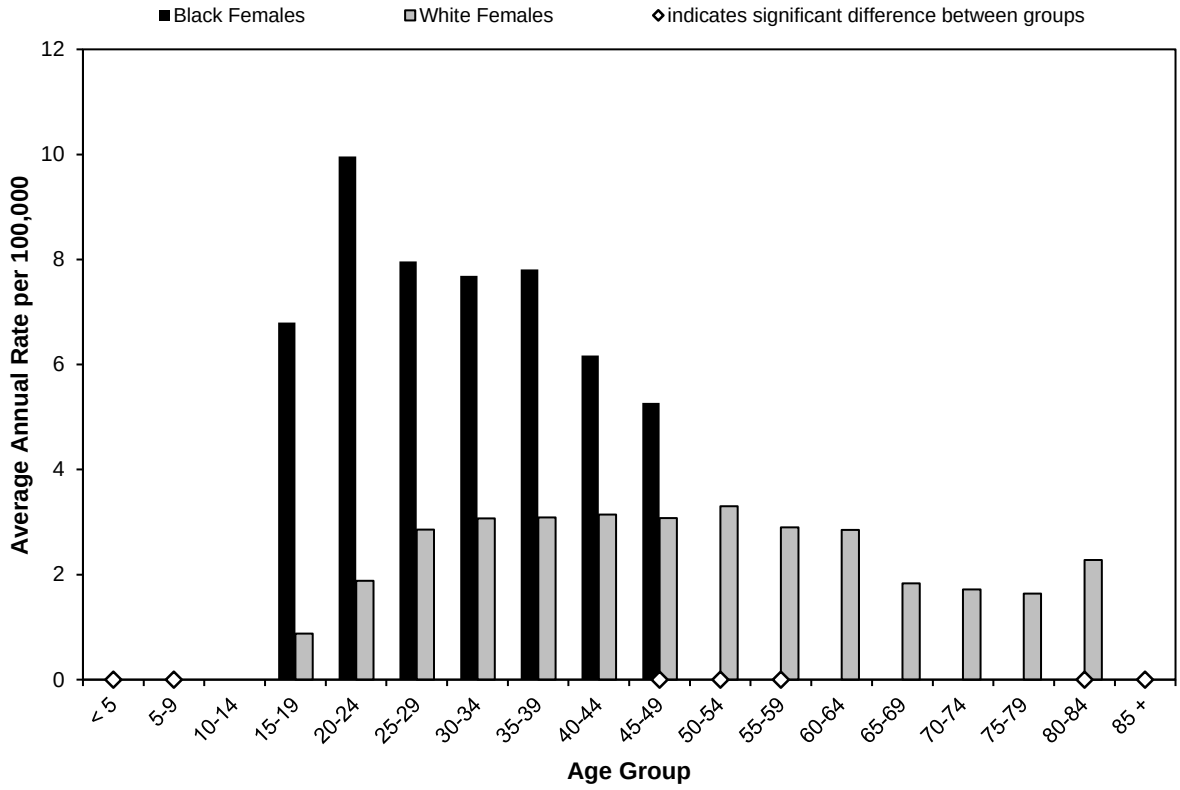




INJURY DEATHS: FIREARM-RELATED

AVERAGE ANNUAL DEATH RATES BY SEX AND RACE
PENNSYLVANIA RESIDENTS, 2007-2011





INJURY DEATHS: FIREARM-RELATED

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2007-2011

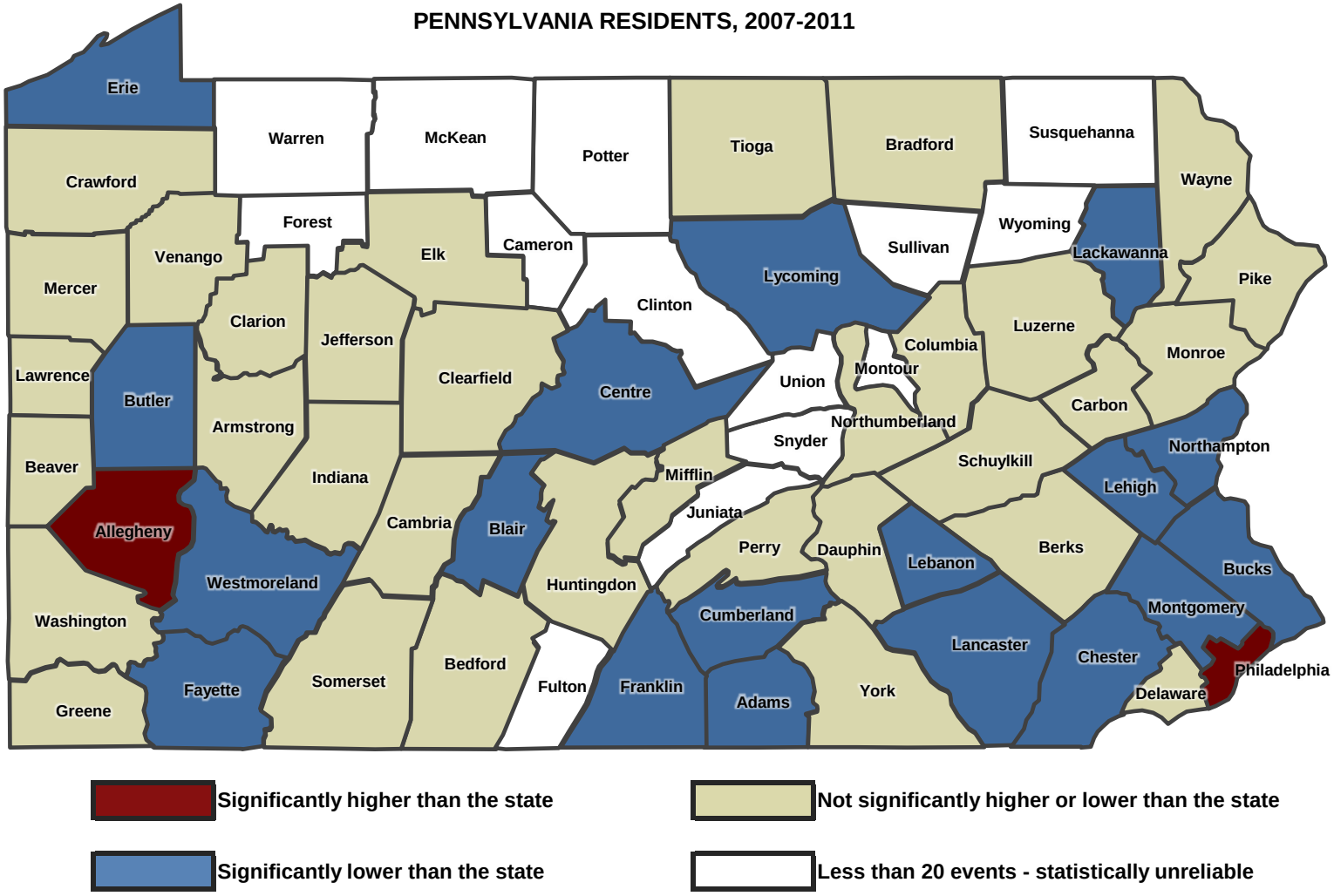
District/County	No.	Rate	CI (95%)	
Northeast	717	8.8	8.1-9.4	-
Carbon	39	10.0	6.9-13.2	
Lackawanna	90	8.0	6.4-9.7	-
Lehigh	134	7.6	6.3-8.9	-
Luzerne	168	10.6	9.0-12.2	
Monroe	81	9.7	7.6-11.8	
Northampton	113	7.5	6.1-8.9	-
Pike	23	7.3	4.3-10.3	
Susquehanna	18	NSR		
Wayne	39	13.7	9.4-18.0	
Wyoming	12	NSR		
North Central	295	8.2	7.3-9.2	-
Bradford	43	12.7	8.9-16.4	
Centre	43	6.0	4.2-7.8	-
Clinton	10	NSR		
Columbia	32	9.8	6.4-13.2	
Lycoming	47	7.9	5.6-10.1	-
Montour	9	NSR		
Northumberland	40	8.1	5.6-10.7	
Potter	12	NSR		
Snyder	16	NSR		
Sullivan	6	NSR		
Tioga	28	12.3	7.8-16.9	
Union	9	NSR		
Northwest	465	9.6	8.7-10.5	
Cameron	5	NSR		
Clarion	24	12.7	7.6-17.8	
Clearfield	50	11.0	8.0-14.1	
Crawford	47	10.1	7.2-12.9	
Elk	29	16.6	10.5-22.6	
Erie	113	7.9	6.4-9.3	-
Forest	2	NSR		
Jefferson	38	14.7	10.0-19.3	
Lawrence	45	9.6	6.8-12.5	
McKean	15	NSR		
Mercer	53	8.6	6.3-11.0	
Venango	25	9.4	5.7-13.0	
Warren	19	NSR		

District/County	No.	Rate	CI (95%)	
Southeast	2,996	11.7	11.3-12.2	+
Berks	213	10.3	9.0-11.7	
Bucks	221	6.6	5.8-7.5	-
Chester	149	5.8	4.9-6.7	-
Delaware	286	10.2	9.0-11.3	
Lancaster	141	5.4	4.5-6.3	-
Montgomery	235	5.7	5.0-6.4	-
Philadelphia	1,667	20.6	19.6-21.6	+
Schuylkill	84	11.1	8.7-13.4	
South Central	762	9.0	8.3-9.6	-
Adams	38	7.6	5.2-10.0	-
Bedford	31	11.2	7.3-15.2	
Blair	51	8.1	5.9-10.3	-
Cumberland	87	7.1	5.6-8.5	-
Dauphin	139	10.6	8.8-12.3	
Franklin	56	7.4	5.5-9.4	-
Fulton	14	NSR		
Huntingdon	27	11.0	6.9-15.2	
Juniata	10	NSR		
Lebanon	50	7.7	5.6-9.9	-
Mifflin	22	9.4	5.5-13.4	
Perry	28	12.7	8.0-17.4	
York	209	9.6	8.3-10.9	
Southwest	1,455	10.6	10.1-11.1	
Allegheny	722	11.9	11.0-12.7	+
Armstrong	38	10.8	7.4-14.3	
Beaver	109	12.7	10.3-15.0	
Butler	79	8.0	6.2-9.7	-
Cambria	73	9.6	7.4-11.8	
Fayette	54	7.7	5.6-9.7	-
Greene	25	12.8	7.8-17.8	
Indiana	51	11.3	8.2-14.4	
Somerset	42	9.9	6.9-12.8	
Washington	102	9.5	7.7-11.4	
Westmoreland	160	8.2	6.9-9.4	-
Pennsylvania	6,690	10.4	10.2-10.7	

NOTE: Rates based on less than 20 events are unreliable and were not calculated. See Technical Notes.
+/- denotes that the county's rate is significantly higher or lower than the state at the p=.05 level.

INJURY DEATHS: FIREARM-RELATED

AGE-ADJUSTED DEATH RATES BY COUNTY, WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE PENNSYLVANIA RESIDENTS, 2007-2011



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

INJURY DEATHS: FIREARM-RELATED

TOTAL NUMBER OF INJURY DEATHS AND AVERAGE ANNUAL DEATH RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2007-2011

Geography	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	5,933	757	**6,690**	1,904	11.9	1,990	16.6	1,529	11.9	817	6.6	450	4.6
Northeast	618	99	**717**	201	10.2	215	15.1	164	10.1	95	5.9	42	3.3
Carbon	33	6	39	9	NSR	17	29.5	10	14.9	3	NSR	0	NSR
Lackawanna	81	9	90	17	6.7	22	11.1	25	12.1	15	7.1	11	5.9
Lehigh	113	21	134	34	7.5	34	10.5	29	8.2	23	6.9	14	5.4
Luzerne	147	21	168	57	15.7	57	19.8	32	9.9	16	5.0	6	NSR
Monroe	71	10	81	14	6.1	20	13.7	24	13.0	15	8.8	8	NSR
Northampton	91	22	113	40	10.3	28	10.3	27	8.8	15	5.1	3	NSR
Pike	22	1	23	6	NSR	10	22.8	5	NSR	2	NSR	0	NSR
Susquehanna	14	4	18	4	NSR	6	NSR	6	NSR	2	NSR	0	NSR
Wayne	34	5	39	15	27.1	15	36.7	5	NSR	4	NSR	0	NSR
Wyoming	12	0	12	5	NSR	6	NSR	1	NSR	0	NSR	0	NSR
Southeast	2,712	284	**2,996**	1,054	15.6	891	17.8	634	12.1	274	5.8	143	4.1
Berks	182	31	213	58	10.3	47	12.6	59	13.9	23	6.0	26	8.9
Bucks	196	25	221	51	6.4	54	10.5	65	9.2	34	5.1	17	3.8
Chester	133	16	149	42	6.1	25	5.7	46	8.4	25	5.2	11	3.5
Delaware	258	28	286	123	16.5	71	13.3	53	9.3	24	4.5	15	3.8
Lancaster	128	13	141	36	5.0	27	5.6	39	7.8	27	5.8	12	3.2
Montgomery	201	34	235	53	5.3	49	7.0	73	8.4	38	4.9	22	3.7
Philadelphia	1,539	128	1,667	663	32.2	592	32.4	275	19.1	98	7.9	39	4.2
Schuylkill	75	9	84	28	17.3	26	19.9	24	14.9	5	NSR	1	NSR

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	5,933	757	**6,690**	1,904	11.9	1,990	16.6	1,529	11.9	817	6.6	450	4.6
North Central	260	35	**295**	104	12.1	83	11.2	66	10.1	35	5.4	7	1.3
Bradford	38	5	43	7	NSR	13	25.9	10	16.0	10	15.5	3	NSR
Centre	39	4	43	11	5.8	10	4.2	14	11.4	6	NSR	2	NSR
Clinton	9	1	10	5	NSR	4	NSR	1	NSR	0	NSR	0	NSR
Columbia	26	6	32	18	21.4	7	NSR	6	NSR	1	NSR	0	NSR
Lycoming	42	5	47	18	12.7	12	10.7	13	11.3	3	NSR	1	NSR
Montour	9	0	9	5	NSR	4	NSR	0	NSR	0	NSR	0	NSR
Northumberland	36	4	40	15	14.1	8	NSR	7	NSR	9	NSR	1	NSR
Potter	10	2	12	6	NSR	3	NSR	3	NSR	0	NSR	0	NSR
Snyder	15	1	16	6	NSR	6	NSR	4	NSR	0	NSR	0	NSR
Sullivan	5	1	6	5	NSR	1	NSR	0	NSR	0	NSR	0	NSR
Tioga	23	5	28	4	NSR	11	30.7	7	NSR	6	NSR	0	NSR
Union	8	1	9	4	NSR	4	NSR	1	NSR	0	NSR	0	NSR
South Central	657	105	**762**	204	9.7	210	13.9	188	10.9	108	6.5	52	4.1
Adams	34	4	38	12	9.1	12	13.2	8	NSR	6	NSR	0	NSR
Bedford	26	5	31	7	NSR	9	NSR	8	NSR	7	NSR	0	NSR
Blair	43	8	51	14	9.1	19	16.9	11	8.9	7	NSR	0	NSR
Cumberland	74	13	87	21	7.3	18	7.7	19	8.1	17	7.5	12	6.6
Dauphin	122	17	139	54	16.0	36	14.9	30	10.8	11	4.1	8	NSR
Franklin	50	6	56	13	6.7	16	12.3	15	10.3	8	NSR	4	NSR
Fulton	12	2	14	4	NSR	8	NSR	2	NSR	0	NSR	0	NSR
Huntingdon	22	5	27	6	NSR	6	NSR	10	20.7	4	NSR	1	NSR
Juniata	9	1	10	5	NSR	4	NSR	1	NSR	0	NSR	0	NSR
Lebanon	44	6	50	13	7.9	17	14.0	15	11.6	5	NSR	0	NSR
Mifflin	22	0	22	6	NSR	5	NSR	8	NSR	3	NSR	0	NSR
Perry	23	5	28	10	16.7	9	NSR	6	NSR	3	NSR	0	NSR
York	176	33	209	39	7.0	51	13.2	55	11.6	37	8.6	27	9.0

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	5,933	757	**6,690**	1,904	11.9	1,990	16.6	1,529	11.9	817	6.6	450	4.6
Northwest	413	52	**465**	115	9.9	136	16.3	121	13.1	65	6.9	28	3.6
Cameron	5	0	5	5	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Clarion	22	2	24	9	NSR	11	27.6	4	NSR	0	NSR	0	NSR
Clearfield	45	5	50	13	14.5	16	21.9	9	NSR	12	14.2	0	NSR
Crawford	42	5	47	16	13.8	17	22.2	10	11.7	4	NSR	0	NSR
Elk	28	1	29	8	NSR	9	NSR	8	NSR	4	NSR	0	NSR
Erie	97	16	113	15	4.0	30	10.6	31	11.3	22	8.2	15	7.4
Forest	2	0	2	2	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Jefferson	34	4	38	10	18.4	9	NSR	9	NSR	7	NSR	3	NSR
Lawrence	40	5	45	8	NSR	13	17.5	14	15.8	4	NSR	6	NSR
McKean	14	1	15	5	NSR	4	NSR	4	NSR	2	NSR	0	NSR
Mercer	47	6	53	11	7.5	11	11.2	18	15.9	9	NSR	4	NSR
Venango	21	4	25	6	NSR	8	NSR	10	18.7	1	NSR	0	NSR
Warren	16	3	19	7	NSR	8	NSR	4	NSR	0	NSR	0	NSR
Southwest	1,273	182	**1,455**	226	7.1	455	18.7	356	13.0	240	8.4	178	7.6
Allegheny	644	78	722	97	6.7	280	23.9	156	12.8	111	8.9	78	7.6
Armstrong	33	5	38	8	NSR	18	34.1	7	NSR	5	NSR	0	NSR
Beaver	94	15	109	26	13.1	32	22.6	22	12.7	13	7.0	16	10.1
Butler	68	11	79	16	6.7	11	7.0	27	13.7	14	7.5	11	8.0
Cambria	63	10	73	13	7.9	15	11.9	25	17.6	14	9.1	6	NSR
Fayette	49	5	54	14	8.6	13	11.0	12	8.2	8	NSR	7	NSR
Greene	18	7	25	5	NSR	5	NSR	8	NSR	3	NSR	4	NSR
Indiana	43	8	51	15	13.2	17	18.1	12	15.4	5	NSR	2	NSR
Somerset	32	10	42	7	NSR	10	14.8	13	15.9	5	NSR	7	NSR
Washington	84	18	102	17	6.9	28	15.6	34	16.3	14	6.3	9	NSR
Westmoreland	145	15	160	8	NSR	26	9.0	40	10.7	48	11.9	38	11.2

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: FIREARM-RELATED

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

BLACK POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	345	40.4	36.1-44.6
Chester	17	10.1	5.3-14.9
Dauphin	48	19.8	14.2-25.4
Delaware	148	24.2	20.3-28.1
Montgomery	31	8.4	5.5-11.4
Philadelphia	1,211	33.9	32.0-35.8
Pennsylvania	1,975	26.4	25.3-27.6

WHITE POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	360	6.7	6.0-7.4
Chester	123	5.3	4.4-6.2
Dauphin	78	7.2	5.6-8.8
Delaware	128	5.7	4.7-6.7
Montgomery	196	5.5	4.7-6.3
Philadelphia	273	7.7	6.7-8.6
Pennsylvania	4,346	7.7	7.4-7.9

HISPANIC POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Berks	29	9.0	5.8-12.3
Lancaster	15	7.8	3.8-11.7
Lehigh	19	5.4	3.0-7.9
Philadelphia	155	16	13.9-19.0
Pennsylvania	288	8.4	7.4-9.4

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

Select Counties		Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+	
County and Race		Cty. Pop.	Male	Female	All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Allegheny	Black	13.4%	316	29	**345**	47.8%	79	29.2	195	112.3	55	36.3	11	8.2	5	NSR
	White	82.4%	312	48	**360**	49.9%	16	1.5	73	7.9	98	9.6	100	9.2	73	7.9
Chester	Black	6.2%	16	1	**17**	11.4%	2	NSR	10	28.4	2	NSR	3	NSR	0	NSR
	White	88.3%	108	15	**123**	82.6%	3	NSR	28	7.4	33	6.8	39	8.8	20	6.9
Dauphin	Black	18.1%	45	3	**48**	34.5%	11	13.6	25	52.0	8	NSR	3	NSR	1	NSR
	White	75.8%	68	10	**78**	56.1%	2	NSR	11	6.3	23	10.8	24	10.8	18	11.5
Delaware	Black	19.2%	138	10	**148**	51.7%	30	16.7	88	68.4	26	23.4	4	NSR	0	NSR
	White	74.4%	110	18	**128**	44.8%	4	NSR	26	7.1	29	6.9	44	10.1	25	7.2
Montgomery	Black	8.8%	26	5	**31**	13.2%	4	NSR	15	19.8	10	12.5	2	NSR	0	NSR
	White	83.2%	167	29	**196**	83.4%	6	NSR	40	7.2	52	7.3	59	8.7	39	7.3
Philadelphia	Black	45.1%	1,133	78	**1,211**	72.6%	215	20.1	704	94.5	216	32.9	62	11.2	14	3.9
	White	45.3%	239	34	**273**	16.4%	7	NSR	65	7.5	76	11.8	86	14.3	39	7.4
Pennsylvania	Black	10.9%	1,826	149	**1,975**	29.5%	373	16.9	1,133	72.5	347	25.4	96	9.0	26	4.0
	White	84.5%	3,770	576	**4,346**	65.0%	187	1.5	892	9.2	1,144	10.5	1,233	11.2	890	10.0

INJURY DEATHS: ALL UNINTENTIONAL INJURIES

In 2011, among Pennsylvania residents, there were 6,062 deaths due to unintentional injury. On average, one resident died every 87 minutes.

Injury Definition

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

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

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

HIGHLIGHTS

- Age-adjusted rates generally **increased** from 2007 to 2011.
- Most common demographic is **white males and females**, ages 80 and older.
- Of all Pennsylvania counties, **Forest and Cameron** had the highest rates.

Trends Over Time

- Age-adjusted death rates for unintentional injury increased by 2 percent from 41.0 deaths per 100,000 population in 2007 to 41.8 deaths per 100,000 population in 2008; it decreased by 6 percent to 39.9 deaths in 2009, after which it increased by 10 percent to 43.0 deaths per 100,000 population in 2011 .
- Males had significantly higher age-adjusted death rates than females for all age groups from 2007 to 2011.
- Rural males and females had higher age-adjusted death rates for unintentional injuries than urban males and females from 2007 to 2011.

Demographic Trends

- Black males and females had significantly higher age-adjusted death rates for unintentional injuries than white males and females for ages less than 10 and ages 45 to 69.
- Rural populations generally had higher age-adjusted death rates for unintentional injuries than urban populations for all except ages 55 to 59 and 85 and older.

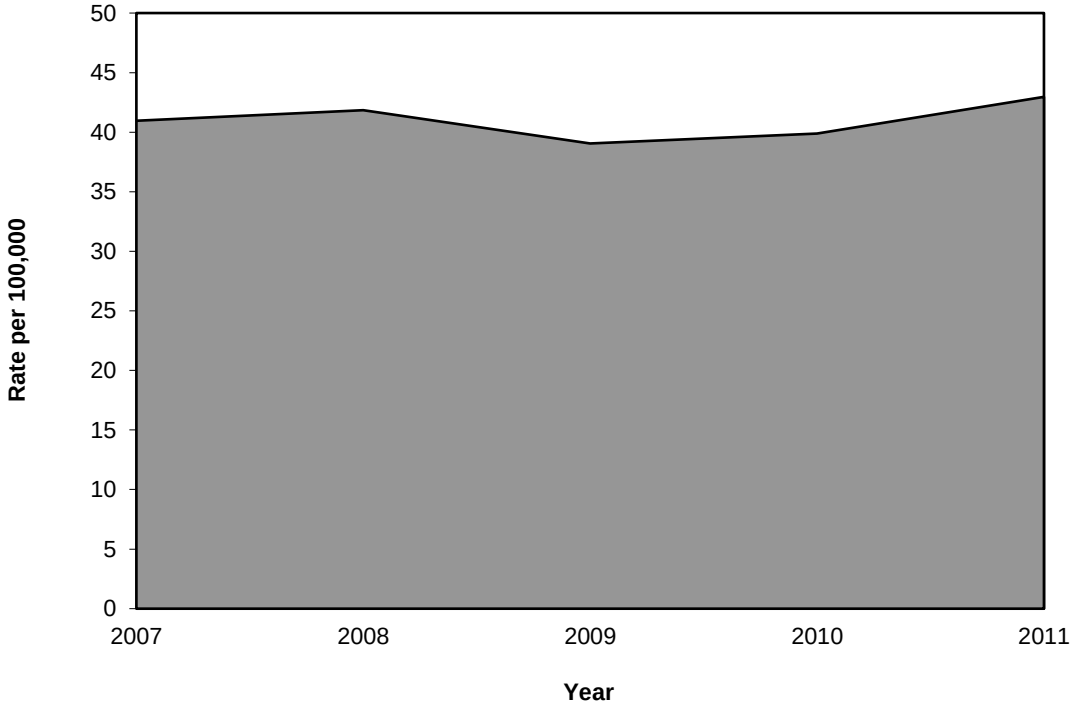
Regional Trends

- The Southwest Health District had the highest age-adjusted death rate for unintentional injury while the North Central Health District had the lowest rate.
- Twenty-four counties had age-adjusted death rates for unintentional injuries for 2007 to 2011 that were significantly higher than the comparable state rate. Most of these were rural counties.

INJURY DEATHS: ALL UNINTENTIONAL

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES
PENNSYLVANIA RESIDENTS, 2007-2011

Year	No.	Rate
2007	5,457	41.0
2008	5,669	41.8
2009	5,441	39.1
2010	5,607	39.9
2011	6,062	43.0



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2007-2011

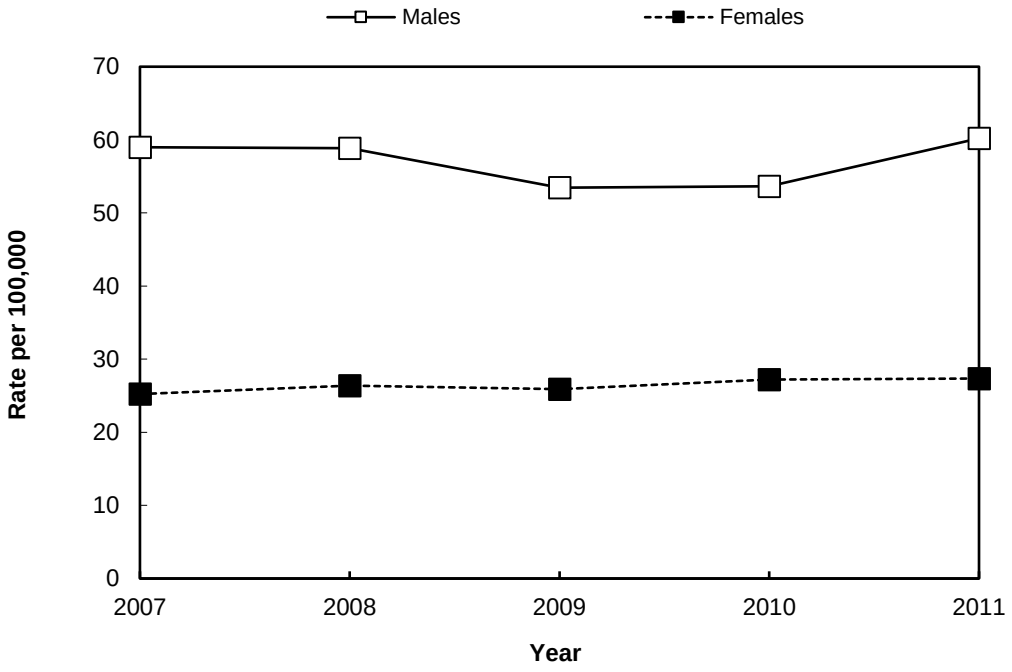
Year	Northwest	North Central	Northeast	Southeast	South Central	Southwest
2007	47.2	36.2	43.4	39.5	41.4	41.8
2008	46.0	39.2	45.2	38.4	42.0	45.4
2009	41.6	36.7	38.4	37.0	38.4	43.6
2010	42.0	36.2	39.0	36.6	40.3	46.5
2011	46.1	34.8	43.1	41.1	40.9	49.0

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2007-2011 based on ICD-9 codes. See Technical Notes.

INJURY DEATHS: ALL UNINTENTIONAL

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES BY SEX
PENNSYLVANIA RESIDENTS, 2007-2011

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2007	3,515	59.0	2007	1,942	25.2
2008	3,592	58.9	2008	2,077	26.4
2009	3,340	53.5	2009	2,101	25.9
2010	3,392	53.6	2010	2,215	27.2
2011	3,842	60.2	2011	2,220	27.4



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2007-2011

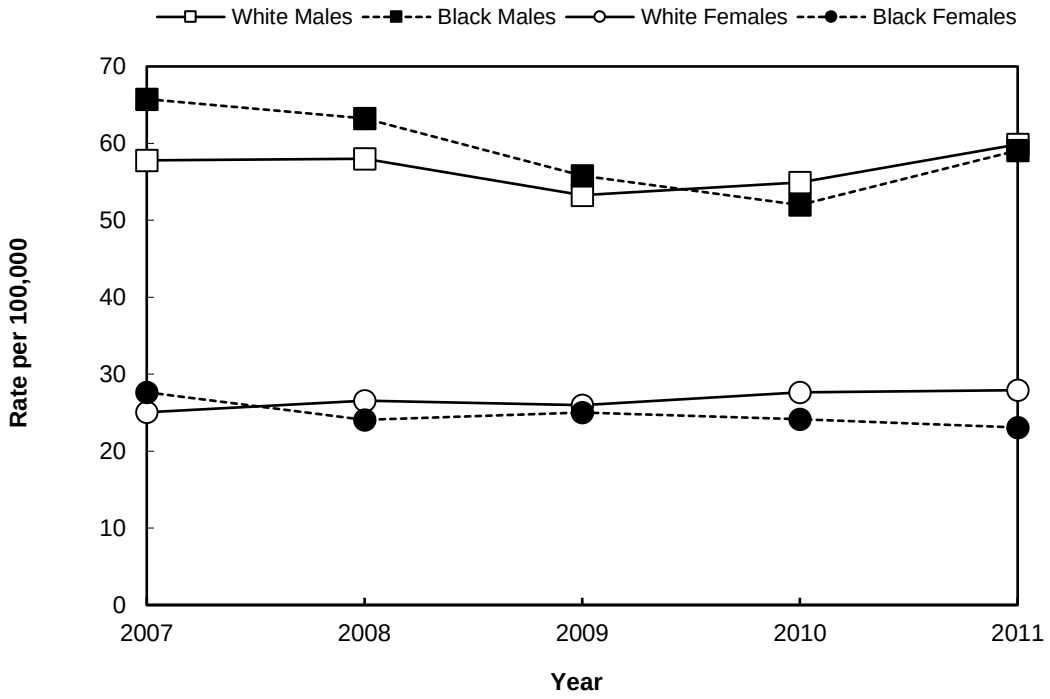
Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2007	57.3	63.5	2007	24.0	28.6
2008	56.5	65.0	2008	25.3	29.2
2009	51.2	59.5	2009	24.3	30.4
2010	51.3	59.9	2010	25.2	33.0
2011	58.8	64.0	2011	26.2	30.8

NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania. Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY DEATHS: ALL UNINTENTIONAL

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES BY SEX AND RACE OR ETHNICITY
PENNSYLVANIA RESIDENTS, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	3,012	358	1,714	188	122	27
2008	3,089	351	1,863	166	127	28
2009	2,907	319	1,885	175	76	27
2010	2,937	318	1,953	174	94	60
2011	3,292	362	1,986	171	128	43



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	57.8	65.8	25.0	27.6	55.3	9.7
2008	58.0	63.2	26.6	24.0	51.2	12.4
2009	53.3	55.8	26.0	25.0	29.1	10.7
2010	54.9	52.0	27.7	24.1	34.5	23.0
2011	59.9	59.1	27.9	23.1	41.3	16.0

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, 2007-2011

AGE	PA TOTAL		MALE		FEMALE			URBAN		RURAL		
GROUP	No.	Rate	No.	Rate	No.	Rate		No.	Rate	No.	Rate	
TOTAL	**28,237**	**44.9**	**17,682**	**57.7**	**10,555**	**32.7**		**19,597**	**42.9**	**8,640**	**50.2**	
< 5	265	7.2	163	8.7	102	5.7	*	187	6.8	78	8.5	*
5-9	133	3.5	78	4.0	55	3.0	*	88	3.1	45	4.6	*
10-14	178	4.5	122	6.0	56	2.9	*	99	3.4	79	7.5	*
15-19	1,220	26.7	826	35.6	394	17.4	*	756	22.9	464	36.4	*
20-24	1,906	43.0	1,467	65.3	439	20.1	*	1,275	39.9	631	51.1	*
25-29	1,871	49.2	1,417	73.3	454	24.3	*	1,280	44.6	591	63.3	*
30-34	1,499	40.3	1,099	58.7	400	21.6	*	1,018	36.9	481	50.1	*
35-39	1,483	38.0	1,059	54.4	424	21.6	*	989	34.5	494	47.4	*
40-44	1,884	43.5	1,301	60.6	583	26.7	*	1,335	42.2	549	47.0	*
45-49	2,347	50.6	1,574	68.9	773	32.9	*	1,695	50.3	652	51.6	
50-54	2,111	45.4	1,479	64.9	632	26.7	*	1,500	44.7	611	47.5	
55-59	1,627	38.8	1,150	56.4	477	22.1	*	1,194	39.8	433	36.3	
60-64	1,165	32.7	837	49.1	328	17.7	*	803	31.9	362	34.7	
65-69	944	34.8	597	47.5	347	23.8	*	616	32.6	328	39.8	*
70-74	1,107	50.4	680	69.8	427	34.9	*	722	47.2	385	57.6	*
75-79	1,539	84.0	883	116.0	656	61.2	*	1,069	83.0	470	86.2	
80-84	2,253	153.6	1,149	204.7	1,104	121.9	*	1,569	150.4	684	161.2	
85 +	4,705	318.6	1,801	393.7	2,904	284.9	*	3,402	320.7	1,303	313.2	

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

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.
Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY DEATHS: ALL UNINTENTIONAL

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES
PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2007-2011

AGE	WHITE MALE		BLACK MALE			WHITE FEMALE		BLACK FEMALE			HISPANICS	
GROUP	No.	Rate	No.	Rate		No.	Rate	No.	Rate		No.	Rate
TOTAL	**15,237**	**58.8**	**1,709**	**52.4**		**9,401**	**34.5**	**874**	**24.4**		**732**	**22.4**
< 5	102	6.9	40	15.2	*	70	5.0	25	9.8	*	23	6.3
5-9	44	2.9	26	10.0	*	35	2.4	13	5.2	*	13	3.9
10-14	92	5.6	17	6.1		42	2.7	8	3.0		15	4.9
15-19	685	36.7	94	29.4	*	327	17.9	38	12.3	*	61	18.9
20-24	1,274	70.3	107	35.1	*	380	21.6	41	13.6	*	72	24.3
25-29	1,235	78.6	106	42.6	*	386	25.7	49	19.5	*	76	28.0
30-34	934	60.8	108	48.8		336	22.4	45	19.2	*	63	24.7
35-39	875	53.8	114	54.0		355	21.9	48	20.8		74	30.8
40-44	1,083	59.1	142	65.1		490	26.6	74	30.4	*	78	36.3
45-49	1,325	66.7	185	85.4	*	650	32.2	102	41.4	*	69	36.7
50-54	1,228	61.0	198	100.5	*	539	26.2	77	33.1	*	55	38.4
55-59	913	50.0	193	121.2	*	402	21.2	65	33.1	*	36	33.2
60-64	687	44.6	121	100.4	*	276	16.7	40	25.4	*	26	34.0
65-69	518	45.2	62	76.7	*	303	23.1	36	31.8	*	9	17.2
70-74	603	67.6	57	92.7	*	381	34.5	34	36.2		16	44.6
75-79	806	114.6	52	116.3		601	61.5	35	45.2	*	19	74.9
80-84	1,099	210.1	38	124.1	*	1,034	124.0	52	85.7	*	12	73.0
85 +	1,734	407.3	49	190.3	*	2,794	296.0	92	143.6	*	15	96.6

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

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.
Missing or unknown ages are included in the total. Hispanics may be of any race; therefore, their rates must not be compared to whites or blacks.

INJURY DEATHS: ALL UNINTENTIONAL

TOTAL NUMBER OF INJURY DEATHS BY AGE GROUP WITH AVERAGE ANNUAL DEATH RATES
PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2007-2011

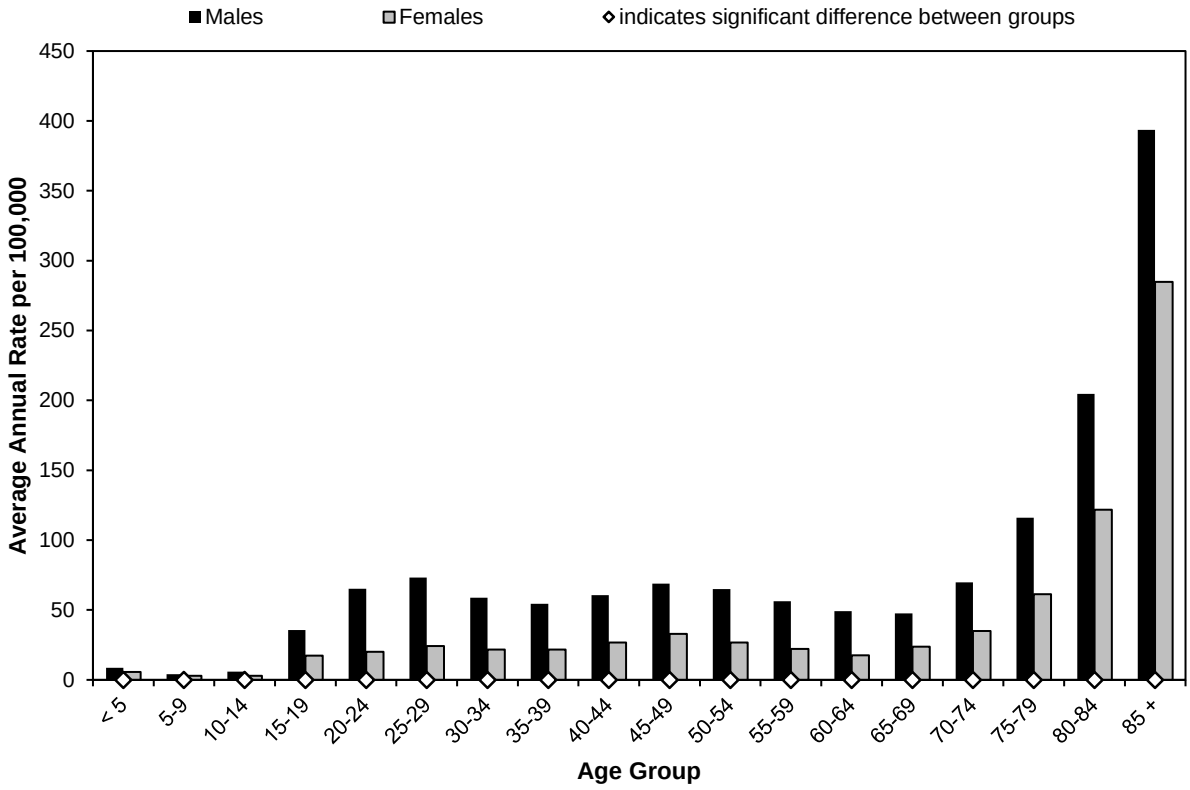
AGE	NORTHWEST			NORTH CENTRAL			NORTHEAST			SOUTHEAST			SOUTH CENTRAL			SOUTHWEST		
GROUP	No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate	
TOTAL	**2,272**	**49.1**		**1,389**	**40.3**		**3,600**	**45.6**		**10,347**	**41.1**		**3,602**	**43.5**		**7,027**	**52.0**	
< 5	28	11.0	+	14	7.9		31	7.2		100	6.2		20	10.1	+	42	6.0	-
5-9	15	5.6	+	7	12.3		16	3.5		46	2.8	-	15	3.5		31	4.2	
10-14	14	4.8		13	6.8	+	27	5.4		58	3.5	-	27	4.5		42	5.3	
15-19	112	32.5		68	22.3	-	168	29.3		426	23.0	-	204	35.6	+	242	26.0	
20-24	151	48.1		119	32.4	-	264	49.6	+	705	39.2	-	249	47.5		418	46.8	
25-29	145	55.8		89	47.7		258	57.6	+	707	43.0	-	218	44.3		454	58.4	+
30-34	132	50.5	+	67	35.7	-	181	40.4		555	35.5	-	191	38.8		373	48.7	+
35-39	123	44.5		66	33.3	-	180	37.0		544	33.8	-	198	37.6		372	46.0	+
40-44	128	41.5		84	38.5	-	272	49.4		753	42.8		217	37.2	-	430	47.0	
45-49	176	52.5		83	35.2	-	323	54.5		933	50.5		243	39.3	-	589	58.5	+
50-54	194	56.1	+	76	31.9	-	257	43.3		819	45.4		233	38.1	-	532	50.5	+
55-59	103	32.2	-	87	39.4		190	35.3		655	41.3		174	30.9	-	418	43.2	
60-64	106	38.6		66	34.2		127	26.8	-	429	32.6		151	31.2		286	34.9	
65-69	91	42.1	+	54	34.6		124	33.8		338	34.4		119	31.7		218	35.4	
70-74	99	55.3		64	50.2		139	48.0		356	45.3		191	31.7	+	258	49.9	
75-79	129	86.6		90	87.0		189	79.5		497	75.6	-	230	95.6		404	90.9	
80-84	182	154.0		114	143.3		271	143.3		745	142.2		309	170.9		632	168.1	
85 +	344	296.8		228	293.4		583	309.9		1,681	311.7		583	331.7		1,286	338.5	

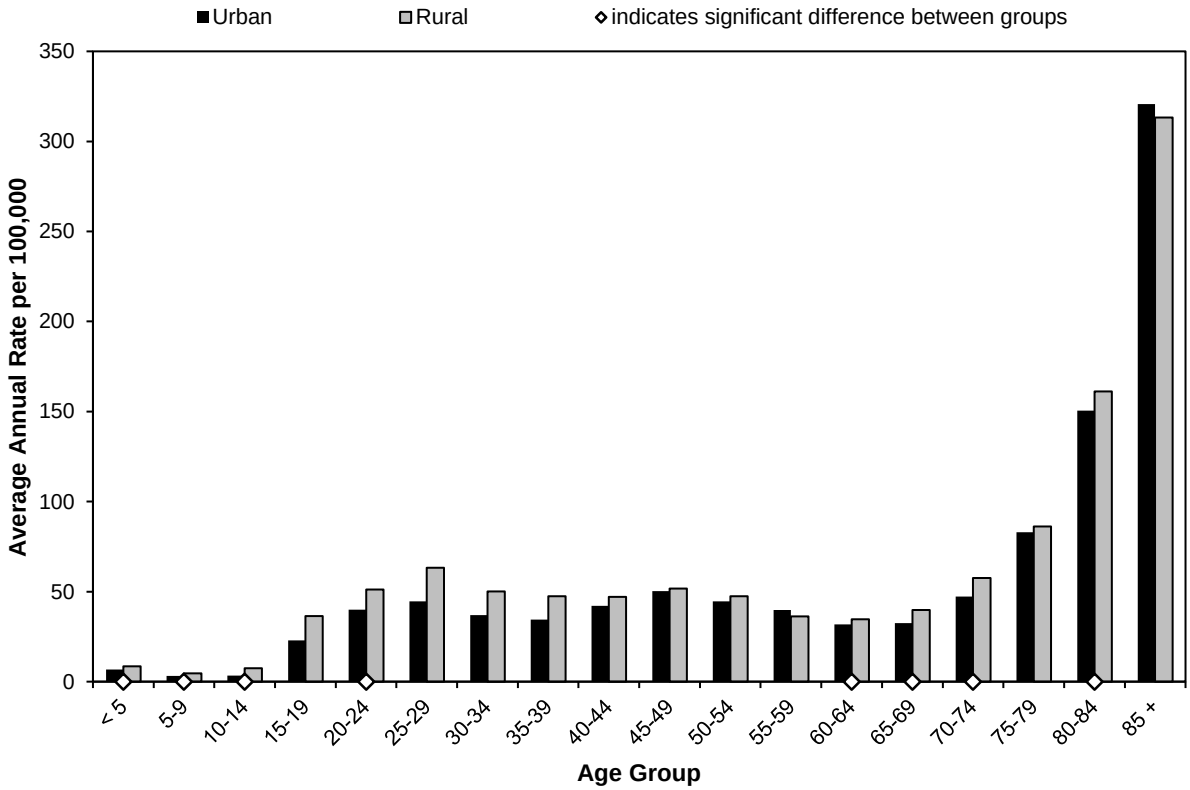
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

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

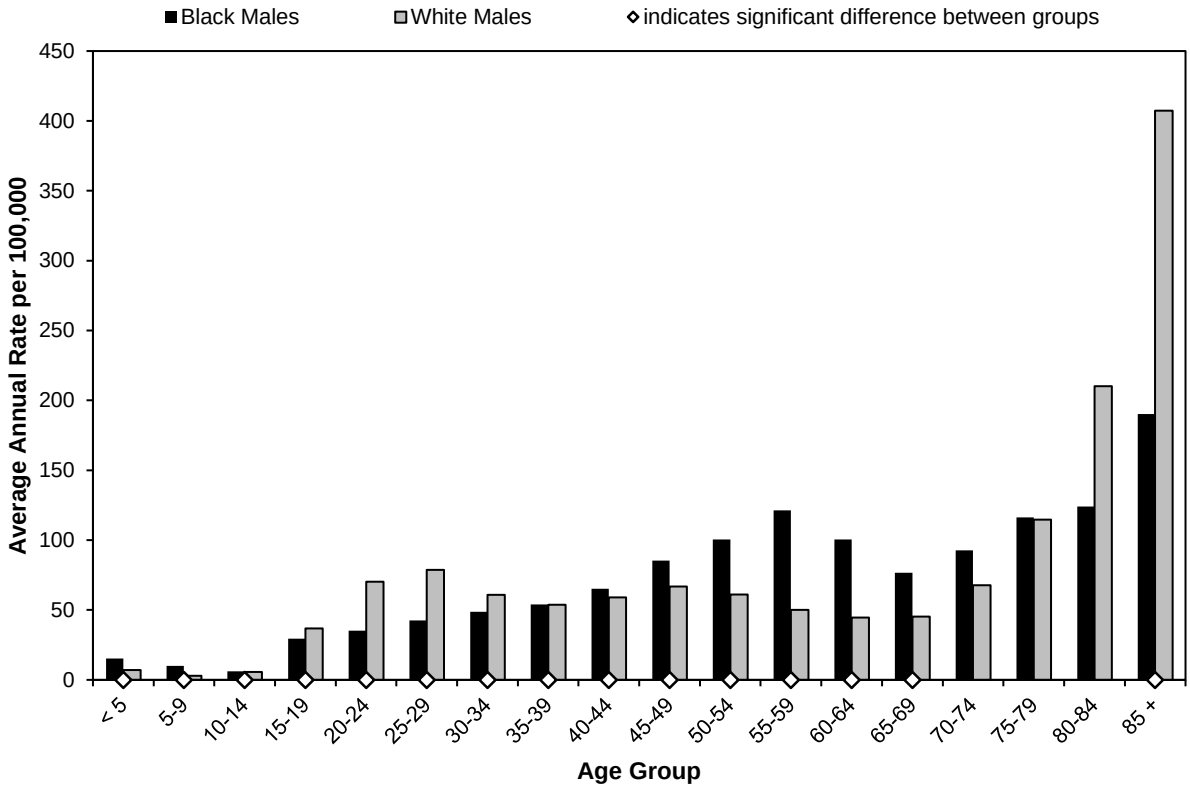
AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2007-2011

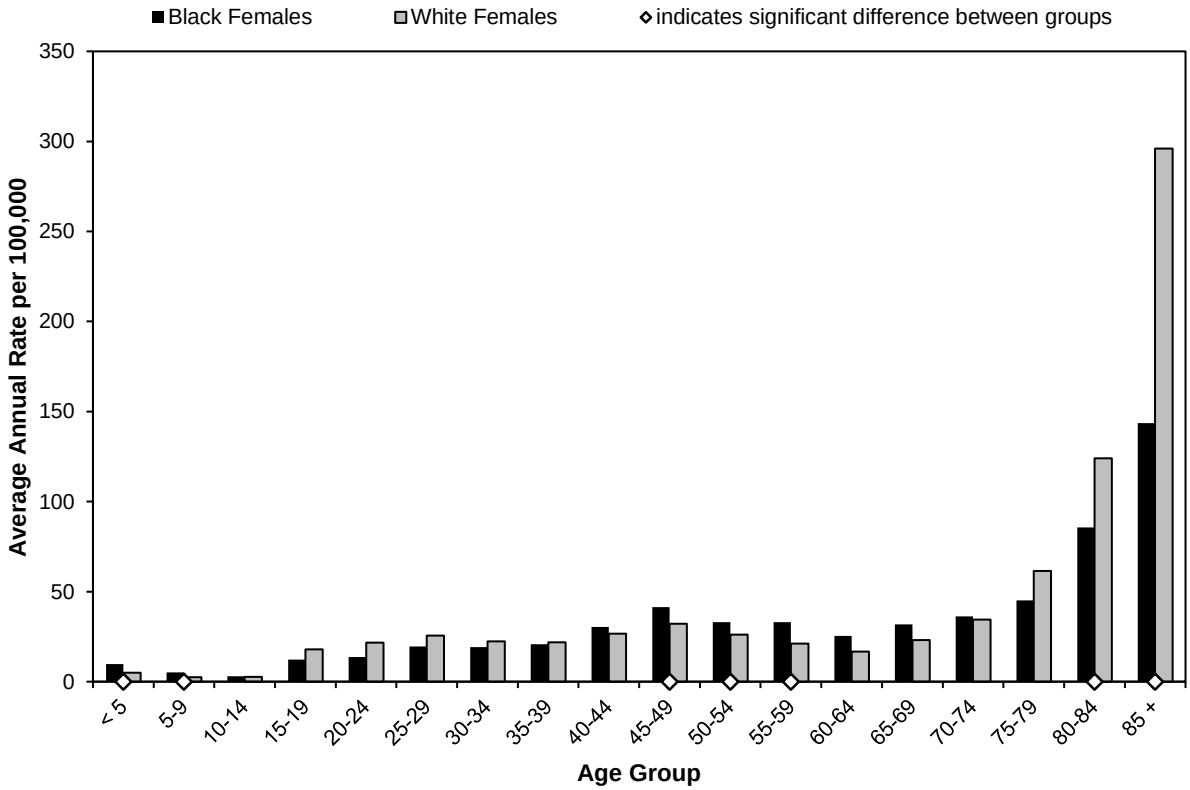




INJURY DEATHS: ALL UNINTENTIONAL

AVERAGE ANNUAL DEATH RATES BY SEX AND RACE
PENNSYLVANIA RESIDENTS, 2007-2011





INJURY DEATHS: ALL UNINTENTIONAL

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2007-2011

District/County	No.	Rate	CI (95%)	
Northeast	3,600	41.8	40.4-43.1	
Carbon	173	49.8	42.4-57.2	+
Lackawanna	536	45.4	41.6-49.2	+
Lehigh	741	38.5	35.7-41.3	
Luzerne	776	44.6	41.5-47.8	+
Monroe	370	44.9	40.3-49.5	
Northampton	560	33.7	30.9-36.5	-
Pike	120	40.2	33.0-47.3	
Susquehanna	125	59.4	49.0-69.8	+
Wayne	127	46.5	38.4-54.6	
Wyoming	72	51.5	39.6-63.4	
North Central	1,389	36.6	34.6-38.5	-
Bradford	143	44.5	37.2-51.7	
Centre	204	29.2	25.2-33.2	-
Clinton	89	43.3	34.3-52.3	
Columbia	146	43.2	36.2-50.2	
Lycoming	228	34.0	29.6-38.5	-
Montour	35	34.8	23.2-46.3	
Northumberland	236	44.0	38.4-49.6	
Potter	53	58.6	42.9-74.4	+
Snyder	72	34.7	26.7-42.7	
Sullivan	24	67.1	40.2-93.9	
Tioga	86	38.6	30.5-46.8	
Union	73	29.7	22.9-36.5	-
Northwest	2,272	44.5	42.7-46.3	+
Cameron	21	72.2	41.3-103.1	
Clarion	105	49.2	39.8-58.6	
Clearfield	225	49.2	42.8-55.6	+
Crawford	218	45.8	39.7-51.9	
Elk	85	48.0	37.8-58.2	
Erie	555	36.9	33.8-40.0	-
Forest	26	75.5	46.5-104.6	+
Jefferson	129	55.4	45.8-64.9	+
Lawrence	221	42.5	36.9-48.2	
McKean	97	41.1	32.9-49.3	
Mercer	308	46.9	41.7-52.2	+
Venango	161	53.7	45.4-62.0	+
Warren	121	54.0	44.4-63.6	+

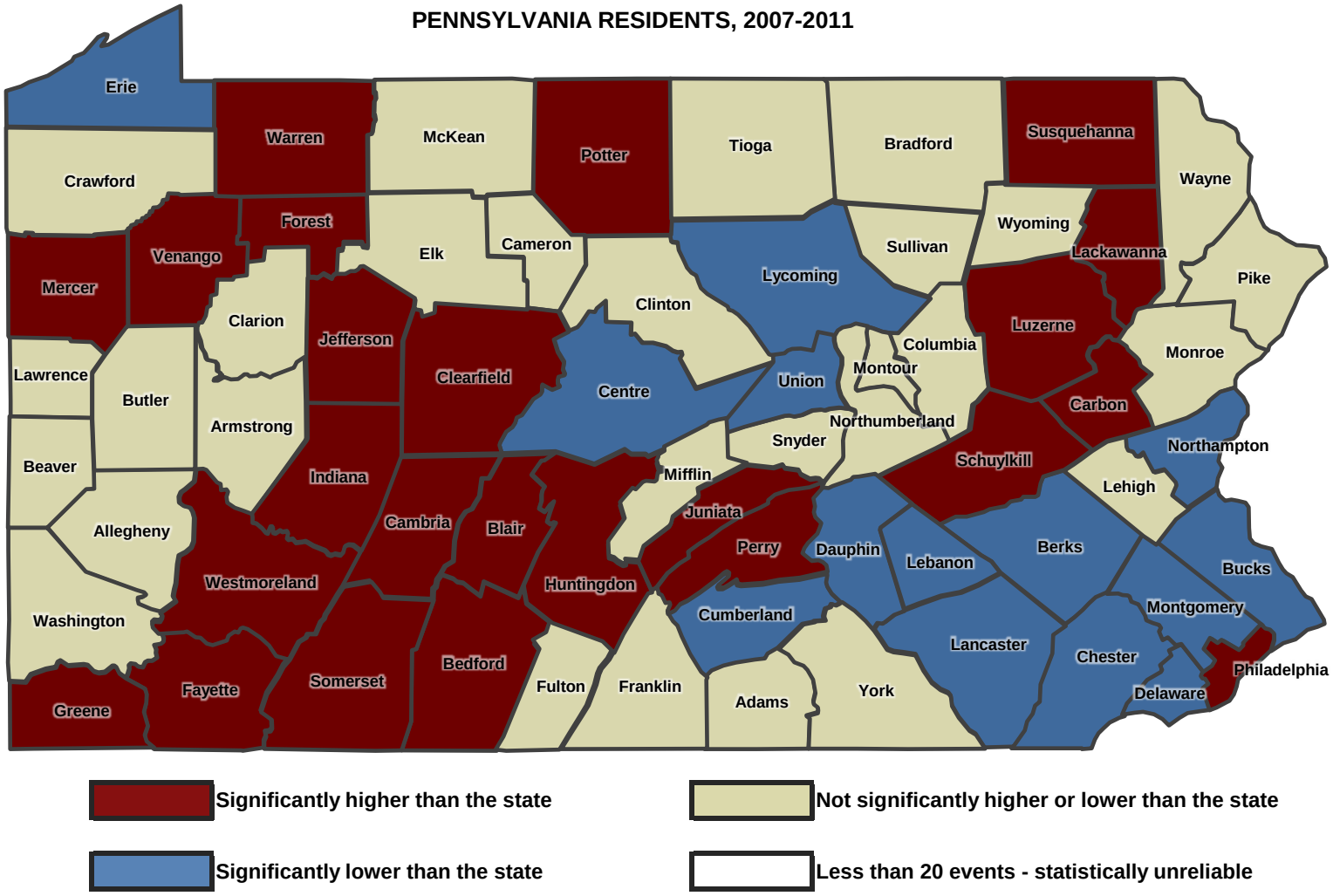
District/County	No.	Rate	CI (95%)	
Southeast	10,347	38.5	37.7-39.2	-
Berks	710	31.8	29.5-34.2	-
Bucks	1,188	36.8	34.8-38.9	-
Chester	756	30.2	28.1-32.4	-
Delaware	1,166	38.1	35.9-40.2	-
Lancaster	1,046	38.2	35.9-40.5	-
Montgomery	1,477	33.2	31.5-34.9	-
Philadelphia	3,573	47.1	45.6-48.6	+
Schuylkill	431	52.2	47.3-57.1	+
South Central	3,602	40.5	39.2-41.9	
Adams	217	41.3	35.8-46.8	
Bedford	151	59.5	50.0-69.0	+
Blair	348	48.4	43.3-53.4	+
Cumberland	393	30.3	27.3-33.3	-
Dauphin	510	37.2	33.9-40.4	-
Franklin	321	40.0	35.6-44.3	
Fulton	42	52.5	36.7-68.4	
Huntingdon	133	54.8	45.5-64.1	+
Juniata	73	58.3	44.9-71.6	+
Lebanon	255	34.2	30.0-38.4	-
Mifflin	114	43.5	35.551.5	
Perry	121	55.3	45.4-65.1	+
York	924	41.0	38.3-43.6	
Southwest	7,027	45.2	44.2-46.3	+
Allegheny	2,967	41.2	39.8-42.7	
Armstrong	171	44.5	37.9-51.2	
Beaver	409	41.5	37.5-45.5	
Butler	380	38.6	34.7-42.5	
Cambria	475	57.2	52.1-62.4	+
Fayette	444	60.3	54.7-65.9	+
Greene	140	67.5	56.3-78.7	+
Indiana	243	50.9	44.5-57.3	+
Somerset	232	50.5	44.0-57.1	+
Washington	511	44.3	40.5-48.1	
Westmoreland	1,055	50.7	47.7-53.8	+
Pennsylvania	28,237	40.9	40.4-41.4	

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

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

INJURY DEATHS: ALL UNINTENTIONAL

AGE-ADJUSTED DEATH RATES BY COUNTY, WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE PENNSYLVANIA RESIDENTS, 2007-2011



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, 2007-2011

Geography	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	17,682	10,555	**28,237**	2,316	14.5	5,169	43.2	5,813	45.1	4,718	38.0	10,221	105.5
Northeast	2,258	1,342	**3,600**	288	14.6	690	48.3	787	48.3	558	34.7	1,277	100.4
Carbon	110	63	173	22	31.0	34	59.0	46	68.6	23	33.2	48	85.7
Lackawanna	311	225	536	30	11.9	124	62.5	113	54.7	80	37.9	189	100.6
Lehigh	443	298	741	43	9.5	100	30.9	136	38.4	105	31.4	357	137.5
Luzerne	502	274	776	49	13.5	167	58.0	184	56.8	131	41.0	245	85.8
Monroe	244	126	370	38	16.5	74	50.5	100	54.2	62	36.3	96	92.3
Northampton	351	209	560	30	7.7	99	36.4	101	33.0	82	28.0	248	110.4
Pike	75	45	120	22	30.9	20	45.5	36	55.7	24	35.7	18	39.1
Susquehanna	90	35	125	23	46.5	28	84.6	32	77.0	10	20.4	32	88.7
Wayne	83	44	127	22	39.7	24	58.7	28	52.6	24	38.7	29	58.7
Wyoming	49	23	72	9	NSR	20	85.9	11	39.1	17	57.1	15	68.1
Southeast	6,587	3,760	**10,347**	630	9.3	1,967	39.3	2,230	42.7	1,903	40.5	3,617	103.6
Berks	467	243	710	47	8.3	107	28.7	117	27.5	115	30.0	324	110.7
Bucks	740	448	1,188	59	7.4	259	50.5	231	32.7	181	27.4	458	102.7
Chester	474	282	756	58	8.4	156	35.4	150	27.2	137	28.4	255	81.4
Delaware	748	418	1,166	45	6.0	234	43.7	223	39.2	212	39.6	452	114.0
Lancaster	668	378	1,046	106	14.8	189	39.1	188	37.4	150	32.0	413	108.9
Montgomery	850	627	1,477	65	6.5	243	34.6	251	29.0	199	25.6	719	121.5
Philadelphia	2,373	1,200	3,573	210	10.2	704	38.5	975	67.9	836	67.0	848	90.5
Schuylkill	267	164	431	40	24.7	75	57.3	95	58.9	73	48.9	148	110.4

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	17,682	10,555	**28,237**	2,316	14.5	5,169	43.2	5,813	45.1	4,718	38.0	10,221	105.5
North Central	871	518	**1,389**	203	23.7	253	34.1	239	36.7	222	34.0	472	86.7
Bradford	92	51	143	21	26.9	30	59.9	28	44.7	21	32.5	43	79.8
Centre	121	83	204	17	9.0	43	18.2	32	26.1	29	25.9	83	98.6
Clinton	56	33	89	15	30.0	16	42.4	22	64.0	12	33.5	24	76.5
Columbia	97	49	146	20	23.7	39	55.9	26	43.8	17	27.2	44	82.0
Lycoming	142	86	228	17	12.0	30	26.9	44	38.1	46	39.0	91	94.5
Montour	20	15	35	9	NSR	5	NSR	7	NSR	14	71.8	0	NSR
Northumberland	146	90	236	45	42.4	36	46.6	40	42.1	32	32.8	83	96.1
Potter	34	19	53	16	73.8	8	NSR	5	NSR	11	60.4	13	80.4
Snyder	43	29	72	13	25.0	14	35.8	8	NSR	7	NSR	30	104.2
Sullivan	15	9	24	7	NSR	5	NSR	4	NSR	8	NSR	0	NSR
Tioga	55	31	86	16	29.5	16	44.6	15	40.2	16	38.0	23	62.1
Union	50	23	73	7	NSR	11	21.6	8	NSR	9	NSR	38	118.1
South Central	2,231	1,371	**3,602**	390	18.5	631	41.8	669	38.7	526	31.7	1,386	109.2
Adams	144	73	217	34	25.7	43	47.3	49	45.9	17	16.8	74	96.9
Bedford	101	50	151	20	33.4	28	70.3	34	66.1	20	38.6	49	107.4
Blair	206	142	348	16	10.4	65	58.0	60	48.5	49	37.7	158	142.4
Cumberland	240	153	393	68	23.6	51	21.9	83	35.4	45	19.9	146	80.8
Dauphin	330	180	510	39	11.6	95	39.4	101	36.2	95	35.1	180	99.8
Franklin	190	131	321	56	29.1	46	35.4	58	39.9	33	23.5	128	104.8
Fulton	23	19	42	9	NSR	8	NSR	4	NSR	10	66.2	11	87.2
Huntingdon	80	53	133	22	41.9	30	67.0	15	31.0	13	28.3	53	144.4
Juniata	52	21	73	12	38.8	13	64.6	15	62.8	9	NSR	24	120.4
Lebanon	147	108	255	17	10.3	43	35.5	39	30.2	42	32.6	114	102.9
Mifflin	73	41	114	19	31.7	14	36.9	17	36.9	18	39.3	46	108.0
Perry	77	44	121	18	30.1	27	68.4	33	67.4	19	38.7	24	78.6
York	568	356	924	60	10.8	168	43.6	161	33.9	156	36.3	379	126.2

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	17,682	10,555	**28,237**	2,316	14.5	5,169	43.2	5,813	45.1	4,718	38.0	10,221	105.5
Northwest	1,426	846	**2,272**	285	24.6	411	49.2	470	51.1	360	38.3	746	95.9
Cameron	13	8	21	8	NSR	3	NSR	5	NSR	5	NSR	0	NSR
Clarion	76	29	105	19	37.2	14	35.2	28	77.0	12	31.1	32	95.2
Clearfield	147	78	225	15	16.8	50	68.3	38	42.2	34	40.2	88	121.6
Crawford	140	78	218	31	26.8	32	41.7	53	61.8	35	38.1	67	91.8
Elk	61	24	85	24	64.2	14	59.3	20	57.1	12	34.9	15	49.8
Erie	351	204	555	44	11.9	106	37.4	104	37.9	93	34.7	208	102.4
Forest	15	11	26	6	NSR	5	NSR	3	NSR	12	173.5	0	NSR
Jefferson	84	45	129	19	34.9	29	76.7	24	53.7	18	38.3	39	94.8
Lawrence	120	101	221	12	10.8	32	43.0	47	53.1	49	51.9	81	95.9
McKean	58	39	97	17	31.9	20	51.6	24	52.7	12	28.1	24	65.2
Mercer	187	121	308	39	26.5	56	56.9	70	61.9	39	33.0	104	98.5
Venango	94	67	161	25	37.5	31	71.0	35	65.3	21	34.6	49	101.3
Warren	80	41	121	26	54.0	19	59.8	19	46.0	18	38.9	39	102.5
Southwest	4,309	2,718	**7,027**	520	16.4	1,217	50.0	1,418	51.9	1,149	40.4	2,723	116.7
Allegheny	1,798	1,169	2,967	113	7.9	453	38.6	584	48.0	571	45.6	1,246	121.7
Armstrong	111	60	171	11	13.5	31	58.7	30	42.5	31	41.5	68	107.1
Beaver	254	155	409	28	14.1	75	53.0	67	38.6	77	41.2	162	102.6
Butler	228	152	380	26	10.9	78	49.6	69	35.0	68	36.3	139	101.0
Cambria	292	183	475	26	15.8	90	71.6	102	71.7	60	39.1	197	145.9
Fayette	287	157	444	78	48.1	92	78.1	108	74.2	44	28.6	122	98.0
Greene	84	56	140	20	45.0	35	92.3	28	67.7	27	64.4	30	100.8
Indiana	159	84	243	14	12.3	43	45.7	43	55.2	44	51.6	99	141.7
Somerset	153	79	232	27	32.4	47	69.5	33	40.4	28	34.2	97	133.6
Washington	308	203	511	58	23.6	102	56.9	113	54.2	63	28.5	175	97.0
Westmoreland	635	420	1,055	119	29.1	171	59.0	241	64.3	136	33.8	388	114.3

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: ALL UNINTENTIONAL

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

BLACK POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	366	46.8	42.0-51.6
Chester	63	43.5	32.8-54.3
Dauphin	86	38.8	30.6-47.0
Delaware	129	27.2	22.5-31.9
Montgomery	101	29.1	23.5-34.8
Philadelphia	1,438	44.1	41.8-46.4
Pennsylvania	2,583	40.0	38.5-41.6

WHITE POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	2,560	41.2	39.6-42.8
Chester	665	29.5	27.3-31.8
Dauphin	399	36.1	32.6-39.7
Delaware	1,012	42.5	39.8-45.1
Montgomery	1,324	34.1	32.3-36.0
Philadelphia	1,763	47.3	45.1-49.5
Pennsylvania	24,638	41.0	40.5-41.5

HISPANIC POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Berks	55	22.2	16.3-28.1
Lancaster	43	22.5	15.8-29.2
Lehigh	73	43.5	33.5-53.5
Philadelphia	298	41.3	36.6-46.0
Pennsylvania	732	27.9	25.9-29.9

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS,2007-2011

Select Counties		Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+	
County and Race		Cty. Pop.	Male	Female	All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Allegheny	Black	13.4%	233	133	**366**	12.3%	34	12.6	57	32.8	86	56.8	115	85.4	74	82.4
	White	82.4%	1,538	1,022	**2,560**	86.3%	77	7.2	385	41.6	490	48.2	447	40.9	1,161	126.3
Chester	Black	6.2%	44	19	**63**	8.3%	6	NSR	21	59.7	15	50.5	10	41.1	11	70.2
	White	88.3%	411	254	**665**	88.0%	47	7.9	120	31.8	131	26.9	125	28.2	242	83.2
Dauphin	Black	18.1%	52	34	**86**	16.9%	15	18.5	21	43.7	20	41.2	17	43.9	13	63.6
	White	75.8%	258	141	**399**	78.2%	23	10.3	70	39.8	72	33.7	72	32.4	162	103.7
Delaware	Black	19.2%	80	49	**129**	11.1%	13	7.2	22	17.1	29	26.2	36	47.5	29	71.7
	White	74.4%	649	363	**1,012**	86.8%	31	6.1	205	55.7	189	45.3	169	38.8	418	121.2
Montgomery	Black	8.8%	64	37	**101**	6.8%	12	11.9	17	22.5	31	38.8	25	42.9	16	47.8
	White	83.2%	752	572	**1,324**	89.6%	46	5.7	213	38.3	210	29.6	166	24.6	689	128.3
Philadelphia	Black	45.1%	944	494	**1,438**	40.2%	120	11.2	218	29.3	387	59.0	401	72.4	312	86.3
	White	45.3%	1,146	617	**1,763**	49.3%	51	6.7	384	44.2	481	74.6	362	60.3	485	91.5
Pennsylvania	Black	10.9%	1,709	874	**2,583**	9.1%	261	11.8	456	29.2	665	48.7	694	65.3	507	77.7
	White	84.5%	15,237	9,401	**24,638**	87.3%	1,397	11.0	4,545	47.0	4,778	43.7	4,045	36.8	9,873	111.4

INJURY DEATHS: SUICIDES

In 2011, among Pennsylvania residents, there were 1,707 deaths due to self-inflicted injury (suicides). On average, one resident died every five hours.

Injury Definition

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

Leading mechanisms of suicide include firearms, hanging and self-poisoning. These mechanisms account for a great 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 generally **increased** from 2007 to 2011.
- Most common demographic is **white males**, ages 40 to 59.
- Of all Pennsylvania counties, **Carbon** and **Wyoming** had the highest rates.

Trends Over Time

- Age-adjusted death rates for suicide generally increased from 2007 to 2011. The rates increased by 9 percent from 11.1 deaths per 100,000 population in 2007 to 12.1 deaths per 100,000 population in 2009; they then decreased by 3 percent to 11.7 deaths in 2010 and finally increased by 9 percent to 12.8 deaths per 100,000 population in 2011.
- Males had significantly higher age-adjusted suicide rates than females for all age groups from 2007 to 2011.
- White males had significantly higher age-adjusted suicide rates than black males for all age groups where rates could be calculated during 2007 to 2011.

Demographic Trends

- White males, ages 20 to 64, accounted for over half of all suicides in 2007 to 2011.
- Rural populations had higher suicide rates than urban populations for all age groups where rates could be calculated.

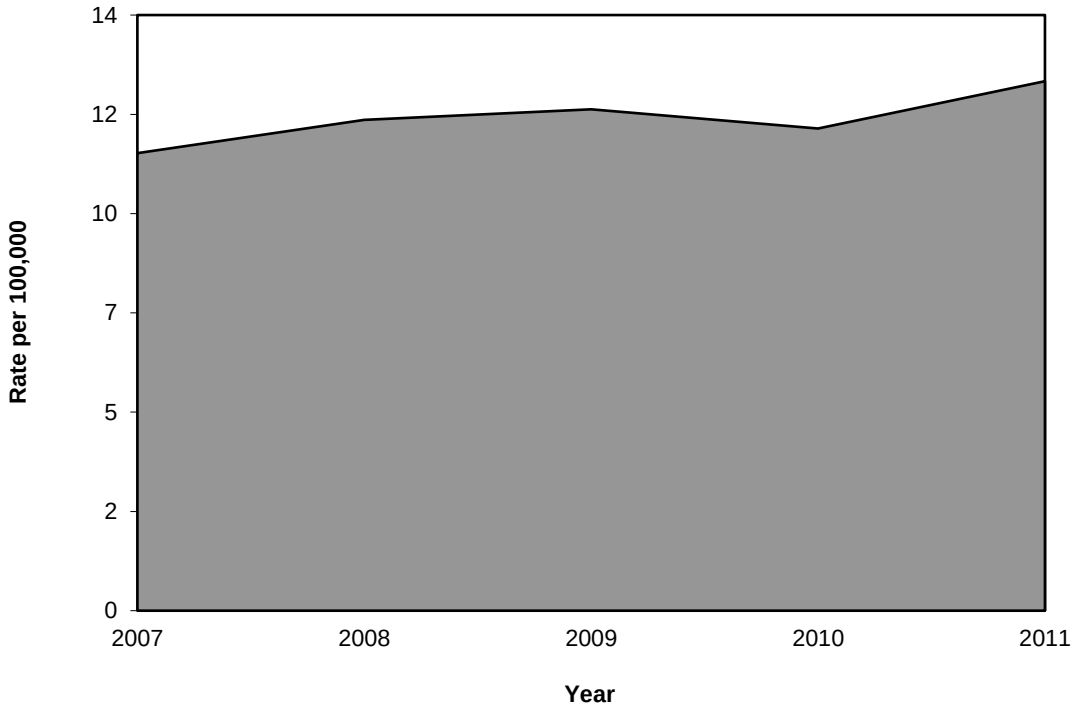
Regional Trends

- The Northeast and Northwest Health Districts had the highest age-adjusted suicide rates while the Southeast Health District had the lowest rate.
- Six counties had age-adjusted suicide rates in 2007 to 2011 that were significantly higher than the comparable state rate. Half of these were urban and the remaining half were rural counties.

INJURY DEATHS: SUICIDES

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES
PENNSYLVANIA RESIDENTS, 2007-2011

Year	No.	Rate
2007	1,416	11.1
2008	1,522	11.9
2009	1,601	12.1
2010	1,547	11.7
2011	1,707	12.8



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2007-2011

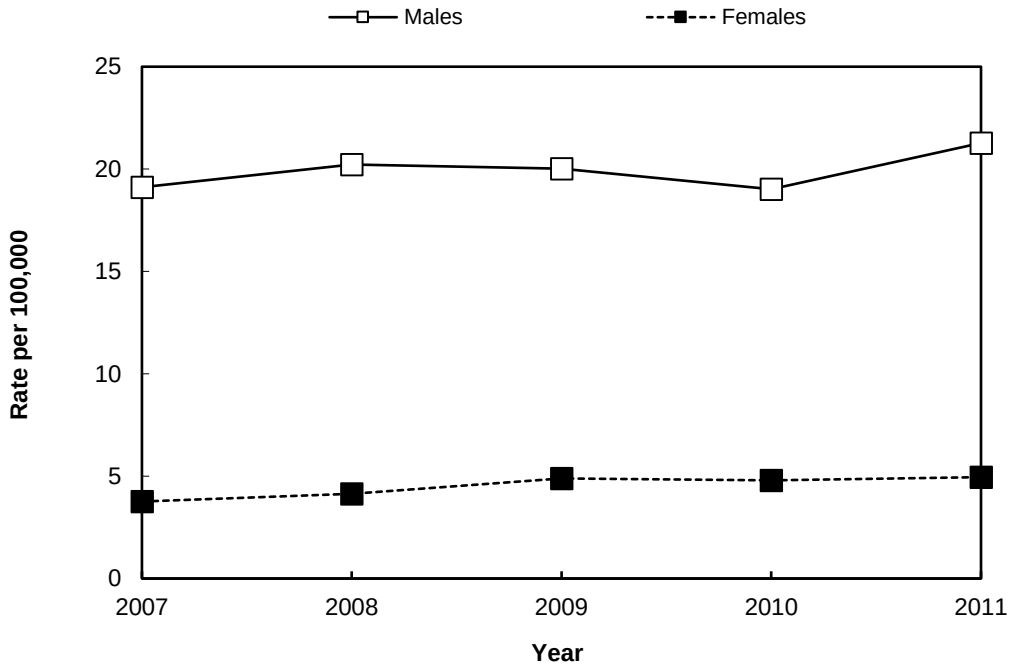
Year	Northwest	North Central	Northeast	Southeast	South Central	Southwest
2007	12.6	12.4	12.7	10.1	10.7	11.4
2008	13.2	10.9	13.1	11.3	12.3	11.8
2009	12.4	13.2	12.5	11.2	13.7	12.4
2010	13.4	12.2	12.2	11.3	12.7	10.8
2011	15.5	14.2	15.0	12.0	11.7	12.7

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2007-2011 based on ICD-9 codes. See Technical Notes.

INJURY DEATHS: SUICIDES

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES BY SEX
PENNSYLVANIA RESIDENTS, 2007-2011

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2007	1,166	19.1	2007	250	3.8
2008	1,249	20.2	2008	273	4.1
2009	1,271	20.0	2009	330	4.9
2010	1,226	19.0	2010	321	4.8
2011	1,374	21.3	2011	333	5.0



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2007-2011

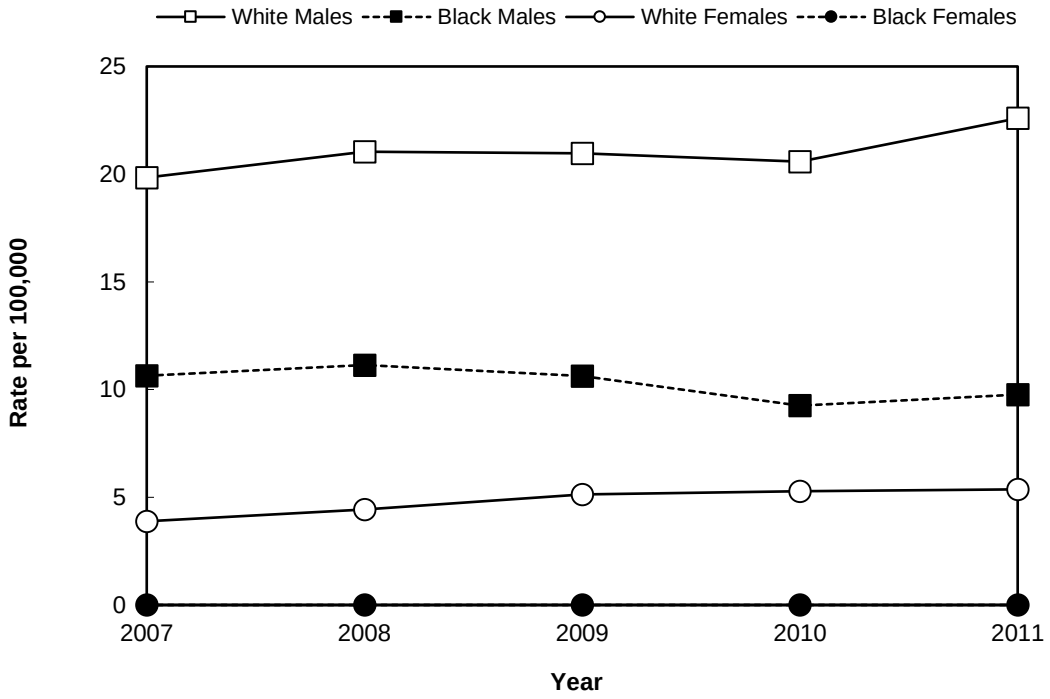
Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2007	18.2	21.4	2007	4.0	3.1
2008	19.6	21.7	2008	4.0	4.5
2009	19.2	22.4	2009	4.5	6.0
2010	18.2	21.2	2010	4.9	4.4
2011	20.2	24.2	2011	4.6	5.9

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 DEATHS: SUICIDES

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES BY SEX AND RACE OR ETHNICITY
PENNSYLVANIA RESIDENTS, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	1,059	62	225	14	32	6
2008	1,137	67	253	12	36	5
2009	1,163	69	300	16	26	3
2010	1,114	61	294	15	27	3
2011	1,255	63	306	16	32	5



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	19.8	10.6	3.9	NSR	11.9	NSR
2008	21.0	11.1	4.4	NSR	14.0	NSR
2009	21.0	10.6	5.1	NSR	10.7	NSR
2010	20.6	9.3	5.3	NSR	9.0	NSR
2011	22.6	9.8	5.4	NSR	9.6	NSR

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, 2007-2011

AGE	PA TOTAL		MALE		FEMALE			URBAN		RURAL		
GROUP	No.	Rate	No.	Rate	No.	Rate		No.	Rate	No.	Rate	
TOTAL	**7,793**	**12.4**	**6,286**	**20.5**	**1,507**	**4.7**		**5,412**	**11.8**	**2,381**	**13.8**	
< 5	1	NSR	1	NSR	0	NSR		1	NSR	0	NSR	
5-9	1	NSR	1	NSR	0	NSR		1	NSR	0	NSR	
10-14	57	1.4	40	2.0	17	0.9	*	34	1.2	23	2.2	*
15-19	304	6.6	239	10.3	65	2.9	*	208	6.3	96	7.5	*
20-24	583	13.2	509	22.7	74	3.4	*	420	13.1	163	13.2	
25-29	559	14.7	464	24.0	95	5.1	*	388	13.5	171	18.3	*
30-34	525	14.1	431	23.0	94	5.1	*	353	12.8	172	17.9	*
35-39	602	15.4	479	24.6	123	6.3	*	410	14.3	192	18.4	*
40-44	786	18.1	631	29.4	155	7.1	*	547	17.3	239	20.5	*
45-49	917	19.8	715	31.3	202	8.6	*	644	19.1	273	21.6	
50-54	978	21.1	758	33.3	220	9.3	*	703	20.9	275	21.4	
55-59	725	17.3	565	27.7	160	7.4	*	506	16.9	219	18.3	
60-64	529	14.9	416	24.4	113	6.1	*	374	14.8	155	14.9	
65-69	320	11.8	264	21.0	56	3.8	*	207	11.0	113	13.7	
70-74	250	11.4	209	21.5	41	3.4	*	158	10.3	92	13.8	*
75-79	246	13.4	207	27.2	39	3.6	*	172	13.4	74	13.6	
80-84	221	15.1	193	34.4	28	3.1	*	154	14.8	67	15.8	
85 +	189	12.8	164	35.8	25	2.5	*	132	12.4	57	13.7	

* 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, 2007-2011

AGE	WHITE MALE		BLACK MALE			WHITE FEMALE		BLACK FEMALE		HISPANICS	
GROUP	No.	Rate	No.	Rate		No.	Rate	No.	Rate	No.	Rate
TOTAL	**5,728**	**22.1**	**322**	**9.9**		**1,378**	**5.1**	**73**	**2.0**	**175**	**5.4**
< 5	0	NSR	1	NSR		0	NSR	0	NSR	0	NSR
5-9	0	NSR	0	NSR		0	NSR	0	NSR	1	NSR
10-14	30	1.8	8	NSR		8	NSR	6	NSR	5	NSR
15-19	202	10.8	25	7.8	*	51	2.8	8	NSR	12	3.7
20-24	425	23.5	50	16.4	*	59	3.4	7	NSR	25	8.4
25-29	397	25.3	33	13.2	*	81	5.4	8	NSR	22	8.1
30-34	380	24.8	32	14.4	*	76	5.1	12	5.1	17	6.7
35-39	416	25.6	36	17.1	*	113	7.0	6	NSR	20	8.3
40-44	575	31.4	28	12.8	*	146	7.9	5	NSR	21	9.8
45-49	662	33.3	34	15.7	*	193	9.6	5	NSR	13	6.9
50-54	710	35.3	25	12.7	*	209	10.1	6	NSR	15	10.5
55-59	544	29.8	11	6.9	*	157	8.3	2	NSR	8	NSR
60-64	388	25.2	14	11.6	*	109	6.6	4	NSR	8	NSR
65-69	252	22.0	9	NSR		52	4.0	2	NSR	2	NSR
70-74	201	22.5	3	NSR		40	3.6	1	NSR	3	NSR
75-79	198	28.2	6	NSR		34	3.5	0	NSR	1	NSR
80-84	188	35.9	4	NSR		26	3.1	0	NSR	2	NSR
85 +	160	37.6	3	NSR		24	2.5	1	NSR	0	NSR

* 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, 2007-2011

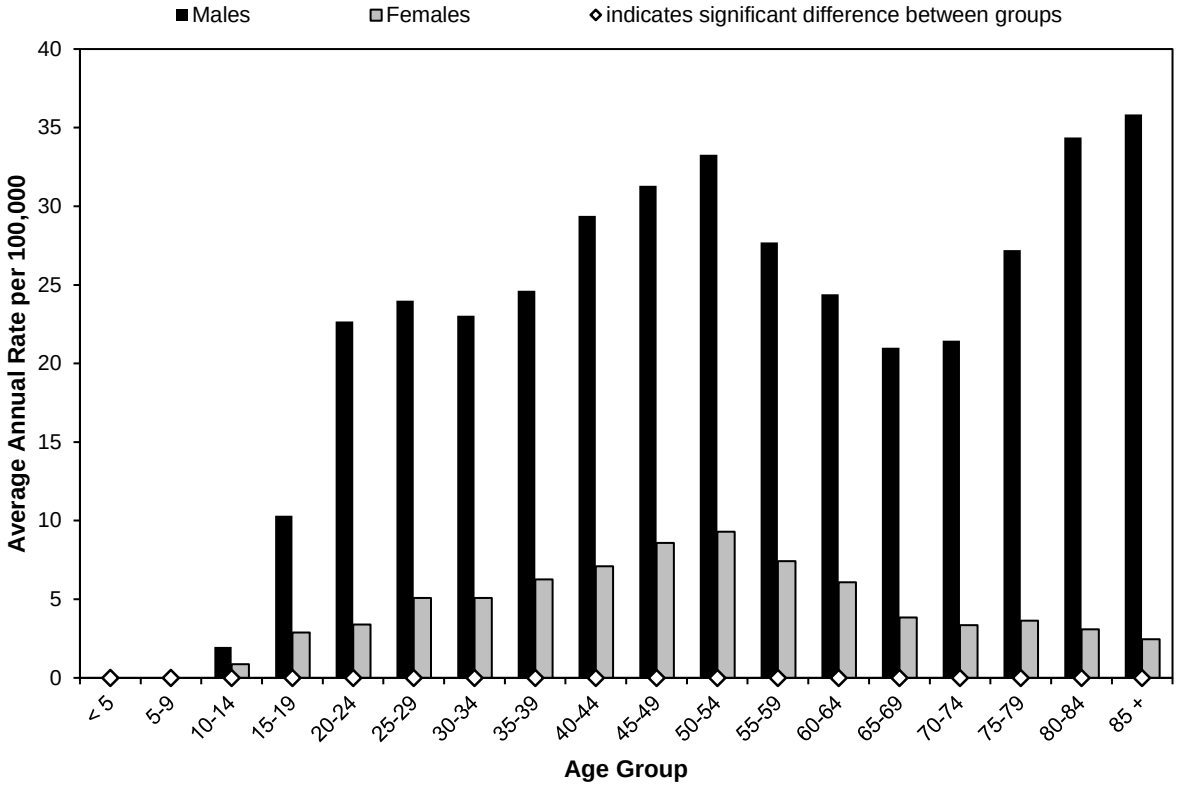
AGE	NORTHWEST			NORTH CENTRAL			NORTHEAST			SOUTHEAST			SOUTH CENTRAL			SOUTHWEST		
GROUP	No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate	
TOTAL	**644**	**13.9**		**434**	**12.6**		**1,075**	**13.6**		**2,913**	**11.6**		**1,056**	**12.8**		**1,671**	**12.4**	
< 5	0	NSR		0	NSR		0	NSR		1	NSR		0	NSR		0	NSR	
5-9	0	NSR		0	NSR		0	NSR		1	NSR		0	NSR		0	NSR	
10-14	4	NSR		3	NSR		11	2.2	+	23	1.4		7	NSR		9	NSR	
15-19	28	8.1		23	7.5		43	7.5		102	5.5		43	7.5		65	7.0	
20-24	47	15.0		21	5.7	-	91	17.1	+	239	13.3		72	13.7		113	12.7	
25-29	48	18.5	+	31	16.6		83	18.5	+	226	13.8		61	12.4	-	110	14.2	
30-34	50	19.1	+	24	12.8		73	16.3	+	182	11.6	-	72	14.6		124	16.2	
35-39	57	20.6	+	42	21.2	+	86	17.7	+	198	12.3	-	80	15.2		139	17.2	
40-44	55	17.8		43	19.7		105	19.1		297	16.9		111	19.0		175	19.1	
45-49	55	16.4	-	55	23.3	+	114	19.2		369	20.0		122	19.8		202	20.1	
50-54	80	23.1		49	20.5		132	22.3		398	22.1		127	20.8		192	18.2	
55-59	56	17.5		39	17.6		99	18.4		268	16.9		109	19.4		154	15.9	
60-64	51	18.6	+	25	13.0		82	17.3	+	204	15.5		70	14.5		97	11.8	-
65-69	27	12.5		19	12.2		41	11.2		100	10.2		56	14.9	+	77	12.5	
70-74	27	15.1	+	16	12.5		30	10.4		83	10.6		43	14.5	+	51	9.9	
75-79	21	14.1		20	19.3	+	40	16.8	+	79	12.0		29	11.9		57	12.8	
80-84	20	16.9		15	18.9		24	12.7		74	14.1		31	17.1		57	15.2	
85 +	18	15.5		9	NSR		21	11.2		69	12.8		23	13.1		49	12.9	

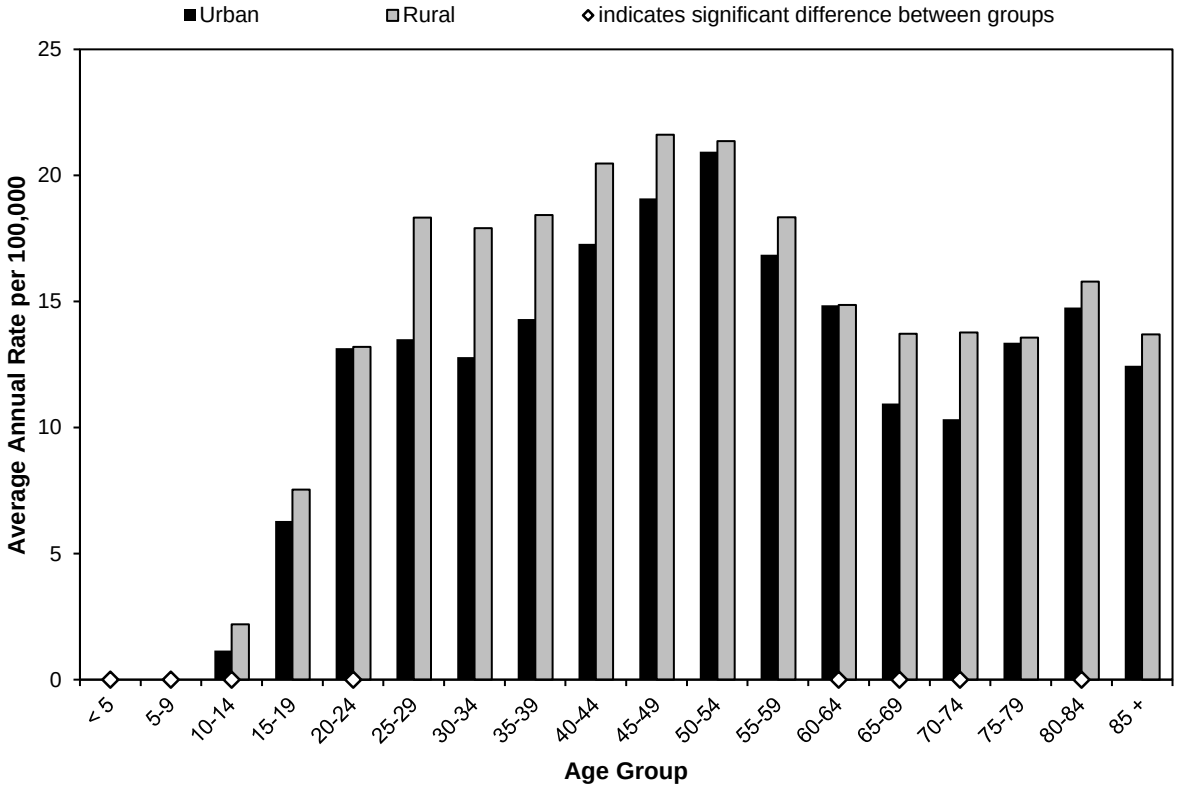
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

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

INJURY DEATHS: SUICIDES

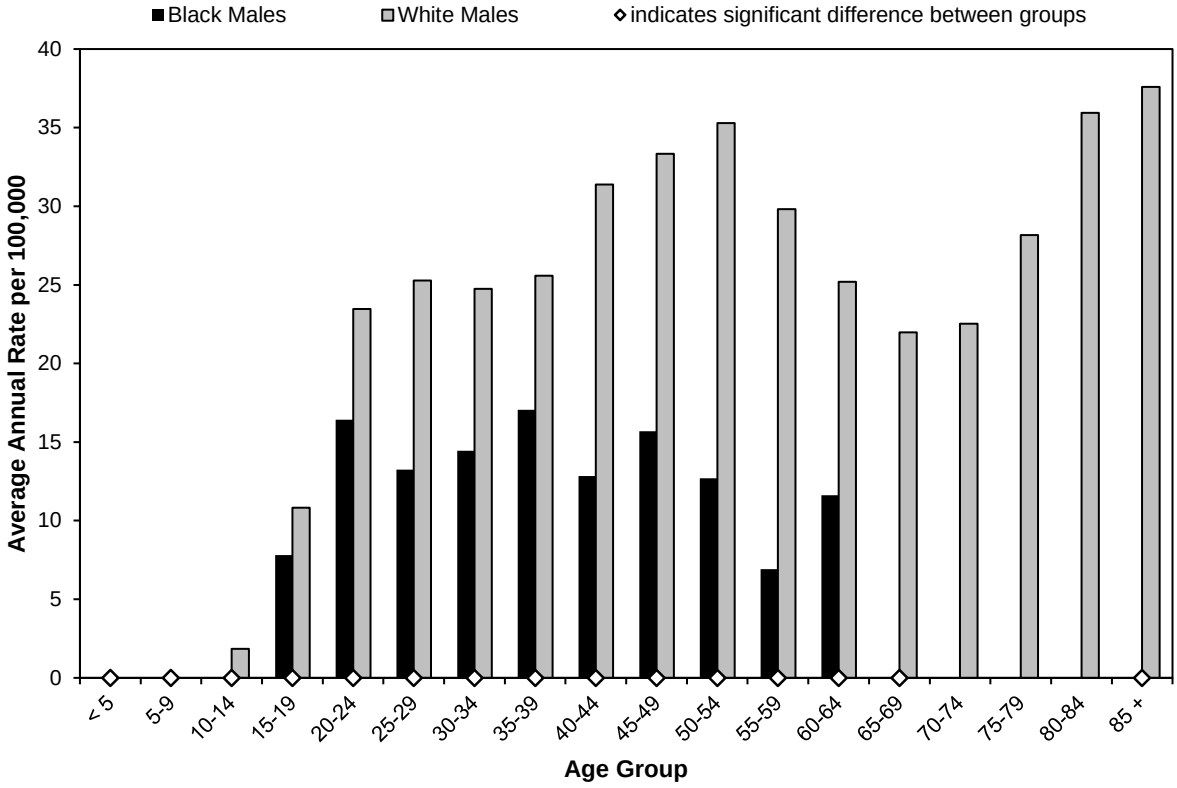
AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2007-2011

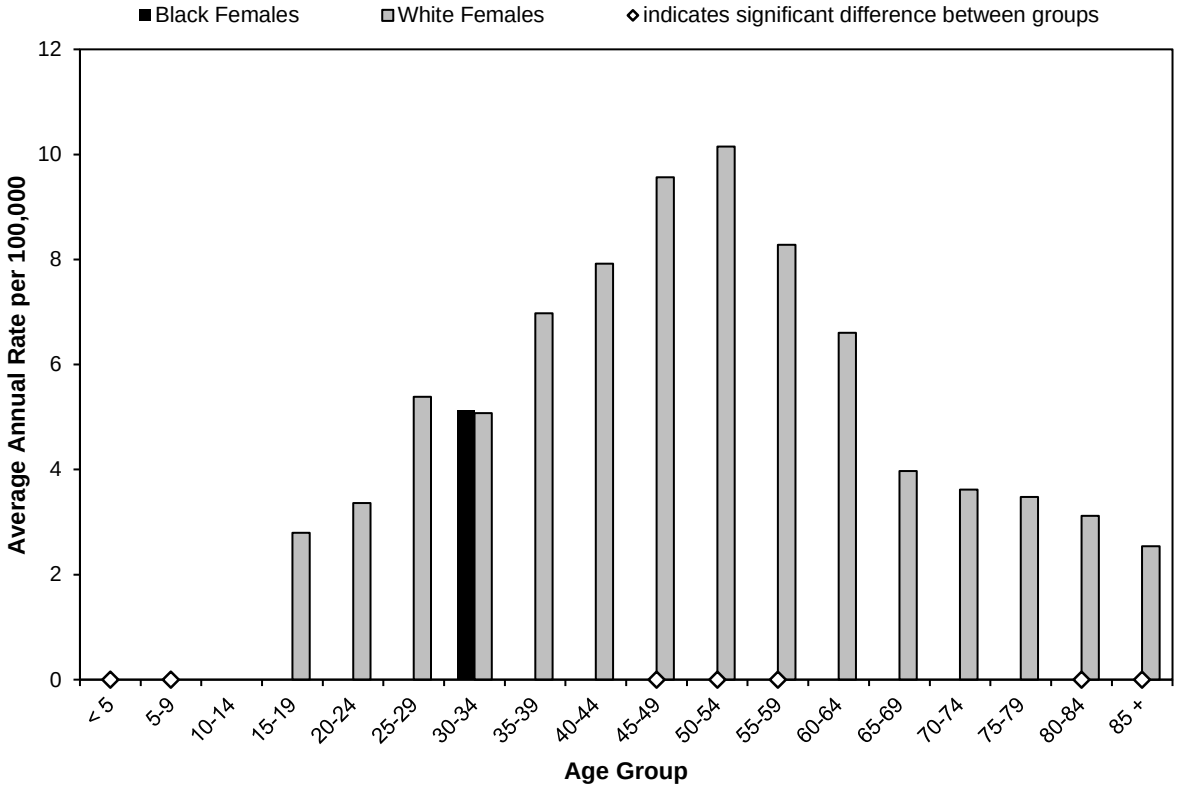




INJURY DEATHS: SUICIDES

AVERAGE ANNUAL DEATH RATES BY SEX AND RACE
PENNSYLVANIA RESIDENTS, 2007-2011





INJURY DEATHS: SUICIDES

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2007-2011

District/County	No.	Rate	CI (95%)	
Northeast	1,075	13.1	12.3-13.9	+
Carbon	72	20.8	16.0-25.6	+
Lackawanna	151	13.7	11.5-15.9	
Lehigh	205	11.4	9.9-13.0	
Luzerne	235	14.7	12.9-16.6	+
Monroe	111	13.0	10.6-15.5	
Northampton	167	10.8	9.1-12.4	
Pike	37	12.4	8.4-16.3	
Susquehanna	29	14.0	8.9-19.1	
Wayne	51	18.2	13.2-23.2	+
Wyoming	17	NSR		
North Central	434	12.5	11.4-13.7	
Bradford	56	17.5	12.9-22.0	+
Centre	68	9.9	7.6-12.3	
Clinton	18	NSR		
Columbia	48	14.8	10.6-19.0	
Lycoming	72	12.4	9.5-15.2	
Montour	15	NSR		
Northumberland	61	13.1	9.8-16.3	
Potter	16	NSR		
Snyder	19	NSR		
Sullivan	7	NSR		
Tioga	34	15.8	10.5-21.1	
Union	20	8.3	4.6-11.9	
Northwest	644	13.4	12.4-14.4	+
Cameron	6	NSR		
Clarion	25	12.6	7.7-17.6	
Clearfield	65	14.4	10.9-17.9	
Crawford	70	15.2	11.6-18.7	
Elk	29	16.3	10.4-22.3	
Erie	186	13.0	11.1-14.8	
Forest	2	NSR		
Jefferson	41	16.9	11.7-22.1	
Lawrence	61	13.3	9.9-16.6	
McKean	25	11.3	6.8-15.7	
Mercer	78	12.8	10.0-15.6	
Venango	35	13.5	9.1-18.0	
Warren	21	11.2	6.4-16.0	

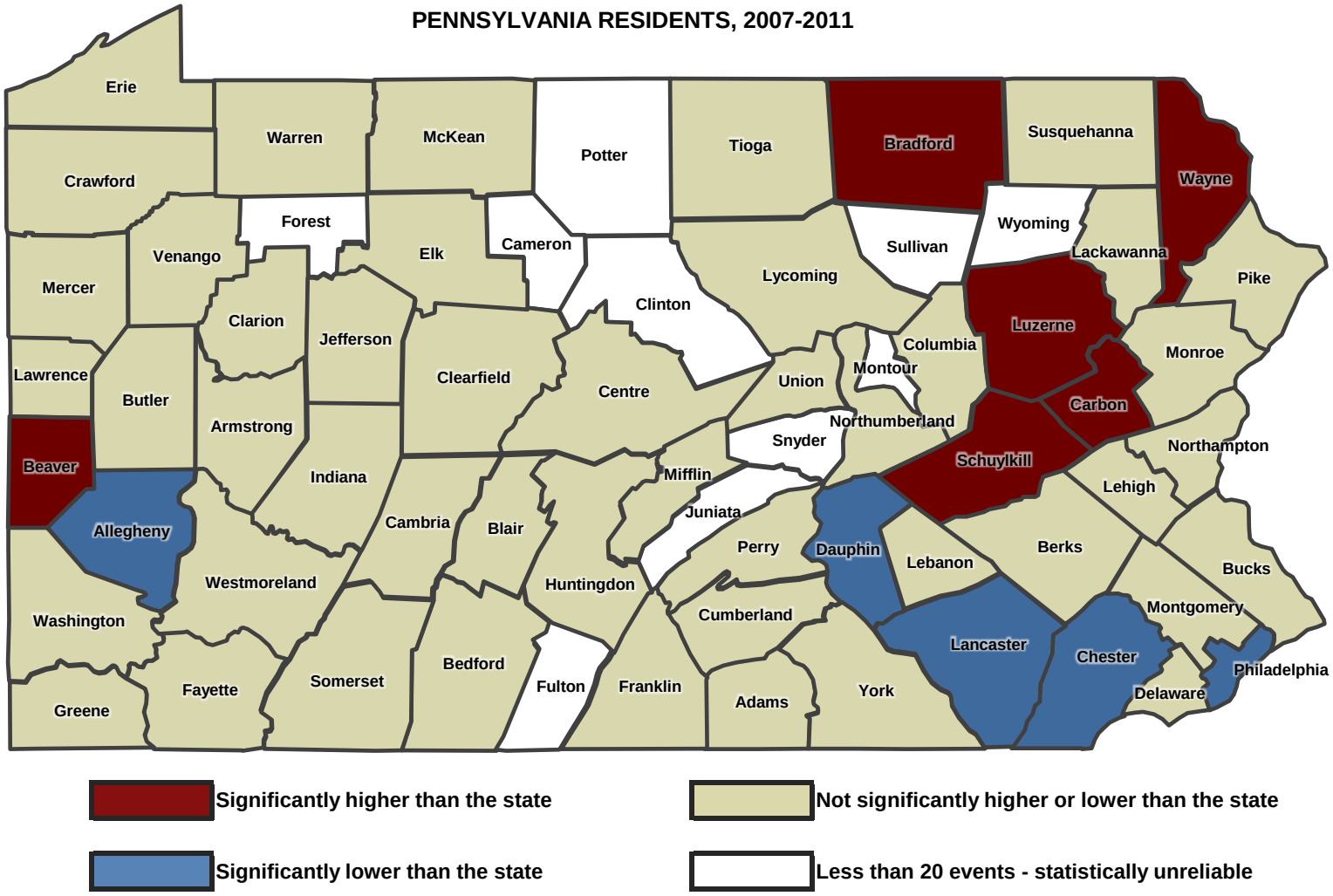
District/County	No.	Rate	CI (95%)	
Southeast	2,913	11.2	10.8-11.6	-
Berks	265	12.6	11.1-14.1	
Bucks	416	12.7	11.5-13.9	
Chester	262	10.2	9.0-11.4	-
Delaware	370	12.8	11.5-14.1	
Lancaster	226	8.6	7.5-9.7	-
Montgomery	492	11.8	10.7-12.8	
Philadelphia	760	10.2	9.5-10.9	-
Schuylkill	122	16.3	13.4-19.2	+
South Central	1,056	12.2	11.5-12.9	
Adams	66	12.8	9.7-15.9	
Bedford	33	12.4	8.1-16.6	
Blair	75	12.0	9.3-14.7	
Cumberland	148	11.9	10.0-13.8	
Dauphin	137	9.9	8.2-11.5	-
Franklin	95	12.5	10.0-15.0	
Fulton	19	NSR		
Huntingdon	39	16.2	11.1-21.3	
Juniata	12	NSR		
Lebanon	76	11.3	8.8-13.9	
Mifflin	33	14.4	9.5-19.3	
Perry	35	15.5	10.4-20.7	
York	288	12.9	11.4-14.4	
Southwest	1,671	11.8	11.3-12.4	
Allegheny	666	10.4	9.6-11.2	-
Armstrong	49	14.1	10.1-18.0	
Beaver	134	15.1	12.6-17.7	+
Butler	117	12.2	10.0-14.4	
Cambria	109	14.1	11.5-16.8	
Fayette	83	11.5	9.0-14.0	
Greene	31	15.2	9.8-20.5	
Indiana	66	15.3	11.6-19.0	
Somerset	48	11.2	8.0-14.4	
Washington	140	13.3	11.1-15.5	
Westmoreland	228	11.8	10.3-13.4	
Pennsylvania	7,793	11.9	11.6-12.2	

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, 2007-2011



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, 2007-2011

Geography	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	6,286	1,507	**7,793**	1,622	10.1	2,021	16.9	2,483	19.3	1,092	8.8	575	5.9
Northeast	861	214	**1,075**	242	12.3	272	19.1	337	20.7	147	9.2	77	6.1
Carbon	60	12	72	19	26.7	12	20.8	28	41.8	10	14.4	3	NSR
Lackawanna	124	27	151	35	13.9	33	16.6	48	23.2	19	9.0	16	8.5
Lehigh	151	54	205	38	8.4	46	14.2	72	20.3	35	10.5	14	5.4
Luzerne	188	47	235	55	15.2	70	24.3	74	22.9	22	6.9	14	4.9
Monroe	90	21	111	21	9.1	28	19.1	31	16.8	22	12.9	9	NSR
Northampton	131	36	167	33	8.5	40	14.7	50	16.3	23	7.8	21	9.3
Pike	36	1	37	13	18.3	11	25.1	9	NSR	4	NSR	0	NSR
Susquehanna	22	7	29	7	NSR	10	30.2	9	NSR	3	NSR	0	NSR
Wayne	43	8	51	15	27.1	17	41.6	11	20.7	8	NSR	0	NSR
Wyoming	16	1	17	6	NSR	5	NSR	5	NSR	1	NSR	0	NSR
Southeast	2,306	607	**2,913**	493	7.3	658	13.1	1,054	20.2	460	9.8	248	7.1
Berks	213	52	265	50	8.9	52	13.9	91	21.4	36	9.4	36	12.3
Bucks	337	79	416	86	10.8	82	16.0	147	20.8	71	10.8	30	6.7
Chester	213	49	262	66	9.5	53	12.0	93	16.9	33	6.8	17	5.4
Delaware	283	87	370	46	6.2	75	14.0	147	25.8	69	12.9	33	8.3
Lancaster	182	44	226	44	6.1	48	9.9	74	14.7	41	8.7	19	5.0
Montgomery	369	123	492	79	7.9	119	17.0	190	21.9	67	8.6	37	6.3
Philadelphia	601	159	760	94	4.6	194	10.6	269	18.7	131	10.5	72	7.7
Schuylkill	108	14	122	28	17.3	35	26.7	43	26.7	12	8.0	4	3.0

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	6,286	1,507	**7,793**	1,622	10.1	2,021	16.9	2,483	19.3	1,092	8.8	575	5.9
North Central	348	86	**434**	111	13.0	147	19.8	113	17.3	45	6.9	18	3.3
Bradford	46	10	56	11	14.1	14	27.9	14	22.3	11	17.0	6	NSR
Centre	57	11	68	19	10.1	17	7.2	23	18.8	5	NSR	4	NSR
Clinton	16	2	18	6	NSR	9	NSR	3	NSR	0	NSR	0	NSR
Columbia	37	11	48	10	11.9	19	27.2	10	16.8	8	NSR	1	NSR
Lycoming	53	19	72	20	14.1	28	25.1	19	16.5	3	NSR	2	NSR
Montour	12	3	15	5	NSR	4	NSR	5	NSR	1	NSR	0	NSR
Northumberland	51	10	61	10	9.4	18	23.3	18	18.9	10	10.3	5	NSR
Potter	12	4	16	7	NSR	3	NSR	5	NSR	1	NSR	0	NSR
Snyder	17	2	19	5	NSR	6	NSR	6	NSR	2	NSR	0	NSR
Sullivan	5	2	7	5	NSR	2	NSR	0	NSR	0	NSR	0	NSR
Tioga	25	9	34	4	NSR	20	55.8	6	NSR	4	NSR	0	NSR
Union	17	3	20	9	NSR	7	NSR	4	NSR	0	NSR	0	NSR
South Central	854	202	**1,056**	227	10.8	278	18.4	329	19.0	155	9.4	67	5.3
Adams	54	12	66	17	12.9	23	25.3	17	15.9	7	NSR	2	NSR
Bedford	25	8	33	7	NSR	7	NSR	10	19.4	5	NSR	4	NSR
Blair	57	18	75	23	14.9	26	23.2	18	14.6	8	NSR	0	NSR
Cumberland	117	31	148	31	10.7	29	12.4	51	21.8	24	10.6	13	7.2
Dauphin	112	25	137	23	6.8	28	11.6	52	18.7	20	7.4	14	7.8
Franklin	73	22	95	19	9.9	20	15.4	28	19.3	21	15.0	7	NSR
Fulton	14	5	19	13	70.7	5	NSR	1	NSR	0	NSR	0	NSR
Huntingdon	34	5	39	5	NSR	14	31.3	11	22.7	8	NSR	1	NSR
Juniata	10	2	12	7	NSR	4	NSR	1	NSR	0	NSR	0	NSR
Lebanon	65	11	76	14	8.5	25	20.6	26	20.1	7	NSR	4	NSR
Mifflin	30	3	33	7	NSR	12	31.6	10	21.7	4	NSR	0	NSR
Perry	26	9	35	12	20.1	11	27.9	6	12.3	6	NSR	0	NSR
York	237	51	288	49	8.8	74	19.2	98	20.7	45	10.5	22	7.3

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	6,286	1,507	**7,793**	1,622	10.1	2,021	16.9	2,483	19.3	1,092	8.8	575	5.9
Northwest	548	96	**644**	171	14.8	180	21.6	175	19.0	82	8.7	36	4.6
Cameron	5	1	6	5	NSR	1	NSR	0	NSR	0	NSR	0	NSR
Clarion	23	2	25	9	NSR	11	27.6	4	NSR	1	NSR	0	NSR
Clearfield	54	11	65	13	14.5	17	23.2	20	22.2	11	13.0	4	NSR
Crawford	62	8	70	14	12.1	20	26.1	21	24.5	12	13.1	3	NSR
Elk	27	2	29	7	NSR	10	42.3	8	NSR	4	NSR	0	NSR
Erie	154	32	186	40	10.8	48	17.0	51	18.6	30	11.2	17	8.4
Forest	2	0	2	2	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Jefferson	38	3	41	15	27.6	10	26.4	8	NSR	5	NSR	3	NSR
Lawrence	52	9	61	12	10.8	18	24.2	19	21.5	7	NSR	5	NSR
McKean	21	4	25	12	22.5	7	NSR	5	NSR	1	NSR	0	NSR
Mercer	63	15	78	18	12.2	22	22.4	28	24.8	6	NSR	4	NSR
Venango	29	6	35	13	19.5	10	22.9	7	NSR	5	NSR	0	NSR
Warren	18	3	21	11	22.8	6	NSR	4	NSR	0	NSR	0	NSR
Southwest	1,369	302	**1,671**	378	11.9	486	19.9	475	17.4	203	7.1	129	5.5
Allegheny	535	131	666	168	11.7	208	17.7	188	15.4	60	4.8	42	4.1
Armstrong	41	8	49	12	14.7	22	41.7	7	NSR	5	NSR	3	NSR
Beaver	117	17	134	39	19.7	35	24.7	32	18.4	17	9.1	11	7.0
Butler	93	24	117	27	11.3	24	15.3	36	18.3	17	9.1	13	9.4
Cambria	89	20	109	21	12.8	22	17.5	40	28.1	20	13.0	6	NSR
Fayette	73	10	83	26	16.0	26	22.1	12	8.2	12	7.8	7	NSR
Greene	25	6	31	11	24.7	9	NSR	7	NSR	4	NSR	0	NSR
Indiana	54	12	66	15	13.2	16	17.0	22	28.3	9	NSR	4	NSR
Somerset	40	8	48	9	NSR	15	22.2	13	15.9	5	NSR	6	NSR
Washington	111	29	140	18	7.3	47	26.2	46	22.1	17	7.7	12	6.7
Westmoreland	191	37	228	32	7.8	62	21.4	72	19.2	37	9.2	25	7.4

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 DEATHS: SUICIDES

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

BLACK POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	41	5.3	3.7-6.9
Chester	9	NSR	
Dauphin	14	6.1	2.9-9.4
Delaware	35	6.6	4.4-8.8
Montgomery	16	4.5	2.3-6.7
Philadelphia	190	5.8	5.0-6.6
Pennsylvania	395	5.8	5.2-6.4

WHITE POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	607	11.2	10.3-12.1
Chester	243	10.6	9.3-12.0
Dauphin	117	10.7	8.7-12.6
Delaware	322	14.6	13.0-16.2
Montgomery	459	13.1	11.9-14.3
Philadelphia	481	13.6	12.4-14.9
Pennsylvania	7,106	12.6	12.3-12.9

HISPANIC POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Berks	18	7.3	3.9-10.7
Lancaster	14	6.9	3.3-10.5
Lehigh	18	7.1	3.8-10.4
Philadelphia	60	8	6.0-10.0
Pennsylvania	175	6.1	5.2-7.0

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

Select Counties		Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+	
County and Race		Cty. Pop.	Male	Female	All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Allegheny	Black	13.4%	31	10	**41**	6.2%	6	NSR	16	9.2	15	9.9	2	NSR	2	NSR
	White	82.4%	492	115	**607**	91.1%	16	1.5	117	12.6	189	18.6	185	16.9	100	10.9
Chester	Black	6.2%	8	1	**9**	3.4%	0	NSR	4	NSR	2	NSR	3	NSR	0	NSR
	White	88.3%	196	47	**243**	92.7%	9	NSR	61	16.2	65	13.4	81	18.3	27	9.3
Dauphin	Black	18.1%	12	2	**14**	10.2%	1	NSR	4	NSR	5	NSR	3	NSR	1	NSR
	White	75.8%	94	23	**117**	85.4%	4	NSR	21	11.9	31	14.5	39	17.5	22	14.1
Delaware	Black	19.2%	30	5	**35**	9.5%	4	NSR	11	8.6	10	9.0	8	NSR	2	NSR
	White	74.4%	243	79	**322**	87.0%	16	3.2	56	15.2	97	23.2	114	26.2	39	11.3
Montgomery	Black	8.8%	12	4	**16**	3.3%	3	NSR	5	NSR	6	NSR	1	NSR	1	NSR
	White	83.2%	344	115	**459**	93.3%	10	1.2	86	15.5	149	21.0	152	22.5	62	11.5
Philadelphia	Black	45.1%	154	36	**190**	25.0%	21	2.0	67	9.0	57	8.7	30	5.4	15	4.1
	White	45.3%	376	105	**481**	63.3%	8	NSR	95	10.9	157	24.3	148	24.7	73	13.8
Pennsylvania	Black	10.9%	322	73	**395**	5.1%	48	2.2	142	9.1	114	8.3	62	5.8	29	4.4
	White	84.5%	5,728	1,378	**7,106**	91.2%	291	2.3	1,418	14.7	2,105	19.3	2,117	19.3	1,175	13.3

INJURY DEATHS: HOMICIDES

In 2011, among Pennsylvania residents, there were 674 deaths due to assault injury (homicides). On average, 13 residents died every week.

Injury Definition

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

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

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

HIGHLIGHTS

- Age-adjusted rates generally **decreased** slightly from 2007 to 2011.
- Most common demographic is **black males**, ages 15 to 29.
- Of all Pennsylvania counties, **Philadelphia** had the highest rate.

Trends Over Time

- The age-adjusted death rates for homicide decreased by 13 percent from 6.1 deaths per 100,000 population in 2007 to 5.3 deaths in 2009; they increased slightly by 6 percent to 5.6 deaths in 2010 and then finally decreased by 5 percent to 5.5 deaths per 100,000 population in 2011.
- Males had higher age-adjusted homicide rates than females from 2007 to 2011.
- Urban populations had significantly higher homicide rates than rural populations for age 15 to 64.

Demographic Trends

- Black males, ages 15 to 59, accounted for over half of all homicides in 2007 to 2011.
- Males had significantly higher homicide rates than females among ages 15 to 74.
- Among males and females, blacks had significantly higher homicide rates than whites for most of the age groups.

Regional Trends

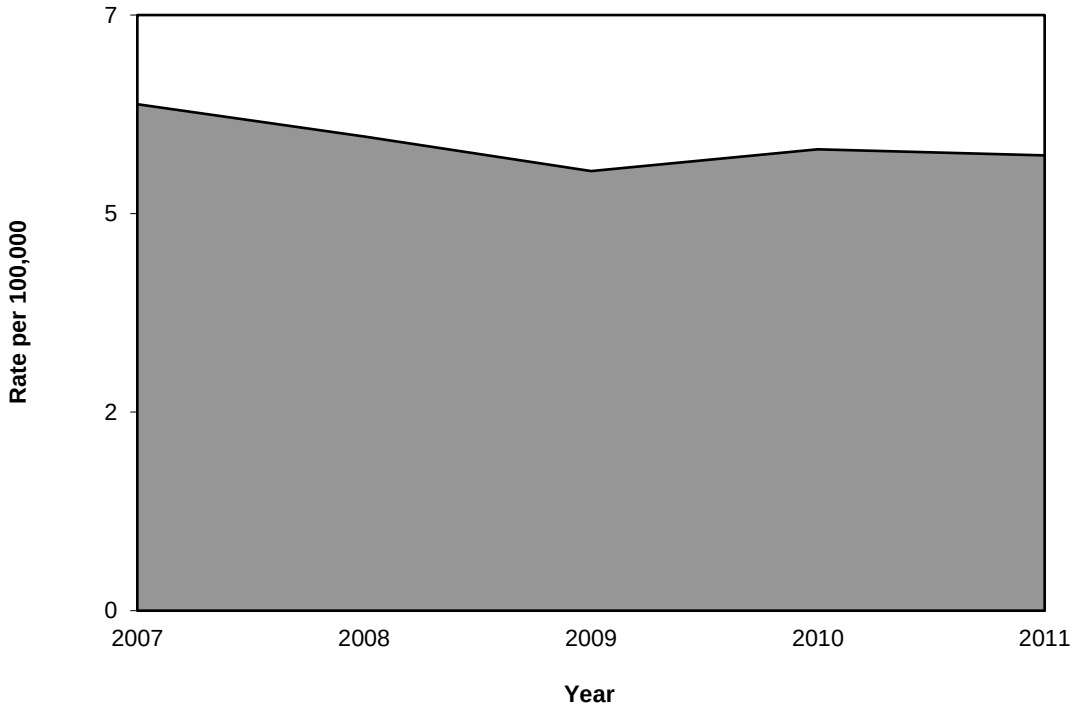
- The Southeast Health District had the highest age-adjusted homicide rate while the North Central Health District had the lowest age-adjusted homicide rate.
- Three counties (Allegheny, Delaware and Philadelphia) had age-adjusted homicide rates that were significantly higher than the comparable state rate. All the three counties were urban, and are located in the Southeast and Southwest Health Districts.

  Note: Rates could not be calculated for most of the counties in the state due to the small number of events (i.e., fewer than 20 homicides over 2007 to 2011).

INJURY DEATHS: HOMICIDES

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES
PENNSYLVANIA RESIDENTS, 2007-2011

Year	No.	Rate
2007	737	6.1
2008	692	5.7
2009	650	5.3
2010	682	5.6
2011	674	5.5



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2007-2011

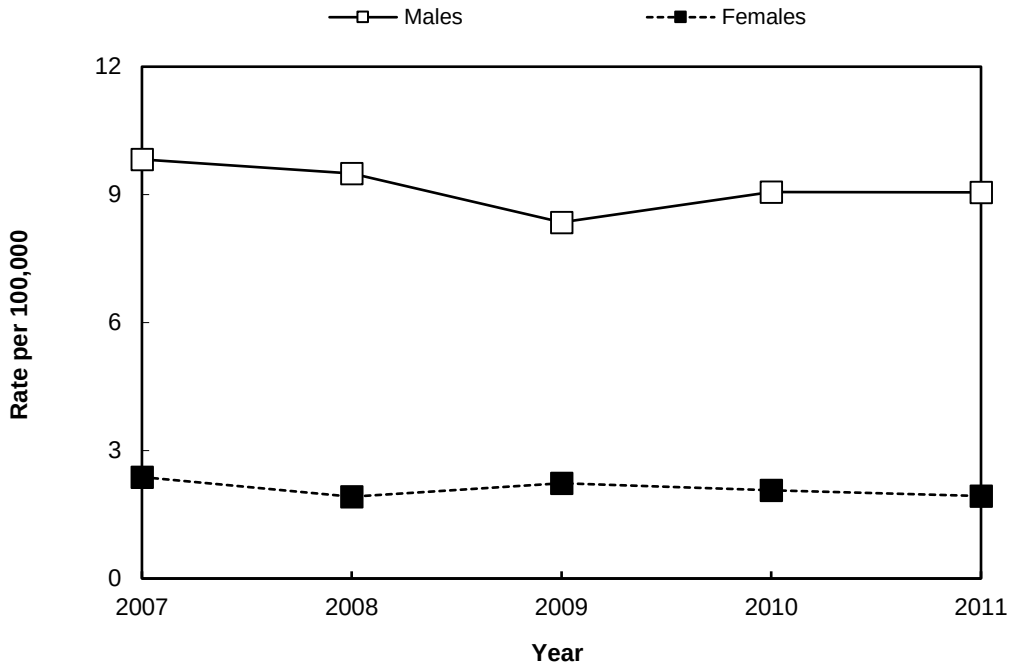
Year	Northwest	North Central	Northeast	Southeast	South Central	Southwest
2007	NSR	NSR	3.6	10.1	2.7	4.9
2008	2.1	NSR	3.4	8.5	2.7	6.0
2009	NSR	NSR	3.4	7.8	3.4	4.9
2010	3.6	NSR	2.4	8.1	3.3	5.4
2011	2.9	NSR	2.9	8.5	3.0	4.5

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2007-2011 based on ICD-9 codes. See Technical Notes.

INJURY DEATHS: HOMICIDES

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES BY SEX
PENNSYLVANIA RESIDENTS, 2007-2011

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2007	593	9.8	2007	144	2.4
2008	570	9.5	2008	122	1.9
2009	509	8.4	2009	141	2.2
2010	553	9.1	2010	128	2.1
2011	555	9.1	2011	119	1.9



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2007-2011

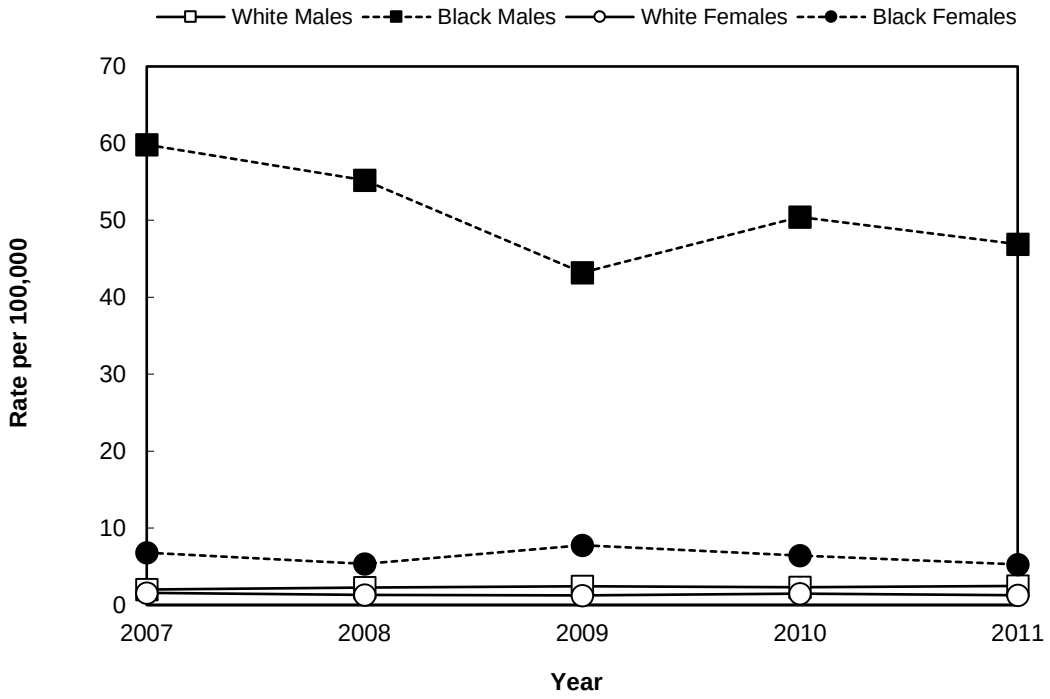
Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2007	12.8	2.2	2007	2.7	1.6
2008	11.9	3.2	2008	2.2	1.3
2009	10.5	2.7	2009	2.5	1.6
2010	11.3	3.1	2010	2.3	1.4
2011	11.4	2.8	2011	2.1	1.4

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: HOMICIDES

TOTAL NUMBER OF INJURY DEATHS AND AGE-ADJUSTED DEATH RATES BY SEX AND RACE OR ETHNICITY PENNSYLVANIA RESIDENTS, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	104	418	83	47	59	8
2008	119	396	72	39	44	10
2009	124	318	69	56	62	13
2010	120	366	74	45	51	5
2011	126	364	67	41	51	8



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	2.0	59.8	1.6	6.8	21.1	NSR
2008	2.3	55.2	1.3	5.3	15.7	NSR
2009	2.4	43.2	1.2	7.8	20.2	NSR
2010	2.3	50.4	1.5	6.4	12.4	NSR
2011	2.5	46.9	1.3	5.3	13.0	NSR

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, 2007-2011

AGE	PA TOTAL		MALE		FEMALE			URBAN		RURAL		
GROUP	No.	Rate	No.	Rate	No.	Rate		No.	Rate	No.	Rate	
TOTAL	**3,435**	**5.5**	**2,780**	**9.1**	**654**	**2.0**		**3,083**	**6.7**	**352**	**2.0**	
< 5	73	2.0	41	2.2	31	1.7		53	1.9	20	2.2	
5-9	16	0.4	7	NSR	9	NSR		14	0.5	2	NSR	
10-14	23	0.6	16	0.8	7	NSR		18	0.6	5	NSR	
15-19	490	10.7	433	18.7	57	2.5	*	461	14.0	29	2.3	*
20-24	700	15.8	622	27.7	78	3.6	*	664	20.8	36	2.9	*
25-29	502	13.2	445	23.0	57	3.0	*	470	16.4	32	3.4	*
30-34	385	10.3	325	17.4	60	3.2	*	348	12.6	37	3.9	*
35-39	298	7.6	230	11.8	68	3.5	*	269	9.4	29	2.8	*
40-44	256	5.9	183	8.5	73	3.3	*	216	6.8	40	3.4	*
45-49	202	4.4	143	6.3	59	2.5	*	168	5.0	34	2.7	*
50-54	165	3.6	129	5.7	36	1.5	*	141	4.2	24	1.9	*
55-59	89	2.1	66	3.2	23	1.1	*	77	2.6	12	1.0	*
60-64	69	1.9	47	2.8	22	1.2	*	56	2.2	13	1.2	*
65-69	44	1.6	32	2.5	12	0.8	*	36	1.9	8	NSR	
70-74	33	1.5	19	2.0	14	1.1	*	22	1.4	11	1.6	
75-79	25	1.4	18	2.4	7	NSR		21	1.6	4	NSR	
80-84	37	2.5	14	2.5	23	2.5		27	2.6	10	2.4	
85 +	28	1.9	10	2.2	18	1.8		22	2.1	6	NSR	

* 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, 2007-2011

AGE	WHITE MALE		BLACK MALE			WHITE FEMALE		BLACK FEMALE			HISPANICS	
GROUP	No.	Rate	No.	Rate		No.	Rate	No.	Rate		No.	Rate
TOTAL	**593**	**2.3**	**1,862**	**57.1**		**365**	**1.3**	**228**	**6.4**		**311**	**9.5**
< 5	21	1.4	15	5.7	*	18	1.3	11	4.3	*	3	NSR
5-9	4	NSR	2	NSR		7	NSR	2	NSR		0	NSR
10-14	4	NSR	12	4.3		3	NSR	3	NSR		0	NSR
15-19	44	2.4	347	108.4	*	17	0.9	30	9.7	*	44	13.6
20-24	55	3.0	495	162.6	*	35	2.0	36	12.0	*	68	22.9
25-29	56	3.6	338	135.7	*	28	1.9	24	9.6	*	45	16.6
30-34	73	4.8	213	96.2	*	32	2.1	22	9.4	*	38	14.9
35-39	44	2.7	148	70.1	*	38	2.3	21	9.1	*	39	16.3
40-44	63	3.4	102	46.8	*	41	2.2	24	9.9	*	22	10.2
45-49	54	2.7	71	32.8	*	29	1.4	24	9.7	*	21	11.2
50-54	65	3.2	51	25.9	*	24	1.2	10	4.3	*	11	7.7
55-59	25	1.4	31	19.5	*	15	0.8	7	NSR		5	NSR
60-64	25	1.6	16	13.3	*	16	1.0	3	NSR		5	NSR
65-69	19	1.7	7	NSR		10	0.8	2	NSR		3	NSR
70-74	11	1.2	6	NSR		10	0.9	4	NSR		2	NSR
75-79	10	1.4	6	NSR		6	NSR	1	NSR		2	NSR
80-84	12	2.3	1	NSR		20	2.4	3	NSR		1	NSR
85 +	8	NSR	1	NSR		16	1.7	1	NSR		2	NSR

* 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, 2007-2011

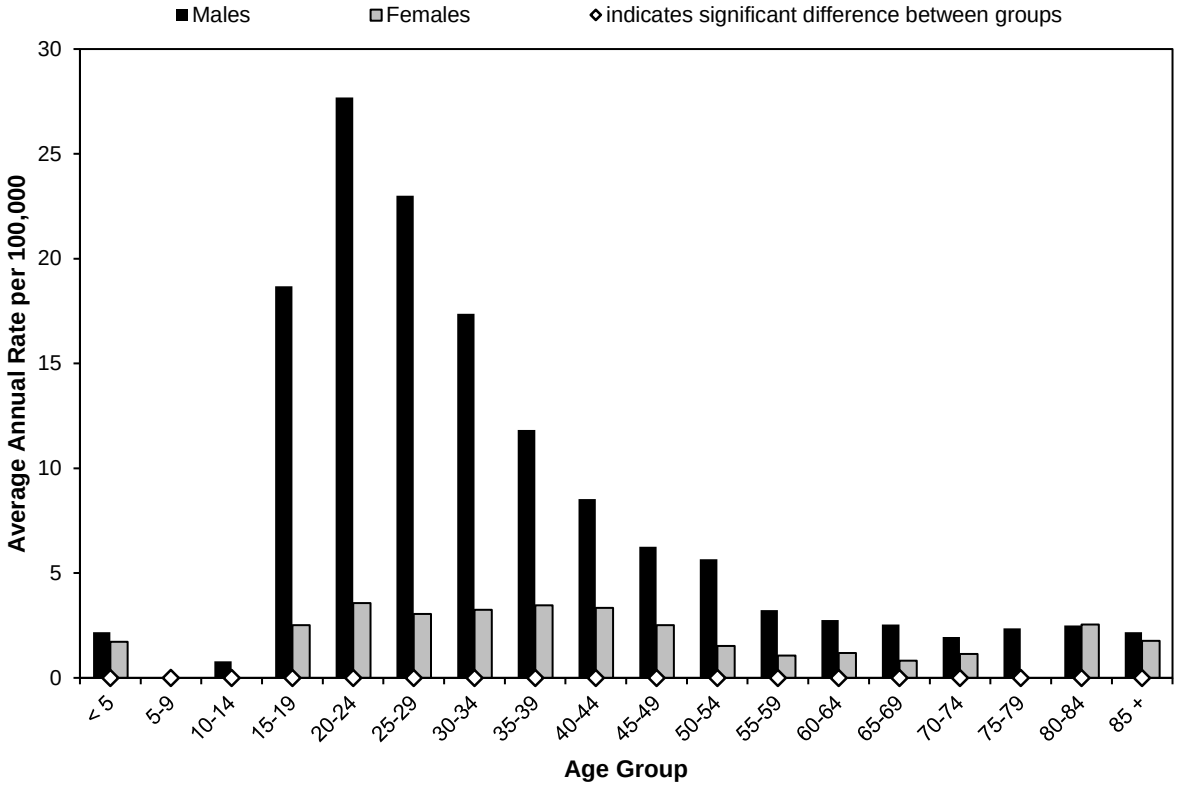
AGE	NORTHWEST			NORTH CENTRAL		NORTHEAST			SOUTHEAST			SOUTH CENTRAL		SOUTHWEST		
GROUP	No.	Rate		No.	Rate	No.	Rate		No.	Rate		No.	Rate	No.	Rate	
TOTAL	**108**	**2.3**		**60**	**1.7**	**237**	**3.0**		**2,145**	**8.5**		**240**	**2.9**	**645**	**4.8**	
< 5	7	NSR		5	NSR	7	NSR		31	1.9		9	NSR	14	2.0	
5-9	1	NSR		0	NSR	1	NSR		7	NSR		1	NSR	6	NSR	
10-14	1	NSR		0	NSR	3	NSR		8	NSR		2	NSR	9	NSR	
15-19	12	3.5	-	4	NSR	29	5.1	-	315	17.0	+	36	6.3	-	94	10.1	
20-24	9	NSR		5	NSR	41	7.7	-	495	27.5	+	31	5.9	-	119	13.3	
25-29	12	4.6	-	9	NSR	26	5.8	-	329	20.0	+	33	6.7	-	93	12.0	
30-34	15	5.7	-	7	NSR	21	4.7	-	233	14.9	+	27	5.5	-	82	10.7	
35-39	7	NSR		7	NSR	25	5.1	-	190	11.8	+	20	3.8	-	49	6.1	-
40-44	11	3.6	-	7	NSR	24	4.4	-	134	7.6	+	23	3.9	-	57	6.2	
45-49	7	NSR		5	NSR	16	2.7	-	126	6.8	+	14	2.3	-	34	3.4	-
50-54	10	2.9		3	NSR	13	2.2	-	101	5.6	+	11	1.8	-	27	2.6	-
55-59	4	NSR		2	NSR	8	1.5		56	3.5	+	6	NSR		13	1.3	-
60-64	4	NSR		1	NSR	7	NSR		35	2.7	+	8	NSR		14	1.7	
65-69	0	NSR		1	NSR	4	NSR		28	2.8	+	4	NSR		7	NSR	
70-74	5	NSR		2	NSR	1	NSR		13	1.7		3	NSR		9	NSR	
75-79	1	NSR		1	NSR	1	NSR		12	1.8		3	NSR		7	NSR	
80-84	1	NSR		1	NSR	7	NSR		19	3.6	+	5	NSR		4	NSR	
85 +	1	NSR		0	NSR	3	NSR		13	2.4		4	NSR		7	NSR	

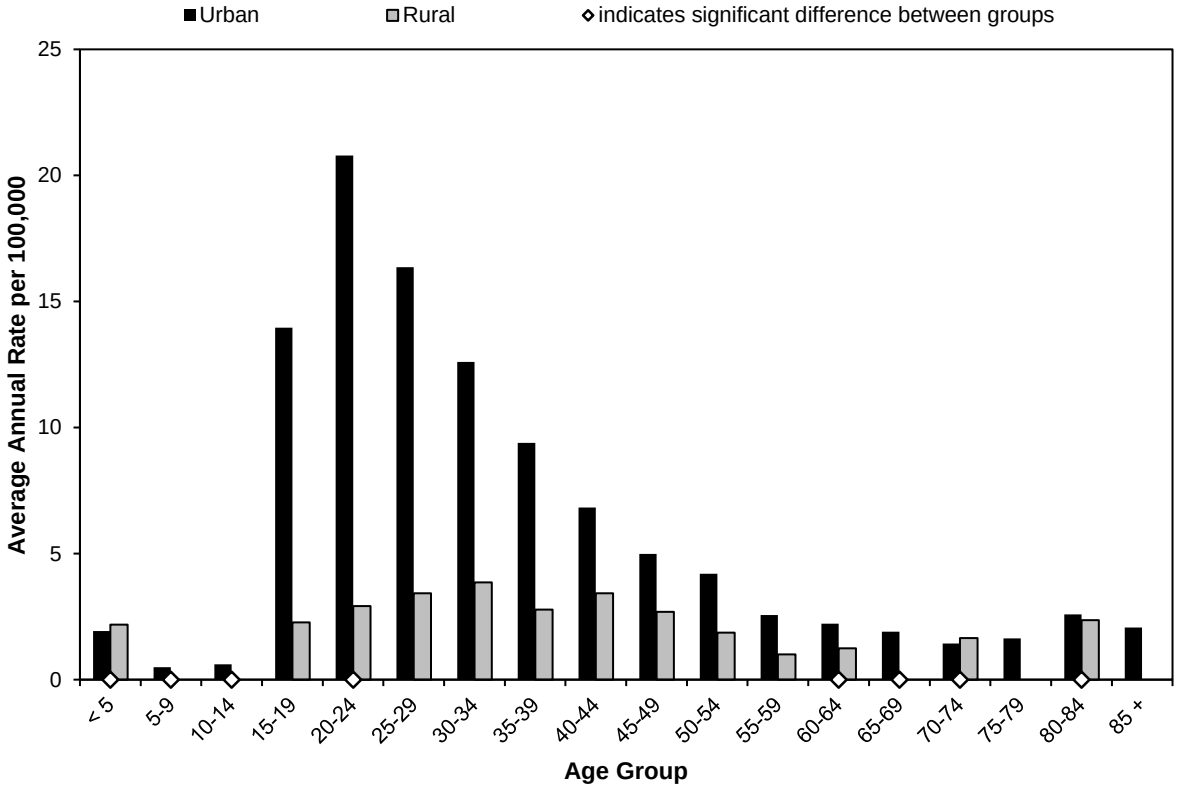
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

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

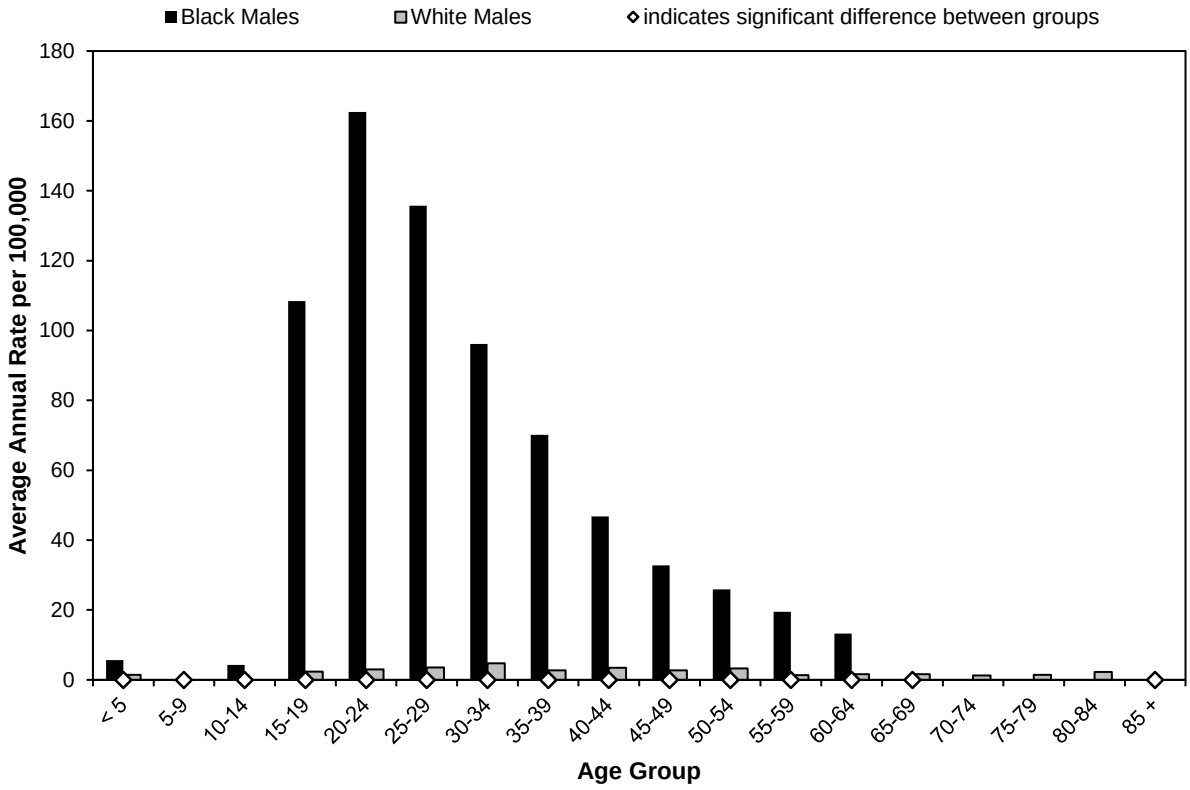
AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2007-2011

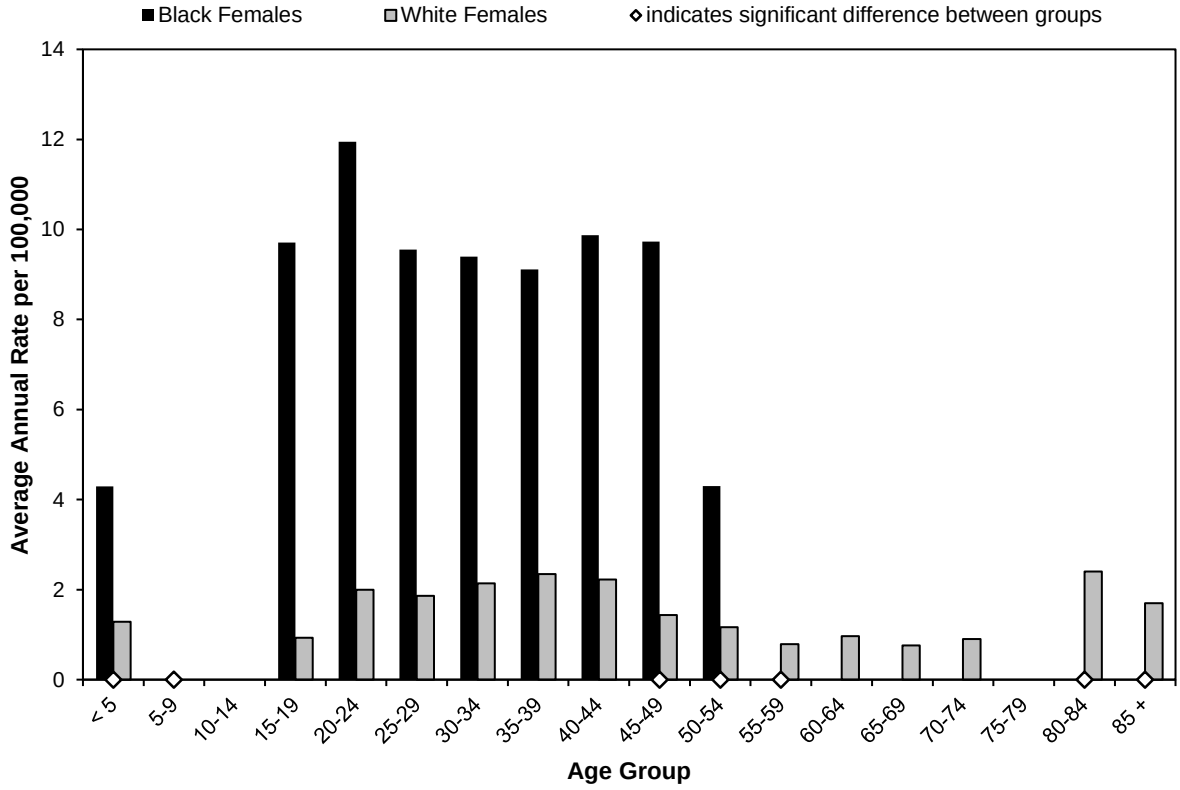




INJURY DEATHS: HOMICIDES

AVERAGE ANNUAL DEATH RATES BY SEX AND RACE
PENNSYLVANIA RESIDENTS, 2007-2011





INJURY DEATHS: HOMICIDES

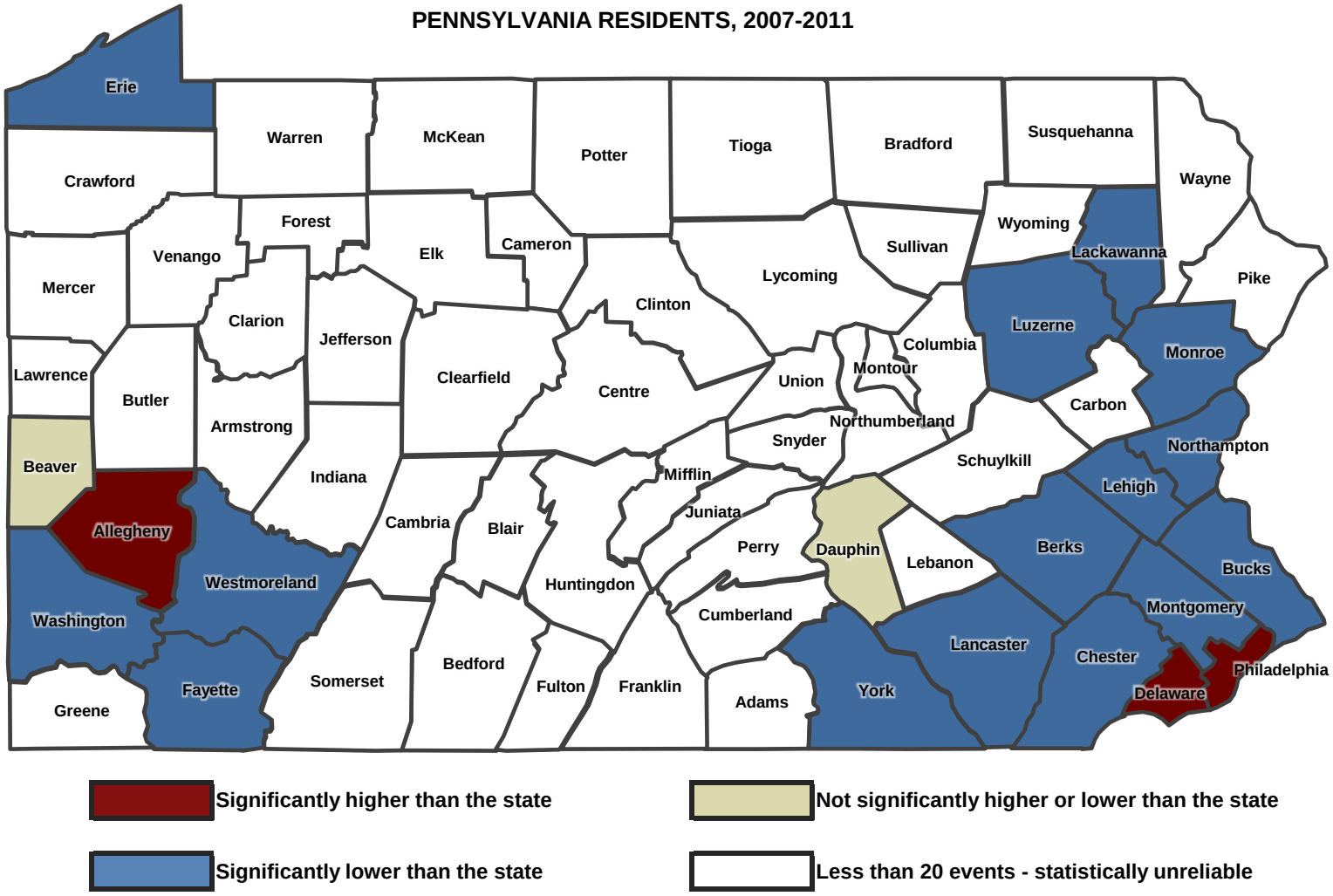
NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2007-2011

District/County	No.	Rate	CI (95%)		District/County	No.	Rate	CI (95%)	
Northeast	237	3.1	2.7-3.5	-	**Southeast**	2,145	8.6	8.2-9.0	+
Carbon	4	NSR			Berks	83	4.2	3.3-5.1	-
Lackawanna	22	2.1	1.2-3.0	-	Bucks	39	1.3	0.9-1.6	-
Lehigh	74	4.5	3.4-5.5	-	Chester	36	1.5	1.0-1.9	-
Luzerne	59	4.0	3.0-5.1	-	Delaware	202	7.4	6.4-8.4	+
Monroe	25	3.1	1.9-4.3	-	Lancaster	60	2.4	1.8-3.0	-
Northampton	38	2.7	1.8-3.5	-	Montgomery	86	2.2	1.8-2.7	-
Pike	3	NSR			Philadelphia	1,624	20.1	19.1-21.1	+
Susquehanna	2	NSR			Schuylkill	15	NSR		
Wayne	9	NSR							
Wyoming	1	NSR							
North Central	60	1.9	1.4-2.4	-	**South Central**	240	3.0	2.7-3.4	-
Bradford	9	NSR			Adams	7	NSR		
Centre	3	NSR			Bedford	7	NSR		
Clinton	2	NSR			Blair	12	NSR		
Columbia	4	NSR			Cumberland	17	NSR		
Lycoming	15	NSR			Dauphin	74	6.0	4.6-7.3	
Montour	2	NSR			Franklin	14	NSR		
Northumberland	7	NSR			Fulton	2	NSR		
Potter	1	NSR			Huntingdon	3	NSR		
Snyder	5	NSR			Juniata	3	NSR		
Sullivan	0	NSR			Lebanon	16	NSR		
Tioga	5	NSR			Mifflin	4	NSR		
Union	7	NSR			Perry	6	NSR		
					York	75	3.8	2.9-4.6	-
Northwest	108	2.5	2.0-2.9	-	**Southwest**	645	5.1	4.7-5.5	-
Cameron	0	NSR			Allegheny	468	8.1	7.3-8.8	+
Clarion	2	NSR			Armstrong	2	NSR		
Clearfield	3	NSR			Beaver	35	4.6	3.1-6.1	
Crawford	18	NSR			Butler	9	NSR		
Elk	2	NSR			Cambria	19	NSR		
Erie	40	2.9	2.0-3.8	-	Fayette	25	3.7	2.3-5.2	-
Forest	0	NSR			Greene	8	NSR		
Jefferson	4	NSR			Indiana	6	NSR		
Lawrence	17	NSR			Somerset	10	NSR		
McKean	5	NSR			Washington	28	2.9	1.8-4.0	-
Mercer	8	NSR			Westmoreland	35	2.1	1.4-2.8	-
Venango	3	NSR							
Warren	6	NSR			Pennsylvania	3,435	5.6	5.5-5.8	

NOTE: Rates based on less than 20 events are unreliable and were not calculated. See Technical Notes.
+/- denotes that the county's rate is significantly higher or lower than the state at the p=.05 level.

INJURY DEATHS: HOMICIDES

AGE-ADJUSTED DEATH RATES BY COUNTY, WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE PENNSYLVANIA RESIDENTS, 2007-2011



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, 2007-2011

Geography	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	2,789	645	**3,434**	970	6.1	1,488	12.4	634	4.9	258	2.1	85	0.9
Northeast	169	68	**237**	109	5.5	76	5.3	33	2.0	18	1.1	1	NSR
Carbon	2	2	4	4	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Lackawanna	17	5	22	9	NSR	6	NSR	6	NSR	1	NSR	0	NSR
Lehigh	57	17	74	35	7.7	22	6.8	8	NSR	8	NSR	1	NSR
Luzerne	38	21	59	23	6.4	23	8.0	10	3.1	3	NSR	0	NSR
Monroe	22	3	25	11	4.8	7	NSR	4	NSR	3	NSR	0	NSR
Northampton	21	17	38	15	3.9	15	5.5	5	NSR	3	NSR	0	NSR
Pike	2	1	3	3	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Susquehanna	2	0	2	2	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Wayne	7	2	9	6	NSR	3	NSR	0	NSR	0	NSR	0	NSR
Wyoming	1	0	1	1	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Southeast	1,833	311	**2,144**	461	6.8	1,001	20.0	439	8.4	180	3.8	64	1.8
Berks	59	23	82	29	5.2	26	7.0	20	4.7	5	NSR	3	NSR
Bucks	27	12	39	9	NSR	10	2.0	12	1.7	8	NSR	0	NSR
Chester	24	12	36	13	1.9	8	NSR	9	NSR	5	NSR	1	NSR
Delaware	168	34	202	111	14.9	56	10.5	21	3.7	6	NSR	8	NSR
Lancaster	41	19	60	14	2.0	19	3.9	17	3.4	9	NSR	1	NSR
Montgomery	64	22	86	17	1.7	30	4.3	17	2.0	15	1.9	7	NSR
Philadelphia	1,441	183	1,624	264	12.8	848	46.4	338	23.5	130	10.4	44	4.7
Schuylkill	9	6	15	4	NSR	4	NSR	5	NSR	2	NSR	0	NSR

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	2,789	645	**3,434**	970	6.1	1,488	12.4	634	4.9	258	2.1	85	0.9
North Central	43	17	**60**	46	5.4	12	1.6	2	NSR	0	NSR	0	NSR
Bradford	4	5	9	4	NSR	3	NSR	2	NSR	0	NSR	0	NSR
Centre	1	2	3	3	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Clinton	1	1	2	2	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Columbia	3	1	4	4	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Lycoming	13	2	15	11	7.8	4	NSR	0	NSR	0	NSR	0	NSR
Montour	1	1	2	2	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Northumberland	4	3	7	5	NSR	2	NSR	0	NSR	0	NSR	0	NSR
Potter	1	0	1	1	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Snyder	4	1	5	5	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Sullivan	0	0	0	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Tioga	5	0	5	4	NSR	1	NSR	0	NSR	0	NSR	0	NSR
Union	6	1	7	5	NSR	2	NSR	0	NSR	0	NSR	0	NSR
South Central	170	70	**240**	123	5.8	73	4.8	29	1.7	10	0.6	5	NSR
Adams	5	2	7	6	NSR	1	NSR	0	NSR	0	NSR	0	NSR
Bedford	6	1	7	4	NSR	3	NSR	0	NSR	0	NSR	0	NSR
Blair	6	6	12	7	NSR	4	NSR	1	NSR	0	NSR	0	NSR
Cumberland	7	10	17	9	NSR	5	NSR	3	NSR	0	NSR	0	NSR
Dauphin	61	13	74	28	8.3	24	9.9	11	3.9	7	NSR	4	NSR
Franklin	8	6	14	6	NSR	5	NSR	3	NSR	0	NSR	0	NSR
Fulton	2	0	2	2	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Huntingdon	1	2	3	3	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Juniata	3	0	3	3	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Lebanon	9	7	16	7	NSR	4	NSR	5	NSR	0	NSR	0	NSR
Mifflin	3	1	4	4	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Perry	5	1	6	6	NSR	0	NSR	0	NSR	0	NSR	0	NSR
York	54	21	75	38	6.8	27	7.0	6	NSR	3	NSR	1	NSR

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	2,789	645	**3,434**	970	6.1	1,488	12.4	634	4.9	258	2.1	85	0.9
Northwest	69	39	**108**	61	5.3	29	3.5	14	1.5	4	NSR	0	NSR
Cameron	0	0	0	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Clarion	2	0	2	2	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Clearfield	2	1	3	3	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Crawford	13	5	18	8	NSR	9	NSR	1	NSR	0	NSR	0	NSR
Elk	2	0	2	2	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Erie	22	18	40	13	3.5	14	4.9	9	NSR	4	NSR	0	NSR
Forest	0	0	0	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Jefferson	2	2	4	4	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Lawrence	12	5	17	8	NSR	5	NSR	4	NSR	0	NSR	0	NSR
McKean	2	3	5	5	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Mercer	7	1	8	7	NSR	1	NSR	0	NSR	0	NSR	0	NSR
Venango	1	2	3	3	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Warren	4	2	6	6	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Southwest	505	140	**645**	170	5.3	297	12.2	117	4.3	46	1.6	15	0.6
Allegheny	395	73	468	100	7.0	235	20.0	87	7.1	31	2.5	15	1.5
Armstrong	2	0	2	2	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Beaver	25	10	35	15	7.6	15	10.6	4	NSR	1	NSR	0	NSR
Butler	5	4	9	7	NSR	2	NSR	0	NSR	0	NSR	0	NSR
Cambria	12	7	19	8	NSR	4	NSR	4	NSR	3	NSR	0	NSR
Fayette	18	7	25	5	NSR	8	NSR	6	NSR	6	NSR	0	NSR
Greene	3	5	8	4	NSR	3	NSR	1	NSR	0	NSR	0	NSR
Indiana	3	3	6	5	NSR	1	NSR	0	NSR	0	NSR	0	NSR
Somerset	5	5	10	4	NSR	4	NSR	2	NSR	0	NSR	0	NSR
Washington	18	10	28	10	4.1	10	5.6	6	NSR	2	NSR	0	NSR
Westmoreland	19	16	35	10	2.4	15	5.2	7	NSR	3	NSR	0	NSR

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, 2007-2011

BLACK POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	360	42.3	37.9-46.6
Chester	10	5.7	2.2-9.2
Dauphin	46	18.6	13.2-23.9
Delaware	152	25.3	21.2-29.3
Montgomery	31	8.3	5.4-11.2
Philadelphia	1,291	36.4	34.4-38.4
Pennsylvania	2,090	28.2	27.0-29.4

WHITE POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	90	1.9	1.5-2.3
Chester	18	0.8	0.4-1.2
Dauphin	19	1.8	1.0-2.6
Delaware	39	1.8	1.3-2.4
Montgomery	43	1.3	0.9-1.6
Philadelphia	128	3.5	2.9-4.2
Pennsylvania	959	1.8	1.7-2.0

HISPANIC POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Berks	31	9.9	6.4-13.4
Lancaster	10	5.4	2.1-8.8
Lehigh	25	8.9	5.4-12.4
Philadelphia	166	18	15.7-21.3
Pennsylvania	311	9.5	8.4-10.6

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

Select Counties		Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+	
County and Race		Cty. Pop.	Male	Female	All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Allegheny	Black	13.4%	319	41	**360**	76.9%	87	32.2	192	110.6	58	38.3	15	11.1	8	NSR
	White	82.4%	58	32	**90**	19.2%	8	NSR	34	3.7	27	2.7	14	1.3	7	NSR
Chester	Black	6.2%	8	2	**10**	27.8%	3	NSR	6	NSR	1	NSR	0	NSR	0	NSR
	White	88.3%	8	10	**18**	50.0%	1	NSR	2	NSR	7	NSR	5	NSR	3	NSR
Dauphin	Black	18.1%	42	4	**46**	62.2%	14	17.3	23	NSR	5	NSR	3	NSR	1	NSR
	White	75.8%	15	4	**19**	25.7%	3	NSR	0	NSR	6	NSR	6	NSR	4	NSR
Delaware	Black	19.2%	135	17	**152**	75.2%	32	17.8	87	67.6	28	25.3	3	NSR	2	NSR
	White	74.4%	23	16	**39**	19.3%	3	NSR	11	3.0	9	NSR	7	NSR	9	NSR
Montgomery	Black	8.8%	26	5	**31**	36.0%	10	9.9	12	15.9	7	NSR	2	NSR	0	NSR
	White	83.2%	27	16	**43**	50.0%	6	NSR	11	2.0	8	NSR	12	1.8	6	NSR
Philadelphia	Black	45.1%	1,170	121	**1,291**	79.5%	228	21.4	708	95.0	251	38.3	85	15.4	19	5.3
	White	45.3%	97	31	**128**	7.9%	8	NSR	48	5.5	30	4.7	23	3.8	19	3.6
Pennsylvania	Black	10.9%	1,862	228	**2,090**	60.8%	422	19.1	1,128	72.2	390	28.5	118	11.1	32	4.9
	White	84.5%	593	365	**958**	27.9%	119	0.9	279	2.9	269	2.5	170	1.5	122	1.4

INJURY DEATHS: TRAUMATIC BRAIN INJURY

In 2011, among Pennsylvania residents, there were 2,331 injury deaths involving traumatic brain injury (TBI). On average, one resident died every four hours.

Injury Definition

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

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

Leading causes of TBI include firearms, motor vehicle accidents and falls. These mechanisms account for more than 80 percent of TBI deaths.

HIGHLIGHTS

- Age-adjusted rates generally **fluctuated** from 2007 to 2011.
- **White males** are the most common demographic.
- Of all Pennsylvania counties, **Bedford**, **Fayette**, **Greene** and **Elk** had the highest rates.

Trends Over Time

- Age-adjusted death rates for TBI fluctuated from 2007 to 2011.
- Males had significantly higher age-adjusted TBI death rates than females for all age groups from 2007 to 2011.
- Rural populations had significantly higher age-adjusted TBI death rates than urban populations from 2007 to 2011.

Demographic Trends

- White males accounted for over 60 percent of all TBI deaths in 2007 to 2011.
- Black males had significantly higher TBI death rates than white males for ages less than 40 where rates could be calculated.
- White males had higher TBI death rates than black males for ages 40 and older where rates could be calculated.
- Black females had higher TBI death rates than white females for ages less than 75 where rates could be calculated, while white females had significantly higher rates than black females for ages 80 and older during the 2007 to 2011 period.

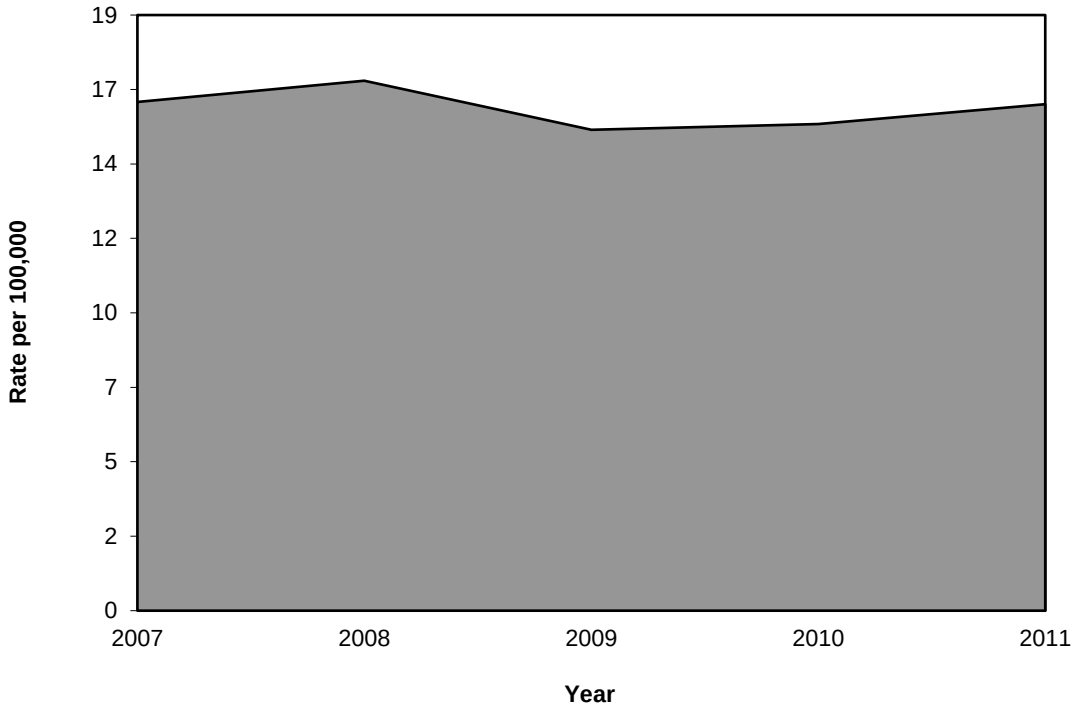
Regional Trends

- The Southwest and Northwest Health Districts had the highest age-adjusted TBI death rates while the Southeast Health District had the lowest rate.
- Twenty-one counties had age-adjusted TBI death rates during 2007 to 2011 that were significantly higher than the comparable state rate. Most of the counties were rural.

INJURY DEATHS: TRAUMATIC BRAIN INJURY

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES
PENNSYLVANIA RESIDENTS, 2007-2011

Year	No.	Rate
2007	2,200	16.4
2008	2,328	17.1
2009	2,170	15.5
2010	2,225	15.7
2011	2,331	16.3



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2007-2011

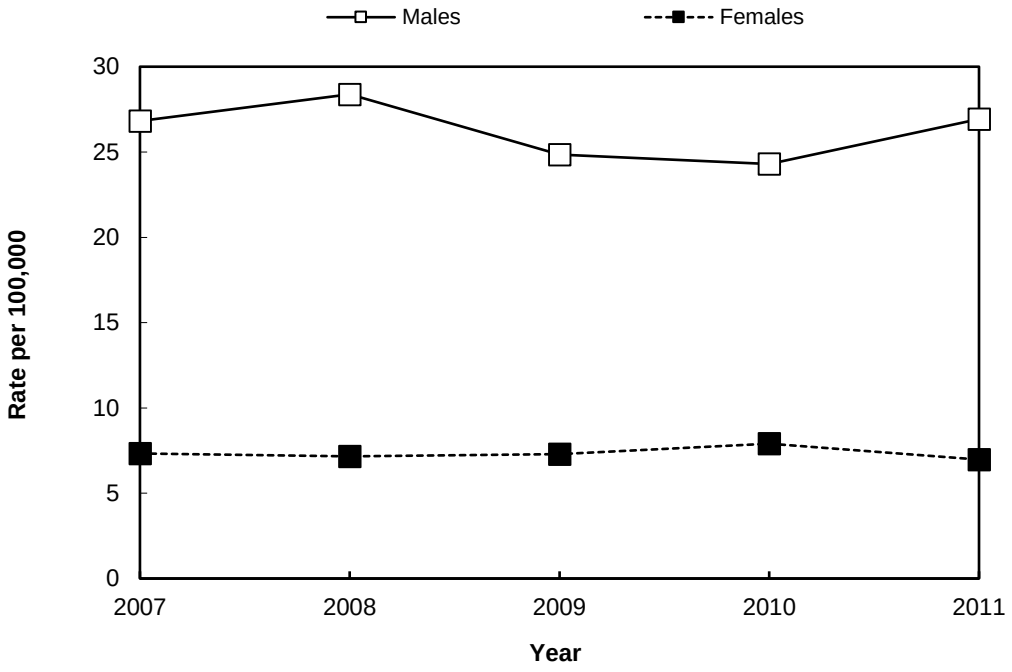
Year	Northwest	North Central	Northeast	Southeast	South Central	Southwest
2007	21.0	17.2	14.7	15.0	14.7	19.4
2008	19.3	19.0	16.2	14.4	17.1	21.2
2009	19.5	15.6	11.4	13.1	17.3	20.0
2010	21.6	15.5	13.9	12.5	16.6	20.3
2011	19.7	16.1	17.0	13.2	15.4	21.2

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2007-2011 based on ICD-9 codes. See Technical Notes.

INJURY DEATHS: TRAUMATIC BRAIN INJURY

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES BY SEX
PENNSYLVANIA RESIDENTS, 2007-2011

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2007	1,616	26.8	2007	584	7.3
2008	1,743	28.4	2008	585	7.2
2009	1,566	24.8	2009	604	7.3
2010	1,558	24.3	2010	667	7.9
2011	1,744	26.9	2011	587	7.0



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2007-2011

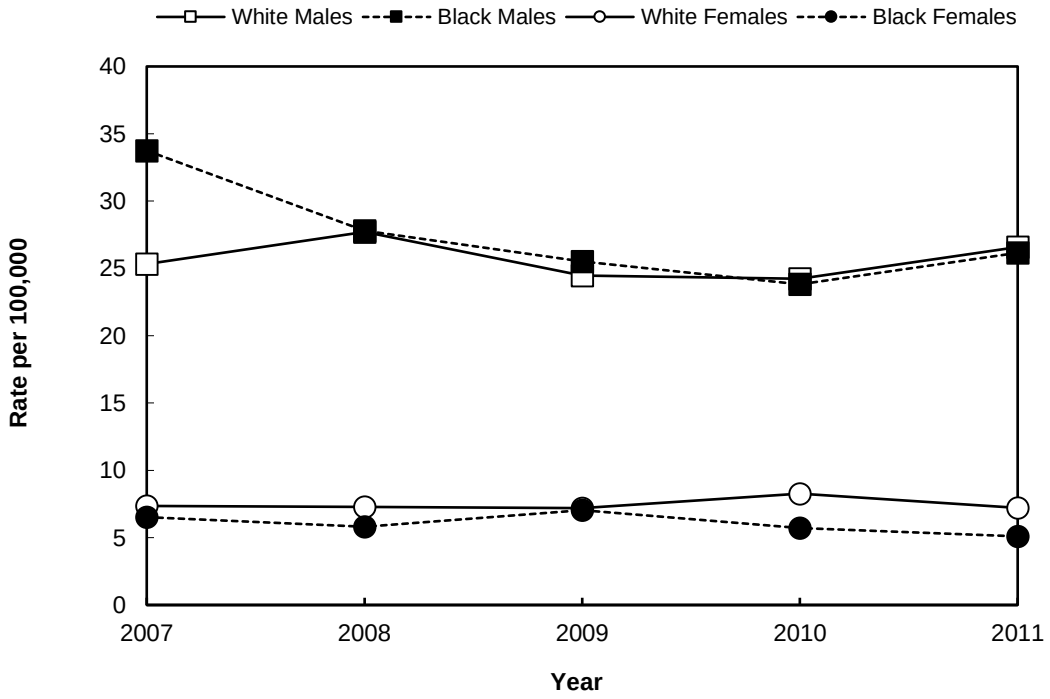
Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2007	24.6	32.6	2007	6.6	9.2
2008	25.8	35.0	2008	6.4	9.3
2009	22.3	31.5	2009	6.3	9.9
2010	22.4	29.1	2010	7.1	10.2
2011	24.6	33.3	2011	6.2	8.9

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 DEATHS: TRAUMATIC BRAIN INJURY

TOTAL NUMBER OF INJURY DEATHS AND
AGE-ADJUSTED DEATH RATES BY SEX AND RACE OR ETHNICITY
PENNSYLVANIA RESIDENTS, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	1,342	209	528	45	44	6
2008	1,507	174	532	42	55	8
2009	1,360	156	540	51	33	9
2010	1,338	156	607	41	38	7
2011	1,507	173	534	39	42	5



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	25.3	33.7	7.4	6.5	20.8	NSR
2008	27.7	27.8	7.3	5.8	21.6	NSR
2009	24.5	25.5	7.2	7.0	13.0	NSR
2010	24.2	23.8	8.3	5.7	11.7	NSR
2011	26.6	26.2	7.2	5.1	14.7	NSR

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, 2007-2011

AGE	PA TOTAL		MALE		FEMALE			URBAN		RURAL		
GROUP	No.	Rate	No.	Rate	No.	Rate		No.	Rate	No.	Rate	
TOTAL	**11,254**	**17.9**	**8,227**	**26.9**	**3,027**	**9.4**		**7,375**	**16.1**	**3,879**	**22.5**	
< 5	78	2.1	48	2.6	30	1.7	*	54	2.0	24	2.6	*
5-9	36	1.0	23	1.2	13	0.7	*	20	0.7	16	1.6	*
10-14	69	1.7	47	2.3	22	1.1	*	33	1.1	36	3.4	*
15-19	580	12.7	442	19.1	138	6.1	*	364	11.0	216	16.9	*
20-24	844	19.1	720	32.1	124	5.7	*	554	17.3	290	23.5	*
25-29	676	17.8	556	28.7	120	6.4	*	443	15.4	233	25.0	*
30-34	545	14.6	446	23.8	99	5.4	*	352	12.8	193	20.1	*
35-39	545	13.9	455	23.4	90	4.6	*	337	11.8	208	20.0	*
40-44	643	14.8	521	24.3	122	5.6	*	397	12.5	246	21.1	*
45-49	733	15.8	611	26.7	122	5.2	*	454	13.5	279	22.1	*
50-54	792	17.0	675	29.6	117	4.9	*	506	15.1	286	22.2	*
55-59	665	15.8	536	26.3	129	6.0	*	435	14.5	230	19.3	*
60-64	602	16.9	474	27.8	128	6.9	*	395	15.7	207	19.9	*
65-69	505	18.6	381	30.3	124	8.5	*	337	17.8	168	20.4	
70-74	573	26.1	416	42.7	157	12.8	*	346	22.6	227	34.0	*
75-79	739	40.3	509	66.9	230	21.5	*	518	40.2	221	40.5	
80-84	1,069	72.9	634	112.9	435	48.0	*	723	69.3	346	81.5	*
85 +	1,560	105.6	733	160.2	827	81.1	*	1,107	104.4	453	108.9	

* 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 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, 2007-2011

AGE	WHITE MALE		BLACK MALE			WHITE FEMALE		BLACK FEMALE			HISPANICS	
GROUP	No.	Rate	No.	Rate		No.	Rate	No.	Rate		No.	Rate
TOTAL	**7,054**	**27.2**	**868**	**26.6**		**2,741**	**10.1**	**218**	**6.1**		**247**	**7.6**
< 5	27	1.8	12	4.6	*	21	1.5	6	NSR		5	NSR
5-9	19	1.2	4	NSR		13	0.9	0	NSR		0	NSR
10-14	39	2.4	7	NSR		17	1.1	3	NSR		3	NSR
15-19	292	15.6	126	39.4	*	112	6.1	19	6.2		24	7.4
20-24	520	28.7	150	49.3	*	96	5.5	23	7.6	*	42	14.2
25-29	400	25.5	116	46.6	*	95	6.3	20	8.0		31	11.4
30-34	344	22.4	79	35.7	*	76	5.1	16	6.8		23	9.0
35-39	355	21.8	79	37.4	*	78	4.8	8	NSR		16	6.7
40-44	451	24.6	50	22.9		107	5.8	14	5.8		17	7.9
45-49	543	27.3	45	20.8	*	104	5.2	14	5.7		19	10.1
50-54	615	30.6	41	20.8	*	108	5.2	7	NSR		12	8.4
55-59	483	26.5	39	24.5		112	5.9	15	7.6		13	12.0
60-64	434	28.2	24	19.9	*	119	7.2	8	NSR		12	15.7
65-69	354	30.9	16	19.8	*	114	8.7	7	NSR		6	NSR
70-74	385	43.2	23	37.4		142	12.8	14	14.9		5	NSR
75-79	474	67.4	20	44.7	*	213	21.8	8	NSR		9	NSR
80-84	611	116.8	19	62.1	*	415	49.8	15	24.7	*	5	NSR
85 +	708	166.3	18	69.9	*	799	84.6	21	32.8	*	5	NSR

* 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, 2007-2011

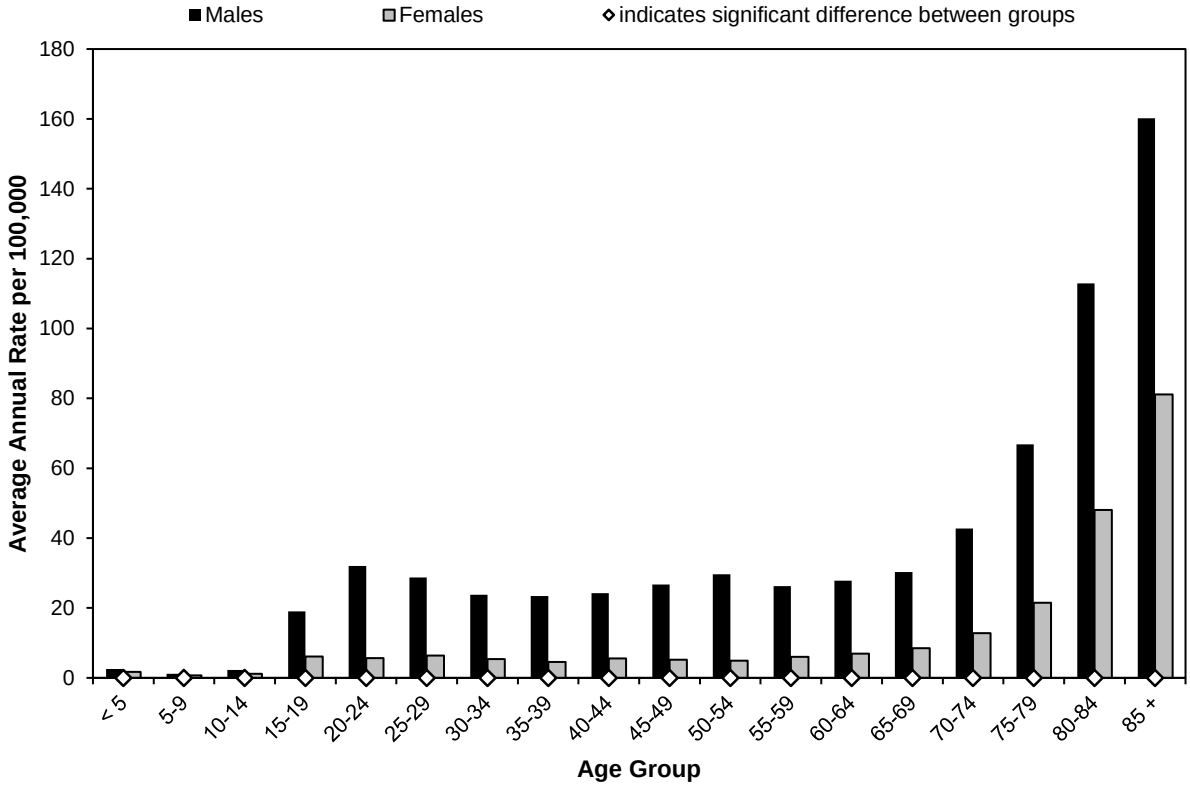
AGE	NORTHWEST			NORTH CENTRAL			NORTHEAST			SOUTHEAST			SOUTH CENTRAL			SOUTHWEST		
GROUP	No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate	
TOTAL	**1,020**	**22.0**		**629**	**18.3**		**1,285**	**16.3**		**3,697**	**14.7**		**1,446**	**17.5**		**3,177**	**23.5**	
< 5	8	NSR		7	NSR		9	NSR		21	1.3	-	10	3.3		23	3.3	+
5-9	5	NSR		4	NSR		0	NSR		7	NSR		5	NSR		15	2.0	+
10-14	9	NSR		4	NSR		7	NSR		15	0.9	-	10	1.9		24	3.0	+
15-19	61	17.7	+	35	11.5		57	9.9	-	188	10.2	-	81	14.1		158	17.0	+
20-24	67	21.3		45	12.3	-	115	21.6		294	16.3	-	99	18.9		224	25.1	+
25-29	60	23.1	+	36	19.3		60	13.4	-	255	15.5	-	83	16.9		182	23.4	+
30-34	72	27.6	+	20	10.7	-	52	11.6	-	166	10.6	-	65	13.2		170	22.2	+
35-39	53	19.2	+	40	20.2	+	73	15.0		159	9.9	-	74	14.0		146	18.0	+
40-44	71	23.0	+	31	14.2		82	14.9		203	11.5	-	99	17.0	+	157	17.2	
45-49	54	16.1		47	19.9	+	77	13.0	-	265	14.3		81	13.1	-	209	20.8	+
50-54	84	24.3	+	40	16.8		94	15.9		268	14.9	-	94	15.4		212	20.1	+
55-59	62	19.4	+	49	22.2	+	78	14.5		228	14.4		76	13.5	-	172	17.8	
60-64	59	21.5	+	40	20.7	+	79	16.6		198	15.1		79	16.3		147	17.9	
65-69	50	23.1	+	28	17.9		64	17.5		153	15.6	-	72	19.2		138	22.4	
70-74	50	27.9		35	27.4		69	23.8		165	21.0	-	102	34.3	+	152	29.4	
75-79	61	41.0		41	39.6		93	39.1		221	33.6	-	110	45.7		213	47.9	+
80-84	90	76.1		61	76.7		117	61.9		330	63.0	-	137	75.8		334	88.9	+
85 +	104	89.7		66	84.9		159	84.5	-	561	104.0		169	96.1		501	131.9	+

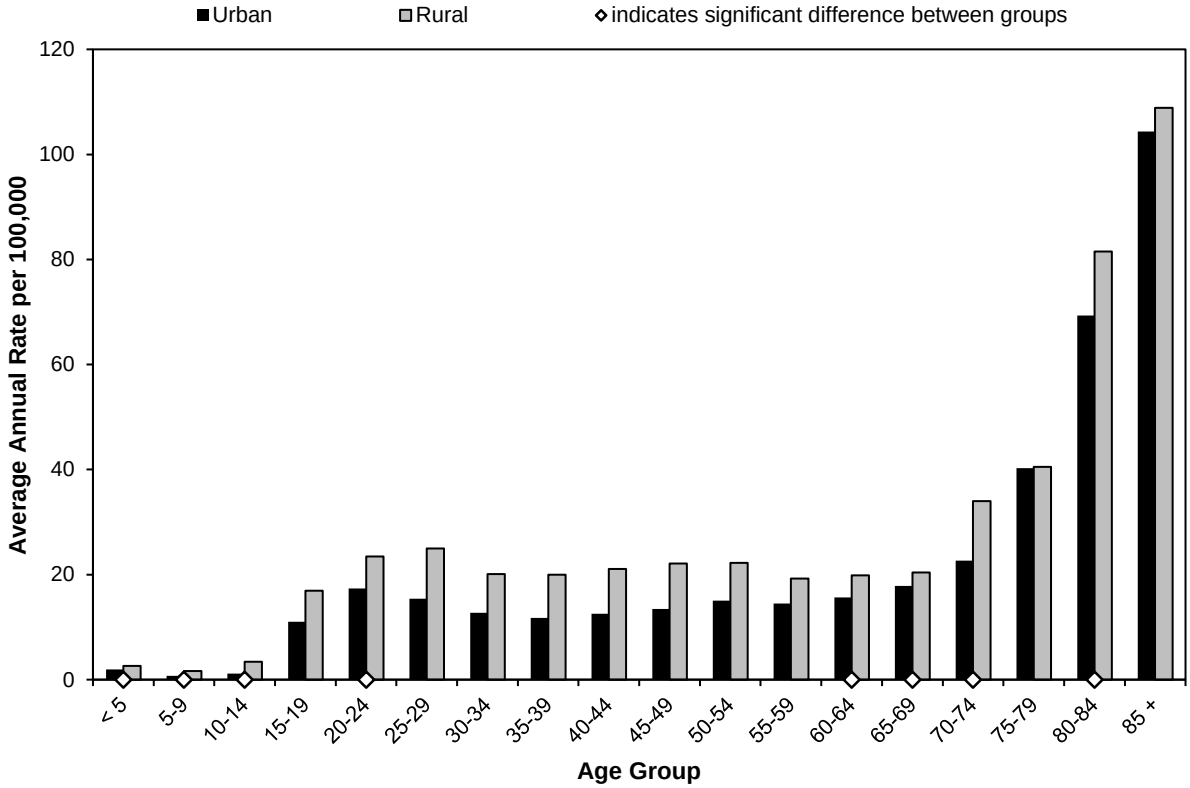
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

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: TRAUMATIC BRAIN INJURY

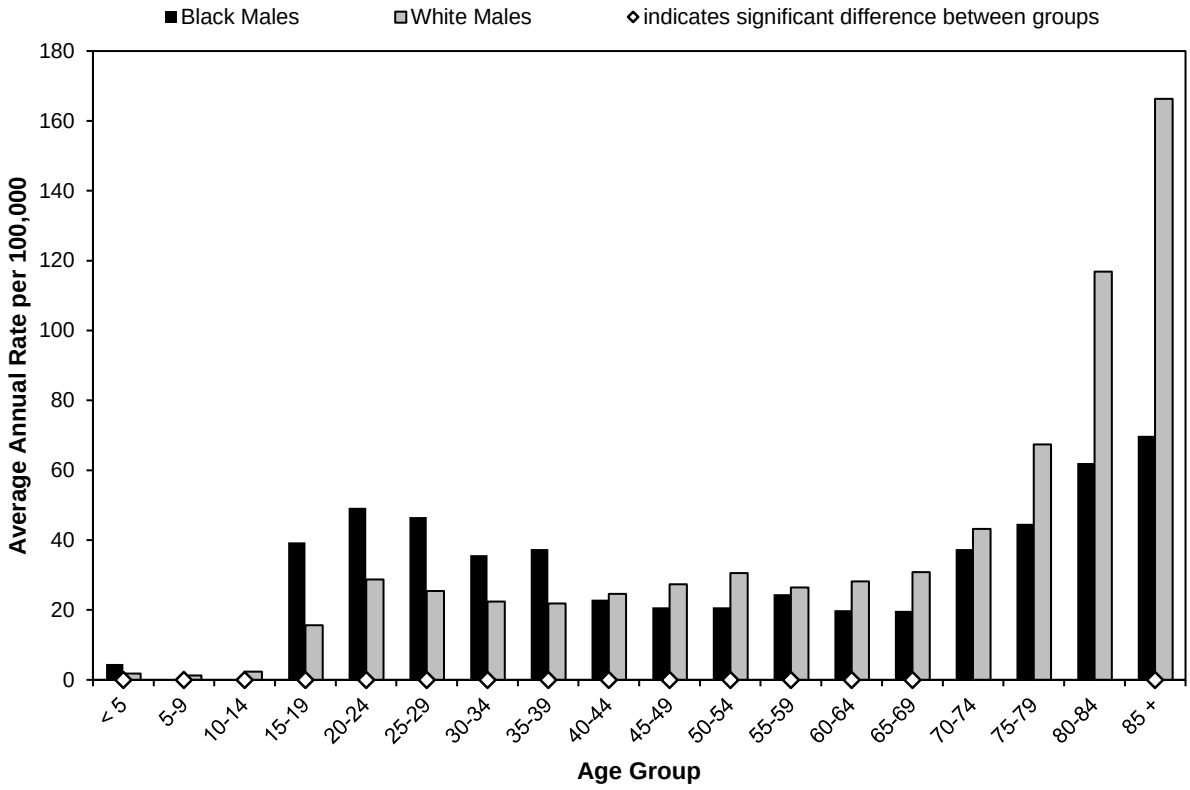
AVERAGE ANNUAL DEATH RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2007-2011

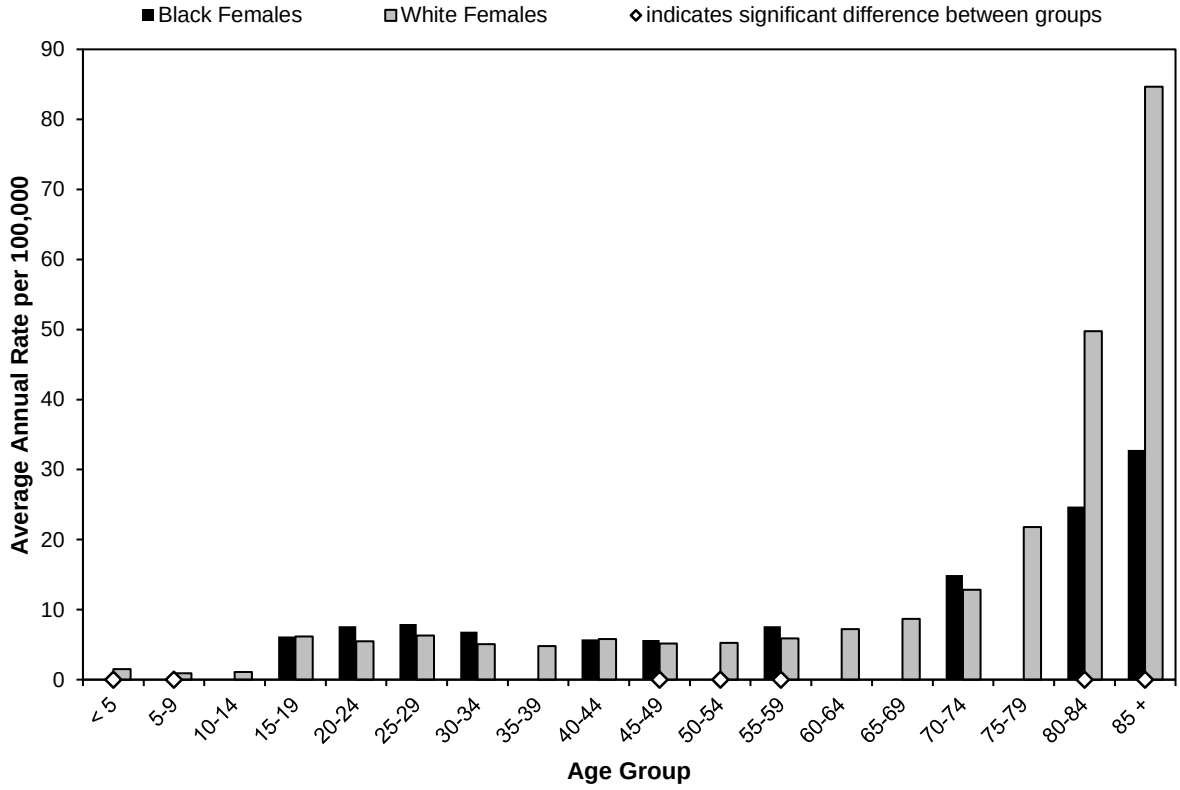




INJURY DEATHS: TRAUMATIC BRAIN INJURY

AVERAGE ANNUAL DEATH RATES BY SEX AND RACE
PENNSYLVANIA RESIDENTS, 2007-2011





INJURY DEATHS: TRAUMATIC BRAIN INJURY

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2007-2011

District/County	No.	Rate	CI (95%)	
Northeast	1,285	14.6	13.8-15.4	-
Carbon	74	19.8	15.3-24.3	
Lackawanna	175	14.3	12.2-16.4	
Lehigh	256	13.4	11.8-15.1	-
Luzerne	246	14.1	12.3-15.8	-
Monroe	144	17.5	14.6-20.3	
Northampton	226	13.4	11.7-15.2	-
Pike	45	14.1	9.9-18.2	
Susquehanna	36	17.7	11.9-23.4	
Wayne	56	19.7	14.5-24.9	
Wyoming	27	17.9	11.1-24.6	
North Central	629	16.6	15.3-17.9	
Bradford	66	20.0	15.1-24.8	
Centre	110	15.8	12.9-18.8	
Clinton	38	18.0	12.3-23.8	
Columbia	61	16.9	12.7-21.2	
Lycoming	97	15.6	12.5-18.8	
Montour	20	20.8	11.7-30.0	
Northumberland	100	18.5	14.9-22.2	
Potter	18	NSR		
Snyder	32	14.6	9.6-19.7	
Sullivan	8	NSR		
Tioga	43	18.7	13.1-24.2	
Union	36	14.4	9.7-19.2	
Northwest	1,020	20.2	18.9-21.4	+
Cameron	9	NSR		
Clarion	52	26.7	19.4-33.9	+
Clearfield	122	27.0	22.2-31.8	+
Crawford	98	20.8	16.7-24.9	+
Elk	50	28.3	20.5-36.2	+
Erie	230	15.2	13.2-17.1	
Forest	8	NSR		
Jefferson	63	25.0	18.8-31.2	+
Lawrence	105	20.2	16.3-24.0	
McKean	43	18.2	12.7-23.6	
Mercer	122	19.4	16.0-22.8	
Venango	72	23.9	18.4-29.5	+
Warren	46	22.4	15.9-28.9	

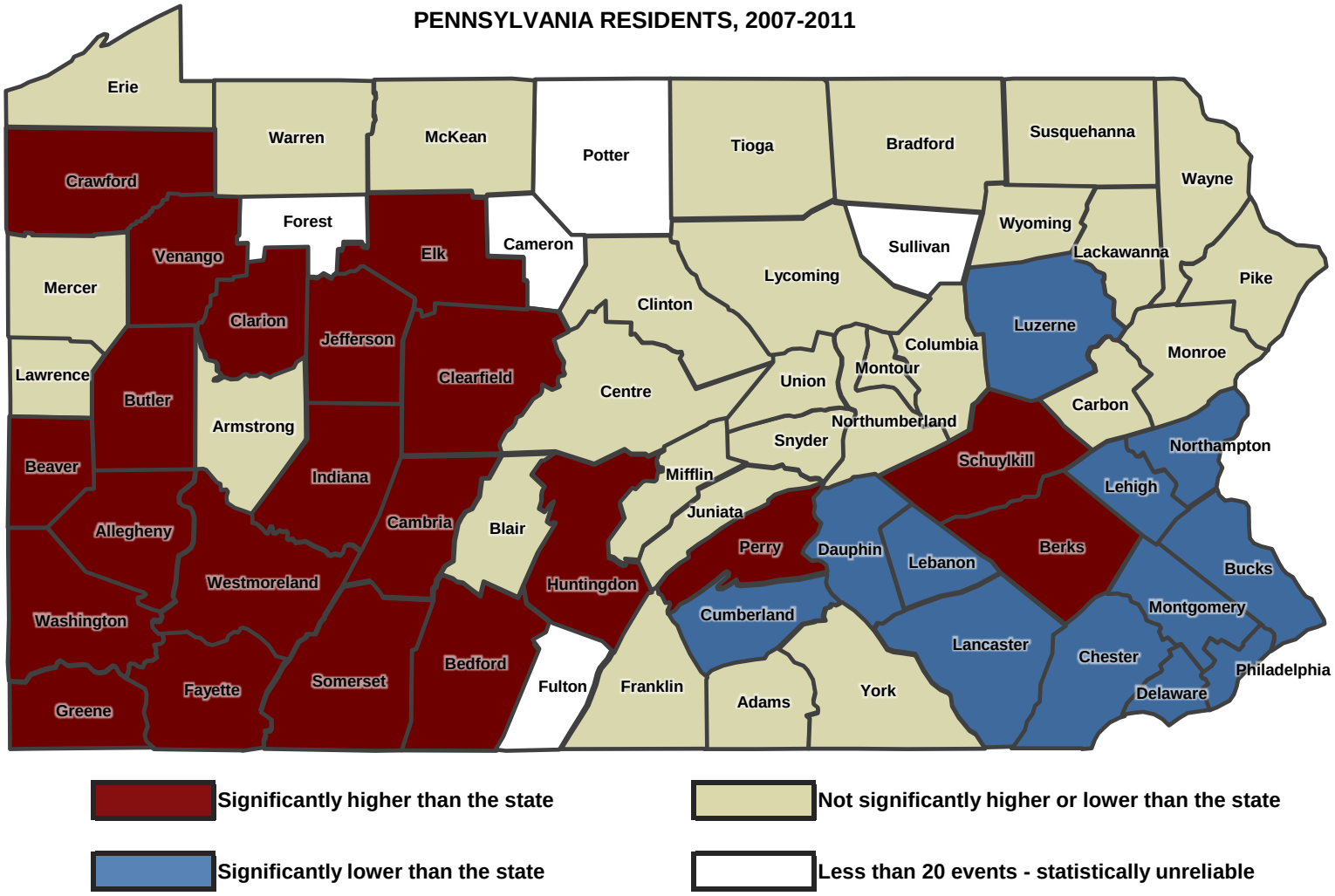
District/County	No.	Rate	CI (95%)	
Southeast	3,697	13.6	13.2-14.0	-
Berks	451	20.5	18.6-22.4	+
Bucks	424	12.6	11.4-13.8	-
Chester	270	10.6	9.4-11.9	-
Delaware	405	12.7	11.5-14.0	-
Lancaster	329	11.7	10.4-13.0	-
Montgomery	476	10.6	9.7-11.6	-
Philadelphia	1,139	14.6	13.7-15.4	-
Schuylkill	203	24.5	21.2-27.9	+
South Central	1,446	16.2	15.4-17.0	
Adams	87	16.1	12.7-19.4	
Bedford	81	31.2	24.4-38.0	+
Blair	139	18.9	15.8-22.1	
Cumberland	173	13.5	11.5-15.5	-
Dauphin	195	13.9	12.0-15.9	-
Franklin	133	16.8	14.0-19.7	
Fulton	18	NSR		
Huntingdon	64	26.4	19.9-32.9	+
Juniata	30	24.3	15.6-32.9	
Lebanon	84	11.8	9.3-14.3	-
Mifflin	43	16.6	11.7-21.6	
Perry	50	22.7	16.4-29.0	+
York	349	15.6	13.9-17.2	
Southwest	3,177	20.4	19.7-21.1	+
Allegheny	1,275	17.8	16.8-18.7	+
Armstrong	78	20.5	15.9-25.0	
Beaver	191	19.7	16.9-22.4	+
Butler	198	19.6	16.9-22.4	+
Cambria	191	21.8	18.7-24.8	+
Fayette	213	29.2	25.3-33.1	+
Greene	61	28.6	21.4-35.8	+
Indiana	116	23.6	19.3-27.9	+
Somerset	109	24.0	19.5-28.5	+
Washington	264	22.7	20.0-25.4	+
Westmoreland	481	22.7	20.6-24.7	+
Pennsylvania	11,254	16.2	15.9-16.5	

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

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

INJURY DEATHS: TRAUMATIC BRAIN INJURY

AGE-ADJUSTED DEATH RATES BY COUNTY, WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE PENNSYLVANIA RESIDENTS, 2007-2011



Significantly higher than the state

Not significantly higher or lower than the state

Significantly lower than the state

Less than 20 events - statistically unreliable

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

INJURY DEATHS: TRAUMATIC BRAIN INJURY

TOTAL NUMBER OF INJURY DEATHS AND AVERAGE ANNUAL DEATH RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2007-2011

Geography	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	8,227	3,027	**11,254**	1,477	9.2	1,975	16.5	2,047	15.9	1,914	15.4	3,841	39.6
Northeast	946	339	**1,285**	246	12.5	195	13.7	272	16.7	203	12.6	369	29.0
Carbon	57	17	74	12	16.9	9	NSR	22	32.8	13	18.8	18	32.1
Lackawanna	127	48	175	35	13.9	27	13.6	31	15.0	31	14.7	51	27.1
Lehigh	165	91	256	42	9.3	27	8.3	42	11.9	35	10.5	110	42.4
Luzerne	198	48	246	50	13.8	49	17.0	53	16.4	37	11.6	57	20.0
Monroe	111	33	144	20	8.7	22	15.0	38	20.6	22	12.9	42	40.4
Northampton	157	69	226	43	11.1	34	12.5	42	13.7	35	11.9	72	32.0
Pike	37	8	45	10	14.1	7	NSR	14	21.6	8	NSR	6	NSR
Susquehanna	27	9	36	15	30.3	7	NSR	6	NSR	4	NSR	4	NSR
Wayne	44	12	56	13	23.5	8	NSR	15	28.2	12	19.4	8	NSR
Wyoming	23	4	27	6	NSR	5	NSR	9	NSR	6	NSR	1	NSR
Southeast	2,737	960	**3,697**	348	5.2	666	13.3	681	13.1	649	13.8	1,353	38.8
Berks	348	103	451	59	10.5	73	19.6	84	19.8	68	17.8	167	57.1
Bucks	302	122	424	47	5.9	48	9.4	82	11.6	71	10.8	176	39.5
Chester	203	67	270	13	1.9	58	13.2	45	8.2	62	12.9	92	29.4
Delaware	291	114	405	42	5.6	53	9.9	63	11.1	67	12.5	180	45.4
Lancaster	248	81	329	24	3.3	48	9.9	49	9.8	55	11.7	153	40.3
Montgomery	325	151	476	18	1.8	67	9.6	81	9.4	81	10.4	229	38.7
Philadelphia	877	262	1,139	100	4.9	287	15.7	225	15.7	223	17.9	304	32.5
Schuylkill	143	60	203	45	27.8	32	24.4	52	32.2	22	14.7	52	38.8

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	8,227	3,027	**11,254**	1,477	9.2	1,975	16.5	2,047	15.9	1,914	15.4	3,841	39.6
North Central	479	150	**629**	130	15.2	106	14.3	139	21.3	125	19.2	129	23.7
Bradford	46	20	66	14	17.9	13	25.9	15	23.9	12	18.6	12	22.3
Centre	81	29	110	22	11.7	12	5.1	23	18.8	19	17.0	34	40.4
Clinton	28	10	38	9	NSR	6	NSR	11	32.0	7	NSR	5	15.9
Columbia	48	13	61	10	11.9	14	20.1	13	21.9	13	20.8	11	20.5
Lycoming	78	19	97	12	8.5	15	13.4	23	19.9	21	17.8	26	27.0
Montour	16	4	20	5	NSR	5	NSR	5	NSR	5	NSR	0	NSR
Northumberland	78	22	100	21	19.8	11	14.2	16	16.8	19	19.5	33	38.2
Potter	13	5	18	8	NSR	7	NSR	3	NSR	0	NSR	0	NSR
Snyder	23	9	32	7	NSR	4	NSR	9	NSR	12	32.7	0	NSR
Sullivan	6	2	8	4	NSR	4	NSR	0	NSR	0	NSR	0	NSR
Tioga	35	8	43	7	NSR	8	NSR	14	37.6	6	NSR	8	NSR
Union	27	9	36	11	21.6	7	NSR	7	NSR	11	28.6	0	NSR
South Central	1,065	381	**1,446**	237	11.2	245	16.2	260	15.1	250	15.1	454	35.8
Adams	62	25	87	17	12.9	18	19.8	13	12.2	19	18.8	20	26.2
Bedford	62	19	81	22	36.8	12	30.1	20	38.9	11	21.3	16	35.1
Blair	98	41	139	18	11.7	20	17.8	21	17.0	23	17.7	57	51.4
Cumberland	122	51	173	32	11.1	28	12.0	32	13.6	35	15.5	46	25.4
Dauphin	151	44	195	19	5.6	30	12.4	36	12.9	36	13.3	74	41.0
Franklin	100	33	133	22	11.4	18	13.9	25	17.2	22	15.7	46	37.7
Fulton	15	3	18	5	NSR	5	NSR	4	NSR	4	NSR	0	NSR
Huntingdon	45	19	64	11	21.0	17	37.9	7	NSR	8	NSR	21	57.2
Juniata	26	4	30	7	NSR	8	NSR	6	NSR	9	NSR	0	NSR
Lebanon	65	19	84	16	9.7	17	14.0	17	13.1	11	8.5	23	20.8
Mifflin	33	10	43	6	NSR	5	NSR	9	NSR	5	NSR	18	42.3
Perry	34	16	50	12	20.1	13	32.9	12	24.5	9	NSR	4	NSR
York	252	97	349	50	9.0	54	14.0	58	12.2	58	13.5	129	42.9

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	8,227	3,027	**11,254**	1,477	9.2	1,975	16.5	2,047	15.9	1,914	15.4	3,841	39.6
Northwest	769	251	**1,020**	181	15.6	195	23.4	187	20.3	179	19.0	278	35.7
Cameron	9	0	9	5	NSR	4	NSR	0	NSR	0	NSR	0	NSR
Clarion	39	13	52	12	23.5	13	32.6	10	27.5	7	NSR	10	29.7
Clearfield	90	32	122	9	NSR	25	34.2	21	23.3	22	26.0	45	62.2
Crawford	73	25	98	9	NSR	16	20.9	26	30.3	19	20.7	28	38.4
Elk	43	7	50	16	42.8	7	NSR	12	34.3	7	NSR	8	NSR
Erie	174	56	230	18	4.8	47	16.6	30	10.9	53	19.8	82	40.4
Forest	6	2	8	5	NSR	3	NSR	0	NSR	0	NSR	0	NSR
Jefferson	52	11	63	20	36.7	7	NSR	12	26.8	14	29.8	10	24.3
Lawrence	71	34	105	15	13.5	16	21.5	20	22.6	18	19.1	36	42.6
McKean	31	12	43	14	26.3	6	NSR	9	NSR	8	NSR	6	NSR
Mercer	93	29	122	30	20.4	22	22.4	25	22.1	14	11.8	31	29.4
Venango	53	19	72	15	22.5	16	36.6	18	33.6	10	16.5	13	26.9
Warren	35	11	46	13	27.0	13	40.9	4	NSR	7	NSR	9	NSR
Southwest	2,231	946	**3,177**	335	10.5	568	23.3	508	18.6	508	17.9	1,258	53.9
Allegheny	892	383	1,275	84	5.8	237	20.2	173	14.2	201	16.1	580	56.7
Armstrong	64	14	78	14	17.1	22	41.7	12	17.0	23	30.8	7	NSR
Beaver	139	52	191	29	14.6	35	24.7	28	16.1	30	16.1	69	43.7
Butler	134	64	198	13	5.4	34	21.6	36	18.3	37	19.8	78	56.7
Cambria	136	55	191	11	6.7	31	24.7	28	19.7	28	18.2	93	68.9
Fayette	157	56	213	45	27.8	48	40.7	42	28.9	23	14.9	55	44.2
Greene	38	23	61	20	45.0	9	NSR	13	31.4	6	NSR	13	43.7
Indiana	84	32	116	20	17.6	13	13.8	24	30.8	21	24.6	38	54.4
Somerset	78	31	109	18	21.6	17	25.1	24	29.4	14	17.1	36	49.6
Washington	176	88	264	48	19.5	47	26.2	54	25.9	33	14.9	82	45.5
Westmoreland	333	148	481	33	8.1	75	25.9	74	19.7	92	22.9	207	61.0

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 DEATHS: TRAUMATIC BRAIN INJURY

NUMBER AND AGE-ADJUSTED DEATH RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

BLACK POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	233	28.7	25.0-32.4
Chester	15	10.0	4.9-15.0
Dauphin	36	16.6	11.2-22.0
Delaware	69	12.9	9.9-16.0
Montgomery	32	9.1	6.0-12.3
Philadelphia	529	15.6	14.3-17.0
Pennsylvania	1,086	15.9	14.9-16.8

WHITE POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	1,015	15.8	14.8-16.7
Chester	248	10.7	9.4-12.1
Dauphin	149	12.7	10.6-14.7
Delaware	326	12.4	11.0-13.7
Montgomery	423	10.7	9.7-11.7
Philadelphia	484	12.4	11.3-13.5
Pennsylvania	9,795	16.0	15.7-16.3

HISPANIC POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Berks	33	13.1	8.7-17.6
Lancaster	14	9.0	4.3-13.7
Lehigh	24	15.5	9.3-21.7
Philadelphia	98	13.7	11.0-16.4
Pennsylvania	247	9.5	8.3-10.7

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL DEATH RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

Select Counties		Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+	
County and Race		Cty. Pop.	Male	Female	All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Allegheny	Black	13.4%	185	48	**233**	18.3%	44	16.3	93	53.6	41	27.1	24	17.8	31	34.5
	White	82.4%	686	329	**1,015**	79.6%	39	3.6	131	14.1	129	12.7	174	15.9	542	59.0
Chester	Black	6.2%	11	4	**15**	5.6%	2	NSR	9	NSR	2	NSR	1	NSR	1	NSR
	White	88.3%	185	63	**248**	91.9%	11	1.9	42	11.1	43	8.8	61	13.7	91	31.3
Dauphin	Black	18.1%	29	7	**36**	18.5%	5	NSR	12	25.0	8	NSR	4	NSR	7	NSR
	White	75.8%	115	34	**149**	76.4%	5	NSR	13	7.4	23	10.8	35	15.7	73	46.7
Delaware	Black	19.2%	57	12	**69**	17.0%	9	NSR	30	23.3	10	9.0	9	NSR	11	27.2
	White	74.4%	224	102	**326**	80.5%	7	NSR	31	8.4	37	8.9	63	14.5	188	54.5
Montgomery	Black	8.8%	25	7	**32**	6.7%	7	NSR	6	NSR	8	NSR	7	NSR	4	NSR
	White	83.2%	283	140	**423**	88.9%	9	NSR	56	10.1	68	9.6	70	10.4	220	41.0
Philadelphia	Black	45.1%	423	106	**529**	46.4%	74	6.9	200	26.8	106	16.2	66	11.9	83	23.0
	White	45.3%	344	140	**484**	42.5%	12	1.6	47	5.4	92	14.3	135	22.5	198	37.4
Pennsylvania	Black	10.9%	868	218	**1,086**	9.6%	177	8.0	404	25.9	210	15.4	134	12.6	161	24.7
	White	84.5%	7,054	2,741	**9,795**	87.0%	540	4.2	1,531	15.8	1,638	15.0	1,871	17.0	4,215	47.6

Injury Hospitalizations
2007-2011

INJURY HOSPITALIZATIONS: ALL INJURIES

In 2011, among Pennsylvania residents, there were 139,900 hospitalizations due to injury. On average, one resident was hospitalized every four minutes.

Injury Definition

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

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

Most injury hospitalizations in Pa are unintentional.

HIGHLIGHTS

- Age-adjusted rates generally **decreased** from 2007 to 2011.
- The general decrease in age-adjusted rates is manifested across all races and sexes.
- Of all Pennsylvania counties, **Philadelphia** and **Delaware** had the highest rates.

Trends Over Time

- Age-adjusted rates for injury hospitalizations decreased by 11 percent from 1066.2 hospitalizations per 100,000 population in 2007 to 952.2 hospitalizations per 100,000 population in 2011.
- Males had significantly higher age-adjusted injury hospitalization rates than females for ages under 70 from 2007 to 2011, while females had higher rates for ages 70 and older.
- Black males had the highest age-adjusted injury hospitalization rates from the 2007 to 2011.

Demographic Trends

- Generally, males had higher injury hospitalization rates compared to females from 2007 to 2011.
- Among males, blacks had significantly higher injury hospitalization rates for ages less than 80, while whites had significantly higher rates for ages 80 and older.
- Among females, blacks had significantly higher injury hospitalization rates for ages less than 70, while whites had significantly higher rates for ages 70 and older.

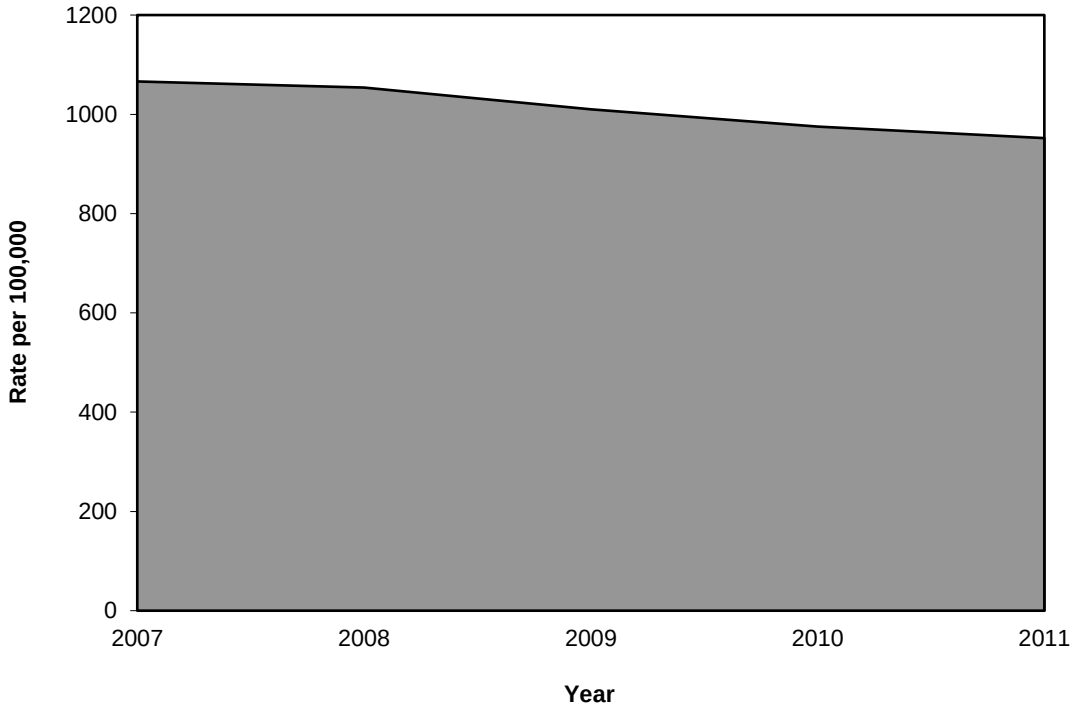
Regional Trends

- The Southeast Health District had the highest age-adjusted injury hospitalization rate while the South Central Health District had the lowest rate.
- Twenty-one counties had age-adjusted injury hospitalization rates for the 2007 – 2011 that were significantly higher than the state rate. These counties appeared in all health districts except the South Central and North Central Health Districts that had rates lower than the state.

INJURY HOSPITALIZATIONS: ALL INJURIES

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, 2007-2011

Year	No.	Rate
2007	145,380	1066.2
2008	147,490	1053.8
2009	145,111	1009.8
2010	142,074	975.1
2011	139,900	952.2



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2007-2011

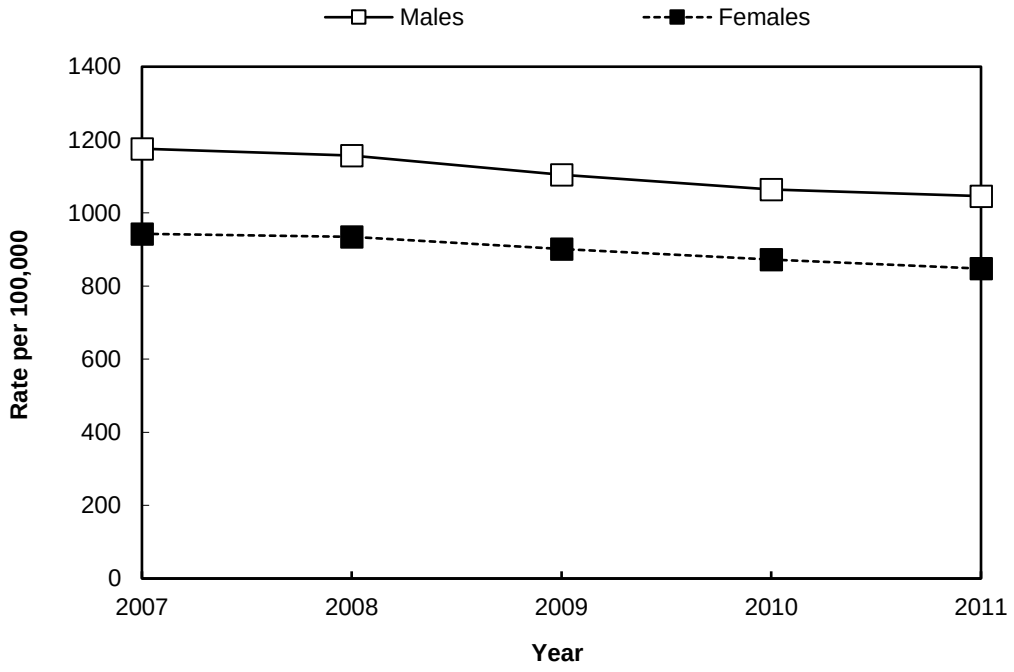
Year	Northwest	North Central	Northeast	Southeast	South Central	Southwest
2007	1042.2	816.7	1099.0	1141.6	836.2	1117.6
2008	1067.7	824.8	1096.4	1128.0	786.7	1103.7
2009	1006.8	789.7	1017.0	1102.0	776.2	1036.4
2010	986.7	799.5	970.9	1064.1	712.0	1016.6
2011	923.7	769.5	971.5	1029.3	720.6	1001.1

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2007-2011 based on ICD-9 codes. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL INJURIES

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX PENNSYLVANIA RESIDENTS, 2007-2011

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2007	70,210	1,175.8	2007	75,149	943.0
2008	70,995	1,157.4	2008	76,451	934.8
2009	69,695	1,104.4	2009	75,348	901.6
2010	68,222	1,063.8	2010	73,811	872.2
2011	67,894	1,046.0	2011	71,936	847.7



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2007-2011

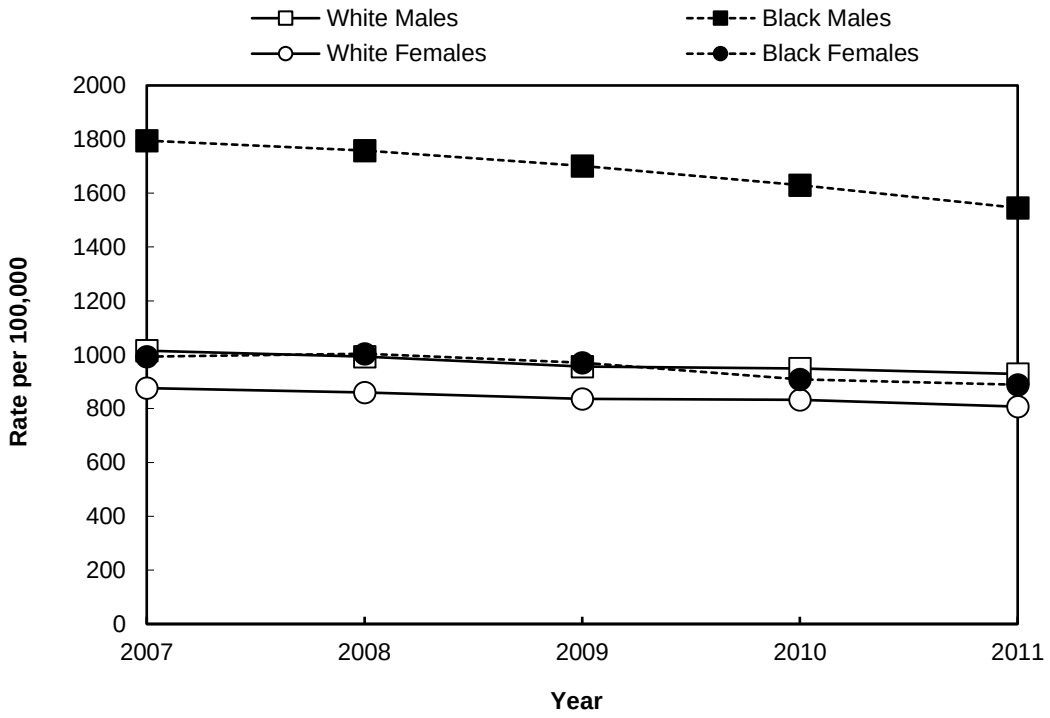
Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2007	1,228.6	1,043.6	2007	955.9	910.1
2008	1,192.3	1,068.3	2008	942.4	915.9
2009	1,141.9	1,008.6	2009	912.5	874.0
2010	1,105.7	959.5	2010	877.9	859.4
2011	1,083.9	952.6	2011	858.3	822.7

NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania. Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL INJURIES

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX AND RACE OR ETHNICITY PENNSYLVANIA RESIDENTS, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	53,364	10,196	63,405	6,720	2,517	1,654
2008	53,899	10,125	64,008	6,920	2,784	1,856
2009	53,403	9,980	63,415	6,878	2,579	1,830
2010	52,414	9,897	62,624	6,504	2,451	1,647
2011	52,972	9,816	61,681	6,597	1,808	1,136



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	1,014.9	1,795.1	876.0	992.4	1,227.0	895.7
2008	993.4	1,758.0	859.9	1,003.7	1,333.4	954.7
2009	955.7	1,700.7	835.6	970.6	1,137.1	872.3
2010	948.4	1,629.8	832.1	908.7	1,026.5	773.6
2011	928.5	1,545.3	807.3	888.6	634.0	461.9

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 AVERAGE ANNUAL HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2007-2011

AGE	PA TOTAL		MALE		FEMALE			URBAN		RURAL		
GROUP	No.	Rate	No.	Rate	No.	Rate		No.	Rate	No.	Rate	
TOTAL	**719,955**	**1,144.0**	**347,016**	**1,133.2**	**372,695**	**1,153.5**		**529,620**	**1,158.6**	**190,335**	**1,105.4**	
< 5	8,010	218.2	4,711	251.0	3,288	183.4	*	6,369	231.2	1,641	179.2	*
5-9	6,427	170.1	3,941	204.1	2,481	134.2	*	4,913	175.3	1,514	155.2	*
10-14	9,801	246.1	6,587	323.8	3,206	164.6	*	7,175	244.7	2,626	250.3	
15-19	26,884	587.3	17,201	742.2	9,664	427.6	*	19,348	585.7	7,536	591.3	
20-24	33,648	759.7	22,025	980.7	11,600	531.3	*	25,212	789.3	8,436	683.0	*
25-29	29,921	786.3	19,025	983.7	10,883	581.6	*	22,592	786.6	7,329	785.3	
30-34	26,218	704.7	16,537	883.9	9,663	522.4	*	19,630	711.2	6,588	685.8	*
35-39	28,409	727.0	17,233	885.7	11,165	569.0	*	21,021	733.5	7,388	709.2	*
40-44	35,759	825.3	21,620	1,007.1	14,120	645.9	*	26,833	847.7	8,926	764.5	*
45-49	43,816	945.1	26,497	1159.7	17,298	735.7	*	33,106	981.6	10,710	847.7	*
50-54	46,205	994.6	27,003	1,185.3	19,189	810.6	*	34,585	1,030.0	11,620	902.5	*
55-59	42,413	1,010.8	23,657	1,159.6	18,744	869.5	*	31,587	1,052.3	10,826	906.7	*
60-64	40,154	1,127.5	20,868	1,224.3	19,269	1,037.7	*	29,319	1,164.1	10,835	1,039.0	*
65-69	38,260	1,409.8	18,096	1,439.6	20,157	1,383.6	*	27,238	1,441.2	11,022	1,337.7	*
70-74	42,249	1,923.1	18,141	1,862.4	24,101	1,970.9	*	30,127	1,970.5	12,122	1,814.7	*
75-79	57,209	3,121.7	22,103	2,904.6	35,092	3,274.5	*	41,042	3,187.9	16,167	2,965.3	*
80-84	76,802	5,234.4	26,251	4,675.8	50,537	5,579.0	*	55,642	5,335.2	21,160	4,986.4	*
85 +	127,770	8,652.0	35,520	7,764.0	92,238	9,049.3	*	93,881	8,850.7	33,889	8,145.2	*

* 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: ALL INJURIES

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH AVERAGE ANNUAL HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2007-2011

AGE	WHITE MALE		BLACK MALE			WHITE FEMALE		BLACK FEMALE			HISPANICS	
GROUP	No.	Rate	No.	Rate		No.	Rate	No.	Rate		No.	Rate
TOTAL	**266,052**	**1,026.0**	**50,014**	**1,532.5**		**315,133**	**1,156.3**	**33,619**	**937.0**		**20,262**	**620.3**
< 5	2,595	176.6	1,160	440.6	*	1,762	126.1	801	312.4	*	797	217.0
5-9	2,430	158.4	857	329.0	*	1,566	107.2	497	197.1	*	509	154.2
10-14	4,498	275.6	1,242	445.7	*	2,202	141.5	562	209.7	*	557	181.7
15-19	11,443	613.2	3,661	1,144.1	*	6,990	383.4	1,471	476.2	*	1,303	403.4
20-24	14,625	807.3	4,477	1,470.2	*	8,312	473.4	1,913	635.0	*	1,769	596.4
25-29	12,808	815.3	3,689	1,481.0	*	7,984	530.8	1,737	691.4	*	1,626	598.9
30-34	10,986	715.5	3,239	1,462.2	*	6,912	461.3	1,641	701.0	*	1,594	625.0
35-39	11,767	723.7	3,389	1,605.2	*	8,251	509.3	1,790	776.9	*	1,489	620.7
40-44	15,061	821.9	4,270	1,957.7	*	10,447	566.7	2,371	975.4	*	1,534	713.1
45-49	18,865	949.9	5,262	2,428.8	*	13,059	647.4	2,875	1,165.6	*	1,464	777.7
50-54	19,692	978.7	5,099	2,588.7	*	15,043	730.3	2,939	1,264.3	*	1,310	915.4
55-59	18,088	991.3	3,842	2,413.1	*	15,066	794.4	2,421	1,233.3	*	1,020	941.3
60-64	16,578	1,076.5	2,727	2,262.3	*	16,057	973.0	1,998	1,268.6	*	947	1,237.1
65-69	14,968	1,305.4	1,864	2,305.5	*	17,236	1,315.5	1,679	1,481.4	*	845	1,617.8
70-74	15,438	1,731.0	1,550	2,521.3	*	21,061	1,905.0	1,677	1,787.9	*	748	2,083.1
75-79	19,572	2,783.5	1,346	3,009.6	*	31,485	3,219.3	1,917	2,476.0	*	805	3,174.5
80-84	23,860	4,561.9	1,155	3,772.7	*	46,356	5,559.1	1,985	3,271.6	*	812	4,941.6
85 +	32,778	7,700.0	1,185	4,602.5	*	85,344	9,041.6	3,345	5,222.6	*	1,133	7,293.7

* 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: ALL INJURIES

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH AVERAGE ANNUAL HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2007-2011

AGE	NORTHWEST			NORTH CENTRAL			NORTHEAST			SOUTHEAST			SOUTH CENTRAL			SOUTHWEST		
GROUP	No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate	
TOTAL	**54,280**	**1,172.1**		**31,077**	**901.8**		**93,588**	**1,184.4**		**296,900**	**1,180.1**		**70,540**	**852.4**		**173,570**	**1,283.6**	
< 5	456	179.7	-	303	170.4	-	952	220.5		4,282	266.8	+	649	130.7	-	1,222	173.4	-
5-9	378	140.9	-	249	136.4		822	178.9		3,205	198.4	+	492	96.3	-	1,122	150.6	-
10-14	748	257.1		381	199.5	-	1,420	282.7	+	4,376	262.4	+	780	146.9	-	1,959	244.9	
15-19	2,071	600.9		1,243	407.8	-	3,571	622.3	+	11,651	629.5	+	2,673	466.5	-	5,599	601.8	
20-24	2,302	733.2		1,517	413.4	-	4,189	787.0	+	15,231	846.5	+	3,140	599.0	-	7,188	805.1	+
25-29	2,156	830.4	+	1,254	672.5	-	3,493	779.9		13,641	830.6	+	2,721	553.0	-	6,572	845.9	+
30-34	1,959	750.2	+	1,022	544.2	-	3,252	726.7		11,597	741.0	+	2,443	495.5	-	5,846	762.8	+
35-39	2,124	767.9	+	1,126	568.9	-	3,496	718.8		12,514	777.0	+	2,812	533.9	-	6,260	773.3	+
40-44	2,547	825.5		1,376	630.7	-	4,511	819.6		16,026	911.3	+	3,364	577.4	-	7,876	861.3	+
45-49	3,128	933.3		1,637	694.6	-	5,380	908.1	-	20,006	1,081.9	+	3,955	640.3	-	9,686	962.7	
50-54	3,400	982.8		1,749	732.5	-	5,562	938.1	-	20,747	1,150.4	+	4,162	680.2	-	10,576	1,004.6	
55-59	3,216	1,006.4		1,773	802.2	-	5,039	935.5	-	18,321	1,155.5	+	3,902	693.5	-	10,170	1,050.0	+
60-64	2,974	1,082.5	-	1,752	908.3	-	5,250	1,105.8		16,512	1,255.2	+	4,113	851.1	-	9,572	1,166.9	+
65-69	3,239	1,499.3	+	1,826	1,170.1	-	5,042	1,375.0		14,950	1,519.8	+	3,945	1,050.7	-	9,294	1,508.6	+
70-74	3,462	1,933.3		2,030	1,591.9	-	5,649	1,949.5		16,189	2,059.9	+	4,501	1,514.5	-	10,468	2,022.8	+
75-79	4,578	3,074.9		2,722	2,631.7	-	7,821	3,291.5	+	21,331	3,245.2	+	6,050	2,514.1	-	14,818	3,332.2	+
80-84	6,072	5,137.6		3,533	4,441.8	-	10,515	5,560.2	+	27,883	5,323.6	+	8,066	4,462.8	-	21,003	5,587.3	+
85 +	9,470	8,170.1	-	5,584	7,186.6	-	17,624	9,368.3	+	48,438	8,981.0	+	12,772	7,265.9	-	34,339	9,038.2	+

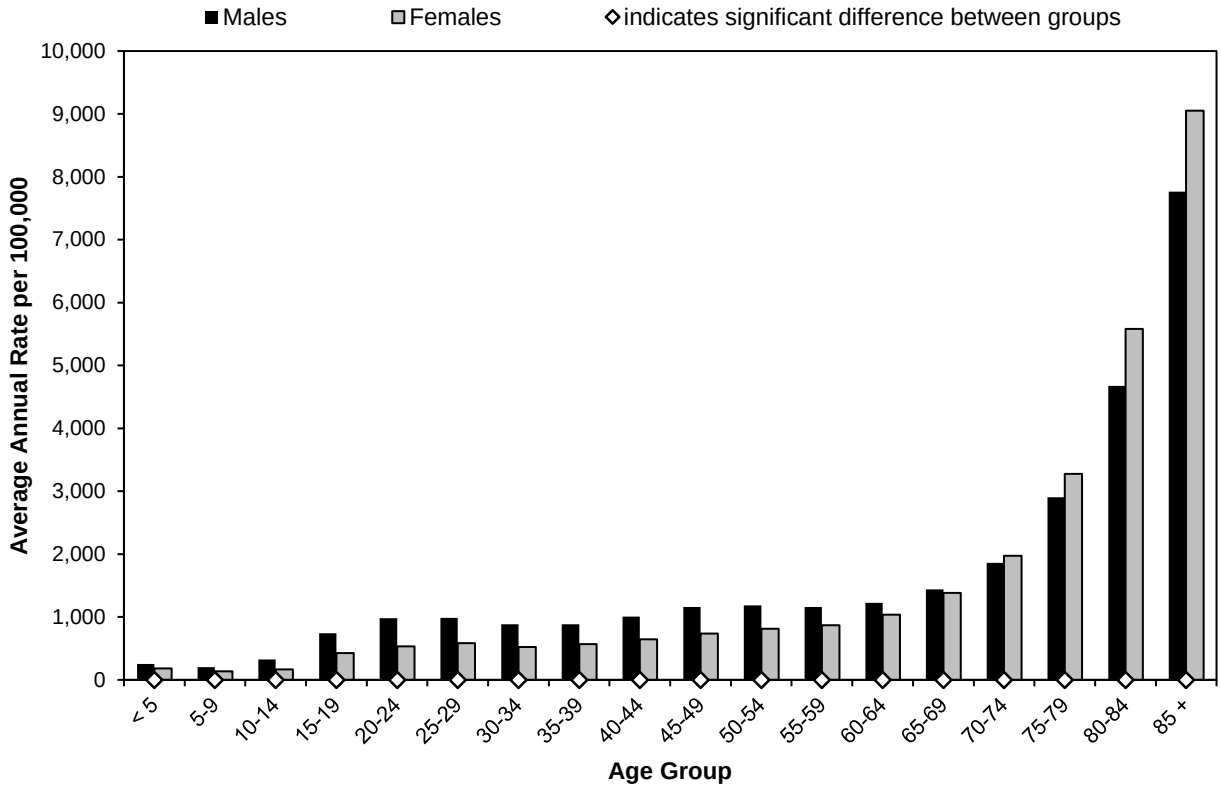
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

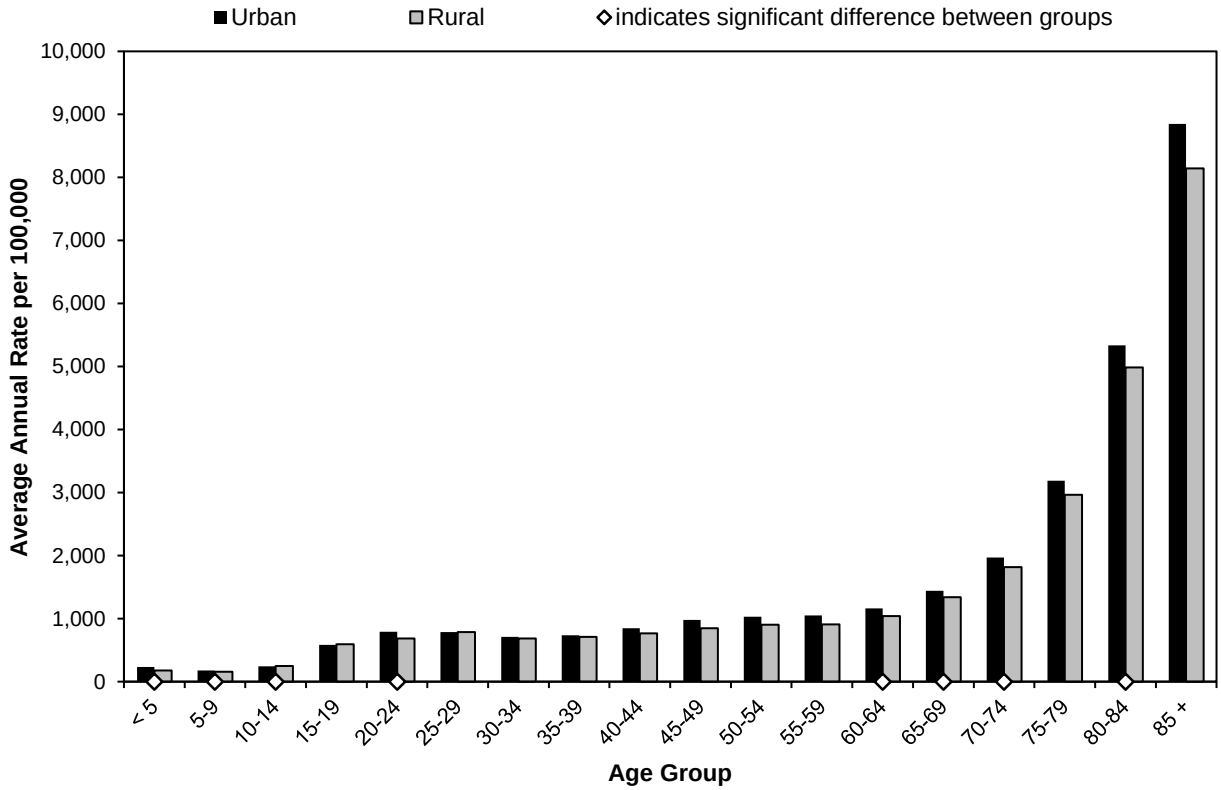
NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total.

INJURY HOSPITALIZATIONS: ALL INJURIES

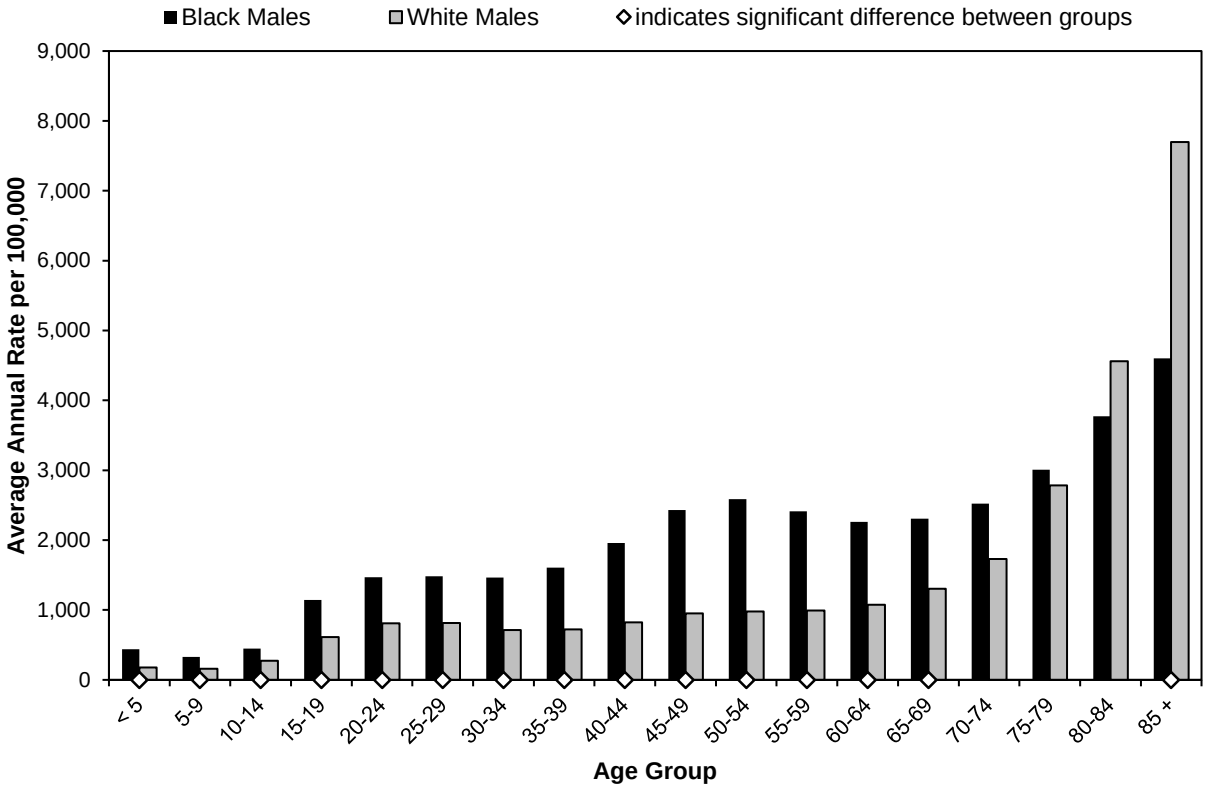
AVERAGE ANNUAL HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2007-2011

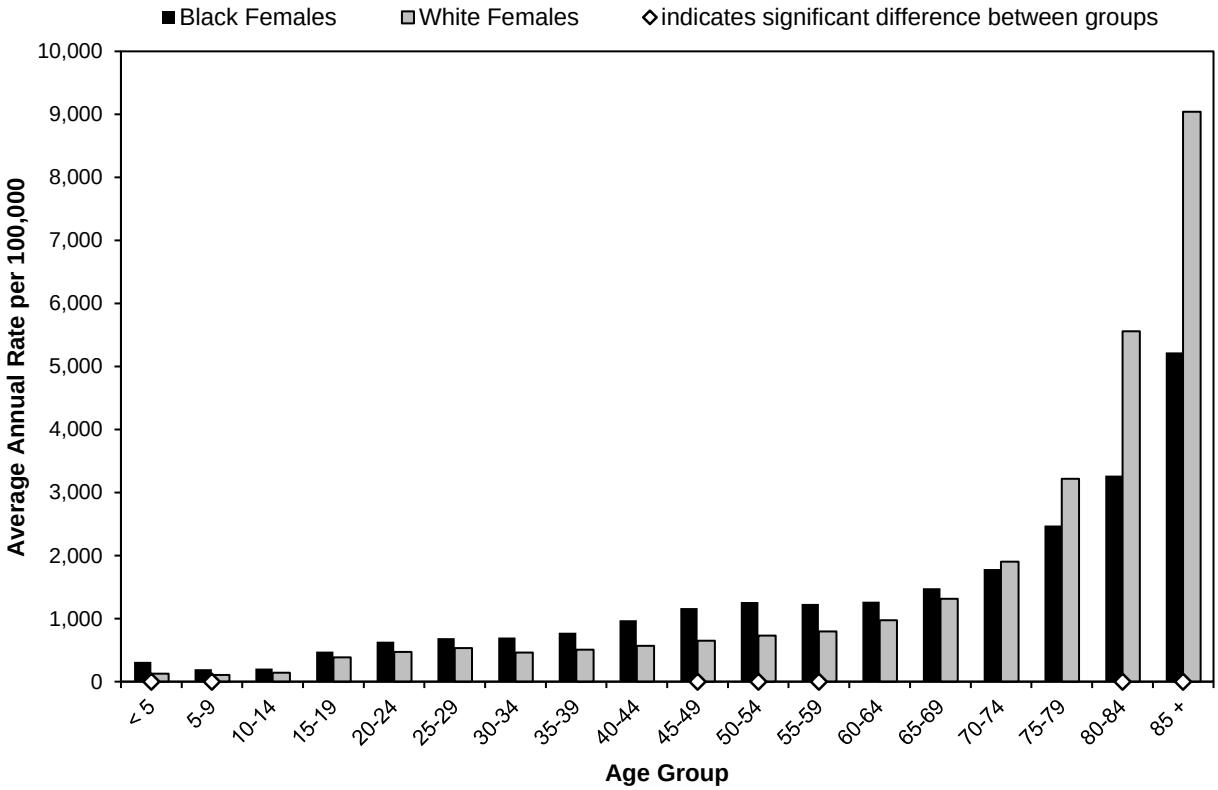




INJURY HOSPITALIZATIONS: ALL INJURIES

AVERAGE ANNUAL HOSPITALIZATION RATES BY SEX AND RACE
PENNSYLVANIA RESIDENTS, 2007-2011





INJURY HOSPITALIZATIONS: ALL INJURIES

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2007-2011

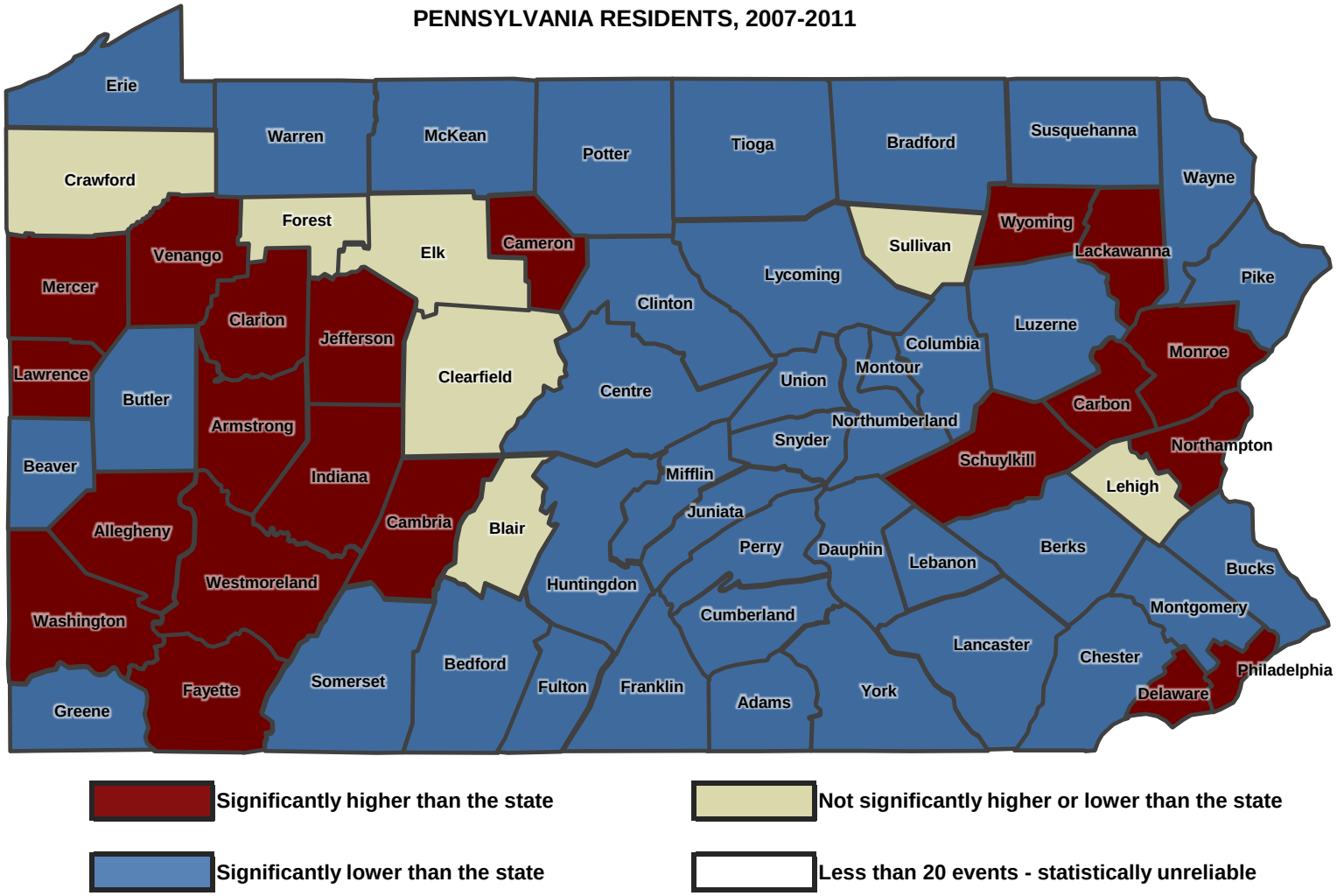
District/County	No.	Rate	CI (95%)		District/County	No.	Rate	CI (95%)	
Northeast	93,588	1,028.2	1,021.6-1,034.7	+	**Southeast**	296,900	1,091.5	1,087.6-1,095.5	+
Carbon	4,773	1,291.9	1,255.2-1,328.5	+	Berks	20,601	923.8	911.2-936.4	-
Lackawanna	13,588	1,047.5	1,029.9-1,065.1	+	Bucks	33,090	984.7	974.0-995.3	-
Lehigh	19,576	1,023.0	1,008.7-1,037.3		Chester	20,474	808.6	797.5-819.7	-
Luzerne	17,736	895.0	881.8-908.1	-	Delaware	40,730	1,310.0	1,297.3-1,322.7	+
Monroe	8,626	1,041.1	1,019.1-1,063.1	+	Lancaster	22,009	783.8	773.5-794.2	-
Northampton	21,339	1,261.2	1,244.3-1,278.2	+	Montgomery	41,732	919.6	910.8-928.5	-
Pike	1,524	483.7	459.4-508.0	-	Philadelphia	107,704	1,404.4	1,396.0-1,412.7	+
Susquehanna	1,834	756.1	721.5-790.7	-	Schuylkill	10,560	1,195.8	1,173.0-1,218.6	+
Wayne	2,871	947.2	912.5-981.8	-					
Wyoming	1,721	1,134.4	1,080.8-1,188.0	+					
North Central	31,077	798.3	789.5-807.2	-	**South Central**	70,540	764.5	758.8-770.1	-
Bradford	3,189	919.7	887.8-951.6	-	Adams	3,591	638.3	617.4-659.1	-
Centre	5,312	780.1	759.1-801.1	-	Bedford	2,053	721.1	689.9-752.3	-
Clinton	1,779	809.8	772.2-847.5	-	Blair	7,462	986.8	964.4-1,009.1	
Columbia	3,587	973.6	941.7-1,005.5	-	Cumberland	10,208	761.1	746.3-775.9	-
Lycoming	5,639	816.8	795.5-838.1	-	Dauphin	10,645	761.3	746.8-775.7	-
Montour	965	940.5	881.1-999.8	-	Franklin	6,190	729.2	711.0-747.3	-
Northumberland	5,138	915.1	890.1-940.1	-	Fulton	672	820.8	758.7-882.8	-
Potter	733	720.1	668.0-772.3	-	Huntingdon	2,018	795.3	760.6-830.0	-
Snyder	1,361	635.4	601.7-669.2	-	Juniata	922	670.3	627.0-713.5	-
Sullivan	391	983.2	885.7-1,080.7		Lebanon	4,747	626.4	608.5-644.2	-
Tioga	1,327	561.0	530.8-591.2	-	Mifflin	2,428	906.7	870.6-942.7	-
Union	1,656	675.4	642.9-707.9	-	Perry	2,083	896.1	857.6-934.5	-
					York	17,521	767.1	755.8-778.5	-
Northwest	54,280	1,003.9	995.4-1,012.3		**Southwest**	173,570	1,053.8	1,048.9-1,058.8	+
Cameron	411	1,248.0	1,127.4-1,368.7	+	Allegheny	81,117	1,084.3	1,076.8-1,091.7	+
Clarion	2,373	1,057.1	1,014.6-1,099.6	+	Armstrong	4,932	1,205.2	1,171.5-1,238.8	+
Clearfield	4,742	988.4	960.3-1,016.6		Beaver	9,497	916.6	898.1-935.0	-
Crawford	4,958	986.4	958.9-1,013.8		Butler	9,862	943.8	925.2-962.4	-
Elk	2,070	1,053.4	1,008.0-1,098.8		Cambria	10,596	1,180.3	1,157.9-1,202.8	+
Erie	13,476	878.7	863.8-893.5	-	Fayette	8,635	1,041.4	1,019.4-1,063.3	+
Forest	415	999.4	903.3-1,095.6		Greene	1,517	683.3	648.9-717.7	-
Jefferson	2,920	1,100.2	1,060.3-1,140.1	+	Indiana	5,807	1,161.4	1,131.5-1,191.3	+
Lawrence	6,472	1,145.4	1,117.5-1,173.3	+	Somerset	4,619	957.8	930.2-985.4	-
McKean	2,275	875.2	839.3-911.2	-	Washington	13,158	1,061.5	1,043.4-1,079.7	+
Mercer	8,833	1,232.6	1,206.9-1,258.3	+	Westmoreland	23,830	1,059.2	1,045.7-1,072.6	+
Venango	3,452	1,086.9	1,050.6-1,123.2	+					
Warren	1,883	759.7	725.4-794.1	-	Pennsylvania	719,955	1,009.9	1,007.5-1,012.2	

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, 2007-2011



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 AVERAGE ANNUAL HOSPITALIZATION RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2007-2011

Geography	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	347,016	372,695	**719,711**	51,137	321.7	89,790	744.3	107,993	850.4	128,775	1,009.0	342,260	3478.0
Northeast	43,741	49,739	**93,480**	6,765	345.6	10,934	767.3	13,387	828.0	15,851	960.6	46,651	3600.1
Carbon	2,268	2,503	4,771	345	481.6	592	1069.6	736	1098.5	810	1134.8	2,290	3984.1
Lackawanna	6,000	7,584	13,584	820	326.5	1455	729.7	1781	870.8	2320	1070.1	7212	3806.6
Lehigh	9,426	10,149	19,575	1,560	343.1	2,650	811.4	2,901	819.4	3,247	947.0	9,218	3505.4
Luzerne	7,650	9,997	17,647	1,043	287.9	1832	635.0	2244	698.9	2846	868.6	9771	3394.4
Monroe	4,365	4,257	8,622	769	338.6	1,067	731.6	1,547	852.2	1,757	990.3	3,486	3227.9
Northampton	10,181	11,156	21,337	1,563	410.5	2471	913.2	2960	973.7	3402	1124.7	10943	4728.2
Pike	777	746	1,523	146	207.2	182	430.8	285	452.4	343	507.8	568	1182.3
Susquehanna	853	981	1,834	145	295.3	182	554.5	259	629.9	272	542.0	976	2602.7
Wayne	1,398	1,470	2,868	234	427.5	316	784.1	436	825.4	525	833.1	1,360	2705.9
Wyoming	823	896	1,719	140	392.0	187	799.0	238	856.9	329	1073.1	827	3623.7
Southeast	149,807	147,059	**296,866**	23,514	350.3	40,469	795.8	48,546	941.1	55,580	1145.1	128,791	3626.8
Berks	10,137	10,463	20,600	1,598	285.6	2,406	641.8	3,094	735.8	3,580	906.2	9,923	3323.7
Bucks	15,874	17,215	33,089	2,474	314.3	3863	757.5	4990	724.2	5927	870.3	15836	3444.5
Chester	9,400	11,074	20,474	1,285	185.7	2,246	511.5	2,858	524.5	3,827	765.6	10,258	3167.2
Delaware	19,849	20,880	40,729	3,032	407.4	5240	973.0	5967	1068.6	7331	1333.9	19160	4784.4
Lancaster	10,654	11,353	22,007	1,896	263.9	2,691	551.6	3,058	613.9	3,547	730.4	10,817	2773.3
Montgomery	19,085	22,639	41,724	2,775	276.4	4290	608.0	5154	602.1	7170	893.2	22343	3696.1
Philadelphia	59,872	47,830	107,702	9,678	473.0	18,368	966.4	21,748	1517.3	22,375	1740.5	35,535	3783.9
Schuylkill	4,936	5,605	10,541	776	481.9	1365	1058.1	1677	1060.0	1823	1183.2	4919	3650.3

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	347,016	372,695	**719,711**	51,137	321.7	89,790	744.3	107,993	850.4	128,775	1,009.0	342,260	3,478.0
North Central	14,502	16,489	**30,991**	2,320	273.4	3,848	512.2	4,179	647.2	5,270	783.4	15,460	2788.6
Bradford	1,501	1,685	3,186	265	341.3	461	931.0	463	750.9	574	860.4	1,426	2584.8
Centre	2,386	2,916	5,302	352	189.2	763	312.9	729	595.9	897	773.4	2571	2966.6
Clinton	821	952	1,773	128	256.3	203	522.7	202	589.9	310	837.2	936	2949.0
Columbia	1,661	1,914	3,575	261	313.9	455	647.9	505	849.4	631	976.8	1735	3193.3
Lycoming	2,632	2,990	5,622	378	269.2	586	522.0	717	634.3	954	789.3	3,004	3097.7
Montour	433	530	963	90	418.8	135	918.7	152	879.1	171	855.3	417	2471.7
Northumberland	2,386	2,734	5,120	391	368.9	586	744.6	664	707.9	840	839.4	2,657	3041.9
Potter	358	374	732	52	243.7	82	630.2	98	614.7	116	614.5	385	2297.7
Snyder	659	700	1,359	119	229.0	161	417.6	177	471.9	214	565.0	690	2308.5
Sullivan	196	193	389	31	461.8	42	961.3	62	1165.4	80	1075.7	176	2258.4
Tioga	613	710	1,323	109	205.7	161	439.6	182	488.2	250	573.2	625	1648.9
Union	856	791	1,647	144	283.0	213	420.3	228	477.2	233	587.5	838	2543.0
South Central	33,051	37,480	**70,531**	4,983	236.6	8,516	563.7	10,260	599.8	12,166	713.6	34,615	2658.3
Adams	1,741	1,850	3,591	259	199.6	378	423.9	499	475.1	628	601.9	1,827	2299.2
Bedford	952	1,101	2,053	180	305.0	255	654.9	300	594.1	364	685.8	954	2046.3
Blair	3,421	4,041	7,462	454	296.7	883	787.2	972	799.8	1,409	1059.7	3,744	3315.5
Cumberland	4,517	5,691	10,208	572	199.5	1008	431.3	1271	542.5	1668	712.7	5689	3074.7
Dauphin	5,139	5,505	10,644	890	263.0	1,445	582.7	1,715	627.4	1,979	711.8	4,616	2502.2
Franklin	2,780	3,409	6,189	394	202.7	591	454.9	800	545.6	1004	696.3	3401	2719.6
Fulton	311	361	672	54	295.0	83	674.6	94	610.8	107	700.7	334	2581.9
Huntingdon	993	1,024	2,017	145	277.7	321	725.9	297	622.4	337	718.6	918	2440.3
Juniata	433	487	920	59	190.2	99	489.2	110	460.2	142	583.9	512	2470.0
Lebanon	2,220	2,527	4,747	423	253.1	542	452.0	646	499.3	752	567.3	2384	2099.2
Mifflin	1,088	1,337	2,425	169	285.7	289	770.2	362	795.4	430	921.0	1,178	2712.4
Perry	1,095	988	2,083	221	374.0	295	754.9	353	730.5	393	780.2	821	2602.6
York	8,361	9,159	17,520	1,163	208.6	2,327	603.6	2,841	605.7	2,953	667.9	8,237	2667.6

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	347,016	372,695	**719,711**	51,137	321.7	89,790	744.3	107,993	850.4	128,775	1009.0	342,260	3,478.0
Northwest	25,618	28,660	**54,278**	3,653	319.7	6,417	774.0	7,799	864.6	9,590	992.4	26,821	3410.1
Cameron	195	216	411	16	286.5	48	1352.1	58	1239.8	68	1077.7	221	4137.8
Clarion	1,212	1,161	2,373	156	312.6	274	675.3	319	894.3	414	1051.5	1210	3601.6
Clearfield	2,327	2,414	4,741	361	405.8	583	808.3	750	841.8	867	1001.1	2,181	2999.5
Crawford	2,377	2,581	4,958	318	278.9	616	814.8	655	777.0	954	1014.4	2415	3260.9
Elk	981	1,089	2,070	165	451.9	214	932.1	271	793.8	353	993.0	1,067	3514.1
Erie	6,402	7,074	13,476	941	255.4	1916	677.8	2219	826.1	2387	862.8	6013	2928.8
Forest	222	193	415	23	407.2	38	386.8	60	837.1	91	1256.7	203	3034.4
Jefferson	1,453	1,467	2,920	231	428.5	351	935.5	423	965.5	444	923.0	1471	3559.0
Lawrence	2,935	3,536	6,471	380	347.6	689	936.1	831	960.6	1,095	1124.1	3,477	4085.4
McKean	1,001	1,274	2,275	148	281.4	267	693.1	270	607.1	352	801.7	1238	3342.2
Mercer	3,892	4,941	8,833	519	358.2	841	862.1	1,228	1107.5	1,498	1238.0	4,747	4440.3
Venango	1,699	1,753	3,452	252	384.9	393	912.8	495	948.8	681	1087.2	1631	3314.6
Warren	922	961	1,883	143	302.0	187	592.7	220	543.5	386	812.2	947	2437.2
Southwest	80,297	93,268	**173,565**	9,902	316.4	19,606	796.4	23,822	894.0	30,318	1040.1	89,922	3825.4
Allegheny	37,198	43,919	81,117	4,245	300.6	8,883	735.6	10,862	917.5	14,491	1129.3	42,636	4154.6
Armstrong	2,391	2,541	4,932	359	450.2	594	1127.5	677	979.0	812	1054.4	2490	3892.3
Beaver	4,333	5,164	9,497	583	298.2	1,150	812.5	1,433	850.5	1,633	854.6	4,698	2959.9
Butler	4,724	5,138	9,862	708	299.7	1060	680.9	1327	682.5	1610	830.0	5157	3658.9
Cambria	4,869	5,727	10,596	634	390.8	1,282	1030.7	1,408	1018.4	1,827	1163.2	5,445	4022.4
Fayette	4,143	4,490	8,633	501	318.0	1187	1020.2	1399	990.2	1606	1034.0	3942	3169.1
Greene	706	810	1,516	105	239.1	198	529.7	220	544.6	260	614.7	734	2446.9
Indiana	2,671	3,136	5,807	397	354.4	672	702.9	720	946.7	951	1089.4	3067	4359.8
Somerset	2,284	2,335	4,619	300	365.0	502	756.5	628	784.3	757	893.6	2,432	3323.5
Washington	6,080	7,078	13,158	806	330.5	1427	805.4	1930	936.6	2315	1012.7	6680	3651.9
Westmoreland	10,898	12,930	23,828	1,264	312.5	2,651	923.9	3,218	877.7	4,056	979.2	12,641	3668.5

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, 2007-2011

BLACK POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	10,928	1,370.4	1,344.7-1,396.1
Chester	1,274	887.5	838.8-936.3
Dauphin	1,741	795.4	758.1-832.8
Delaware	6,629	1,378.1	1,345.0-1,411.3
Montgomery	3,233	983.2	949.3-1,017.1
Philadelphia	49,115	1,502.6	1,489.3-1,515.9
Pennsylvania	83,641	1,292.7	1,284.0-1,301.5

WHITE POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	67,626	1,019.0	1,011.4-1,026.7
Chester	18,106	786.1	774.7-797.6
Dauphin	8,176	709.7	694.3-725.1
Delaware	32,221	1,267.8	1,254.0-1,281.7
Montgomery	34,801	867.4	858.3-876.5
Philadelphia	44,615	1,112.5	1,102.2-1,122.9
Pennsylvania	581,399	911.8	909.4-914.1

HISPANIC POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Berks	1,598	785.8	747.3-824.3
Lancaster	414	308.1	278.4-337.8
Lehigh	1,510	670.7	636.9-704.6
Philadelphia	7,392	1,013	990.2-1,036.4
Pennsylvania	20,270	915.7	903.1-928.3

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL HOSPITALIZATION RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

Select Counties		Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+	
County and Race		Cty. Pop.	Male	Female	All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Allegheny	Black	13.4%	6,313	4,615	**10,928**	13.5%	1,457	539.3	2,261	1,302.4	2,251	1,485.6	2,465	1,831.4	2,494	2,777.9
	White	82.4%	29,422	38,204	**67,626**	83.4%	2,517	234.1	6,090	657.5	8,190	805.4	11,603	1,062.5	39,226	4,267.3
Chester	Black	6.2%	712	562	**1,274**	6.2%	114	229.4	248	705.3	272	916.6	268	1,102.2	372	2,375.3
	White	88.3%	8,056	10,050	**18,106**	88.4%	1,031	174.0	1,734	460.1	2,360	485.2	3,381	762.0	9,600	3,302.3
Dauphin	Black	18.1%	1,022	719	**1,741**	16.4%	252	311.1	359	746.5	409	841.5	392	1,012.2	329	1,609.6
	White	75.8%	3,698	4,477	**8,175**	76.8%	512	229.4	902	513.1	1,109	518.6	1,486	667.9	4,167	2,667.8
Delaware	Black	19.2%	3,884	2,745	**6,629**	16.3%	994	553.5	1,426	1,108.4	1,522	1,372.6	1,335	1,761.5	1,352	3,340.8
	White	74.4%	14,874	17,346	**32,220**	79.1%	1,784	352.9	3,480	945.2	4,078	976.4	5,647	1,297.2	17,232	4,996.5
Montgomery	Black	8.8%	1,861	1,372	**3,233**	7.7%	321	318.2	587	776.7	619	773.8	775	1,328.9	931	2,781.8
	White	83.2%	15,347	19,447	**34,794**	83.4%	2,023	252.7	3,088	555.0	3,938	554.4	5,820	861.6	19,932	3,712.6
Philadelphia	Black	45.1%	29,692	19,423	**49,115**	45.6%	5,499	515.1	9,216	1,236.6	12,290	1,873.9	11,668	2,107.8	10,442	2,888.2
	White	45.3%	21,484	23,130	**44,614**	41.4%	1,641	216.1	5,566	641.1	6,567	1,018.0	8,502	1,417.3	22,339	4,215.9
Pennsylvania	Black	10.9%	50,014	33,619	**83,633**	11.6%	10,254	464.4	16,700	1,069.3	19,957	1,460.9	19,027	1,789.9	17,703	2,712.3
	White	84.5%	266,052	315,133	**581,185**	80.8%	33,523	263.2	61,667	637.3	77,497	709.3	100,561	915.6	308,151	3,477.2

INJURY HOSPITALIZATIONS: UNINTENTIONAL FALLS

In 2011, among Pennsylvania residents, there were 66,655 hospitalizations due to unintentional falls. On average, one resident was hospitalized every eight minutes due to unintentional falls.

Injury Definition

Unintentional falls include:

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

The type of fall often varies by age and gender.

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

HIGHLIGHTS

- Age-adjusted rates generally **decreased** from 2007 to 2011.
- Most affected demographic is **white females**, 85 and older.
- Of all Pennsylvania counties, **Northampton** and **Delaware** had the highest rates.

Trends Over Time

- Age-adjusted hospitalization rates for unintentional falls decreased by 10 percent from 454.3 per 100,000 population in 2007 to 410.7 per 100,000 population in 2011.
- Females had higher age-adjusted falls hospitalization rates than males during 2007 to 2011 (rates were 463.7 and 418.9 in 2007 and 2011 respectively for females but 424.4 and 387.3 in 2007 and 2011 respectively for males).
- White females had the highest age-adjusted falls hospitalization rates compare to other races during 2007 to 2011.
- Urban populations had significantly higher age-adjusted falls hospitalization rates than rural populations for all age groups during 2007 to 2011.

Demographic Trends

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

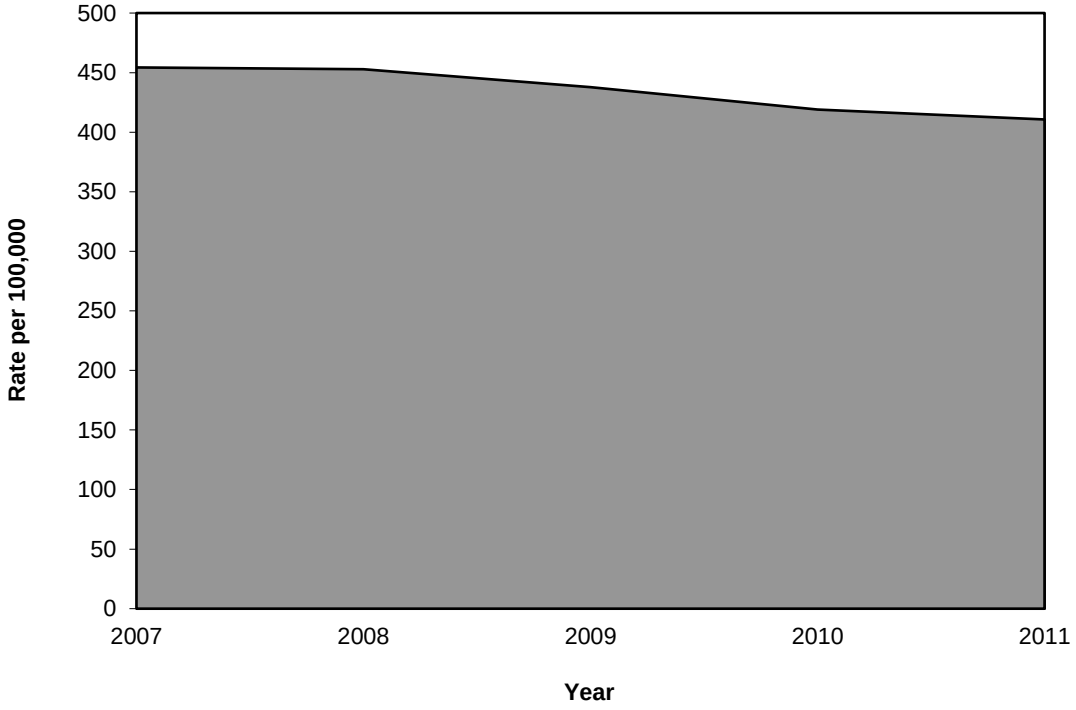
Regional Trends

- Southwest Health District had the highest age-adjusted falls hospitalization rates, while the North Central and South Central had the lowest rates.
- Nineteen counties had age-adjusted falls hospitalization rates for 2007 – 2011 that were significantly higher than the comparable state rate.

INJURY HOSPITALIZATIONS: UNINTENTIONAL FALLS

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND
AGE-ADJUSTED HOSPITALIZATION RATES
PENNSYLVANIA RESIDENTS, 2007-2011

Year	No.	Rate
2007	66,488	454.3
2008	69,036	452.9
2009	69,050	437.7
2010	67,061	419.0
2011	66,655	410.7



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2007-2011

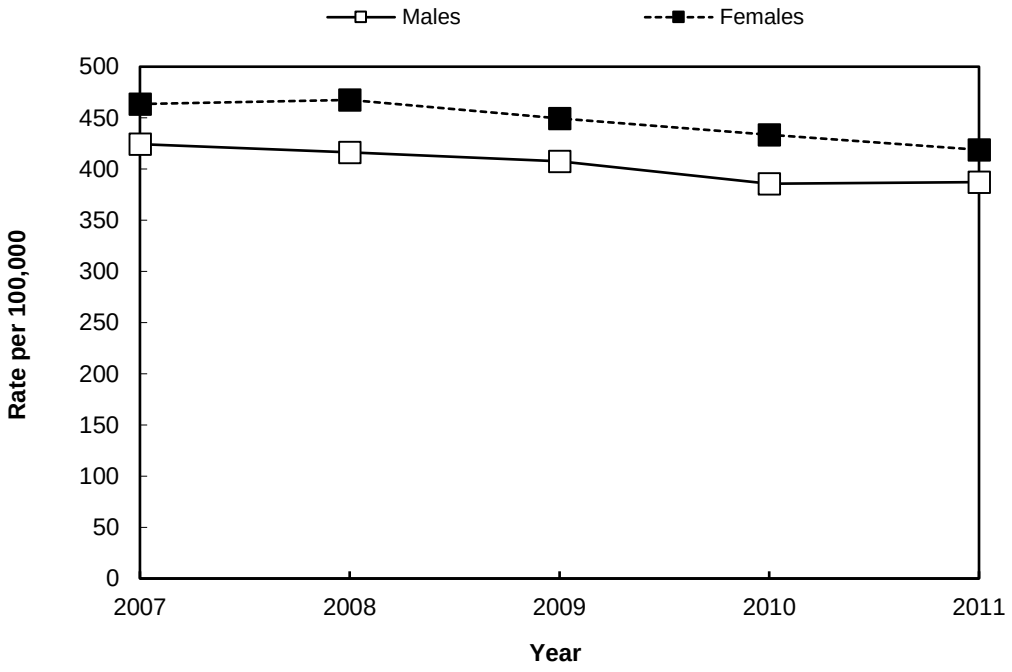
Year	Northwest	North Central	Northeast	Southeast	South Central	Southwest
2007	430.5	352.2	488.7	476.5	356.3	483.6
2008	446.3	350.3	486.0	471.4	349.6	484.7
2009	412.5	337.0	439.9	471.0	353.3	460.9
2010	400.5	324.7	416.1	450.0	315.5	456.5
2011	377.9	320.7	425.0	435.3	317.5	447.3

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2007-2011 based on ICD-9 codes. See Technical Notes.

INJURY HOSPITALIZATIONS: UNINTENTIONAL FALLS

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX PENNSYLVANIA RESIDENTS, 2007-2011

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2007	24,674	424.4	2007	41,808	463.7
2008	25,529	416.3	2008	43,496	467.6
2009	26,109	407.7	2009	42,927	449.4
2010	25,205	385.7	2010	41,846	433.4
2011	25,779	387.3	2011	40,854	418.9



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2007-2011

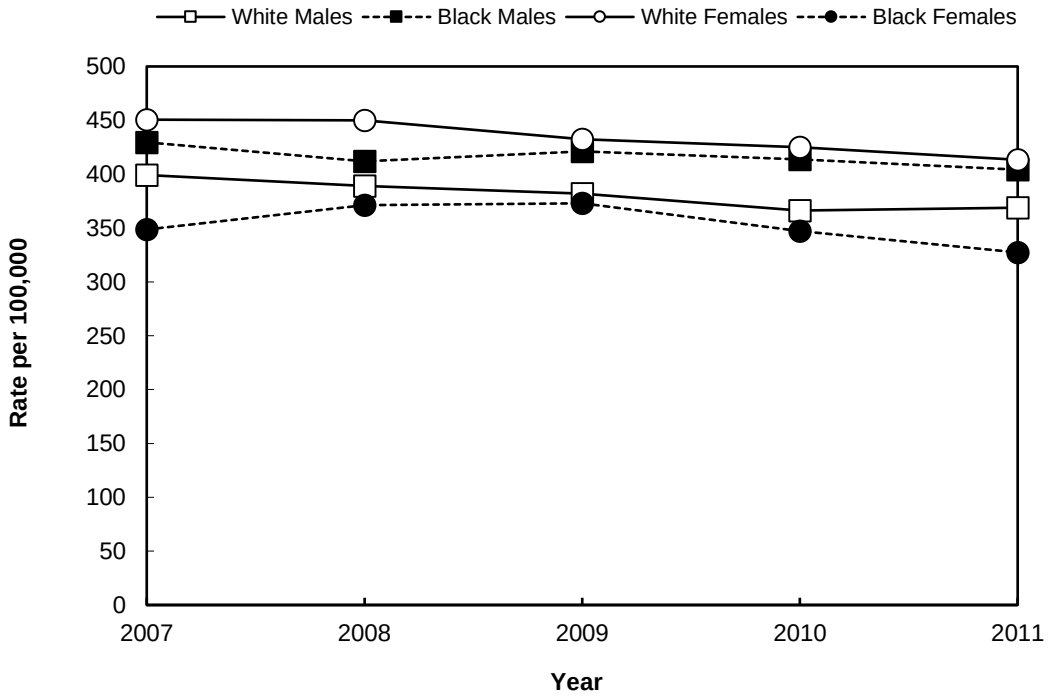
Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2007	445.5	373.0	2007	474.6	435.4
2008	432.0	377.6	2008	476.8	443.5
2009	426.6	360.9	2009	461.9	416.6
2010	404.3	340.7	2010	444.9	403.0
2011	409.0	334.7	2011	430.5	388.7

NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania. Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY HOSPITALIZATIONS: UNINTENTIONAL FALLS

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX AND RACE OR ETHNICITY PENNSYLVANIA RESIDENTS, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	20,871	2,056	37,283	2,332	562	602
2008	21,528	2,067	38,439	2,557	647	658
2009	22,088	2,150	37,921	2,660	646	685
2010	21,341	2,175	37,294	2,462	594	615
2011	22,159	2,213	36,887	2,410	416	402



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	399.2	429.5	450.6	348.6	407.0	425.3
2008	389.0	411.8	450.0	371.4	412.5	430.9
2009	381.8	421.0	432.5	372.9	379.7	417.5
2010	366.2	413.6	425.0	347.1	369.8	389.2
2011	369.0	404.2	413.4	327.3	217.6	220.1

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: UNINTENTIONAL FALLS

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH AVERAGE ANNUAL HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2007-2011

AGE	PA TOTAL		MALE		FEMALE			URBAN		RURAL		
GROUP	No.	Rate	No.	Rate	No.	Rate		No.	Rate	No.	Rate	
TOTAL	**338,290**	**537.6**	**127,296**	**415.7**	**210,931**	**652.8**		**249,363**	**545.5**	**88,927**	**516.5**	
< 5	2,333	63.6	1,408	75.0	919	51.2	*	1,870	67.9	463	50.6	*
5-9	2,124	56.2	1,287	66.7	836	45.2	*	1,653	59.0	471	48.3	*
10-14	2,269	57.0	1,581	77.7	687	35.3	*	1,759	60.0	510	48.6	*
15-19	2,955	64.6	2,077	89.6	877	38.8	*	2,238	67.8	717	56.3	*
20-24	3,391	76.6	2,111	94.0	1,279	58.6	*	2,655	83.1	736	59.6	*
25-29	3,641	95.7	2,179	112.7	1,462	78.1	*	2,871	100.0	770	82.5	*
30-34	3,926	105.5	2,293	122.6	1,631	88.2	*	3,041	110.2	885	92.1	*
35-39	4,987	127.6	2,898	148.9	2,089	106.5	*	3,833	133.7	1,154	110.8	*
40-44	7,279	168.0	4,232	197.1	3,044	139.2	*	5,538	175.0	1,741	149.1	*
45-49	10,993	237.1	6,360	278.4	4,629	196.9	*	8,473	251.2	2,520	199.5	*
50-54	14,700	316.4	7,797	342.3	6,902	291.6	*	11,093	330.4	3,607	280.1	*
55-59	16,855	401.7	8,304	407.0	8,547	396.5		12,645	421.2	4,210	352.6	*
60-64	19,204	539.2	8,803	516.4	10,394	559.7	*	14,118	560.5	5,086	487.7	*
65-69	20,812	766.9	8,755	696.5	12,055	827.5	*	14,942	790.6	5,870	712.4	*
70-74	25,800	1,174.4	9,926	1,019.1	15,871	1,297.8	*	18,606	1,216.9	7,194	1,077.0	*
75-79	38,784	2,116.3	13,491	1,772.9	25,286	2,359.5	*	28,059	2,179.5	10,725	1,967.1	*
80-84	56,596	3,857.2	17,703	3,153.3	38,882	4,292.3	*	41,134	3,944.1	15,462	3,643.6	*
85 +	101,641	6,882.6	26,091	5,703.0	75,541	7,411.2	*	74,835	7,055.1	26,806	6,442.8	*

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

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.
Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY HOSPITALIZATIONS: UNINTENTIONAL FALLS

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH AVERAGE ANNUAL HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2007-2011

AGE	WHITE MALE		BLACK MALE			WHITE FEMALE		BLACK FEMALE			HISPANICS	
GROUP	No.	Rate	No.	Rate		No.	Rate	No.	Rate		No.	Rate
TOTAL	**107,987**	**416.5**	**10,661**	**326.7**		**187,824**	**689.2**	**12,421**	**346.2**		**5,827**	**178.4**
< 5	850	57.9	266	101.0	*	547	39.1	182	71.0	*	243	66.2
5-9	862	56.2	216	82.9	*	584	40.0	110	43.6		165	50.0
10-14	1,119	68.6	267	95.8	*	506	32.5	102	38.1		114	37.2
15-19	1,580	84.7	272	85.0		613	33.6	158	51.1	*	110	34.1
20-24	1,546	85.3	303	99.5	*	832	47.4	272	90.3	*	192	64.7
25-29	1,615	102.8	300	120.4	*	993	66.0	294	117.0	*	191	70.3
30-34	1,640	106.8	314	141.7	*	1,147	76.6	306	130.7	*	226	88.6
35-39	2,135	131.3	444	210.3	*	1,542	95.2	339	147.1	*	245	102.1
40-44	3,222	175.8	584	267.7	*	2,289	124.2	508	209.0	*	267	124.1
45-49	4,810	242.2	988	456.0	*	3,574	177.2	696	282.2	*	337	179.0
50-54	6,108	303.6	1,094	555.4	*	5,604	272.1	879	378.1	*	356	248.8
55-59	6,650	364.5	1,073	673.9	*	7,122	375.5	924	470.7	*	318	293.5
60-64	7,217	468.6	1,010	837.9	*	8,840	535.7	916	581.6	*	372	486.0
65-69	7,389	644.4	779	963.5	*	10,542	804.6	834	735.8	*	399	763.9
70-74	8,579	961.9	740	1,203.7	*	14,134	1,278.5	923	984.1	*	421	1,172.4
75-79	12,107	1,721.9	699	1,563.0	*	22,893	2,340.8	1,191	1,538.3	*	486	1,916.6
80-84	16,251	3,107.1	638	2,083.9	*	35,873	4,301.9	1,352	2,228.3	*	530	3,225.4
85 +	24,307	5,710.0	674	2,617.8	*	70,189	7,436.0	2,435	3,801.8	*	855	5,504.1

* 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: UNINTENTIONAL FALLS

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH AVERAGE ANNUAL HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2007-2011

AGE	NORTHWEST			NORTH CENTRAL			NORTHEAST			SOUTHEAST			SOUTH CENTRAL			SOUTHWEST		
GROUP	No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate	
TOTAL	**25,193**	**544.0**		**14,259**	**413.8**		**45,153**	**571.4**		**132,521**	**526.8**		**33,713**	**407.4**		**87,451**	**646.7**	
< 5	112	44.1	-	101	56.6		301	69.7		1,247	77.7	+	213	42.9	-	337	47.8	-
5-9	113	42.1	-	97	53.0		299	65.1	+	1,086	67.2	+	180	35.2	-	336	45.1	-
10-14	132	45.4	-	69	36.0	-	338	67.3	+	1,095	65.7	+	159	29.9	-	441	55.1	
15-19	194	56.3	-	105	34.3	-	449	78.2	+	1,343	72.6	+	245	42.8	-	585	62.9	
20-24	212	67.5		129	35.1	-	385	72.3		1,639	91.1	+	280	53.4	-	711	79.6	
25-29	201	77.4	-	130	69.7	-	444	99.1		1,695	103.2	+	130	26.4	-	874	112.5	+
30-34	268	102.6		123	65.3	-	482	107.7		1,770	113.1	+	218	44.2	-	928	121.1	+
35-39	336	121.5		167	84.2	-	622	127.9		2,215	137.5	+	450	85.4	-	1,165	143.9	+
40-44	490	158.8		223	102.1	-	928	168.6		3,199	181.9	+	655	112.4	-	1,765	193.0	+
45-49	760	226.8		365	154.7	-	1,343	226.7		4,834	261.4	+	950	153.8	-	2,719	270.2	+
50-54	1,039	300.3		530	221.8	-	1,729	291.6	-	6,347	351.9	+	1,325	216.5	-	3,726	353.9	+
55-59	1,268	396.8		638	288.5	-	1,988	369.1	-	7,131	449.7	+	1,520	270.2	-	4,300	444.0	+
60-64	1,384	503.7	-	759	393.3	-	2,503	527.2		7,698	585.2	+	2,020	418.0	-	4,846	590.8	+
65-69	1,718	795.2		971	622.0	-	2,793	761.7		8,046	818.0	+	2,150	572.6	-	5,157	837.1	+
70-74	2,018	1,126.9		1,177	922.8	-	3,457	1,193.0		9,705	1,234.9	+	2,888	971.7	-	6,587	1,272.8	+
75-79	3,025	2,031.8	-	1,815	1,754.5	-	5,316	2,237.3	+	14,532	2,210.9	+	4,100	1,703.8	-	10,079	2,266.5	+
80-84	4,412	3,733.0	-	2,541	3,194.2	-	7,717	4,080.7	+	20,552	3,923.9	+	6,020	3,330.8	-	15,497	4,122.5	+
85 +	7,511	6,480.0	-	4,324	5,564.6	-	14,059	7,473.3	+	38,387	7,117.5	+	10,210	5,808.4	-	27,398	7,211.3	+

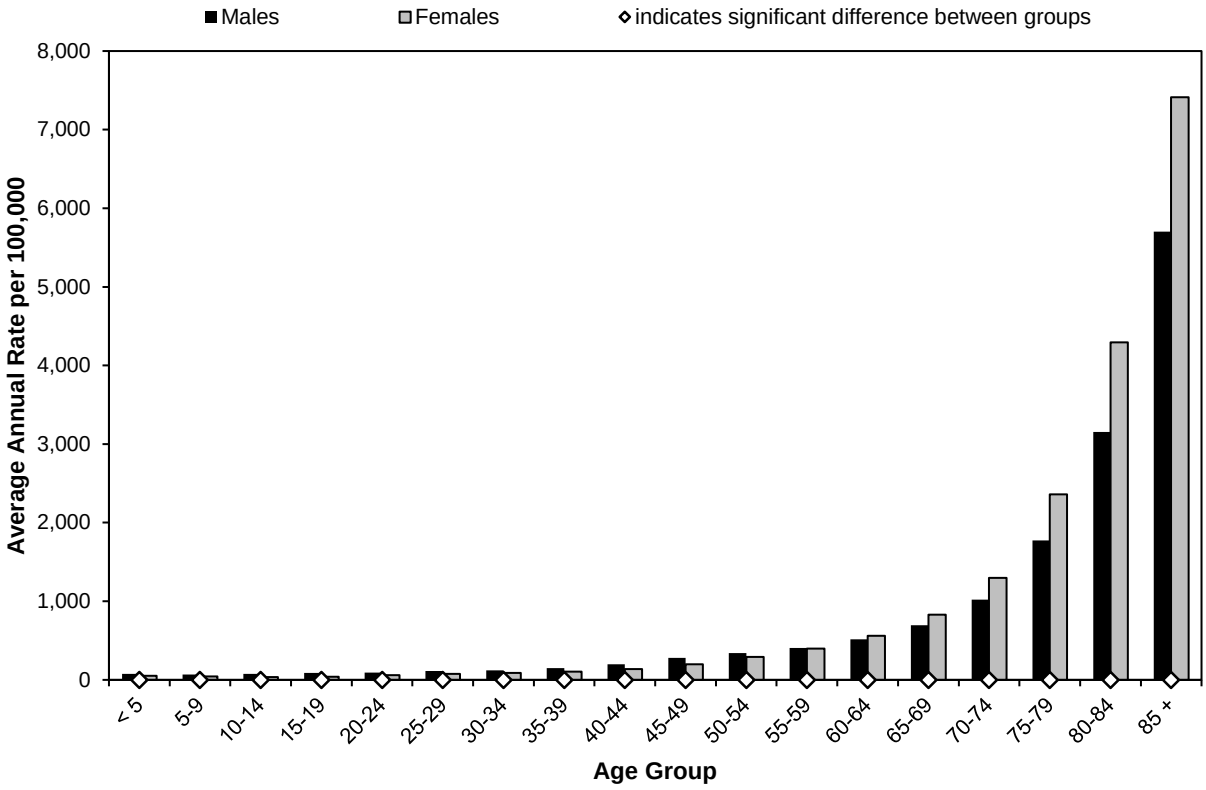
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

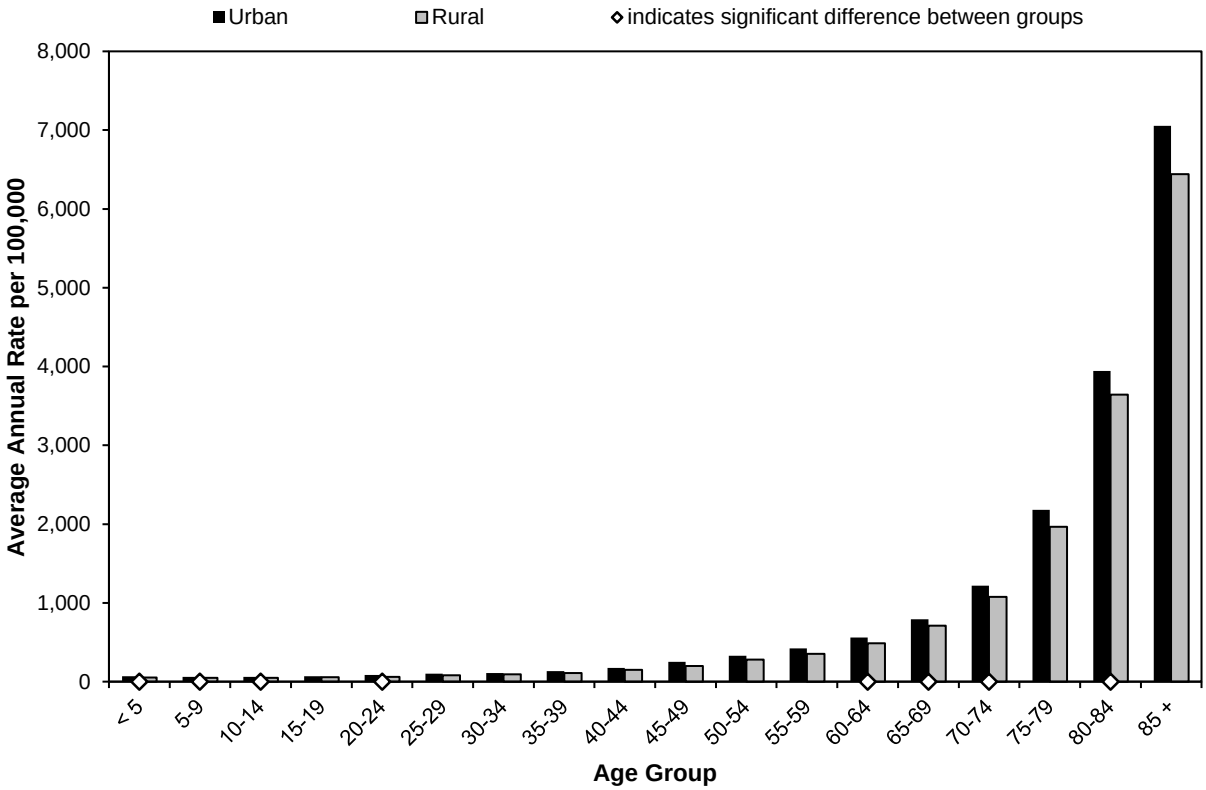
NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total.

INJURY HOSPITALIZATIONS: UNINTENTIONAL FALLS

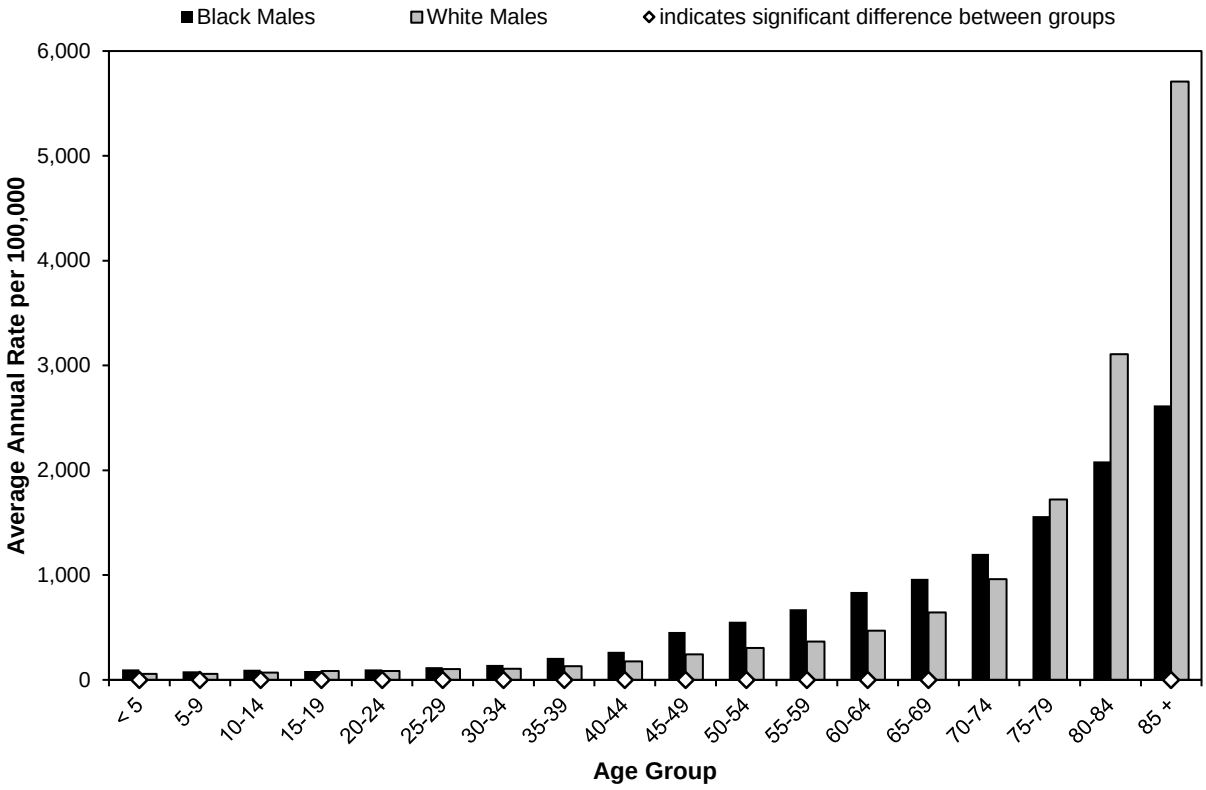
AVERAGE ANNUAL HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2007-2011

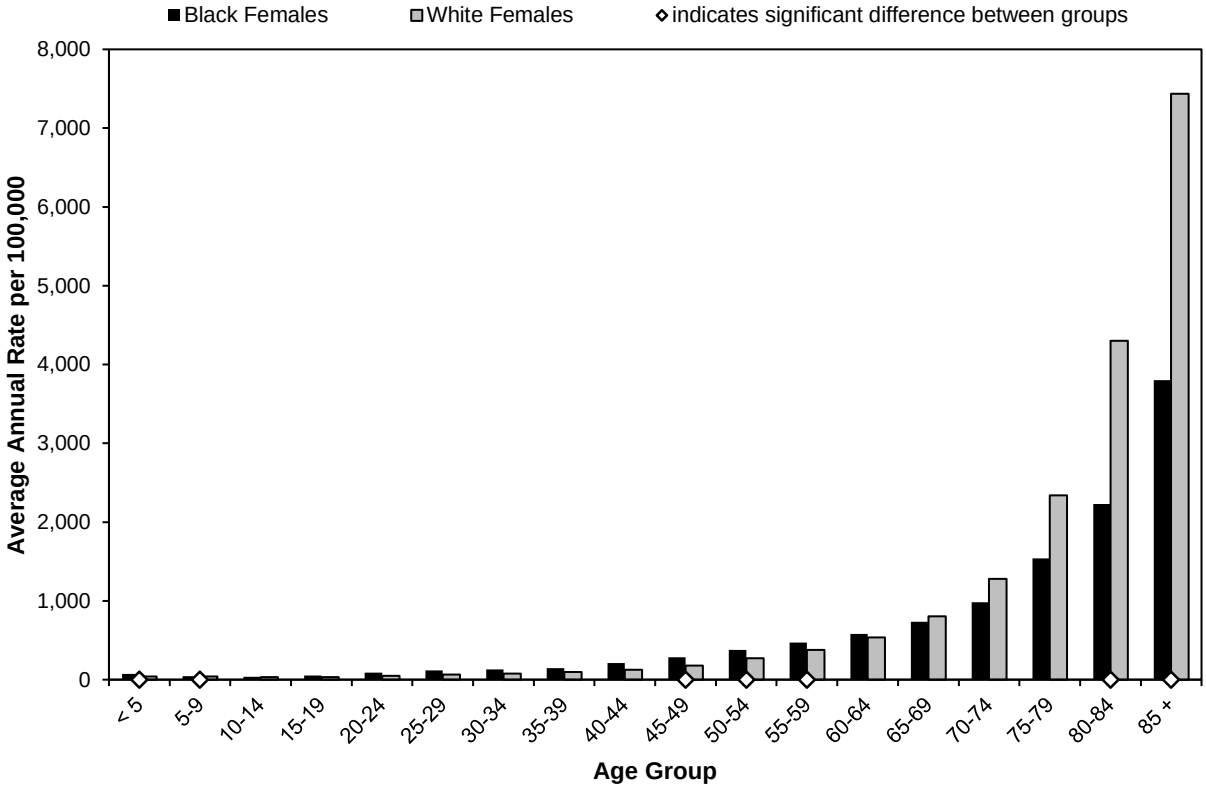




INJURY HOSPITALIZATIONS: UNINTENTIONAL FALLS

AVERAGE ANNUAL HOSPITALIZATION RATES BY SEX AND RACE
PENNSYLVANIA RESIDENTS, 2007-2011





INJURY HOSPITALIZATIONS: UNINTENTIONAL FALLS

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2007-2011

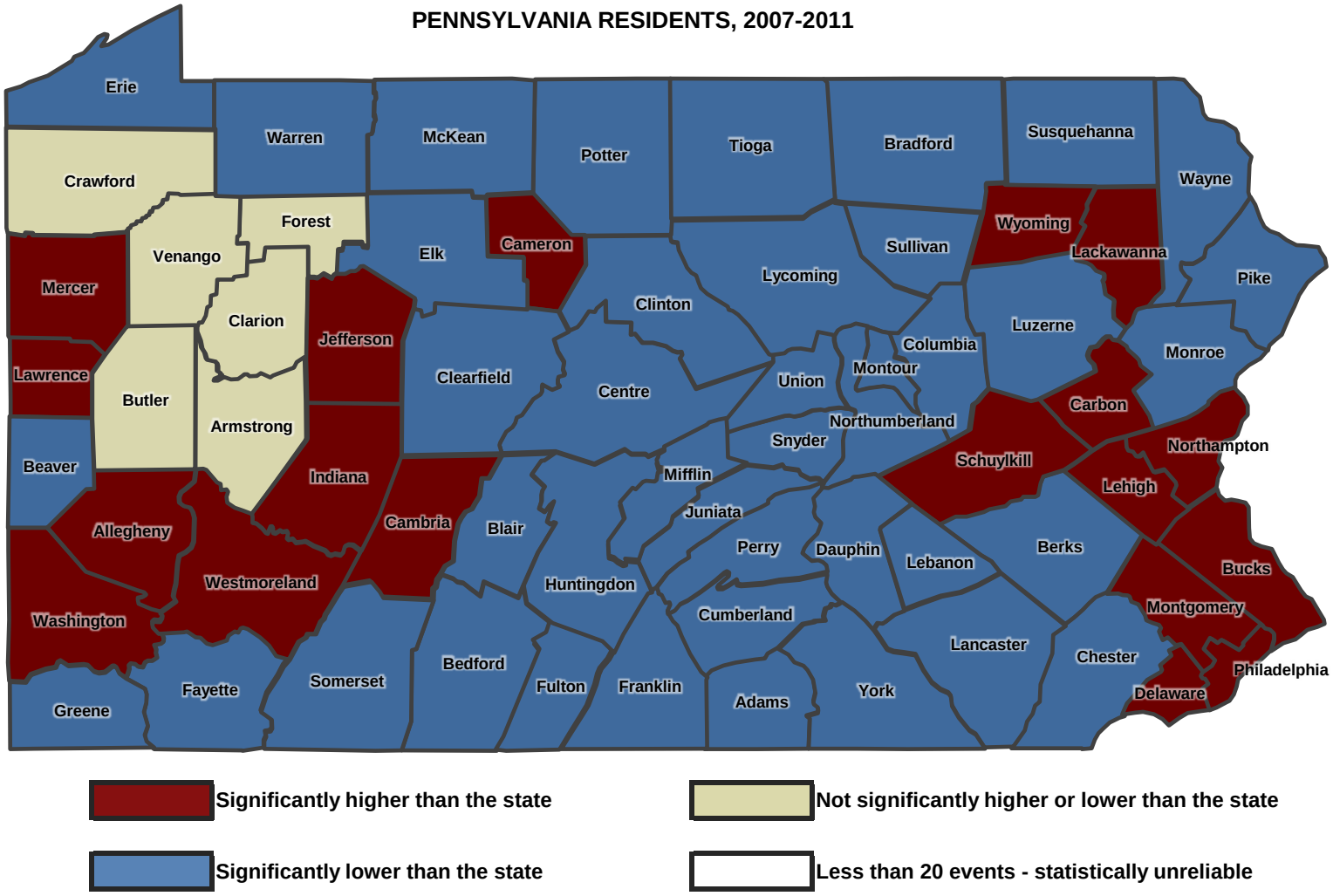
District/County	No.	Rate	CI (95%)		District/County	No.	Rate	CI (95%)	
Northeast	45,153	449.2	445.0-453.3	+	**Southeast**	132,521	459.8	457.3-462.3	+
Carbon	1,968	474.4	453.4-495.3	+	Berks	9,795	410.7	402.5-418.8	-
Lackawanna	7,005	474.1	463.0-485.2	+	Bucks	15,984	450.1	443.1-457.1	+
Lehigh	9,500	454.7	445.6-463.9	+	Chester	10,110	396.8	389.0-404.5	-
Luzerne	9,504	418.0	409.6-426.4	-	Delaware	19,041	568.4	560.3-576.5	+
Monroe	3,190	398.8	385.0-412.6	-	Lancaster	10,902	359.6	352.9-366.4	-
Northampton	10,367	561.9	551.1-572.7	+	Montgomery	21,626	440.8	434.9-446.7	+
Pike	591	175.1	161.0-189.3	-	Philadelphia	40,155	508.5	503.5-513.5	+
Susquehanna	933	337.3	315.7-359.0	-	Schuylkill	4,908	465.1	452.1-478.1	+
Wayne	1,308	373.8	353.6-394.1	-					
Wyoming	787	488.1	454.0-522.2	+					
North Central	14,259	335.7	330.1-341.2	-	**South Central**	33,713	337.2	333.6-340.8	-
Bradford	1,439	359.9	341.3-378.5	-	Adams	1,707	285.2	271.7-298.7	-
Centre	2,514	372.7	358.1-387.3	-	Bedford	923	274.1	256.4-291.7	-
Clinton	812	332.4	309.5-355.3	-	Blair	3,440	394.3	381.1-407.5	-
Columbia	1,587	384.7	365.8-403.6	-	Cumberland	5,248	365.3	355.4-375.2	-
Lycoming	2,635	345.6	332.4-358.8	-	Dauphin	4,896	329.7	320.4-338.9	-
Montour	399	318.2	286.9-349.4	-	Franklin	3,163	336.2	324.4-347.9	-
Northumberland	2,385	357.5	343.1-371.8	-	Fulton	310	340.9	302.9-378.8	-
Potter	369	297.1	266.8-327.4	-	Huntingdon	840	306.7	286.0-327.5	-
Snyder	623	271.8	250.4-293.1	-	Juniata	470	307.8	279.9-335.6	-
Sullivan	172	325.1	276.5-373.7	-	Lebanon	2,286	265.2	254.3-276.1	-
Tioga	626	232.9	214.6-251.1	-	Mifflin	1,231	396.3	374.1-418.4	-
Union	698	269.0	249.0-288.9	-	Perry	839	352.8	328.9-376.7	-
					York	8,360	348.6	341.1-356.1	-
Northwest	25,193	412.0	406.9-417.1	-	**Southwest**	87,451	465.5	462.5-468.6	+
Cameron	210	511.2	442.0-580.3	+	Allegheny	41,701	495.7	491.0-500.5	+
Clarion	1,072	431.4	405.5-457.2		Armstrong	2,104	429.6	411.2-447.9	
Clearfield	2,127	386.3	369.9-402.7	-	Beaver	4,808	389.1	378.1-400.1	-
Crawford	2,423	430.8	413.7-448.0		Butler	4,798	423.1	411.1-435.1	
Elk	952	405.0	379.3-430.7	-	Cambria	5,372	496.6	483.3-509.9	+
Erie	5,890	355.3	346.2-364.4	-	Fayette	4,040	413.9	401.2-426.7	-
Forest	186	418.5	358.3-478.6		Greene	700	288.5	267.1-309.9	-
Jefferson	1,441	469.2	445.0-493.4	+	Indiana	2,714	486.2	467.9-504.5	+
Lawrence	3,252	478.9	462.4-495.4	+	Somerset	2,327	404.2	387.8-420.6	-
McKean	1,082	371.1	349.0-393.2	-	Washington	6,702	475.1	463.7-486.4	+
Mercer	4,016	480.9	466.0-495.7	+	Westmoreland	12,185	463.0	454.8-471.2	+
Venango	1,599	435.3	414.0-456.6						
Warren	943	328.4	307.4-349.3	-	Pennsylvania	338,290	433.7	432.3-435.2	

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: UNINTENTIONAL FALLS

AGE-ADJUSTED HOSPITALIZATION RATES BY COUNTY, WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE PENNSYLVANIA RESIDENTS, 2007-2011



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

INJURY HOSPITALIZATIONS: UNINTENTIONAL FALLS

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AVERAGE ANNUAL HOSPITALIZATION RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2007-2011

Geography	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	127,296	210,931	**338,227**	9,703	61.0	10,984	91.1	23,365	184.0	50,906	398.9	243,332	2472.7
Northeast	16,693	28,439	**45,132**	1,387	70.8	1,311	92.0	2,893	178.9	6,220	377.0	33,342	2573.1
Carbon	767	1,201	1,968	62	86.6	48	86.7	141	210.5	297	416.1	1,420	2470.5
Lackawanna	2,386	4,617	7,003	188	74.9	215	107.8	426	208.3	962	443.7	5214	2752.0
Lehigh	3,724	5,776	9,500	328	72.1	317	97.1	593	167.5	1,275	371.8	6,987	2657.0
Luzerne	3,116	6,370	9,486	191	52.7	227	78.7	551	171.6	1267	386.7	7268	2524.9
Monroe	1,358	1,832	3,190	153	67.4	115	78.8	266	146.5	534	301.0	2,122	1964.9
Northampton	3,962	6,405	10,367	337	88.5	302	111.6	659	216.8	1299	429.4	7770	3357.3
Pike	266	325	591	39	55.3	24	56.8	56	88.9	127	188.0	345	718.1
Susquehanna	321	612	933	31	63.1	17	51.8	52	126.5	123	245.1	710	1893.4
Wayne	504	803	1,307	37	67.6	34	84.4	89	168.5	217	344.3	931	1852.3
Wyoming	289	498	787	21	58.8	12	51.3	60	216.0	119	388.1	575	2519.5
Southeast	51,915	80,597	**132,512**	4,771	71.1	5,104	100.4	10,248	198.7	21,176	436.3	91,222	2568.9
Berks	3,895	5,900	9,795	332	59.3	299	79.8	657	156.3	1,376	348.3	7,131	2388.5
Bucks	6,218	9,766	15,984	591	75.1	476	93.3	1106	160.5	2463	361.7	11348	2468.3
Chester	3,705	6,405	10,110	277	40.0	324	73.8	708	129.9	1,625	325.1	7,176	2215.6
Delaware	7,318	11,723	19,041	597	80.2	617	114.6	1352	242.1	2930	533.1	13545	3382.3
Lancaster	4,125	6,777	10,902	410	57.1	344	70.5	651	130.7	1,380	284.2	8,117	2081.1
Montgomery	8,047	13,577	21,624	736	73.3	612	86.7	1251	146.1	2888	359.8	16139	2669.8
Philadelphia	16,816	23,339	40,155	1,738	84.9	2,284	120.2	4,195	292.7	7,756	603.3	24,182	2575.0
Schuylkill	1,791	3,110	4,901	90	55.9	148	114.7	328	207.3	758	492.0	3584	2659.6

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	127,296	210,931	**338,227**	9,703	61.0	10,984	91.1	23,365	184.0	50,906	398.9	243,332	2,472.7
North Central	5,283	8,946	**14,229**	397	46.8	402	53.5	809	125.3	1,990	295.8		0.0
Bradford	528	910	1,438	47	60.5	39	78.8	91	147.6	228	341.8	1,034	1874.2
Centre	941	1,570	2,511	70	37.6	94	38.6	142	116.1	350	301.8	1858	2143.9
Clinton	290	519	809	19	38.0	21	54.1	32	93.4	101	272.8	639	2013.2
Columbia	572	1,010	1,582	33	39.7	47	66.9	86	144.6	234	362.2	1187	2184.7
Lycoming	957	1,676	2,633	74	52.7	71	63.2	139	123.0	315	260.6	2,036	2099.5
Montour	142	256	398	11	51.2	12	81.7	21	121.5	53	265.1	302	1790.1
Northumberland	915	1,462	2,377	65	61.3	53	67.3	136	145.0	329	328.8	1,802	2063.0
Potter	133	236	369	8	37.5	8	NSR	38	238.4	64	339.0	251	1498.0
Snyder	241	380	621	20	38.5	21	54.5	32	85.3	86	227.0	464	1552.4
Sullivan	64	108	172	5	74.5	7	NSR	23	432.3	65	874.0	72	923.9
Tioga	233	390	623	22	41.5	18	49.1	41	110.0	91	208.7	454	1197.8
Union	267	429	696	23	45.2	11	21.7	28	58.6	74	186.6	562	1705.5
South Central	12,217	21,494	**33,711**	890	42.3	957	63.3	2,151	125.7	4,925	288.9	24,790	1903.7
Adams	629	1,078	1,707	58	44.7	38	42.6	102	97.1	237	227.2	1,272	1600.8
Bedford	322	601	923	17	28.8	24	61.6	56	110.9	150	282.6	676	1450.0
Blair	1,195	2,245	3,440	61	39.9	74	66.0	181	148.9	548	412.1	2,576	2281.2
Cumberland	1,912	3,336	5,248	100	34.9	132	56.5	291	124.2	682	291.4	4043	2185.1
Dauphin	1,790	3,106	4,896	185	54.7	177	71.4	383	140.1	822	295.7	3,329	1804.6
Franklin	1,121	2,042	3,163	75	38.6	63	48.5	161	109.8	398	276.0	2466	1971.9
Fulton	96	214	310	16	87.4	12	97.5	46	298.9	104	681.0	132	1020.4
Huntingdon	338	502	840	22	42.1	31	70.1	48	100.6	109	232.4	630	1674.7
Juniata	179	291	470	15	48.4	8	NSR	24	100.4	48	197.4	375	1809.1
Lebanon	800	1,486	2,286	66	39.5	54	45.0	121	93.5	291	219.5	1754	1544.4
Mifflin	422	807	1,229	28	47.3	42	111.9	74	162.6	192	411.2	895	2060.8
Perry	334	505	839	42	71.1	32	81.9	67	138.7	140	277.9	558	1768.9
York	3,079	5,281	8,360	205	36.8	270	70.0	597	127.3	1,204	272.3	6,084	1970.4

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	127,296	210,931	**338,227**	9,703	61.0	10,984	91.1	23,365	184.0	50,906	398.9	243,332	2,472.7
Northwest	9,123	16,069	**25,192**	559	48.9	697	84.1	1,615	179.0	3,723	385.3	18,599	2364.7
Cameron	80	130	210	8	NSR	10	281.7	27	577.2	29	459.6	136	2546.3
Clarion	411	661	1,072	21	42.1	41	101.0	71	199.0	157	398.8	782	2327.7
Clearfield	781	1,345	2,126	56	63.0	66	91.5	150	168.4	334	385.7	1,521	2091.8
Crawford	913	1,510	2,423	47	41.2	58	76.7	137	162.5	400	425.3	1781	2404.8
Elk	349	603	952	21	57.5	21	91.5	64	187.5	121	340.4	725	2387.8
Erie	2,125	3,765	5,890	137	37.2	192	67.9	438	163.1	917	331.5	4206	2048.6
Forest	83	103	186	10	177.0	17	173.0	31	432.5	67	925.3	61	911.8
Jefferson	562	879	1,441	38	70.5	58	154.6	92	210.0	163	338.8	1090	2637.2
Lawrence	1,087	2,165	3,252	59	54.0	69	93.7	161	186.1	417	428.1	2,546	2991.5
McKean	385	697	1,082	24	45.6	20	51.9	52	116.9	143	325.7	843	2275.8
Mercer	1,362	2,654	4,016	83	57.3	77	78.9	239	215.5	557	460.3	3,060	2862.3
Venango	609	990	1,599	40	61.1	44	102.2	101	193.6	267	426.3	1147	2331.0
Warren	376	567	943	15	31.7	24	76.1	52	128.5	151	317.7	701	1804.1
Southwest	32,065	55,386	**87,451**	1,699	54.3	2,513	102.1	5,649	212.0	12,872	441.6	64,718	2753.2
Allegheny	15,341	26,360	41,701	784	55.5	1,284	106.3	2,817	237.9	6,301	491.0	30,515	2973.5
Armstrong	791	1,313	2,104	48	60.2	61	115.8	112	162.0	313	406.4	1570	2454.2
Beaver	1,689	3,119	4,808	106	54.2	130	91.9	298	176.9	714	373.7	3,560	2243.0
Butler	1,787	3,011	4,798	113	47.8	138	88.7	304	156.4	631	325.3	3612	2562.7
Cambria	1,853	3,519	5,372	93	57.3	133	106.9	275	198.9	760	483.9	4,111	3037.0
Fayette	1,513	2,527	4,040	84	53.3	134	115.2	309	218.7	653	420.4	2860	2299.3
Greene	255	445	700	15	34.2	21	56.2	39	96.6	102	241.2	523	1743.5
Indiana	974	1,740	2,714	51	45.5	82	85.8	159	209.1	365	418.1	2057	2924.1
Somerset	929	1,398	2,327	40	48.7	45	67.8	118	147.4	326	384.8	1,798	2457.1
Washington	2,458	4,244	6,702	153	62.7	174	98.2	468	227.1	1003	438.8	4904	2681.0
Westmoreland	4,475	7,710	12,185	212	52.4	311	108.4	750	204.6	1,704	411.4	9,208	2672.2

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 HOSPITALIZATIONS: UNINTENTIONAL FALLS

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

BLACK POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	3,353	427.4	412.9-441.9
Chester	393	287.4	259.0-315.8
Dauphin	534	266.6	244.0-289.3
Delaware	1,712	413.4	393.8-432.9
Montgomery	989	328.5	308.0-349.0
Philadelphia	13,497	423.5	416.4-430.7
Pennsylvania	23,082	383.7	378.8-388.7

WHITE POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	37,305	494.1	489.1-499.1
Chester	9,314	397.3	389.2-405.4
Dauphin	4,183	329.8	319.8-339.8
Delaware	16,630	581.6	572.8-590.5
Montgomery	19,040	429.7	423.6-435.8
Philadelphia	22,624	514.9	508.2-521.7
Pennsylvania	295,871	416.3	414.8-417.8

HISPANIC POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Berks	422	301.7	272.9-330.5
Lancaster	118	134.8	110.4-159.1
Lehigh	339	237.9	212.6-263.2
Philadelphia	1,822	333	318.0-348.6
Pennsylvania	5,829	366.6	357.2-376.0

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL HOSPITALIZATION RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

Select Counties		Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+	
County and Race		Cty. Pop.	Male	Female	All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Allegheny	Black	13.4%	1,496	1,857	**3,353**	8.0%	214	79.2	248	142.9	471	310.8	914	679.1	1,506	1,677.4
	White	82.4%	13,368	23,937	**37,305**	89.5%	521	48.5	962	103.9	2,226	218.9	5,225	478.5	28,371	3,086.4
Chester	Black	6.2%	166	227	**393**	3.9%	25	50.3	25	71.1	56	188.7	77	316.7	210	1,340.9
	White	88.3%	3,353	5,961	**9,314**	92.1%	223	37.6	255	67.7	592	121.7	1,480	333.5	6,764	2,326.7
Dauphin	Black	18.1%	236	298	**534**	10.9%	47	58.0	45	93.6	88	181.1	150	387.3	204	998.0
	White	75.8%	1,479	2,704	**4,183**	85.4%	111	49.7	116	66.0	262	122.5	641	288.1	3,053	1,954.6
Delaware	Black	19.2%	778	934	**1,712**	9.0%	135	75.2	133	103.4	277	249.8	424	559.5	743	1,836.0
	White	74.4%	6,216	10,414	**16,630**	87.3%	412	81.5	446	121.1	988	236.6	2,370	544.4	12,414	3,599.5
Montgomery	Black	8.8%	452	537	**989**	4.6%	56	55.5	57	75.4	121	151.3	241	413.2	514	1,535.8
	White	83.2%	6,926	12,112	**19,038**	88.0%	572	71.5	473	85.0	999	140.7	2,408	356.5	14,588	2,717.2
Philadelphia	Black	45.1%	6,265	7,232	**13,497**	33.6%	840	78.7	1,022	137.1	2,123	323.7	3,429	619.4	6,083	1,682.5
	White	45.3%	8,556	14,068	**22,624**	56.3%	385	50.7	818	94.2	1,519	235.5	3,544	590.8	16,358	3,087.2
Pennsylvania	Black	10.9%	10,661	12,421	**23,082**	6.8%	1,573	71.2	1,789	114.6	3,559	260.5	5,896	554.7	10,265	1,572.7
	White	84.5%	107,987	187,824	**295,811**	87.5%	6,669	52.4	7,774	80.3	17,579	160.9	41,553	378.3	222,296	2,508.4

INJURY HOSPITALIZATIONS: ALL POISONING

In 2011, among Pennsylvania residents, there were 16,956 hospitalizations due to poisoning. On average, one resident was hospitalized every 31 minutes.

Injury Definition

Poisoning includes:

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

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

HIGHLIGHTS

- Age-adjusted rates generally **decreased** from 2007 to 2011 but with a slight increase from 2010 to 2011.
- Most affected demographic is **black males** ages 40 to 59.
- Of all Pennsylvania counties, **Philadelphia** had the highest rate.

Trends Over Time

- There was a 7 percent decrease in age-adjusted poisoning hospitalization rates from 136.8 hospitalizations per 100,000 population in 2007 to 127.6 hospitalizations in 2010; thereafter, the rates increased by 3 percent to 131.8 hospitalizations per 100,000 population in 2011 resulting in a net 4 percent decrease in age-adjusted poisoning hospitalization rate from 2007 to 2011.
- Females generally had higher age-adjusted poisoning hospitalization rates than males during 2007 to 2011.
- Black populations had the highest age-adjusted poisoning hospitalization rates from 2007 to 2011.

Demographic Trends

- Among ages 10 to 49, females had higher poisoning hospitalization rates than males.
- Black males had significantly higher age-adjusted poisoning hospitalization rates than white males at all age groups **except** ages 15 - 29.
- Black females had higher age-adjusted poisoning hospitalization rates than white females at all age groups **except** ages 20 - 29.
- Urban populations had significantly higher age-adjusted poisoning hospitalization rates than rural populations for ages 40 and older.

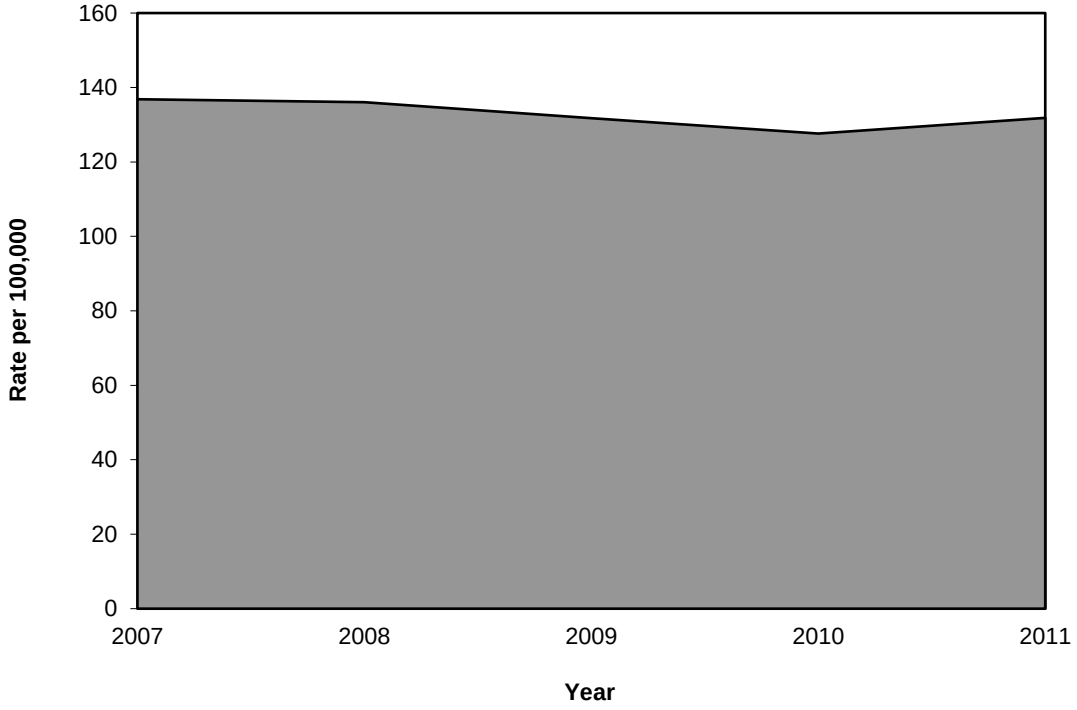
Regional Trends

- The Southeast Health District had the highest age-adjusted poisoning hospitalization rate while the South Central Health District had the lowest rate.
- Sixteen counties had age-adjusted poisoning hospitalization rates during 2007 - 2011 that were significantly higher than the state rate. These are located in all the health districts **except** the South Central.

INJURY HOSPITALIZATIONS: ALL POISONING

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND
AGE-ADJUSTED HOSPITALIZATION RATES
PENNSYLVANIA RESIDENTS, 2007-2011

Year	No.	Rate
2007	16,970	136.8
2008	17,007	136.1
2009	16,691	131.8
2010	16,444	127.6
2011	16,956	131.8



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2007-2011

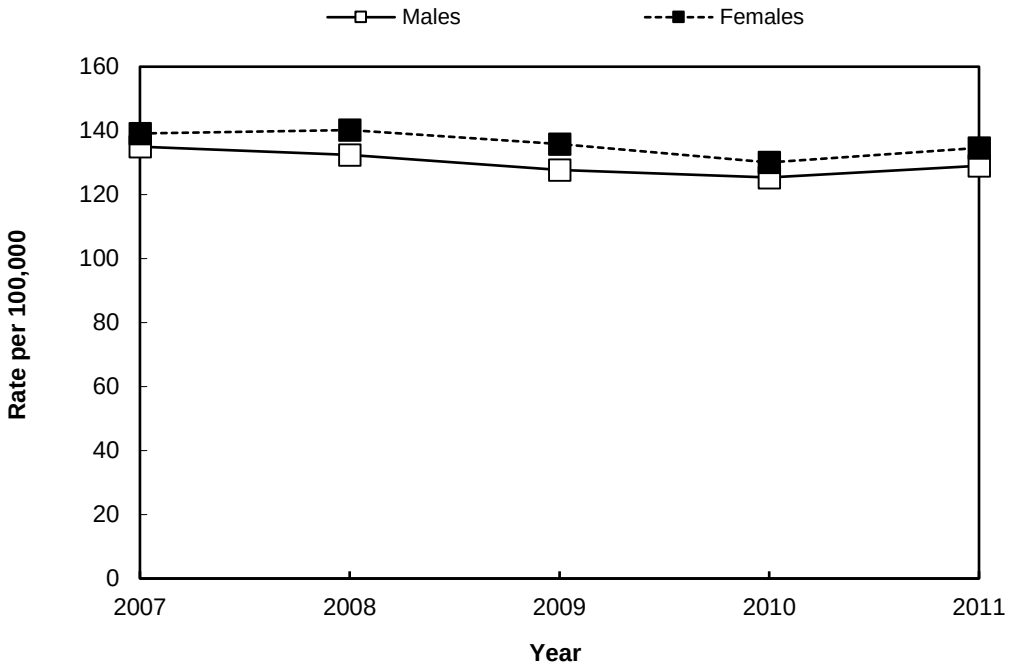
Year	Northwest	North Central	Northeast	Southeast	South Central	Southwest
2007	147.5	105.3	125.8	163.8	98.7	122.6
2008	134.3	109.4	127.4	163.5	98.8	122.1
2009	141.4	100.6	124.1	154.3	97.7	121.5
2010	138.5	105.6	128.7	148.1	93.0	114.6
2011	130.4	110.1	131.8	148.9	107.1	123.9

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2007-2011 based on ICD-9 codes. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL POISONING

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX PENNSYLVANIA RESIDENTS, 2007-2011

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2007	8,181	135.0	2007	8,787	139.2
2008	8,094	132.5	2008	8,910	140.2
2009	7,923	127.7	2009	8,766	135.9
2010	7,913	125.4	2010	8,530	130.1
2011	8,157	129.0	2011	8,796	134.7



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2007-2011

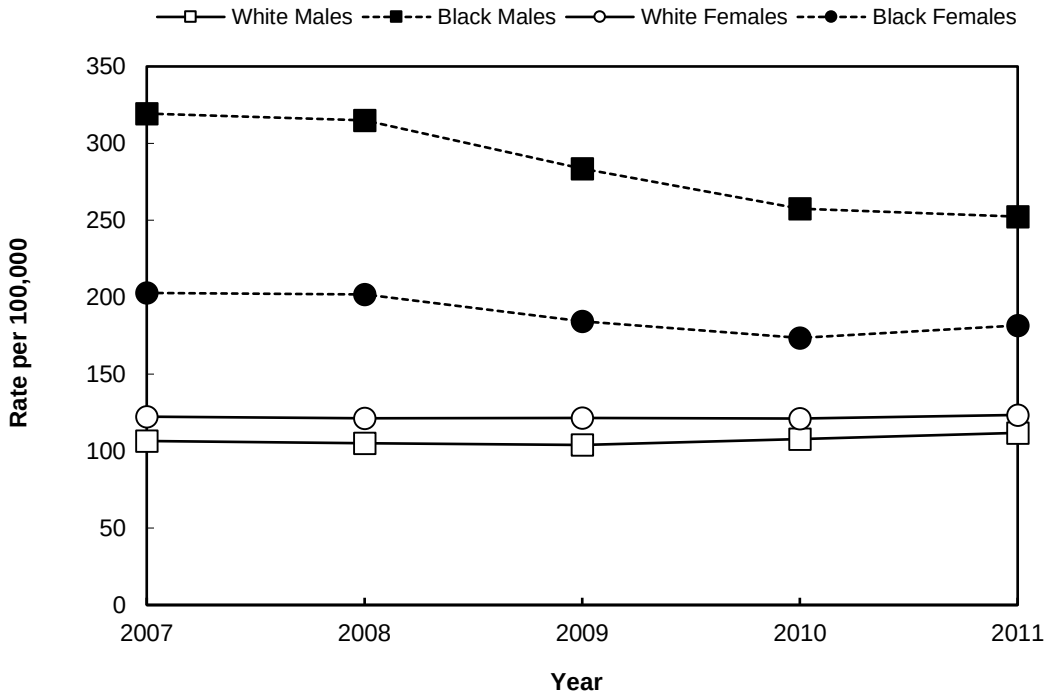
Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2007	147.4	103.3	2007	140.6	135.9
2008	144.4	102.0	2008	140.5	139.9
2009	136.6	105.3	2009	136.3	135.1
2010	134.6	102.4	2010	127.9	137.5
2011	135.7	112.8	2011	134.1	137.3

NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania. Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL POISONING

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX AND RACE OR ETHNICITY PENNSYLVANIA RESIDENTS, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	5,553	1,802	6,618	1,367	420	367
2008	5,531	1,784	6,618	1,376	394	444
2009	5,510	1,661	6,700	1,281	370	380
2010	5,560	1,615	6,502	1,255	380	345
2011	5,917	1,676	6,763	1,356	269	295



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	106.6	319.4	122.3	202.8	168.5	141.8
2008	105.2	315.0	121.4	201.9	159.7	166.7
2009	104.0	283.6	121.5	184.3	142.8	134.5
2010	107.9	257.5	121.2	173.6	122.5	111.8
2011	111.9	252.4	123.5	181.7	78.3	87.7

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 AVERAGE ANNUAL HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2007-2011

AGE	PA TOTAL		MALE		FEMALE			URBAN		RURAL		
GROUP	No.	Rate	No.	Rate	No.	Rate		No.	Rate	No.	Rate	
TOTAL	**84,068**	**133.6**	**40,268**	**131.5**	**43,789**	**135.5**		**63,533**	**139.0**	**20,535**	**119.3**	
< 5	1,039	28.3	592	31.5	447	24.9	*	823	29.9	216	23.6	*
5-9	228	6.0	125	6.5	103	5.6		179	6.4	49	5.0	*
10-14	700	17.6	212	10.4	488	25.1	*	512	17.5	188	17.9	
15-19	5,672	123.9	2,368	102.2	3,304	146.2	*	3,982	120.5	1,690	132.6	*
20-24	7,641	172.5	3,757	167.3	3,883	177.8	*	5,509	172.5	2,132	172.6	
25-29	7,565	198.8	3,676	190.1	3,887	207.7	*	5,535	192.7	2,030	217.5	*
30-34	6,653	178.8	3,290	175.8	3,361	181.7		4,920	178.3	1,733	180.4	
35-39	7,293	186.6	3,401	174.8	3,891	198.3	*	5,329	185.9	1,964	188.5	
40-44	8,932	206.1	4,335	201.9	4,596	210.2		6,962	219.9	1,970	168.7	*
45-49	10,437	225.1	5,161	225.9	5,275	224.3		8,130	241.0	2,307	182.6	*
50-54	9,075	195.4	4,665	204.8	4,408	186.2	*	7,118	212.0	1,957	152.0	*
55-59	5,809	138.4	3,029	148.5	2,780	129.0	*	4,631	154.3	1,178	98.7	*
60-64	3,755	105.4	1,879	110.2	1,875	101.0	*	2,942	116.8	813	78.0	*
65-69	2,406	88.7	1,062	84.5	1,344	92.3	*	1,817	96.1	589	71.5	*
70-74	1,864	84.8	760	78.0	1,104	90.3	*	1,410	92.2	454	68.0	*
75-79	1,747	95.3	708	93.0	1,039	97.0		1,290	100.2	457	83.8	*
80-84	1,617	110.2	650	115.8	967	106.8		1,199	115.0	418	98.5	*
85 +	1,635	110.7	598	130.7	1,037	101.7	*	1,245	117.4	390	93.7	*

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

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.
Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY HOSPITALIZATIONS: ALL POISONING

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH AVERAGE ANNUAL HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2007-2011

AGE	WHITE MALE		BLACK MALE			WHITE FEMALE		BLACK FEMALE			HISPANICS	
GROUP	No.	Rate	No.	Rate		No.	Rate	No.	Rate		No.	Rate
TOTAL	**28,071**	**108.3**	**8,538**	**261.6**		**33,201**	**121.8**	**6,635**	**184.9**		**3,664**	**112.2**
< 5	296	20.1	176	66.8	*	215	15.4	132	51.5	*	94	25.6
5-9	75	4.9	29	11.1	*	39	2.7	32	12.7	*	31	9.4
10-14	126	7.7	37	13.3	*	292	18.8	84	31.3	*	71	23.2
15-19	1,823	97.7	241	75.3	*	2,351	129.0	473	153.1	*	316	97.8
20-24	2,952	163.0	396	130.0	*	2,952	168.1	485	161.0		379	127.8
25-29	2,878	183.2	402	161.4	*	3,024	201.0	455	181.1	*	394	145.1
30-34	2,467	160.7	449	202.7	*	2,537	169.3	449	191.8	*	413	161.9
35-39	2,370	145.8	669	316.9	*	2,939	181.4	599	260.0	*	401	167.2
40-44	2,778	151.6	1,183	542.4	*	3,397	184.3	791	325.4	*	403	187.3
45-49	3,275	164.9	1,493	689.1	*	3,938	195.2	968	392.4	*	390	207.2
50-54	2,868	142.5	1,483	752.9	*	3,330	161.7	811	348.9	*	276	192.9
55-59	1,911	104.7	937	588.5	*	2,110	111.3	491	250.1	*	173	159.7
60-64	1,224	79.5	504	418.1	*	1,475	89.4	284	180.3	*	123	160.7
65-69	762	66.5	227	280.8	*	1,059	80.8	191	168.5	*	70	134.0
70-74	603	67.6	125	203.3	*	906	81.9	125	133.3	*	44	122.5
75-79	587	83.5	74	165.5	*	881	90.1	105	135.6	*	44	173.5
80-84	554	105.9	67	218.8	*	837	100.4	80	131.9	*	24	146.1
85 +	522	122.6	46	178.7	*	919	97.4	80	124.9	*	18	115.9

* 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 POISONING

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH AVERAGE ANNUAL HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2007-2011

AGE	NORTHWEST			NORTH CENTRAL			NORTHEAST			SOUTHEAST			SOUTH CENTRAL			SOUTHWEST		
GROUP	No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate	
TOTAL	**6,314**	**136.3**		**3,651**	**105.9**		**9,997**	**126.5**		**39,667**	**157.7**		**8,137**	**98.3**		**16,302**	**120.6**	
< 5	78	30.7		39	22.0	-	100	23.2	-	577	36.0	+	59	12.0	-	179	25.4	
5-9	13	4.8		12	6.6		23	5.0		123	7.6		6	1.3	-	44	5.9	
10-14	66	22.7	+	35	18.4		111	22.1	+	305	18.3		62	11.8	-	116	14.5	-
15-19	497	144.2	+	329	108.0	-	835	145.5	+	2,355	127.2		601	105.0	-	1,055	113.4	-
20-24	650	207.0	+	412	112.3	-	1,029	193.3	+	3,255	180.9	+	805	153.7	-	1,493	167.2	
25-29	655	252.3	+	380	203.8		950	212.1		3,286	200.1		813	165.3	-	1,481	190.6	
30-34	523	200.3	+	284	151.3	-	874	195.3	+	2,844	181.7		709	143.9	-	1,423	185.7	
35-39	575	207.9	+	312	157.7	-	870	178.9		3,236	200.9	+	796	151.2	-	1,518	187.5	
40-44	598	193.8		347	159.1	-	1,048	190.4	-	4,447	252.9	+	828	142.2	-	1,668	182.4	-
45-49	730	217.8		395	167.6	-	1,081	182.5	-	5,385	291.2	+	956	154.8	-	1,898	188.6	-
50-54	594	171.7	-	309	129.4	-	988	166.6	-	4,774	264.7	+	752	123.0	-	1,658	157.5	-
55-59	380	118.9	-	226	102.3	-	589	109.3	-	3,068	193.5	+	468	83.3	-	1,079	111.4	-
60-64	248	90.3	-	129	66.9	-	432	91.0	-	1,888	143.5	+	372	77.1	-	681	83.0	-
65-69	186	86.1		112	71.8	-	260	70.9	-	1,128	114.7	+	237	63.2	-	478	77.6	-
70-74	134	74.8		108	84.8		208	71.8	-	873	111.1	+	170	57.3	-	366	70.7	-
75-79	139	93.4		69	66.8	-	209	88.0		741	112.7	+	192	80.0	-	394	88.6	
80-84	128	108.3		80	100.7		177	93.6	-	683	130.4	+	147	81.6	-	401	106.7	
85 +	120	103.5		71	91.5	-	213	113.2		699	129.6	+	157	89.5	-	370	97.4	-

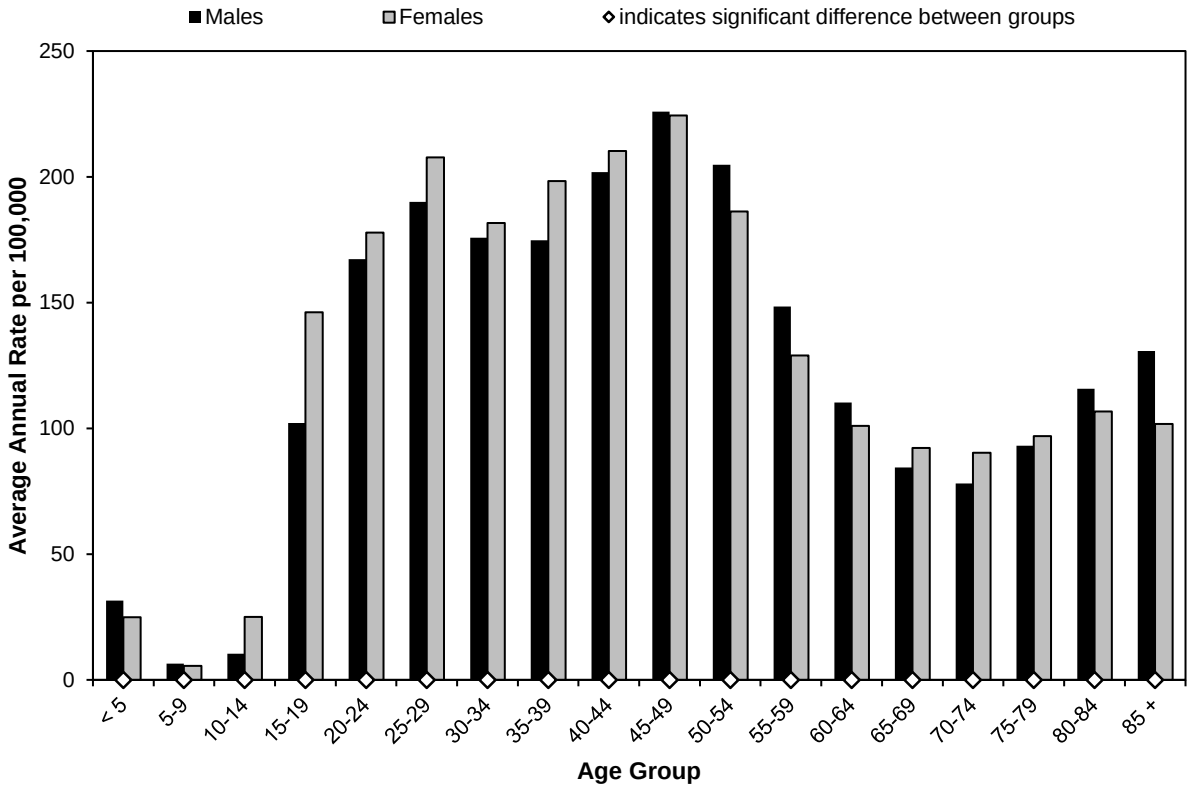
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

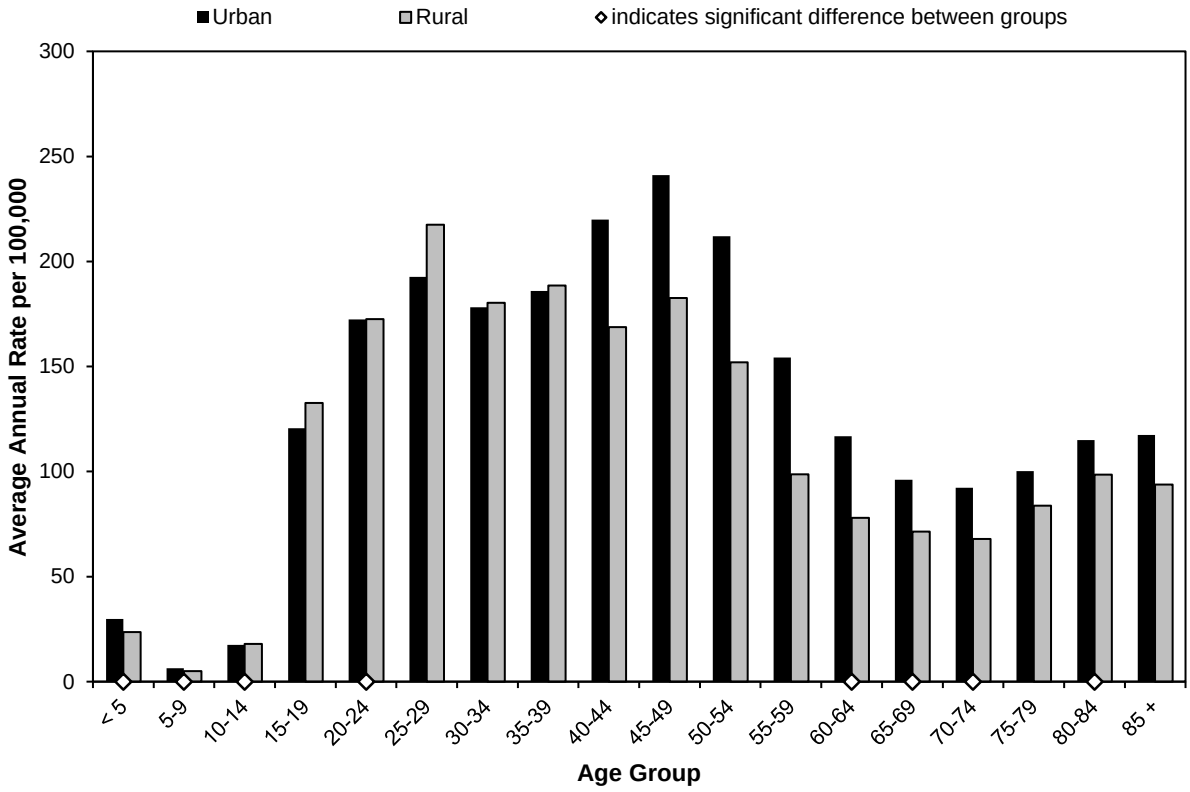
NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total.

INJURY HOSPITALIZATIONS: ALL POISONING

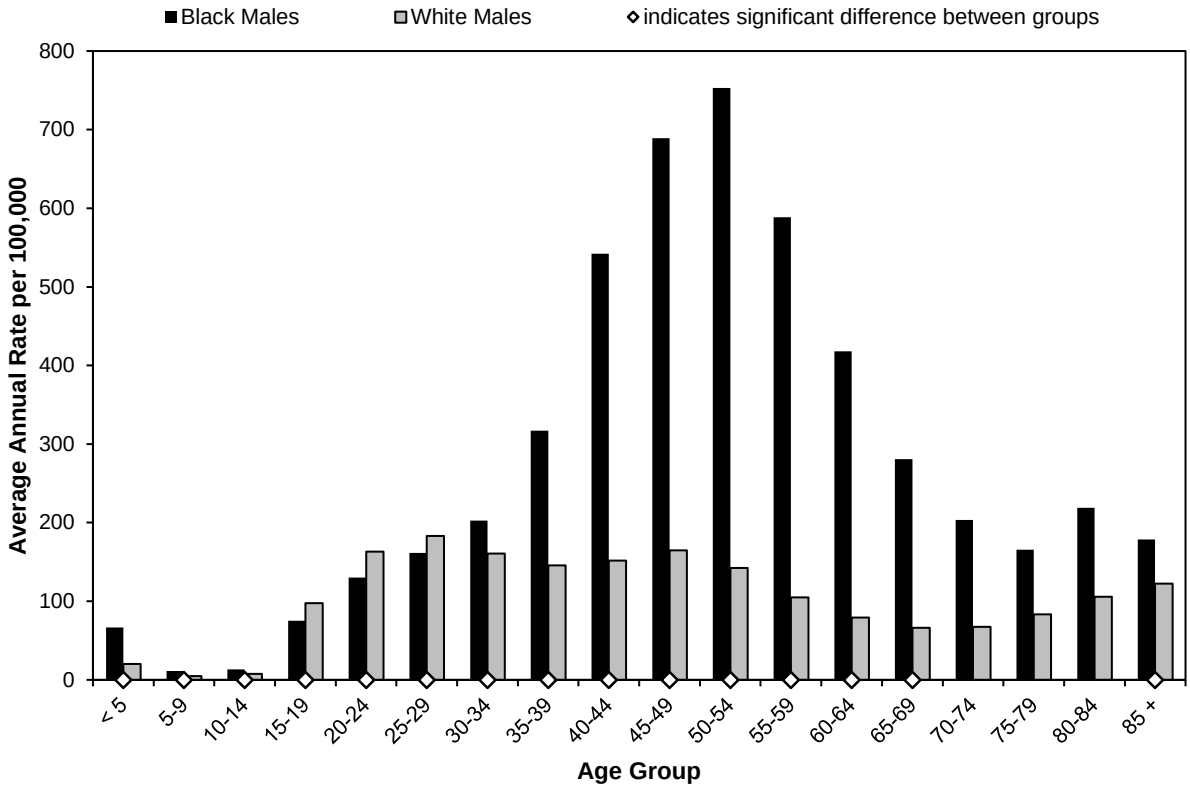
AVERAGE ANNUAL HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2007-2011

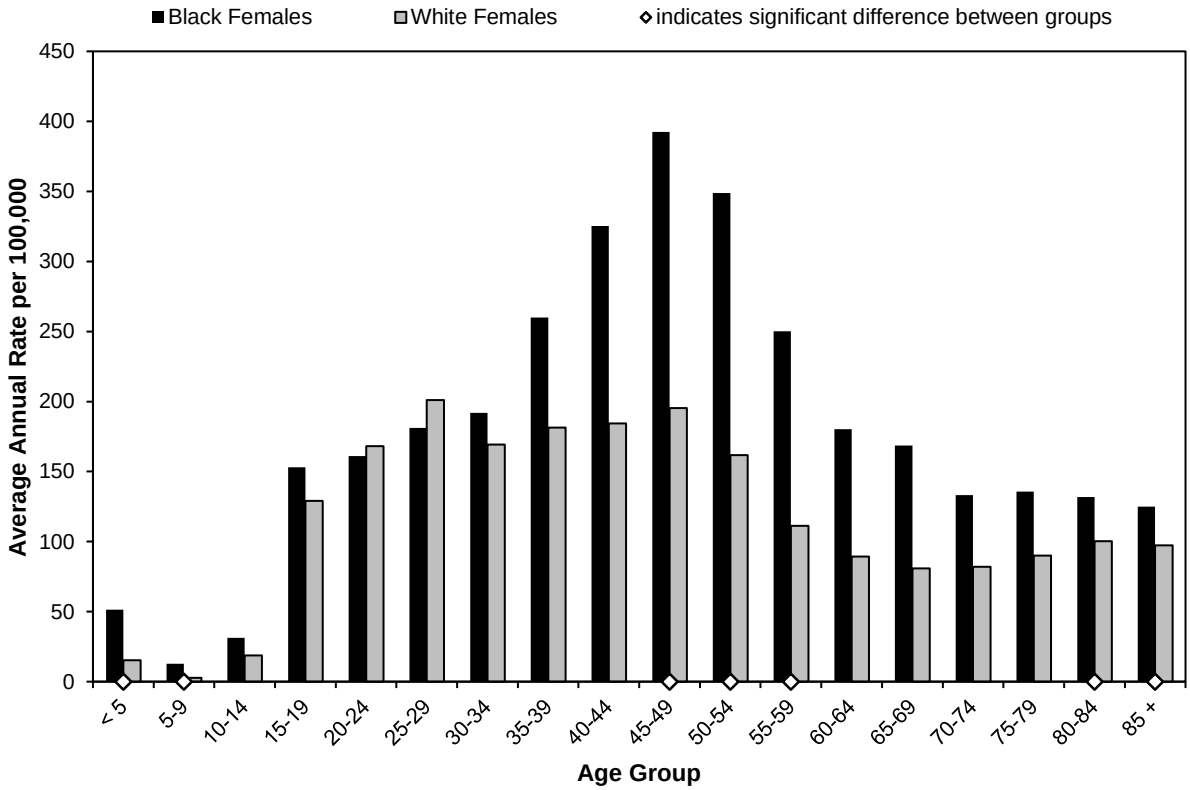




INJURY HOSPITALIZATIONS: ALL POISONING

AVERAGE ANNUAL HOSPITALIZATION RATES BY SEX AND RACE
PENNSYLVANIA RESIDENTS, 2007-2011





INJURY HOSPITALIZATIONS: ALL POISONING

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2007-2011

District/County	No.	Rate	CI (95%)	
Northeast	9,997	127.5	125.0-130.0	-
Carbon	649	208.9	192.8-225.0	+
Lackawanna	1,436	137.2	130.1-144.3	
Lehigh	2,282	134.8	129.3-140.3	
Luzerne	1,531	95.9	91.1-100.8	-
Monroe	1,012	120.6	113.2-128.1	-
Northampton	2,368	160.0	153.6-166.4	+
Pike	120	39.4	32.4-46.5	-
Susquehanna	172	87.3	74.2-100.3	-
Wayne	282	111.7	98.6-124.7	-
Wyoming	145	107.1	89.7-124.6	-
North Central	3,651	106.2	102.8-109.7	-
Bradford	475	160.1	145.7-174.5	+
Centre	710	99.2	91.9-106.5	-
Clinton	148	77.5	65.0-90.0	-
Columbia	417	129.9	117.4-142.3	
Lycoming	521	88.9	81.2-96.5	-
Montour	158	182.5	154.1-211.0	+
Northumberland	678	151.4	140.0-162.8	+
Potter	66	87.4	66.3-108.5	-
Snyder	151	81.1	68.2-94.1	-
Sullivan	38	116.7	79.6-153.8	
Tioga	126	64.7	53.4-76.0	-
Union	163	70.9	60.0-81.8	-
Northwest	6,314	138.6	135.2-142.0	+
Cameron	46	201.1	143.0-259.3	+
Clarion	147	75.5	63.3-87.7	-
Clearfield	537	127.9	117.1-138.7	
Crawford	578	135.8	124.8-146.9	
Elk	197	134.9	116.1-153.8	
Erie	1,938	139.6	133.4-145.8	+
Forest	31	78.4	50.8-106.0	-
Jefferson	275	125.6	110.8-140.4	
Lawrence	698	160.0	148.1-171.9	+
McKean	248	115.0	100.7-129.4	-
Mercer	993	176.4	165.4-187.3	+
Venango	402	154.9	139.7-170.0	+
Warren	224	108.6	94.4-122.9	-

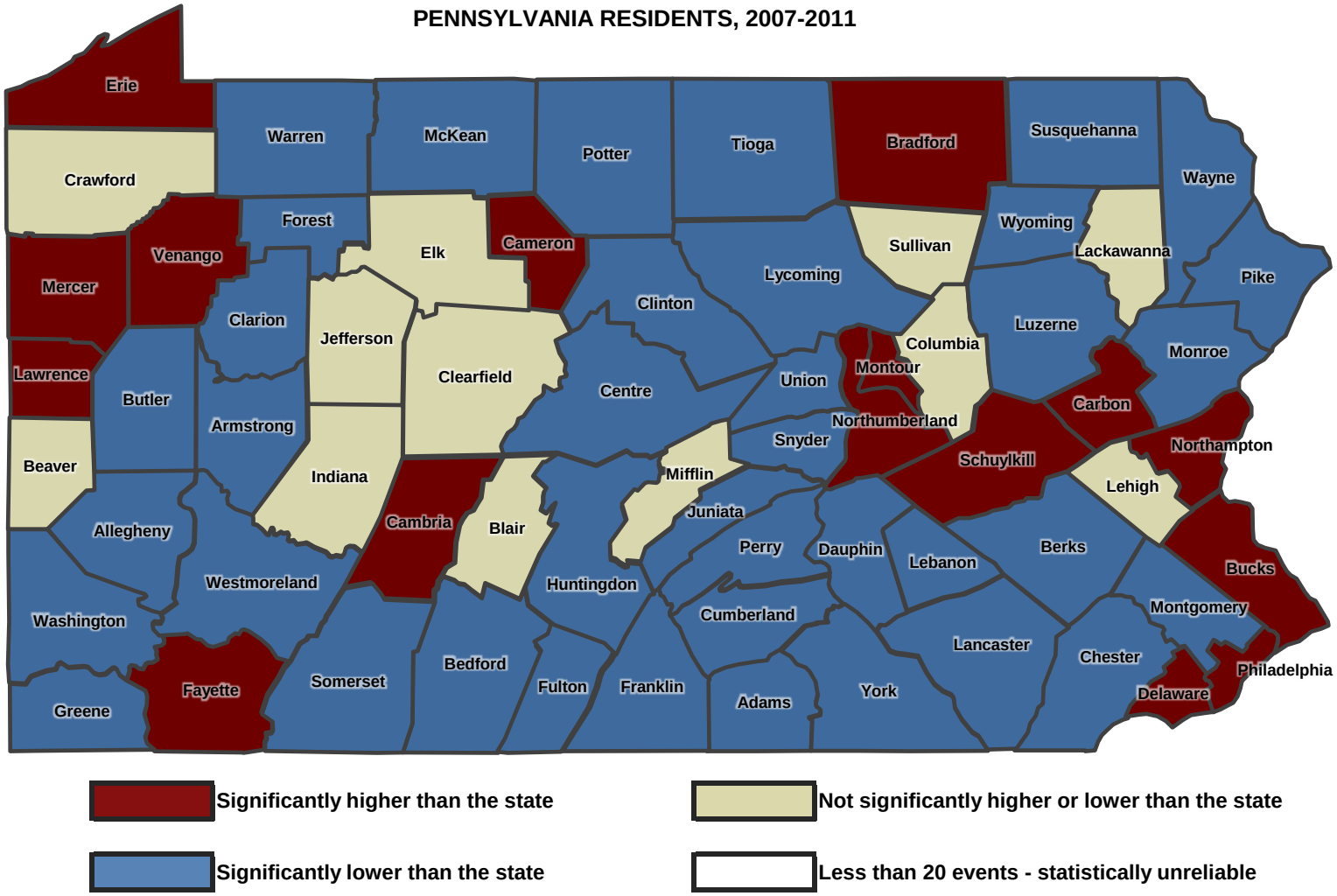
District/County	No.	Rate	CI (95%)	
Southeast	39,667	155.7	154.2-157.2	+
Berks	2,107	103.7	99.2-108.1	-
Bucks	4,295	139.5	135.4-143.7	+
Chester	2,002	80.5	77.0-84.1	-
Delaware	5,009	177.4	172.5-182.4	+
Lancaster	2,129	85.1	81.5-88.7	-
Montgomery	4,196	105.6	102.4-108.8	-
Philadelphia	18,489	252.3	248.7-256.0	+
Schuylkill	1,440	200.5	190.1-210.8	+
South Central	8,137	99.1	97.0-101.3	-
Adams	324	63.4	56.5-70.3	-
Bedford	165	72.4	61.3-83.4	-
Blair	854	139.2	129.9-148.5	
Cumberland	1,076	91.2	85.7-96.6	-
Dauphin	1,462	111.6	105.9-117.3	-
Franklin	632	88.8	81.9-95.7	-
Fulton	46	61.6	43.8-79.4	-
Huntingdon	236	103.4	90.2-116.6	-
Juniata	89	74.6	59.1-90.1	-
Lebanon	420	66.4	60.0-72.7	-
Mifflin	305	140.1	124.3-155.8	
Perry	219	98.9	85.8-112.0	-
York	2,309	107.9	103.5-112.3	-
Southwest	16,302	120.9	119.1-122.8	-
Allegheny	7,131	114.8	112.2-117.5	-
Armstrong	377	117.9	106.0-129.8	-
Beaver	1,153	138.8	130.8-146.8	
Butler	647	70.7	65.2-76.1	-
Cambria	1,336	193.1	182.8-203.5	+
Fayette	1,013	147.7	138.6-156.8	+
Greene	219	112.7	97.8-127.7	-
Indiana	576	137.9	126.7-149.2	
Somerset	450	118.2	107.3-129.1	-
Washington	1,200	119.5	112.7-126.3	-
Westmoreland	2,200	125.1	119.9-130.3	-
Pennsylvania	84,068	132.8	131.9-133.7	

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

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

INJURY HOSPITALIZATIONS: ALL POISONING

AGE-ADJUSTED HOSPITALIZATION RATES BY COUNTY, WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE PENNSYLVANIA RESIDENTS, 2007-2011



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 AVERAGE ANNUAL HOSPITALIZATION RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2007-2011

Geography	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	40,268	43,789	**84,057**	8,404	52.9	21,796	180.7	26,602	209.5	18,231	142.8	9,035	91.8
Northeast	4,531	5,460	**9,991**	1,100	56.2	2,852	200.1	3,018	186.7	1,977	119.8	1,050	81.0
Carbon	293	356	649	67	93.5	217	392.1	194	289.6	115	161.1	56	97.4
Lackawanna	659	777	1,436	132	52.6	417	209.1	421	205.8	310	143.0	156	82.3
Lehigh	1,028	1,254	2,282	265	58.3	712	218.0	696	196.6	410	119.6	199	75.7
Luzerne	740	785	1,525	134	37.0	439	152.2	440	137.0	328	100.1	190	66.0
Monroe	400	612	1,012	114	50.2	247	169.4	348	191.7	208	117.2	95	88.0
Northampton	1,124	1,244	2,368	261	68.5	653	241.3	692	227.6	480	158.7	282	121.8
Pike	39	81	120	22	31.2	23	54.4	39	61.9	27	40.0	9	NSR
Susquehanna	79	93	172	24	48.9	39	118.8	58	141.1	29	57.8	22	58.7
Wayne	101	181	282	60	109.6	72	178.7	87	164.7	43	68.2	20	39.8
Wyoming	68	77	145	21	58.8	33	141.0	43	154.8	27	88.1	21	92.0
Southeast	20,383	19,284	**39,667**	3,360	50.1	9,385	184.5	13,068	253.3	9,730	200.5	4,124	116.1
Berks	917	1,190	2,107	223	39.9	485	129.4	704	167.4	428	108.3	267	89.4
Bucks	2,062	2,233	4,295	427	54.3	1237	242.6	1326	192.5	864	126.9	441	95.9
Chester	869	1,133	2,002	198	28.6	511	116.4	582	106.8	426	85.2	285	88.0
Delaware	2,555	2,454	5,009	435	58.5	1311	243.4	1504	269.3	1179	214.5	580	144.8
Lancaster	940	1,189	2,129	230	32.0	580	118.9	640	128.5	414	85.2	265	67.9
Montgomery	1,843	2,353	4,196	471	46.9	1078	152.8	1151	134.5	878	109.4	618	102.2
Philadelphia	10,577	7,912	18,489	1,224	59.8	3,738	196.7	6,688	466.6	5,286	411.2	1,553	165.4
Schuylkill	620	820	1,440	152	94.4	445	345.0	473	299.0	255	165.5	115	85.3

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	40,268	43,789	**84,057**	8,404	52.9	21,796	180.7	26,602	209.5	18,231	142.8	9,035	91.8
North Central	1,516	2,133	**3,649**	551	64.9	1,075	143.1	1,036	160.5	594	88.3	395	71.2
Bradford	193	282	475	59	76.0	137	276.7	129	209.2	90	134.9	60	108.8
Centre	256	454	710	66	35.5	260	106.6	206	168.4	102	87.9	76	87.7
Clinton	66	82	148	43	86.1	38	97.8	33	96.4	23	62.1	11	34.7
Columbia	177	240	417	88	105.8	126	179.4	95	159.8	60	92.9	48	88.3
Lycoming	256	265	521	47	33.5	133	118.5	153	135.3	122	100.9	66	68.1
Montour	53	105	158	30	139.6	35	238.2	59	341.2	23	115.0	11	65.2
Northumberland	283	393	676	92	86.8	186	236.3	199	212.2	115	114.9	86	98.5
Potter	32	34	66	11	51.6	23	176.8	24	150.5	6	NSR	2	NSR
Snyder	58	93	151	42	80.8	51	132.3	32	85.3	16	42.2	10	33.5
Sullivan	19	19	38	8	NSR	6	NSR	16	300.8	5	NSR	3	NSR
Tioga	53	73	126	38	71.7	34	92.8	29	77.8	15	34.4	10	26.4
Union	70	93	163	27	53.1	46	90.8	61	127.7	17	42.9	12	36.4
South Central	3,673	4,464	**8,137**	1,079	51.2	2,267	150.1	2,484	145.2	1,473	86.4	834	64.0
Adams	141	183	324	99	76.3	79	88.6	92	87.6	33	31.6	21	26.4
Bedford	63	102	165	46	78.0	54	138.7	32	63.4	19	35.8	14	30.0
Blair	388	466	854	194	126.8	230	205.0	250	205.7	116	87.2	64	56.7
Cumberland	456	620	1,076	104	36.3	294	125.8	322	137.5	210	89.7	146	78.9
Dauphin	710	752	1,462	131	38.7	388	156.5	457	167.2	333	119.8	153	82.9
Franklin	270	362	632	61	31.4	190	146.2	181	123.4	125	86.7	75	60.0
Fulton	21	25	46	16	87.4	12	97.5	8	NSR	6	NSR	4	NSR
Huntingdon	92	144	236	82	157.0	76	171.9	38	79.6	25	53.3	15	39.9
Juniata	40	49	89	26	83.8	24	118.6	15	62.8	16	65.8	8	NSR
Lebanon	175	245	420	40	23.9	121	100.9	141	109.0	71	53.6	47	41.4
Mifflin	138	167	305	62	104.8	78	207.9	106	232.9	34	72.8	25	57.6
Perry	93	126	219	24	40.6	53	135.6	81	167.6	42	83.4	19	60.2
York	1,086	1,223	2,309	194	34.8	668	173.3	761	162.2	443	100.2	243	78.7

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	40,268	43,789	**84,057**	8,404	52.9	21,796	180.7	26,602	209.5	18,231	142.8	9,035	91.8
Northwest	2,904	3,409	**6,313**	690	60.4	1,822	219.8	1,918	212.6	1,195	123.7	689	87.6
Cameron	26	20	46	10	179.1	14	394.4	19	406.2	3	NSR	0	NSR
Clarion	65	82	147	16	32.1	39	96.1	42	117.7	21	53.3	29	86.3
Clearfield	259	278	537	43	48.3	144	199.6	154	172.8	119	137.4	77	105.9
Crawford	259	319	578	58	50.9	187	247.4	150	177.9	118	125.5	65	87.8
Elk	97	100	197	25	68.5	64	278.8	61	178.7	28	78.8	19	62.6
Erie	873	1,065	1,938	189	51.3	583	206.3	634	236.0	350	126.5	182	88.6
Forest	22	9	31	11	194.7	5	50.9	8	NSR	5	NSR	2	NSR
Jefferson	129	146	275	30	55.6	63	167.9	94	214.6	56	116.4	32	77.4
Lawrence	339	358	697	66	60.4	193	262.2	216	249.7	142	145.8	81	95.2
McKean	87	161	248	28	53.2	86	223.2	62	139.4	49	111.6	23	62.1
Mercer	470	523	993	109	75.2	290	297.3	302	272.4	185	152.9	107	100.1
Venango	194	208	402	59	90.1	108	250.8	110	210.9	75	119.7	50	101.6
Warren	84	140	224	46	97.1	46	145.8	66	163.0	44	92.6	22	56.6
Southwest	7,261	9,039	**16,300**	1,624	51.9	4,395	178.5	5,078	190.6	3,262	111.9	1,943	82.7
Allegheny	3,241	3,890	7,131	585	41.4	1,818	150.5	2,167	183.0	1,594	124.2	967	94.2
Armstrong	160	217	377	81	101.6	106	201.2	111	160.5	37	48.0	42	65.7
Beaver	510	643	1,153	88	45.0	293	207.0	389	230.9	241	126.1	142	89.5
Butler	295	352	647	68	28.8	184	118.2	177	91.0	128	66.0	90	63.9
Cambria	620	716	1,336	133	82.0	405	325.6	416	300.9	261	166.2	121	89.4
Fayette	434	578	1,012	186	118.1	280	240.7	346	244.9	136	87.6	65	52.3
Greene	105	113	218	49	111.6	69	184.6	66	163.4	25	59.1	10	33.3
Indiana	248	328	576	108	96.4	160	167.4	163	214.3	82	93.9	63	89.6
Somerset	202	248	450	49	59.6	126	189.9	136	169.8	77	90.9	62	84.7
Washington	504	696	1,200	112	45.9	316	178.3	401	194.6	235	102.8	136	74.3
Westmoreland	942	1,258	2,200	165	40.8	638	222.3	706	192.6	446	107.7	245	71.1

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

INJURY HOSPITALIZATIONS: ALL POISONING

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

BLACK POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	1,225	157.0	148.2-165.8
Chester	194	130.6	112.2-149.0
Dauphin	310	135.9	120.8-151.1
Delaware	1,023	204.8	192.3-217.4
Montgomery	394	111.0	100.1-122.0
Philadelphia	9,993	309.4	303.4-315.5
Pennsylvania	15,173	231.5	227.8-235.2

WHITE POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	5,733	111.3	108.4-114.2
Chester	1,679	76.3	72.6-79.9
Dauphin	1,030	102.8	96.5-109.1
Delaware	3,768	179.8	174.1-185.6
Montgomery	3,423	103.4	99.9-106.8
Philadelphia	6,292	180.0	175.6-184.5
Pennsylvania	61,281	114.5	113.6-115.4

HISPANIC POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Berks	350	134.5	120.4-148.5
Lancaster	89	48.5	38.4-58.5
Lehigh	352	126.8	113.6-140.1
Philadelphia	1,445	179	169.7-188.2
Pennsylvania	3,664	128.0	123.8-132.1

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL HOSPITALIZATION RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

Select Counties		Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+	
County and Race		Cty. Pop.	Male	Female	All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Allegheny	Black	13.4%	566	659	**1,225**	17.2%	148	54.8	249	143.4	401	264.6	311	231.1	116	129.2
	White	82.4%	2,587	3,146	**5,733**	80.4%	409	38.0	1,511	163.1	1,730	170.1	1,257	115.1	826	89.9
Chester	Black	6.2%	94	100	**194**	9.7%	16	32.2	57	162.1	52	175.2	53	218.0	16	102.2
	White	88.3%	718	961	**1,679**	83.9%	160	27.0	406	107.7	498	102.4	355	80.0	260	89.4
Dauphin	Black	18.1%	158	152	**310**	21.2%	35	43.2	73	151.8	96	197.5	80	206.6	26	127.2
	White	75.8%	500	530	**1,030**	70.5%	77	34.5	284	161.6	312	145.9	235	105.6	122	78.1
Delaware	Black	19.2%	550	473	**1,023**	20.4%	95	52.9	197	153.1	382	344.5	256	337.8	93	229.8
	White	74.4%	1,875	1,893	**3,768**	75.2%	299	59.2	1,058	287.4	1,058	253.3	885	203.3	468	135.7
Montgomery	Black	8.8%	204	190	**394**	9.4%	47	46.6	100	132.3	119	148.8	94	161.2	34	101.6
	White	83.2%	1,492	1,931	**3,423**	81.6%	345	43.1	872	156.7	933	131.4	739	109.4	534	99.5
Philadelphia	Black	45.1%	5,903	4,090	**9,993**	54.0%	590	55.3	1,366	183.3	3,980	606.8	3,321	599.9	736	203.6
	White	45.3%	3,484	2,808	**6,292**	34.0%	274	36.1	1,692	194.9	2,009	311.4	1,611	268.6	706	133.2
Pennsylvania	Black	10.9%	8,538	6,635	**15,173**	18.0%	1,204	54.5	2,636	168.8	5,703	417.5	4,510	424.3	1,120	171.6
	White	84.5%	28,071	33,201	**61,272**	72.9%	5,217	41.0	16,815	173.8	18,699	171.2	12,920	117.6	7,630	86.1

NJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC ACCIDENTS

In 2011, among Pennsylvania residents, there were 11,384 hospitalizations due to motor vehicle traffic (MVT) accidents. On average, one resident was hospitalized every 46 minutes.

Injury Definition

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

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

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

HIGHLIGHTS

- Age-adjusted rates **decreased** from 2007 to 2011.
- Most common demographic is **white males**, ages 20 to 24.
- Of all Pennsylvania counties, **Sullivan, Wyoming and Monroe** had the highest rates.

Trends Over Time

- Age-adjusted hospitalization rates for MVT injury decreased by 24 percent from 114.8 hospitalizations per 100,000 population in 2007 to 86.8 hospitalizations per 100,000 population in 2011.
- Males had significantly higher age-adjusted MVT hospitalization rates than females for all age groups during 2007 to 2011.
- Generally, black males had the highest age-adjusted MVT hospitalization rates from 2007 to 2011.

Demographic Trends

- Black males had significant higher age-adjusted MVT hospitalization rates than white males for all age groups **except** ages 15 to 29 and 75 and older, where whites had higher rates.
- Black females had higher rates than white females for all age groups **except** ages 15 to 19 and 70 and older.
- Urban populations generally had higher age-adjusted MVT hospitalization rates than rural populations for ages less than 15 and for ages 70 and older, while rural populations had higher rates than urban populations for ages 15 to 64.

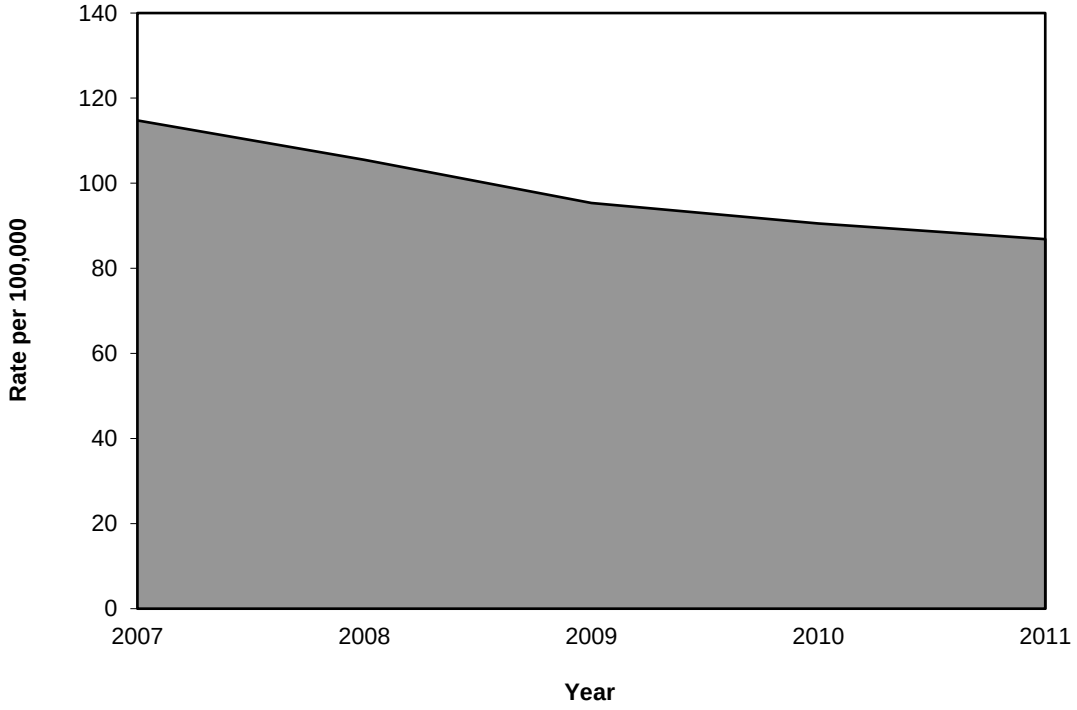
Regional Trends

- The Northeast Health District had the highest age-adjusted MVT hospitalization rate while the North Central Health District had the lowest rate.
- Twenty-seven counties had age-adjusted MVT hospitalization rates that were significantly higher than the state rate for 2007 to 2011; most of these were rural counties.

INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND
AGE-ADJUSTED HOSPITALIZATION RATES
PENNSYLVANIA RESIDENTS, 2007-2011

Year	No.	Rate
2007	14,593	114.8
2008	13,506	105.5
2009	12,409	95.3
2010	11,857	90.5
2011	11,384	86.8



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2007-2011

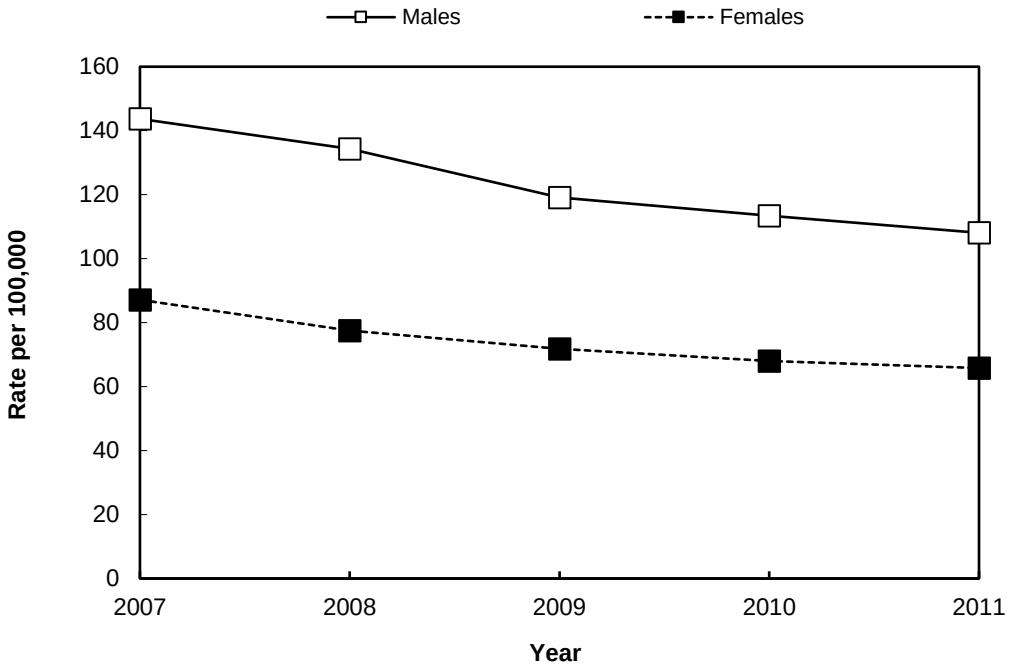
Year	Northwest	North Central	Northeast	Southeast	South Central	Southwest
2007	107.5	86.8	129.2	115.6	106.8	120.5
2008	102.3	83.6	123.0	104.0	91.8	114.1
2009	86.3	76.6	124.0	97.7	84.8	88.8
2010	88.6	89.4	103.0	91.0	83.7	88.3
2011	90.2	81.8	100.3	86.8	79.7	84.5

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2007-2011 based on ICD-9 codes. See Technical Notes.

INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND
AGE-ADJUSTED HOSPITALIZATION RATES BY SEX
PENNSYLVANIA RESIDENTS, 2007-2011

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2007	8,790	143.7	2007	5,798	87.1
2008	8,263	134.3	2008	5,225	77.5
2009	7,440	119.1	2009	4,939	71.8
2010	7,153	113.5	2010	4,683	68.0
2011	6,858	108.1	2011	4,497	65.8



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2007-2011

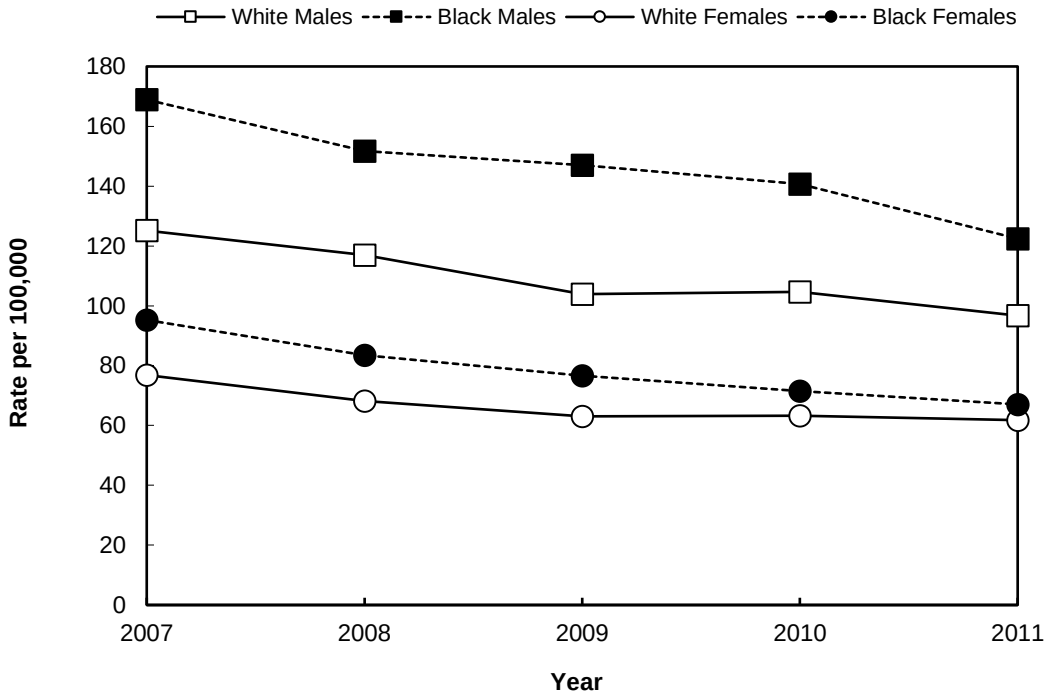
Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2007	142.6	146.6	2007	84.6	94.3
2008	131.5	141.4	2008	77.1	78.9
2009	118.6	120.4	2009	69.8	77.4
2010	111.1	119.7	2010	64.1	79.4
2011	107.0	111.1	2011	63.1	73.8

NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania. Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND
AGE-ADJUSTED HOSPITALIZATION RATES BY SEX AND RACE OR ETHNICITY
PENNSYLVANIA RESIDENTS, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	6,618	1,058	4,448	665	303	200
2008	6,229	955	4,014	591	381	181
2009	5,627	945	3,789	552	351	222
2010	5,478	908	3,648	521	283	189
2011	5,230	853	3,598	503	247	108



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	125.1	168.9	76.8	95.2	113.8	84.0
2008	116.9	151.7	68.1	83.5	155.2	70.6
2009	103.9	147.0	63.1	76.7	125.0	81.2
2010	104.6	140.6	63.2	71.5	95.6	61.7
2011	96.7	122.4	61.8	67.1	71.4	31.9

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 AVERAGE ANNUAL HOSPITALIZATION RATES
PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2007-2011

AGE	PA TOTAL		MALE		FEMALE			URBAN		RURAL		
GROUP	No.	Rate	No.	Rate	No.	Rate		No.	Rate	No.	Rate	
TOTAL	**63,749**	**101.3**	**38,504**	**125.7**	**25,142**	**77.8**		**45,225**	**98.9**	**18,524**	**107.6**	
< 5	555	15.1	350	18.6	205	11.4	*	440	16.0	115	12.6	*
5-9	1,051	27.8	658	34.1	391	21.2	*	839	29.9	212	21.7	*
10-14	1,415	35.5	891	43.8	524	26.9	*	1,085	37.0	330	31.4	*
15-19	5,969	130.4	3,629	156.6	2,327	103.0	*	4,017	121.6	1,952	153.2	*
20-24	7,802	176.1	5,086	226.5	2,705	123.9	*	5,597	175.2	2,205	178.5	
25-29	5,377	141.3	3,517	181.8	1,855	99.1	*	3,880	135.1	1,497	160.4	*
30-34	4,081	109.7	2,682	143.3	1,392	75.3	*	2,908	105.4	1,173	122.1	*
35-39	4,091	104.7	2,558	131.5	1,527	77.8	*	2,867	100.0	1,224	117.5	*
40-44	4,598	106.1	2,929	136.4	1,657	75.8	*	3,186	100.6	1,412	120.9	*
45-49	5,011	108.1	3,252	142.3	1,750	74.4	*	3,530	104.7	1,481	117.2	*
50-54	4,805	103.4	3,044	133.6	1,752	74.0	*	3,345	99.6	1,460	113.4	*
55-59	4,046	96.4	2,500	122.5	1,541	71.5	*	2,891	96.3	1,155	96.7	
60-64	3,315	93.1	1,899	111.4	1,410	75.9	*	2,343	93.0	972	93.2	
65-69	2,511	92.5	1,313	104.5	1,193	81.9	*	1,757	93.0	754	91.5	
70-74	2,358	107.3	1,185	121.7	1,171	95.8	*	1,649	107.9	709	106.1	
75-79	2,422	132.2	1,147	150.7	1,269	118.4	*	1,725	134.0	697	127.8	
80-84	2,338	159.3	1,008	179.5	1,327	146.5	*	1,719	164.8	619	145.9	*
85 +	2,004	135.7	856	187.1	1,146	112.4	*	1,447	136.4	557	133.9	

* 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: MOTOR VEHICLE TRAFFIC

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH AVERAGE ANNUAL HOSPITALIZATION RATES
PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2007-2011

AGE	WHITE MALE		BLACK MALE			WHITE FEMALE		BLACK FEMALE			HISPANICS	
GROUP	No.	Rate	No.	Rate		No.	Rate	No.	Rate		No.	Rate
TOTAL	**29,182**	**112.5**	**4,719**	**144.6**		**19,497**	**71.5**	**2,832**	**78.9**		**2,465**	**75.5**
< 5	146	9.9	109	41.4	*	106	7.6	49	19.1	*	65	17.7
5-9	297	19.4	220	84.5	*	210	14.4	105	41.6	*	101	30.6
10-14	524	32.1	225	80.8	*	309	19.9	109	40.7	*	122	39.8
15-19	2,733	146.5	440	137.5		1,805	99.0	224	72.5	*	272	84.2
20-24	3,774	208.3	602	197.7		1,962	111.7	371	123.2		363	122.4
25-29	2,509	159.7	491	197.1	*	1,345	89.4	301	119.8	*	264	97.2
30-34	1,877	122.3	431	194.6	*	944	63.0	245	104.7	*	205	80.4
35-39	1,854	114.0	366	173.4	*	1,109	68.5	214	92.9	*	173	72.1
40-44	2,225	121.4	341	156.3	*	1,262	68.5	198	81.5	*	190	88.3
45-49	2,503	126.0	409	188.8	*	1,366	67.7	197	79.9	*	168	89.2
50-54	2,408	119.7	353	179.2	*	1,358	65.9	230	98.9	*	149	104.1
55-59	2,025	111.0	259	162.7	*	1,182	62.3	174	88.6	*	99	91.4
60-64	1,549	100.6	155	128.6	*	1,172	71.0	118	74.9		92	120.2
65-69	1,089	95.0	110	136.1	*	975	74.4	106	93.5	*	53	101.5
70-74	996	111.7	83	135.0	*	1,011	91.4	58	61.8	*	45	125.3
75-79	1,008	143.4	58	129.7		1,124	114.9	60	77.5	*	45	177.5
80-84	895	171.1	38	124.1	*	1,199	143.8	43	70.9	*	35	213.0
85 +	770	180.9	29	112.6	*	1,058	112.1	30	46.8	*	24	154.5

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

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.
Missing or unknown ages are included in the total. Hispanics may be of any race; therefore, their rates must not be compared to whites or blacks.

INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH AVERAGE ANNUAL HOSPITALIZATION RATES
PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2007-2011

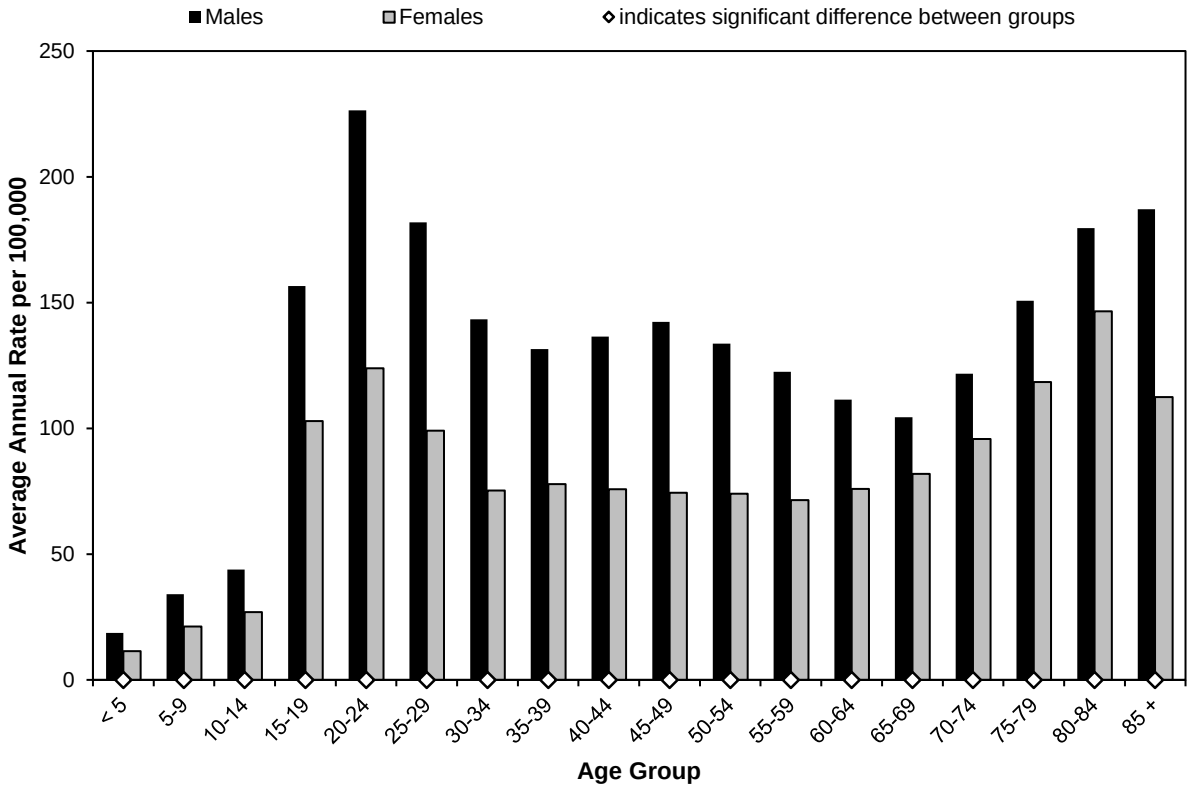
AGE	NORTHWEST			NORTH CENTRAL			NORTHEAST			SOUTHEAST			SOUTH CENTRAL			SOUTHWEST		
GROUP	No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate	
TOTAL	**4,510**	**97.4**		**3,073**	**89.2**		**9,399**	**118.9**		**25,416**	**101.0**		**7,494**	**90.6**		**13,857**	**102.5**	
< 5	27	10.6	-	12	6.7	-	75	17.4	+	291	18.1	+	80	16.1		68	9.6	-
5-9	51	19.0	-	33	18.1	-	143	31.1		563	34.9	+	125	24.5		133	17.9	-
10-14	72	24.7	-	62	32.5		208	41.4		700	42.0	+	140	26.4	-	226	28.3	-
15-19	437	126.8		363	119.1		928	161.7	+	2,308	124.7		808	141.0	+	1,128	121.2	-
20-24	529	168.5		411	112.0	-	1,140	214.2	+	3,216	178.7		880	167.9		1,625	182.0	
25-29	402	154.8		223	119.6	-	711	158.8	+	2,254	137.2		555	112.8	-	1,234	158.8	+
30-34	295	113.0		180	95.8		544	121.6	+	1,647	105.2		457	92.7	-	960	125.3	+
35-39	296	107.0		175	88.4	-	589	121.1	+	1,616	100.3		497	94.4	-	921	113.8	+
40-44	329	106.6		202	92.6	-	710	129.0	+	1,720	97.8	-	610	104.7		1,031	112.7	
45-49	324	96.7	-	212	89.9	-	789	133.2	+	1,946	105.2		585	94.7	-	1,160	115.3	
50-54	393	113.6		210	87.9	-	741	125.0	+	1,859	103.1		567	92.7	-	1,036	98.4	
55-59	287	89.8		200	90.5		579	107.5	+	1,566	98.8		460	81.8	-	956	98.7	
60-64	247	89.9		151	78.3	-	503	105.9	+	1,255	95.4		400	82.8	-	755	92.0	
65-69	183	84.7		138	88.4		377	102.8		967	98.3		330	87.9		514	83.4	-
70-74	189	105.5		146	114.5		354	122.2	+	925	117.7	+	236	79.4	-	508	98.2	
75-79	167	112.2	-	125	120.9		388	163.3	+	922	140.3		273	113.4	-	546	122.8	
80-84	156	132.0	-	119	149.6		337	178.2		862	164.6		263	145.5		601	159.9	
85 +	126	108.7	-	111	142.9		283	150.4		799	148.1	+	228	129.7		455	119.8	-

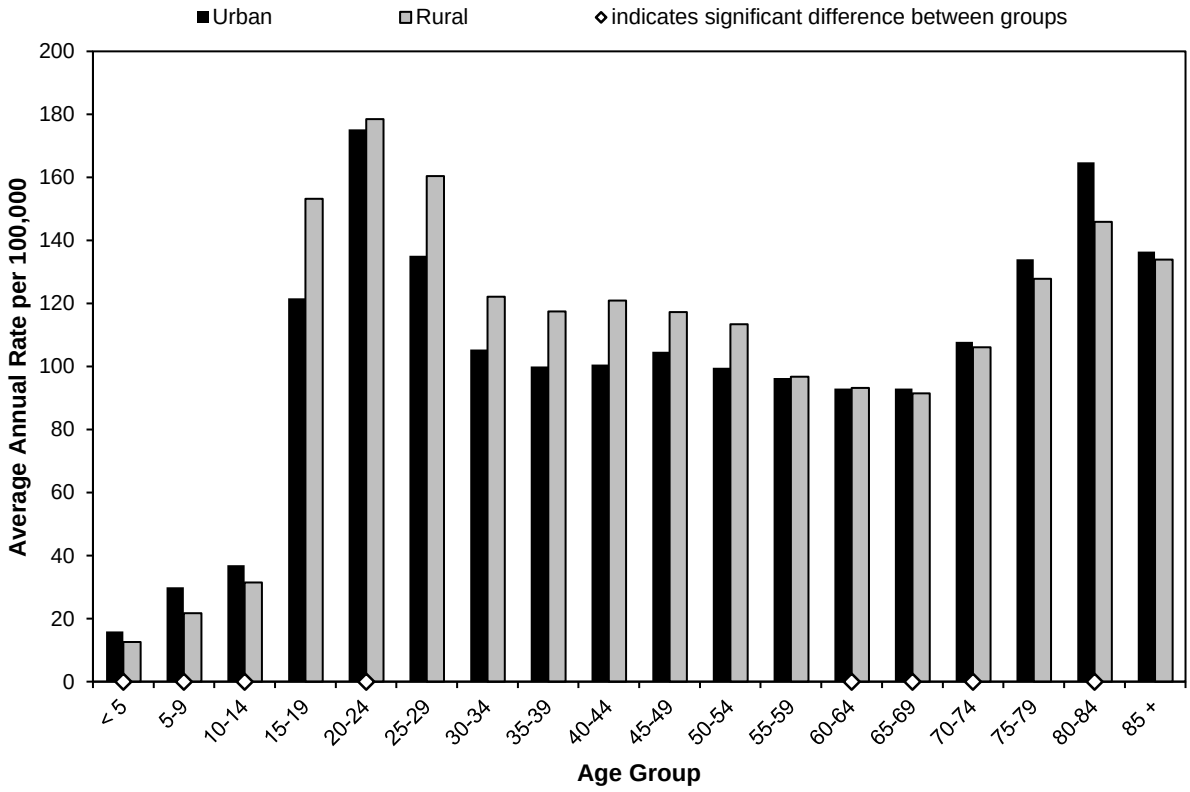
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

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 HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

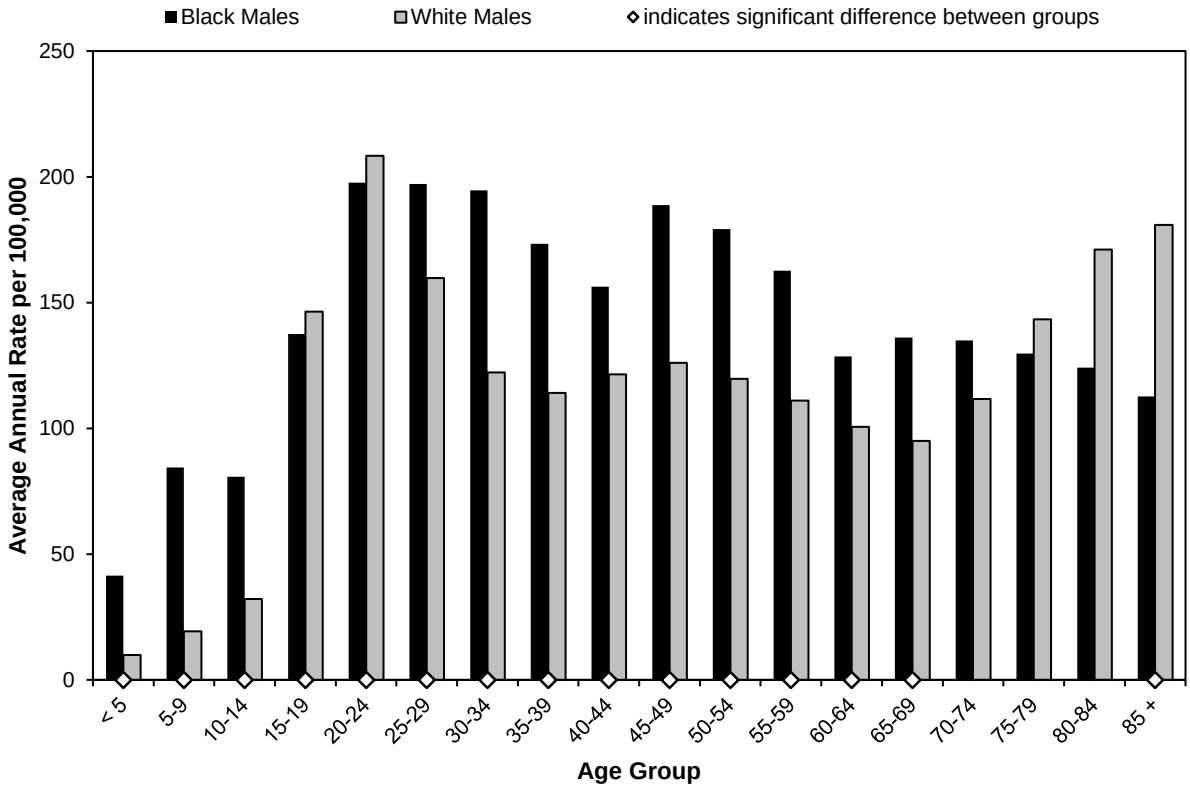
AVERAGE ANNUAL HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2007-2011

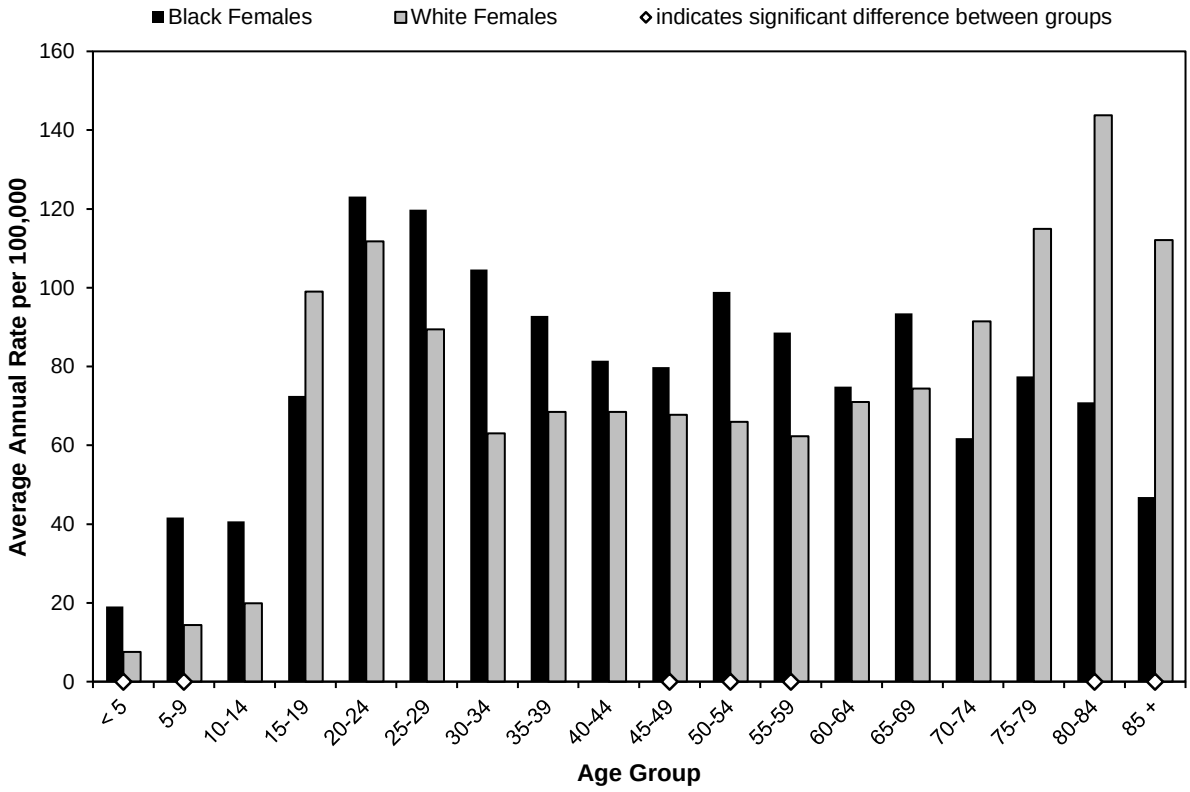




INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

AVERAGE ANNUAL HOSPITALIZATION RATES BY SEX AND RACE
PENNSYLVANIA RESIDENTS, 2007-2011





INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2007-2011

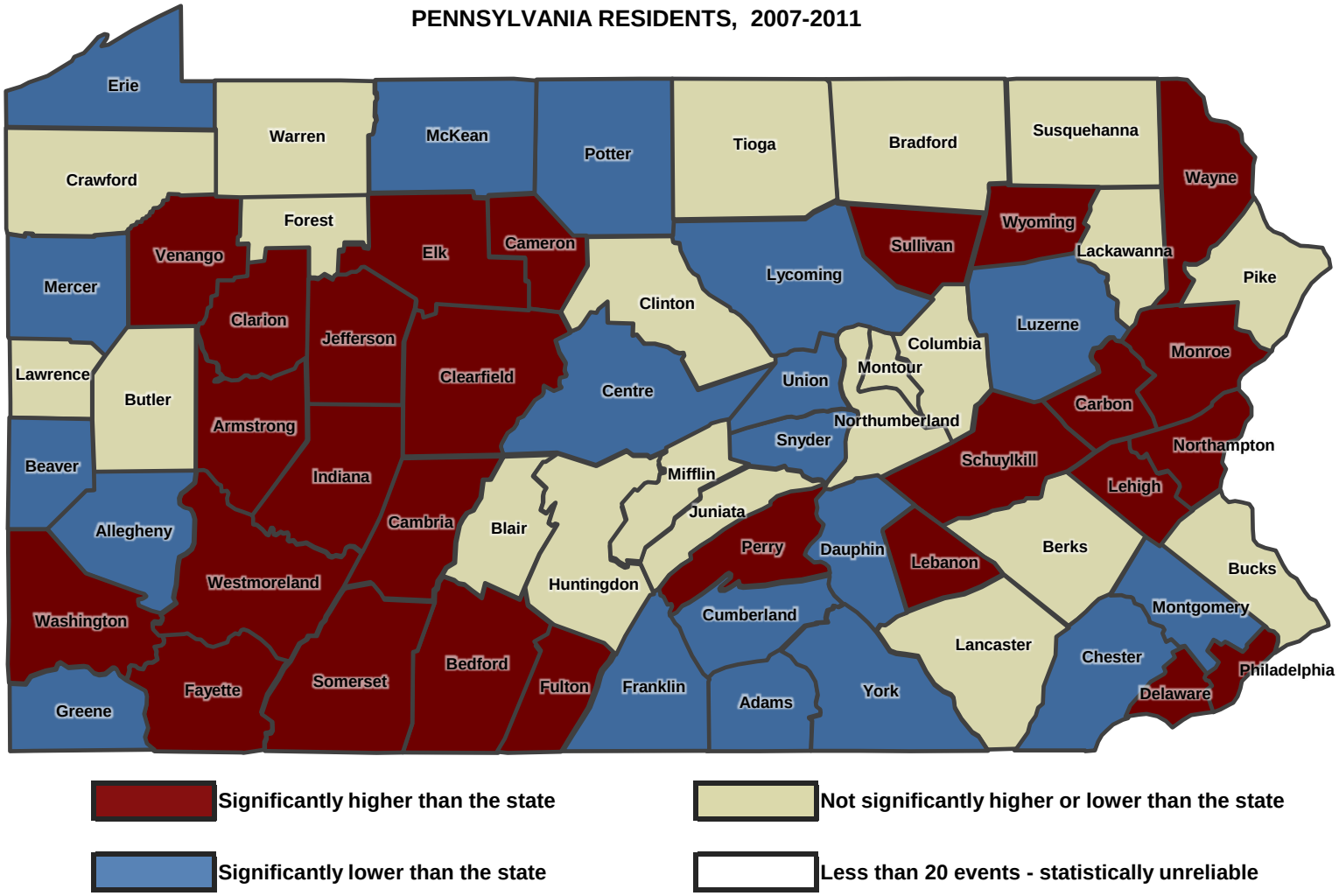
District/County	No.	Rate	CI (95%)		District/County	No.	Rate	CI (95%)	
Northeast	9,399	115.7	113.4-118.0	+	**Southeast**	25,416	98.8	97.6-100.1	
Carbon	469	148.1	134.7-161.5	+	Berks	2,092	101.3	97.0-105.7	
Lackawanna	1,019	93.1	87.4-98.8		Bucks	3,017	96.9	93.4-100.3	
Lehigh	2,083	118.0	113.0-123.1	+	Chester	1,765	71.4	68.1-74.7	-
Luzerne	1,491	90.5	85.9-95.1	-	Delaware	3,054	106.5	102.7-110.2	+
Monroe	1,313	154.3	146.0-162.7	+	Lancaster	2,565	99.3	95.4-103.1	
Northampton	2,002	130.1	124.4-135.8	+	Montgomery	3,476	86.1	83.2-88.9	-
Pike	290	102.5	90.7-114.3		Philadelphia	8,411	109.7	107.4-112.1	+
Susquehanna	198	96.7	83.3-110.2		Schuylkill	1,036	138.3	129.9-146.7	+
Wayne	314	122.6	109.1-136.2	+					
Wyoming	220	155.9	135.3-176.4	+					
North Central	3,073	83.7	80.7-86.6	-	**South Central**	7,494	89.2	87.2-91.2	-
Bradford	300	100.1	88.8-111.4		Adams	445	86.8	78.8-94.9	-
Centre	470	63.3	57.6-69.0	-	Bedford	306	129.5	115.0-144.0	+
Clinton	211	106.8	92.4-121.2		Blair	600	93.4	85.9-100.9	
Columbia	351	99.9	89.4-110.3		Cumberland	894	72.7	68.0-77.5	-
Lycoming	542	87.7	80.3-95.1	-	Dauphin	1,131	86.9	81.8-92.0	-
Montour	96	106.1	84.9-127.3		Franklin	541	72.7	66.6-78.8	-
Northumberland	482	103.4	94.1-112.6		Fulton	96	134.4	107.5-161.3	+
Potter	65	76.7	58.1-95.4	-	Huntingdon	266	112.2	98.7-125.6	
Snyder	146	71.8	60.2-83.5	-	Juniata	109	90.4	73.4-107.3	
Sullivan	46	163.0	115.9-210.1	+	Lebanon	722	107.2	99.4-115.0	+
Tioga	197	93.2	80.2-106.3		Mifflin	232	102.2	89.0-115.3	
Union	167	69.3	58.8-79.9	-	Perry	339	153.3	137.0-169.6	+
					York	1,813	83.6	79.8-87.5	-
Northwest	4,510	94.9	92.2-97.7	-	**Southwest**	13,857	99.3	97.6-100.9	
Cameron	39	153.7	105.5-201.9	+	Allegheny	5,526	86.4	84.1-88.7	-
Clarion	255	126.1	110.6-141.6	+	Armstrong	435	132.8	120.3-145.2	+
Clearfield	458	110.8	100.7-121.0	+	Beaver	788	89.7	83.5-96.0	-
Crawford	469	106.6	96.9-116.2		Butler	938	100.8	94.3-107.2	
Elk	213	130.1	112.7-147.6	+	Cambria	871	118.3	110.5-126.2	+
Erie	1,179	81.5	76.8-86.1	-	Fayette	810	114.8	106.9-122.8	+
Forest	43	108.1	75.8-140.4		Greene	104	49.5	40.0-59.0	-
Jefferson	292	132.0	116.8-147.1	+	Indiana	521	118.2	108.1-128.4	+
Lawrence	445	94.4	85.6-103.1		Somerset	443	111.0	100.7-121.4	+
McKean	162	70.4	59.6-81.3	-	Washington	1,224	117.0	110.5-123.6	+
Mercer	436	71.3	64.6-78.0	-	Westmoreland	2,197	121.0	115.9-126.1	+
Venango	338	127.1	113.5-140.6	+					
Warren	181	91.1	77.8-104.3		Pennsylvania	63,749	98.5	97.7-99.3	

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

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

INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

AGE-ADJUSTED HOSPITALIZATION RATES BY COUNTY, WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE PENNSYLVANIA RESIDENTS, 2007-2011



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

INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AVERAGE ANNUAL HOSPITALIZATION RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2007-2011

Geography	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	38,504	25,142	**63,646**	9,261	58.3	17,155	142.2	13,734	108.2	12,062	94.5	11,537	117.2
Northeast	5,638	3,702	**9,340**	1,410	72.0	2,358	165.5	2,109	130.4	1,795	108.8	1,727	133.3
Carbon	290	178	468	80	111.7	129	233.1	117	174.6	98	137.3	45	78.3
Lackawanna	617	402	1,019	141	56.2	251	125.9	211	103.2	204	94.1	212	111.9
Lehigh	1,239	843	2,082	291	64.0	524	160.5	452	127.7	410	119.6	406	154.4
Luzerne	879	563	1,442	200	55.2	385	133.4	316	98.4	265	80.9	325	112.9
Monroe	812	498	1,310	198	87.2	330	226.3	326	179.6	275	155.0	184	170.4
Northampton	1,179	822	2,001	296	77.7	501	185.2	427	140.5	375	124.0	403	174.1
Pike	169	120	289	43	61.0	76	179.9	76	120.6	48	71.1	47	97.8
Susquehanna	109	89	198	55	112.0	41	124.9	39	94.9	32	63.8	31	82.7
Wayne	197	116	313	46	84.0	75	186.1	86	162.8	57	90.4	50	99.5
Wyoming	147	71	218	60	168.0	46	196.5	59	212.4	31	101.1	24	105.2
Southeast	15,419	9,988	**25,407**	3,862	57.5	7,117	139.9	5,282	102.4	4,680	96.4	4,475	126.0
Berks	1,310	782	2,092	336	60.1	509	135.8	479	113.9	382	96.7	386	129.3
Bucks	1,796	1,221	3,017	382	48.5	779	152.8	641	93.0	592	86.9	623	135.5
Chester	1,057	708	1,765	214	30.9	506	115.2	369	67.7	322	64.4	354	109.3
Delaware	1,787	1,267	3,054	446	59.9	868	161.2	596	106.7	575	104.6	569	142.1
Lancaster	1,593	972	2,565	410	57.1	677	138.8	544	109.2	488	100.5	446	114.3
Montgomery	2,024	1,448	3,472	402	40.0	868	123.0	690	80.6	707	88.1	809	133.8
Philadelphia	5,216	3,194	8,410	1,527	74.6	2,650	139.4	1,709	119.2	1,421	110.5	1,104	117.6
Schuylkill	636	396	1,032	145	90.0	260	201.6	254	160.5	193	125.3	184	136.5

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	38,504	25,142	**63,646**	9,261	58.3	17,155	142.2	13,734	108.2	12,062	94.5	11,537	117.2
North Central	1,797	1,247	**3,044**	583	68.7	766	102.0	594	92.0	536	79.7	594	107.1
Bradford	170	130	300	39	50.2	89	179.7	71	115.1	46	69.0	55	99.7
Centre	276	191	467	75	40.3	138	56.6	83	67.8	86	74.1	88	101.5
Clinton	115	94	209	53	106.1	38	97.8	49	143.1	41	110.7	30	94.5
Columbia	195	153	348	51	61.3	90	128.2	62	104.3	73	113.0	75	138.0
Lycoming	324	208	532	67	47.7	140	124.7	110	97.3	99	81.9	126	129.9
Montour	56	39	95	23	107.0	18	122.5	15	86.8	19	95.0	21	124.5
Northumberland	290	188	478	89	84.0	118	149.9	78	83.2	78	77.9	119	136.2
Potter	43	21	64	29	135.9	9	NSR	9	NSR	11	58.3	7	NSR
Snyder	93	53	146	27	52.0	40	103.7	33	88.0	22	58.1	24	80.3
Sullivan	25	19	44	14	208.6	14	320.4	10	188.0	5	67.2	3	NSR
Tioga	103	94	197	64	120.8	44	120.1	43	115.3	30	68.8	16	42.2
Union	107	57	164	52	102.2	28	55.2	31	64.9	26	65.6	30	91.0
South Central	4,604	2,885	**7,489**	1,181	56.1	1,885	124.8	1,675	97.9	1,428	83.8	1,325	101.8
Adams	283	162	445	88	67.8	111	124.5	87	82.8	79	75.7	80	100.7
Bedford	171	135	306	61	103.4	71	182.4	79	156.5	47	88.6	48	103.0
Blair	372	228	600	81	52.9	154	137.3	136	111.9	130	97.8	99	87.7
Cumberland	523	371	894	140	48.8	208	89.0	194	82.8	171	73.1	181	97.8
Dauphin	708	423	1,131	173	51.1	303	122.2	272	99.5	208	74.8	175	94.9
Franklin	329	211	540	78	40.1	113	87.0	121	82.5	96	66.6	133	106.4
Fulton	64	32	96	35	191.2	25	203.2	19	123.5	15	98.2	2	NSR
Huntingdon	155	110	265	33	63.2	85	192.2	56	117.4	53	113.0	39	103.7
Juniata	57	51	108	18	58.0	21	103.8	23	96.2	27	111.0	20	96.5
Lebanon	439	283	722	115	68.8	168	140.1	145	112.1	136	102.6	158	139.1
Mifflin	144	87	231	33	55.8	57	151.9	55	120.8	45	96.4	42	96.7
Perry	217	122	339	67	113.4	101	258.5	80	165.6	49	97.3	42	133.1
York	1,142	670	1,812	259	46.4	468	121.4	408	87.0	372	84.1	306	99.1

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	38,504	25,142	**63,646**	9,261	58.3	17,155	142.2	13,734	108.2	12,062	94.5	11,537	117.2
Northwest	2,694	1,816	**4,510**	670	58.6	1,210	145.9	962	106.7	876	90.6	792	100.7
Cameron	18	21	39	13	232.8	10	281.7	8	NSR	4	NSR	4	NSR
Clarion	158	97	255	30	60.1	61	150.3	61	171.0	60	152.4	43	128.0
Clearfield	254	204	458	67	75.3	126	174.7	104	116.7	89	102.8	72	99.0
Crawford	276	193	469	59	51.7	147	194.4	89	105.6	87	92.5	87	117.5
Elk	128	85	213	38	104.1	42	182.9	39	114.2	52	146.3	42	138.3
Erie	719	460	1,179	148	40.2	373	132.0	247	92.0	222	80.2	189	92.1
Forest	18	25	43	14	247.8	10	101.8	11	153.5	8	NSR	0	NSR
Jefferson	181	111	292	44	81.6	89	237.2	58	132.4	60	124.7	41	99.2
Lawrence	261	184	445	52	47.6	104	141.3	84	97.1	90	92.4	115	135.1
McKean	98	64	162	46	87.5	23	59.7	38	85.4	25	56.9	30	81.0
Mercer	246	190	436	47	32.4	99	101.5	94	84.8	96	79.3	100	93.5
Venango	215	123	338	78	119.1	78	181.2	90	172.5	49	78.2	43	87.4
Warren	122	59	181	34	71.8	48	152.1	39	96.3	34	71.5	26	66.9
Southwest	8,352	5,504	**13,856**	1,555	49.7	3,819	155.1	3,112	116.8	2,747	94.2	2,624	111.6
Allegheny	3,289	2,237	5,526	549	38.9	1,535	127.1	1,205	101.8	1,143	89.1	1,094	106.6
Armstrong	269	166	435	65	81.5	120	227.8	110	159.1	71	92.2	69	107.9
Beaver	480	308	788	77	39.4	203	143.4	193	114.5	136	71.2	179	112.8
Butler	553	385	938	129	54.6	248	159.3	216	111.1	189	97.4	156	110.7
Cambria	539	332	871	93	57.3	249	200.2	196	141.8	160	101.9	173	127.8
Fayette	492	317	809	91	57.8	229	196.8	185	130.9	159	102.4	146	117.4
Greene	67	37	104	12	27.3	29	77.6	18	44.6	25	59.1	20	66.7
Indiana	306	215	521	60	53.6	150	156.9	120	157.8	91	104.2	100	142.2
Somerset	269	174	443	56	68.1	109	164.3	97	121.1	95	112.1	86	117.5
Washington	739	485	1,224	148	60.7	338	190.8	287	139.3	228	99.7	223	121.9
Westmoreland	1,349	848	2,197	275	68.0	609	212.2	485	132.3	450	108.6	378	109.7

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

INJURY HOSPITALIZATIONS: MOTOR VEHICLE TRAFFIC

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

BLACK POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	1,035	130.2	122.3-138.2
Chester	129	86.0	71.1-100.8
Dauphin	203	87.9	75.8-100.0
Delaware	707	132.3	122.6-142.1
Montgomery	328	92.0	82.1-102.0
Philadelphia	4,005	118.2	114.6-121.9
Pennsylvania	7,553	110.0	107.5-112.5

WHITE POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	4,028	74.1	71.8-76.4
Chester	1,501	68.3	64.9-71.8
Dauphin	806	80.0	74.5-85.5
Delaware	2,131	97.1	93.0-101.2
Montgomery	2,658	77.4	74.4-80.3
Philadelphia	2,678	72.8	70.1-75.6
Pennsylvania	48,774	87.9	87.1-88.7

HISPANIC POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Berks	127	51.1	42.2-60.0
Lancaster	44	23.2	16.4-30.1
Lehigh	195	63.1	54.2-71.9
Philadelphia	934	106	98.8-112.3
Pennsylvania	2,468	86.2	82.8-89.6

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL HOSPITALIZATION RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

Select Counties		Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+	
County and Race		Cty. Pop.	Male	Female	All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Allegheny	Black	13.4%	621	414	**1,035**	18.7%	166	61.4	338	194.7	253	167.0	196	145.6	82	91.3
	White	82.4%	2,365	1,663	**4,028**	72.9%	333	31.0	1,033	111.5	841	82.7	870	79.7	951	103.5
Chester	Black	6.2%	82	47	**129**	7.3%	14	28.2	44	125.1	32	107.8	20	82.3	19	121.3
	White	88.3%	884	617	**1,501**	85.0%	180	30.4	408	108.3	300	61.7	285	64.2	328	112.8
Dauphin	Black	18.1%	128	75	**203**	17.9%	47	58.0	63	131.0	51	104.9	25	64.6	17	83.2
	White	75.8%	507	299	**806**	71.3%	107	47.9	195	110.9	184	86.0	170	76.4	150	96.0
Delaware	Black	19.2%	411	296	**707**	23.2%	139	77.4	236	183.4	163	147.0	116	153.1	53	131.0
	White	74.4%	1,247	884	**2,131**	69.8%	271	53.6	569	154.5	377	90.3	414	95.1	500	145.0
Montgomery	Black	8.8%	200	128	**328**	9.4%	55	54.5	111	146.9	74	92.5	63	108.0	25	74.7
	White	83.2%	1,542	1,112	**2,654**	76.5%	273	34.1	614	110.3	499	70.3	558	82.6	714	133.0
Philadelphia	Black	45.1%	2,513	1,492	**4,005**	47.6%	833	78.0	1,272	170.7	879	134.0	679	122.7	342	94.6
	White	45.3%	1,617	1,060	**2,677**	31.8%	241	31.7	774	89.2	533	82.6	530	88.4	600	113.2
Pennsylvania	Black	10.9%	4,719	2,832	**7,551**	11.8%	1,482	67.1	2,441	156.3	1,725	126.3	1,290	121.4	615	94.2
	White	84.5%	29,182	19,497	**48,679**	76.5%	6,144	48.2	12,431	128.5	10,345	94.7	9,711	88.4	10,143	114.5

INJURY HOSPITALIZATIONS: SELF-POISONING

In 2011, among Pennsylvania residents, there were 7,583 hospitalizations due to self-inflicted poisoning (self-poisoning). On average, one resident was hospitalized every 69 minutes.

Injury Definition

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

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

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

HIGHLIGHTS

- *Age-adjusted rates generally **decreased** from 2007 to 2011.*
- *Most common demographic: white females, ages 15 - 54.*
- *Of all Pennsylvania counties, **Schuylkill, Carbon** and **Cameron** had the highest rates.*

Trends Over Time

- Age-adjusted hospitalization rates for self-poisoning decreased by 10 percent from 67.5 hospitalizations per 100,000 population in 2007 to 60.8 hospitalizations in 2010; rates then increased marginally by about 1 percent to 61.3 hospitalizations per 100,000 population in 2011.
- Females had higher age-adjusted self-poisoning hospitalization rates than males from 2007 to 2011 (rates were 72.4 and 50.2 in 2011 for females and males, respectively).
- Overall, black males had higher age-adjusted self-poisoning hospitalization rates than white males during 2007 to 2011.

Demographic Trends

- Generally, females had significantly higher self-poisoning hospitalization rates than males for all age groups except ages 75 to 79 and 85 and older during 2007 to 2011.
- Among males, whites had significantly higher self-poisoning hospitalization age-adjusted rates for ages 15 to 29, while blacks had significantly higher rates for ages 35 to 64.
- Rural populations had higher self-poisoning hospitalization age-adjusted rates for ages under 40, while urban populations generally had higher rates for ages 50 and older.

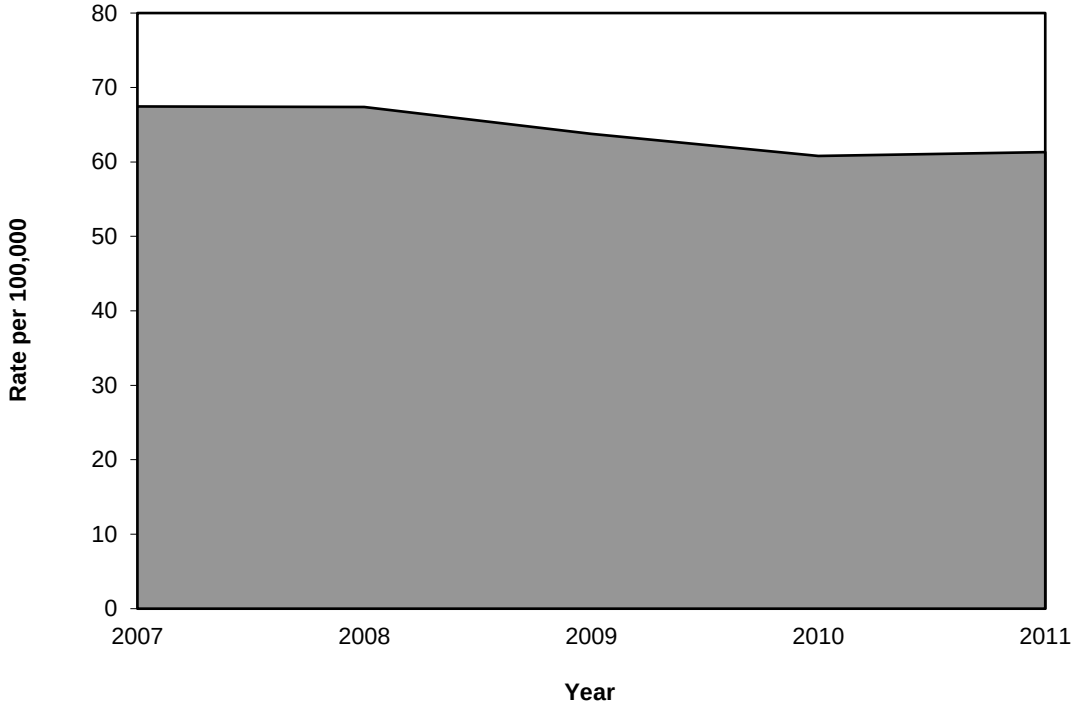
Regional Trends

- The Northwest Health District had the highest age-adjusted self-poisoning hospitalization rate while the South Central Health District had the lowest rate.
- Twenty-three counties had age-adjusted self-poisoning hospitalization rates in 2007 - 2011 that were significantly higher than the comparable state rate; fifteen were rural counties while eight were urban counties.

INJURY HOSPITALIZATIONS: SELF-POISONING

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND
AGE-ADJUSTED HOSPITALIZATION RATES
PENNSYLVANIA RESIDENTS, 2007-2011

Year	No.	Rate
2007	8,136	67.5
2008	8,173	67.4
2009	7,826	63.8
2010	7,527	60.8
2011	7,583	61.3



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2007-2011

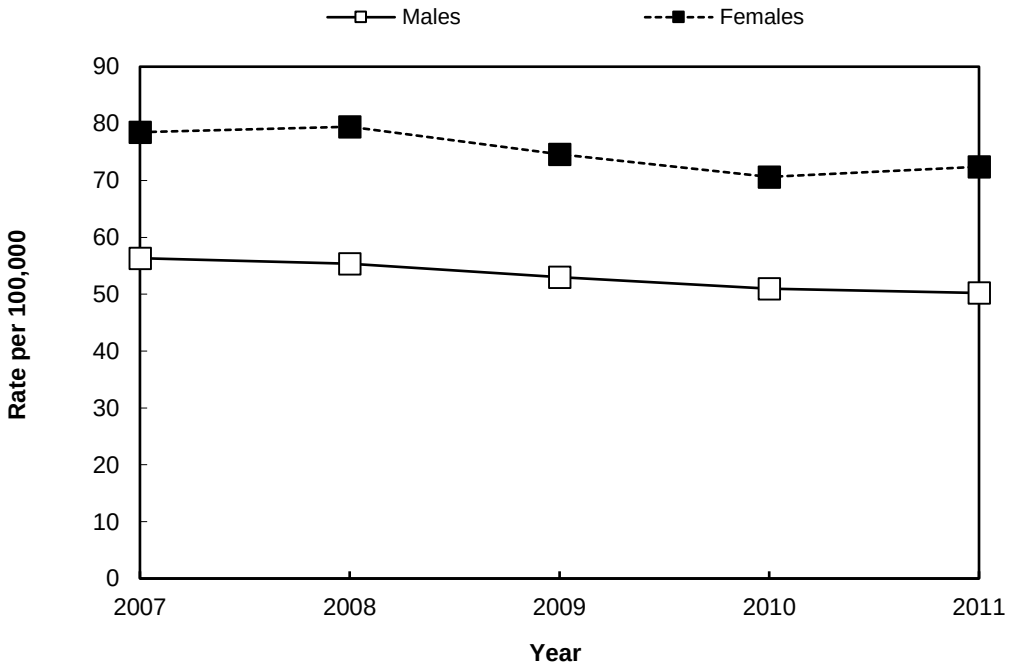
Year	Northwest	North Central	Northeast	Southeast	South Central	Southwest
2007	88.5	65.0	73.1	68.0	56.5	64.0
2008	77.9	66.1	73.8	71.5	51.4	63.2
2009	80.4	57.1	69.7	66.1	53.0	59.6
2010	77.5	63.9	76.3	59.7	50.3	55.2
2011	68.9	59.2	74.8	59.0	58.2	59.3

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2007-2011 based on ICD-9 codes. See Technical Notes.

INJURY HOSPITALIZATIONS: SELF-POISONING

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX PENNSYLVANIA RESIDENTS, 2007-2011

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2007	3,366	56.3	2007	4,769	78.5
2008	3,330	55.4	2008	4,842	79.4
2009	3,222	53.0	2009	4,603	74.6
2010	3,128	51.0	2010	4,398	70.6
2011	3,079	50.2	2011	4,503	72.4



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2007-2011

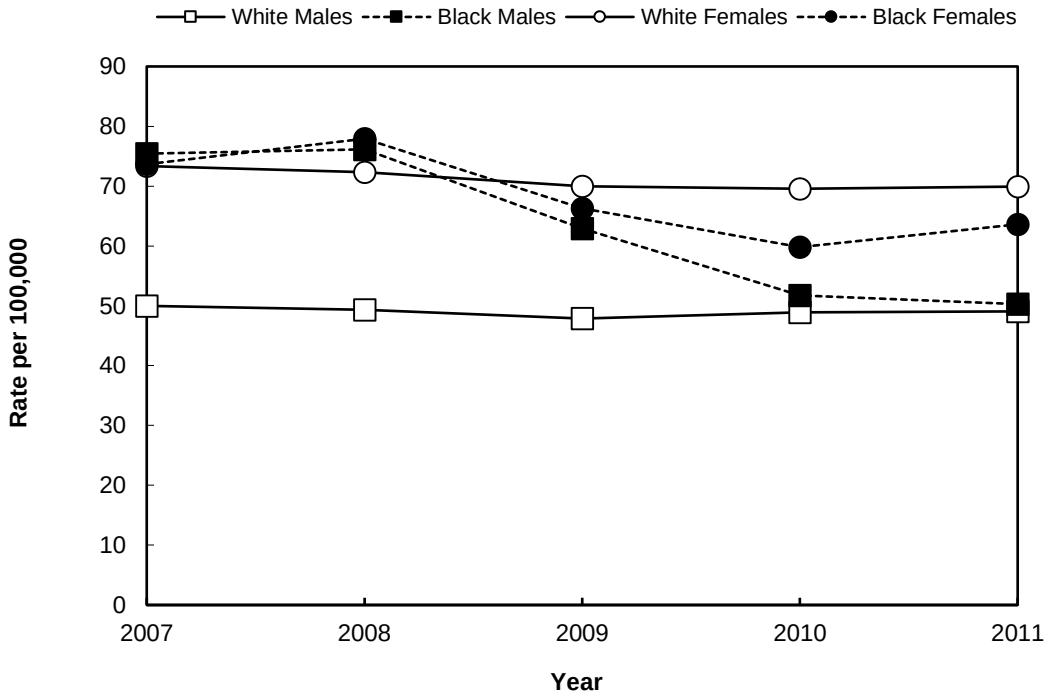
Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2007	58.1	52.0	2007	75.5	87.2
2008	56.8	52.0	2008	77.4	85.4
2009	53.6	51.8	2009	72.9	79.8
2010	51.2	50.8	2010	66.7	82.2
2011	49.6	52.1	2011	69.3	82.0

NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania. Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY HOSPITALIZATIONS: SELF-POISONING

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX AND RACE OR ETHNICITY PENNSYLVANIA RESIDENTS, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	2,559	449	3,784	512	182	231
2008	2,539	454	3,745	548	184	285
2009	2,485	392	3,651	473	168	236
2010	2,447	342	3,507	435	173	215
2011	2,521	343	3,616	479	106	175



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	50.0	75.5	73.4	73.7	63.1	85.1
2008	49.3	76.1	72.3	77.9	67.1	97.8
2009	47.9	62.9	70.0	66.3	57.4	75.9
2010	48.9	51.7	69.6	59.8	49.5	64.0
2011	49.0	50.3	69.9	63.6	27.8	47.7

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 AVERAGE ANNUAL HOSPITALIZATION RATES
PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2007-2011

AGE	PA TOTAL		MALE		FEMALE			URBAN		RURAL		
GROUP	No.	Rate	No.	Rate	No.	Rate		No.	Rate	No.	Rate	
TOTAL	**39,245**	**62.4**	**16,125**	**52.7**	**23,115**	**71.5**		**28,275**	**61.9**	**10,970**	**63.7**	
< 5	5	NSR	3	NSR	2	NSR		5	NSR	0	NSR	
5-9	11	0.3	6	NSR	5	NSR		10	0.4	1	NSR	
10-14	432	10.8	77	3.8	355	18.2	*	312	10.6	120	11.4	
15-19	3,854	84.2	1,324	57.1	2,530	111.9	*	2,695	81.6	1,159	90.9	*
20-24	4,635	104.6	1,978	88.1	2,657	121.7	*	3,298	103.3	1,337	108.2	
25-29	4,309	113.2	1,801	93.1	2,508	134.0	*	3,041	105.9	1,268	135.9	*
30-34	3,849	103.4	1,687	90.2	2,160	116.8	*	2,747	99.5	1,102	114.7	*
35-39	4,191	107.2	1,748	89.8	2,443	124.5	*	2,911	101.6	1,280	122.9	*
40-44	4,674	107.9	1,972	91.9	2,701	123.5	*	3,436	108.5	1,238	106.0	
45-49	4,806	103.7	2,027	88.7	2,778	118.1	*	3,433	101.8	1,373	108.7	*
50-54	3,601	77.5	1,528	67.1	2,072	87.5	*	2,659	79.2	942	73.2	*
55-59	2,082	49.6	908	44.5	1,174	54.5	*	1,574	52.4	508	42.5	*
60-64	1,132	31.8	458	26.9	674	36.3	*	850	33.7	282	27.0	*
65-69	600	22.1	215	17.1	385	26.4	*	453	24.0	147	17.8	*
70-74	379	17.3	131	13.4	248	20.3	*	297	19.4	82	12.3	*
75-79	284	15.5	121	15.9	163	15.2		220	17.1	64	11.7	*
80-84	233	15.9	80	14.2	153	16.9	*	193	18.5	40	9.4	*
85 +	168	11.4	61	13.3	107	10.5	*	141	13.3	27	6.5	*

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

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.
Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY HOSPITALIZATIONS: SELF-POISONING

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH AVERAGE ANNUAL HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2007-2011

AGE	WHITE MALE		BLACK MALE			WHITE FEMALE		BLACK FEMALE			HISPANICS	
GROUP	No.	Rate	No.	Rate		No.	Rate	No.	Rate		No.	Rate
TOTAL	**12,551**	**48.4**	**1,980**	**60.7**		**18,303**	**67.2**	**2,447**	**68.2**		**1,955**	**59.8**
< 5	0	NSR	3	NSR		0	NSR	2	NSR		0	NSR
5-9	3	NSR	2	NSR		0	NSR	2	NSR		3	NSR
10-14	43	2.6	19	6.8	*	219	14.1	48	17.9	*	51	16.6
15-19	1,014	54.3	126	39.4	*	1,779	97.6	361	116.9	*	252	78.0
20-24	1,523	84.1	212	69.6	*	2,000	113.9	328	108.9		265	89.3
25-29	1,414	90.0	187	75.1	*	1,955	130.0	280	111.4	*	248	91.3
30-34	1,312	85.5	190	85.8		1,656	110.5	259	110.6		243	95.3
35-39	1,334	82.0	230	108.9	*	1,950	120.4	263	114.1		223	93.0
40-44	1,476	80.6	329	150.8	*	2,144	116.3	297	122.2		230	106.9
45-49	1,575	79.3	282	130.2	*	2,330	115.5	250	101.4		176	93.5
50-54	1,220	60.6	195	99.0	*	1,745	84.7	184	79.2		121	84.6
55-59	728	39.9	121	76.0	*	986	52.0	100	50.9		68	62.8
60-64	369	24.0	50	41.5	*	585	35.4	36	22.9	*	43	56.2
65-69	185	16.1	16	19.8		338	25.8	18	15.9	*	15	28.7
70-74	117	13.1	9	NSR		219	19.8	13	13.9	*	7	19.5
75-79	108	15.4	5	NSR		149	15.2	3	NSR		5	NSR
80-84	73	14.0	3	NSR		145	17.4	1	NSR		4	NSR
85 +	57	13.4	1	NSR		103	10.9	2	NSR		1	NSR

* 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 AVERAGE ANNUAL HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2007-2011

AGE	NORTHWEST			NORTH CENTRAL			NORTHEAST			SOUTHEAST			SOUTH CENTRAL			SOUTHWEST		
GROUP	No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate	
TOTAL	**3,418**	**73.8**		**2,071**	**60.1**		**5,583**	**70.7**		**16,147**	**64.2**		**4,289**	**51.8**		**7,737**	**57.2**	
< 5	0	NSR		0	NSR		0	NSR		4	NSR		0	NSR		1	NSR	
5-9	0	NSR	-	0	NSR		1	NSR		5	NSR		0	NSR		3	NSR	
10-14	40	13.7	+	25	13.1		78	15.5	+	191	11.5		35	6.6	-	57	7.1	-
15-19	347	100.7	+	238	78.1		617	107.5	+	1,582	85.5		401	70.0	-	669	71.9	-
20-24	438	139.5	+	275	74.9	-	722	135.6	+	1,853	103.0		485	92.5	-	862	96.5	-
25-29	415	159.8	+	265	142.1	+	599	133.7	+	1,691	103.0	-	492	100.0	-	849	109.3	
30-34	346	132.5	+	190	101.2		576	128.7	+	1,484	94.8	-	434	88.0	-	826	107.8	
35-39	385	139.2	+	225	113.7		570	117.2		1,602	99.5	-	524	99.5		891	110.1	
40-44	411	133.2	+	228	104.5		648	117.7	+	1,967	111.8		485	83.2	-	937	102.5	
45-49	429	128.0	+	248	105.2		612	103.3		1,982	107.2		560	90.7	-	984	97.8	
50-54	290	83.8		165	69.1		486	82.0		1,587	88.0	+	375	61.3	-	695	66.0	-
55-59	145	45.4		95	43.0	-	293	54.4		910	57.4	+	210	37.3	-	428	44.2	-
60-64	76	27.7	-	38	19.7	-	168	35.4		493	37.5	+	132	27.3		222	27.1	-
65-69	39	18.1	-	29	18.6	-	79	21.5		274	27.9	+	67	17.8	-	110	17.9	-
70-74	17	9.5	-	19	14.9		47	16.2		192	24.4	+	35	11.8	-	67	12.9	-
75-79	15	10.1	-	18	17.4		32	13.5		133	20.2	+	30	12.5	-	54	12.1	-
80-84	14	11.8	-	9	NSR		24	12.7	-	121	23.1	+	14	7.7	-	49	13.0	-
85 +	11	9.5		4	NSR		31	16.5	+	76	14.1	+	10	5.7	-	33	8.7	-

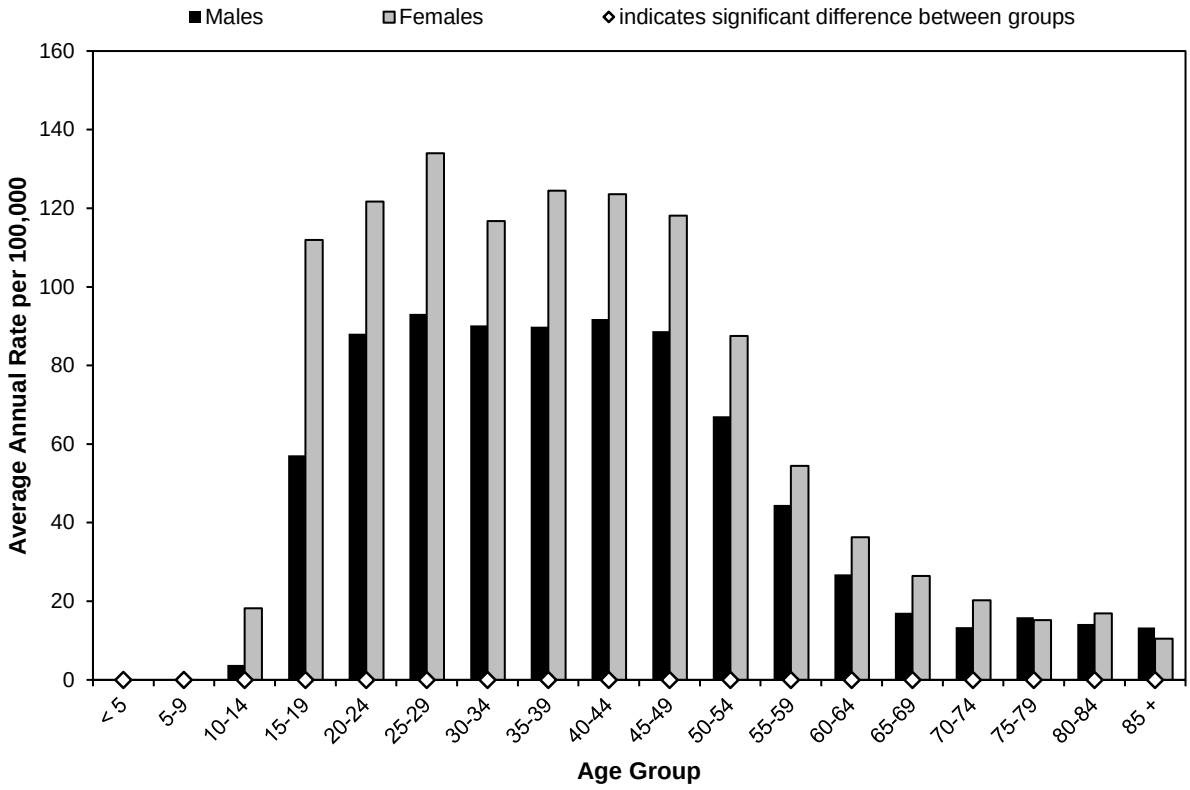
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

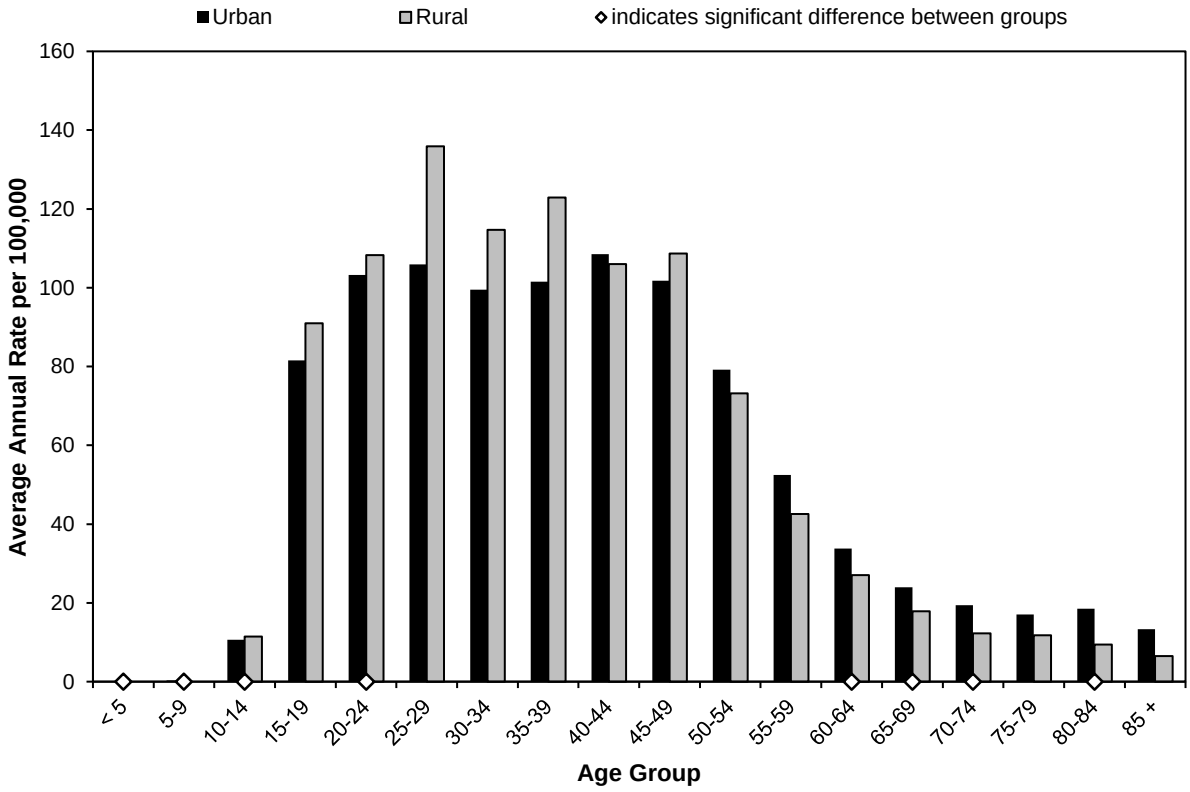
NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total.

INJURY HOSPITALIZATIONS: SELF-POISONING

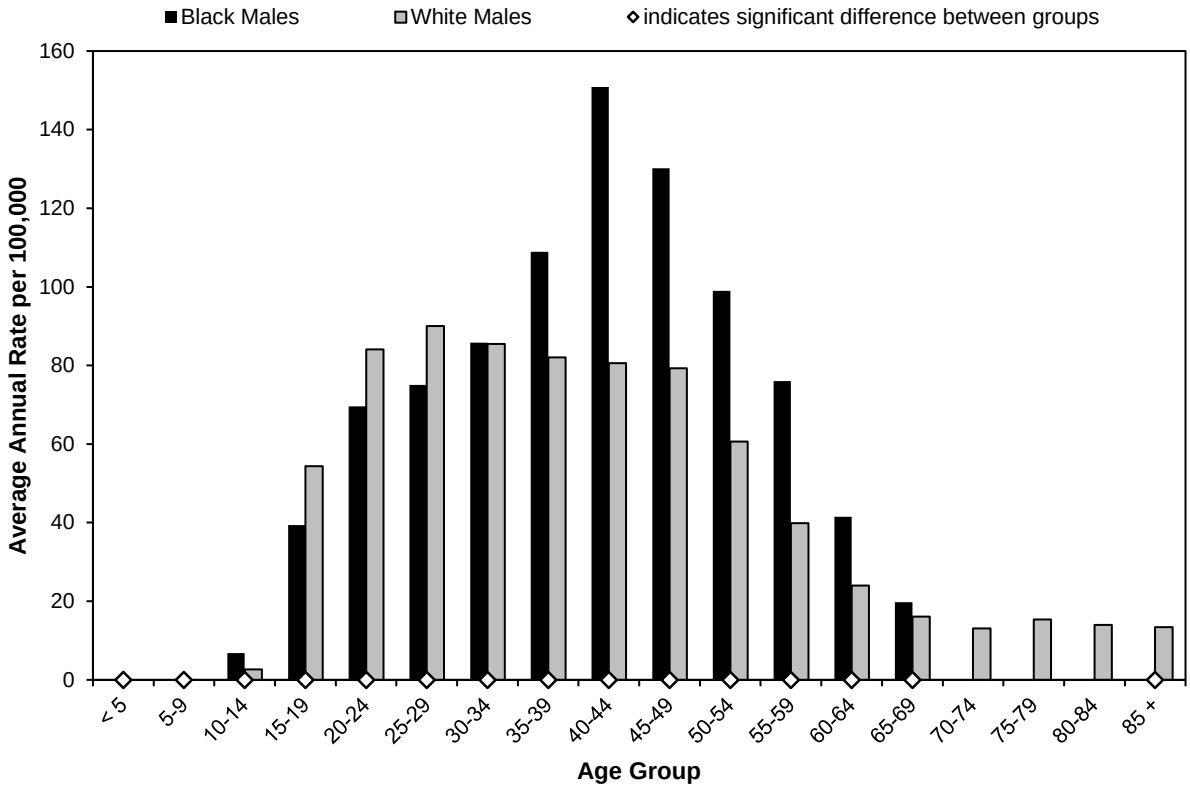
AVERAGE ANNUAL HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2007-2011

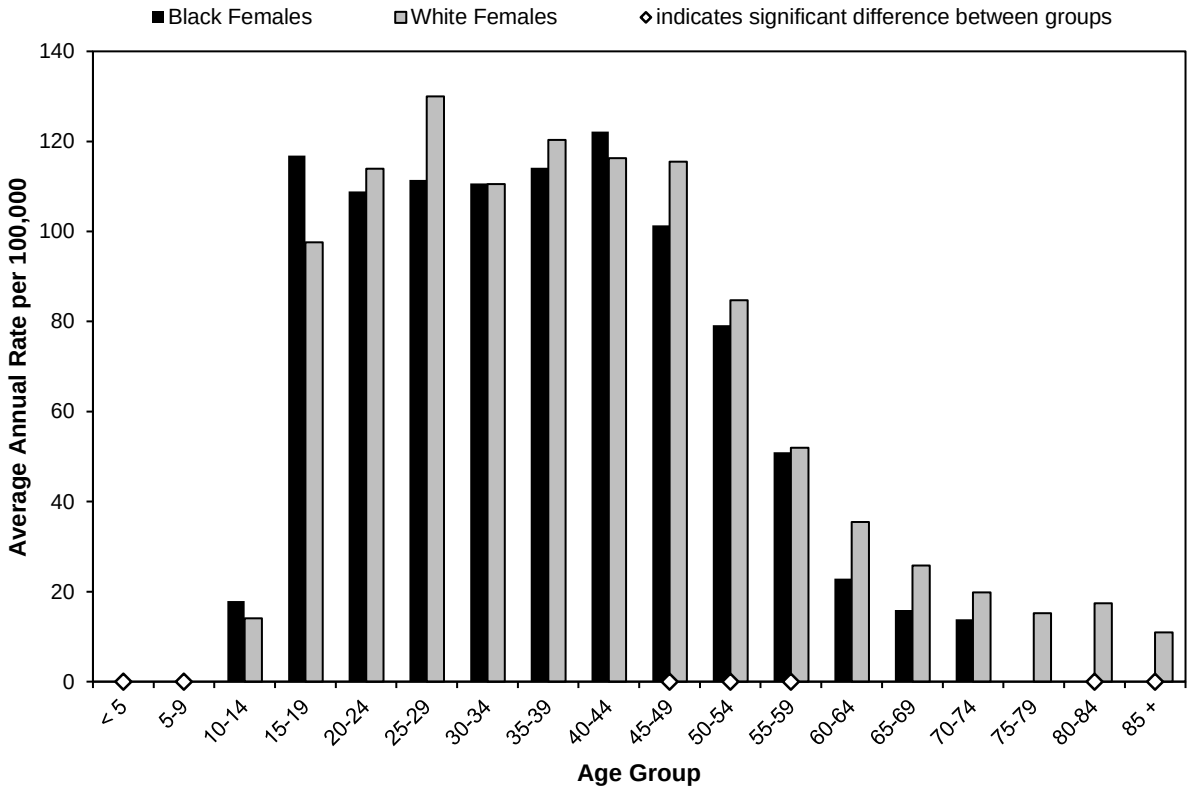




INJURY HOSPITALIZATIONS: SELF-POISONING

AVERAGE ANNUAL HOSPITALIZATIONS RATES BY SEX AND RACE
PENNSYLVANIA RESIDENTS, 2007-2011





INJURY HOSPITALIZATIONS: SELF-POISONING

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2007-2011

District/County	No.	Rate	CI (95%)	
Northeast	5,583	73.5	71.6-75.4	+
Carbon	365	123.5	110.8-136.2	+
Lackawanna	816	81.3	75.7-86.8	+
Lehigh	1,365	82.5	78.1-86.9	+
Luzerne	715	46.8	43.3-50.2	-
Monroe	668	79.8	73.7-85.8	+
Northampton	1,272	88.7	83.8-93.5	+
Pike	65	22.3	16.9-27.7	-
Susquehanna	89	47.4	37.5-57.2	-
Wayne	162	68.5	57.9-79.0	
Wyoming	66	50.1	38.0-62.2	-
North Central	2,071	62.3	59.6-65.0	
Bradford	255	92.4	81.0-103.7	+
Centre	444	61.9	56.2-67.7	
Clinton	72	38.7	29.7-47.6	-
Columbia	230	76.0	66.2-85.8	+
Lycoming	249	43.9	38.4-49.3	-
Montour	86	106.1	83.7-128.5	+
Northumberland	403	95.5	86.2-104.8	+
Potter	40	53.2	36.7-69.7	
Snyder	92	51.6	41.1-62.2	-
Sullivan	12	NSR		
Tioga	81	44.2	34.6-53.8	-
Union	107	46.5	37.7-55.4	-
Northwest	3,418	78.7	76.1-81.4	+
Cameron	27	118.1	73.5-162.6	+
Clarion	54	29.7	21.8-37.6	-
Clearfield	248	62.6	54.8-70.3	
Crawford	291	71.6	63.3-79.8	
Elk	108	78.2	63.4-92.9	
Erie	1,196	88.2	83.2-93.2	+
Forest	9	NSR		
Jefferson	129	63.7	52.7-74.7	
Lawrence	371	92.1	82.7-101.5	+
McKean	142	69.0	57.6-80.3	
Mercer	530	99.3	90.9-107.8	+
Venango	191	79.6	68.3-90.9	+
Warren	122	64.3	52.9-75.8	

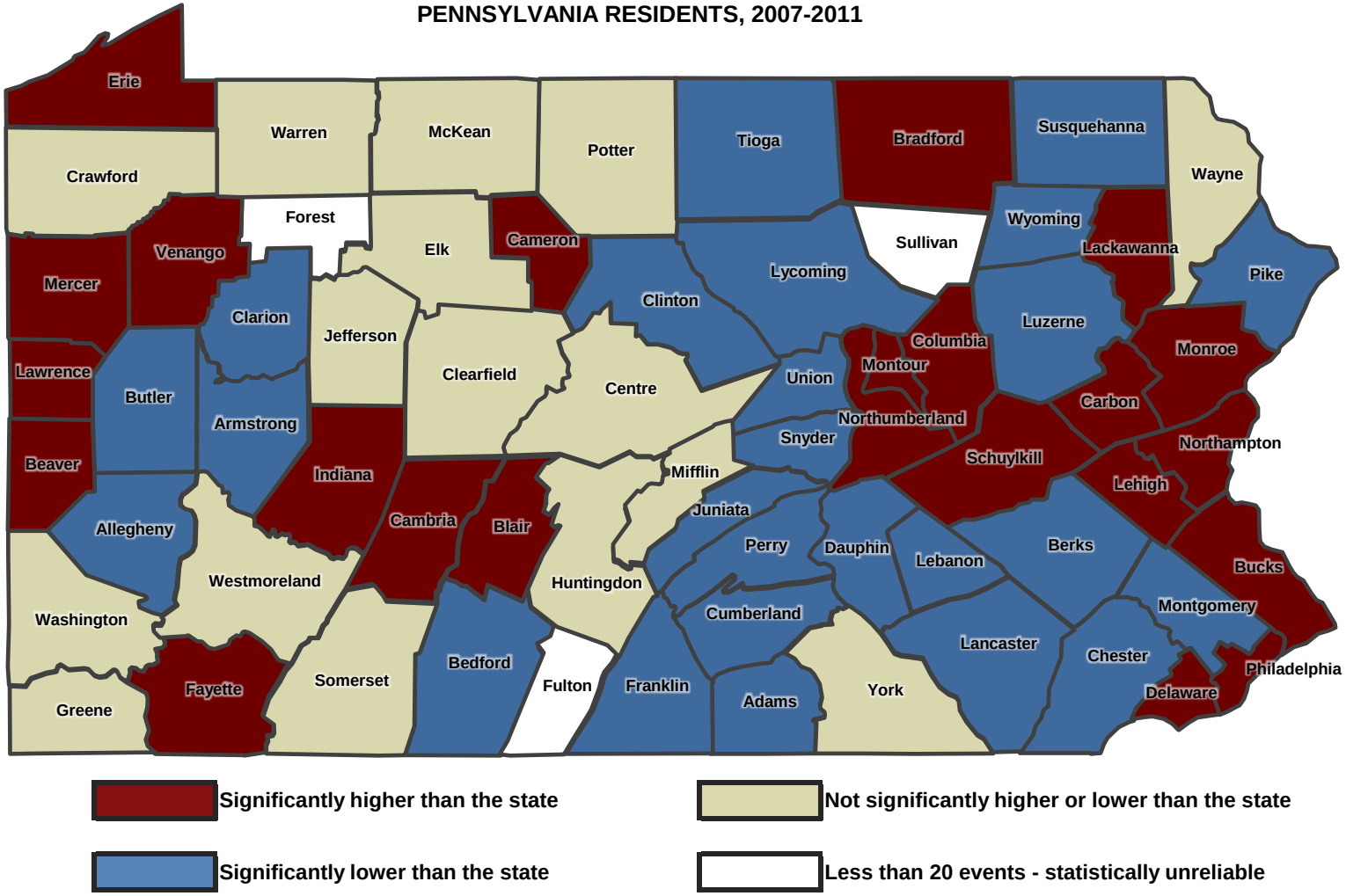
District/County	No.	Rate	CI (95%)	
Southeast	16,147	64.9	63.9-65.9	
Berks	1,161	58.7	55.3-62.1	-
Bucks	2,094	69.4	66.4-72.4	+
Chester	983	40.4	37.9-42.9	-
Delaware	2,106	76.0	72.7-79.2	+
Lancaster	1,202	49.3	46.5-52.1	-
Montgomery	1,968	51.1	48.9-53.4	-
Philadelphia	5,736	77.5	75.5-79.6	+
Schuylkill	897	129.5	121.0-138.0	+
South Central	4,289	54.0	52.4-55.6	-
Adams	169	34.2	29.1-39.4	-
Bedford	78	35.5	27.6-43.4	-
Blair	470	79.2	72.0-86.3	+
Cumberland	510	44.6	40.8-48.5	-
Dauphin	693	54.6	50.6-58.7	-
Franklin	300	44.2	39.2-49.2	-
Fulton	19	NSR		
Huntingdon	156	70.1	59.1-81.1	
Juniata	44	39.8	28.0-51.5	-
Lebanon	223	37.1	32.2-42.0	-
Mifflin	150	73.2	61.5-84.9	
Perry	109	49.8	40.4-59.1	-
York	1,368	65.3	61.9-68.8	
Southwest	7,737	60.3	58.9-61.6	-
Allegheny	3,205	54.0	52.1-55.8	-
Armstrong	165	55.1	46.7-63.5	-
Beaver	608	78.5	72.3-84.8	+
Butler	304	34.5	30.6-38.3	-
Cambria	670	101.5	93.8-109.2	+
Fayette	508	77.2	70.5-83.9	+
Greene	119	62.8	51.5-74.1	
Indiana	312	79.1	70.3-87.9	+
Somerset	215	58.9	51.0-66.7	
Washington	577	60.2	55.3-65.1	
Westmoreland	1,054	63.2	59.3-67.0	
Pennsylvania	39,245	64.2	63.5-64.8	

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

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

INJURY HOSPITALIZATIONS: SELF-POISONING

AGE-ADJUSTED HOSPITALIZATION RATES BY COUNTY, WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE PENNSYLVANIA RESIDENTS, 2007-2011



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

INJURY HOSPITALIZATIONS: SELF-POISONING

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AVERAGE ANNUAL HOSPITALIZATION RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2007-2011

Geography	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	16,125	23,115	**39,240**	10,990	69.1	12,605	104.5	11,264	88.7	3,486	27.3	900	9.1
Northeast	2,267	3,313	**5,580**	2,017	103.0	1,801	126.4	1,382	85.5	296	17.9	87	6.7
Carbon	147	218	365	138	192.7	129	233.1	87	129.9	8	NSR	3	NSR
Lackawanna	348	468	816	280	111.5	280	140.4	186	90.9	59	27.2	11	5.8
Lehigh	561	804	1,365	520	114.4	456	139.6	312	88.1	57	16.6	20	7.6
Luzerne	306	406	712	252	69.6	208	72.1	198	61.7	45	13.7	12	4.2
Monroe	227	441	668	219	96.4	201	137.8	197	108.5	43	24.2	8	NSR
Northampton	547	725	1,272	465	122.1	412	152.3	311	102.3	55	18.2	29	12.5
Pike	16	49	65	23	32.6	15	35.5	18	28.6	9	NSR	0	NSR
Susquehanna	39	50	89	38	77.4	34	103.6	16	38.9	1	NSR	0	NSR
Wayne	51	111	162	67	122.4	43	106.7	40	75.7	10	15.9	2	NSR
Wyoming	25	41	66	15	42.0	23	98.3	17	61.2	9	NSR	2	NSR
Southeast	6,901	9,246	**16,147**	3,862	57.5	4,903	96.4	5,034	97.6	1,884	38.8	464	13.1
Berks	460	701	1,161	362	64.7	386	103.0	293	69.7	93	23.5	27	9.0
Bucks	891	1,203	2,094	700	88.9	612	120.0	595	86.4	141	20.7	46	10.0
Chester	379	604	983	343	49.6	299	68.1	247	45.3	68	13.6	26	8.0
Delaware	937	1,169	2,106	498	66.9	587	109.0	719	128.8	222	40.4	80	20.0
Lancaster	463	739	1,202	388	54.0	385	78.9	338	67.9	70	14.4	21	5.4
Montgomery	736	1,232	1,968	706	70.3	515	73.0	534	62.4	150	18.7	63	10.4
Philadelphia	2,676	3,060	5,736	539	26.3	1,815	95.5	2,079	145.0	1,108	86.2	195	20.8
Schuylkill	359	538	897	326	202.4	304	235.7	229	144.7	32	20.8	6	NSR

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	16,125	23,115	**39,240**	10,990	69.1	12,605	104.5	11,264	88.7	3,486	27.3	900	9.1
North Central	742	1,328	**2,070**	826	97.3	665	88.5	475	73.6	78	11.6	27	4.9
Bradford	83	172	255	111	143.0	76	153.5	61	98.9	7	NSR	0	NSR
Centre	133	311	444	193	103.7	124	50.9	102	83.4	17	14.7	8	NSR
Clinton	30	42	72	43	86.1	16	41.2	13	38.0	0	NSR	0	NSR
Columbia	91	139	230	82	98.6	77	109.6	55	92.5	10	15.5	6	NSR
Lycoming	110	139	249	77	54.8	73	65.0	85	75.2	8	NSR	6	NSR
Montour	27	59	86	30	139.6	41	279.0	11	63.6	4	NSR	0	NSR
Northumberland	141	261	402	160	150.9	124	157.6	93	99.2	21	21.0	5	NSR
Potter	17	23	40	14	65.6	19	146.0	5	NSR	2	NSR	0	NSR
Snyder	32	60	92	38	73.1	41	106.3	12	32.0	1	NSR	0	NSR
Sullivan	5	7	12	6	89.4	6	NSR	0	NSR	0	NSR	0	NSR
Tioga	32	49	81	25	47.2	28	76.4	22	59.0	4	NSR	2	NSR
Union	41	66	107	47	92.4	40	78.9	16	33.5	4	NSR	0	NSR
South Central	1,714	2,575	**4,289**	1,371	65.1	1,448	95.9	1,148	67.1	259	15.2	63	4.8
Adams	58	111	169	66	50.9	47	52.7	45	42.8	9	NSR	2	NSR
Bedford	28	50	78	30	50.8	27	69.3	17	33.7	4	NSR	0	NSR
Blair	194	276	470	180	117.6	138	123.0	118	97.1	30	22.6	4	NSR
Cumberland	185	325	510	169	58.9	167	71.5	139	59.3	27	11.5	8	NSR
Dauphin	290	403	693	124	36.6	250	100.8	226	82.7	74	26.6	19	10.3
Franklin	110	190	300	102	52.5	99	76.2	79	53.9	18	12.5	2	NSR
Fulton	11	8	19	12	65.6	4	NSR	3	NSR	0	NSR	0	NSR
Huntingdon	56	100	156	70	134.0	59	133.4	18	37.7	9	NSR	0	NSR
Juniata	18	26	44	16	51.6	16	79.1	12	50.2	0	NSR	0	NSR
Lebanon	77	146	223	77	46.1	86	71.7	42	32.5	15	11.3	3	NSR
Mifflin	54	96	150	46	77.8	60	159.9	36	79.1	8	NSR	0	NSR
Perry	29	80	109	38	64.3	52	133.1	17	35.2	2	NSR	0	NSR
York	604	764	1,368	441	79.1	443	114.9	396	84.4	63	14.2	25	8.1

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	16,125	23,115	**39,240**	10,990	69.1	12,605	104.5	11,264	88.7	3,486	27.3	900	9.1
Northwest	1,471	1,947	**3,418**	1,247	109.1	1,143	137.9	857	95.0	139	14.4	32	4.1
Cameron	17	10	27	9	NSR	10	281.7	8	NSR	0	NSR	0	NSR
Clarion	21	33	54	16	32.1	24	59.1	12	33.6	2	NSR	0	NSR
Clearfield	118	130	248	75	84.3	85	117.8	68	76.3	19	21.9	1	NSR
Crawford	124	167	291	101	88.6	97	128.3	78	92.5	14	14.9	1	NSR
Elk	52	56	108	38	104.1	45	196.0	22	64.4	3	NSR	0	NSR
Erie	492	704	1,196	450	122.1	398	140.8	288	107.2	48	17.3	12	5.8
Forest	4	5	9	5	NSR	3	NSR	1	NSR	0	NSR	0	NSR
Jefferson	63	66	129	40	74.2	51	135.9	31	70.8	5	NSR	2	NSR
Lawrence	173	198	371	125	114.4	132	179.3	101	116.7	6	NSR	7	NSR
McKean	43	99	142	64	121.7	42	109.0	31	69.7	5	NSR	0	NSR
Mercer	235	295	530	196	135.3	163	167.1	137	123.6	27	22.3	7	NSR
Venango	83	108	191	78	119.1	64	148.6	43	82.4	5	NSR	1	NSR
Warren	46	76	122	50	105.6	29	91.9	37	91.4	5	NSR	1	NSR
Southwest	3,030	4,706	**7,736**	1,667	53.3	2,645	107.4	2,368	88.9	830	28.5	227	9.7
Allegheny	1,238	1,967	3,205	313	22.2	1,025	84.9	1,120	94.6	588	45.8	159	15.5
Armstrong	69	96	165	66	82.8	52	98.7	34	49.2	9	NSR	4	NSR
Beaver	252	356	608	123	62.9	221	156.1	198	117.5	52	27.2	14	8.8
Butler	117	187	304	98	41.5	98	63.0	79	40.6	21	10.8	8	NSR
Cambria	286	384	670	237	146.1	237	190.5	157	113.6	29	18.5	10	7.4
Fayette	196	312	508	165	104.7	165	141.8	147	104.0	29	18.7	2	NSR
Greene	50	68	118	40	91.1	45	120.4	28	69.3	6	14.2	0	NSR
Indiana	128	184	312	99	88.4	119	124.5	75	98.6	18	20.6	1	NSR
Somerset	84	131	215	60	73.0	77	116.0	64	79.9	11	13.0	3	NSR
Washington	225	352	577	173	70.9	209	118.0	166	80.6	21	9.2	8	NSR
Westmoreland	385	669	1,054	293	72.4	397	138.4	300	81.8	46	11.1	18	5.2

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 HOSPITALIZATIONS: SELF-POISONING

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

BLACK POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	443	56.0	50.8-61.2
Chester	89	57.9	45.9-70.0
Dauphin	109	48.7	39.6-57.9
Delaware	320	59.2	52.7-65.7
Montgomery	162	44.6	37.7-51.4
Philadelphia	2,272	70.0	67.1-72.9
Pennsylvania	4,427	65.1	63.2-67.0

WHITE POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	2,680	55.0	52.9-57.1
Chester	823	38.4	35.8-41.0
Dauphin	516	53.1	48.5-57.6
Delaware	1,696	83.6	79.6-87.6
Montgomery	1,615	50.6	48.1-53.0
Philadelphia	2,525	73.2	70.3-76.0
Pennsylvania	30,858	60.0	59.4-60.7

HISPANIC POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Berks	202	67.5	58.2-76.8
Lancaster	50	24.8	17.9-31.7
Lehigh	237	77.7	67.8-87.6
Philadelphia	631	72	66.4-77.6
Pennsylvania	1,955	61.7	59.0-64.4

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL HOSPITALIZATION RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

Select Counties		Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+	
County and Race		Cty. Pop.	Male	Female	All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Allegheny	Black	13.4%	171	272	**443**	13.8%	69	25.5	139	80.1	152	100.3	73	54.2	10	11.1
	White	82.4%	1,029	1,651	**2,680**	83.6%	234	21.8	855	92.3	945	92.9	505	46.2	141	15.3
Chester	Black	6.2%	37	52	**89**	9.1%	8	NSR	42	119.4	24	80.9	13	53.5	2	NSR
	White	88.3%	311	512	**823**	83.7%	103	17.4	235	62.4	285	58.6	138	31.1	62	21.3
Dauphin	Black	18.1%	42	67	**109**	15.7%	11	13.6	35	72.8	49	100.8	12	31.0	2	NSR
	White	75.8%	222	294	**516**	74.5%	46	20.6	148	84.2	182	85.1	113	50.8	27	17.3
Delaware	Black	19.2%	149	171	**320**	15.2%	49	27.3	96	74.6	117	105.5	50	66.0	8	NSR
	White	74.4%	740	956	**1,696**	80.5%	160	31.7	541	146.9	531	127.1	357	82.0	107	31.0
Montgomery	Black	8.8%	68	94	**162**	8.2%	26	25.8	56	74.1	56	70.0	21	36.0	3	9.0
	White	83.2%	614	1,001	**1,615**	82.1%	205	25.6	455	81.8	484	68.1	335	49.6	136	25.3
Philadelphia	Black	45.1%	1,052	1,220	**2,272**	39.6%	242	22.7	661	88.7	924	140.9	405	73.2	40	11.1
	White	45.3%	1,229	1,296	**2,525**	44.0%	127	16.7	788	90.8	871	135.0	594	99.0	145	27.4
Pennsylvania	Black	10.9%	1,980	2,447	**4,427**	11.3%	563	25.5	1,456	93.2	1,651	120.9	686	64.5	71	10.9
	White	84.5%	12,551	18,303	**30,854**	78.6%	3,058	24.0	9,862	101.9	10,810	98.9	5,634	51.3	1,494	16.9

INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL INJURIES

In 2011, among Pennsylvania residents, there were 121,857 hospitalizations due to unintentional injury. On average, one resident was hospitalized every four minutes.

Injury Definition

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

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

Leading mechanisms of unintentional injury include falls, poisoning and motor vehicle accidents. These three mechanisms account for over two-thirds of all unintentional injury hospitalizations in Pa.

HIGHLIGHTS

- *Age-adjusted rates **decreased** from 2007 to 2011.*
- *Most common demographic is **white females**, 80 and older.*
- *Of all Pennsylvania counties, **Carbon** and **Delaware** had the highest rates.*

Trends Over Time

- Age-adjusted hospitalization rates for unintentional injury decreased by 10 percent from 899.7 hospitalizations per 100,000 population in 2007 to 808.2 hospitalizations per 100,000 population in 2011.
- Males had higher age-adjusted hospitalization rates than females during 2007 to 2011 (rates were 877.1 for males, and 728.3 for females in 2011).
- Generally, black males and females had higher age-adjusted unintentional injury hospitalization rates than white males and females during the 2007 to 2011 period.

Demographic Trends

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

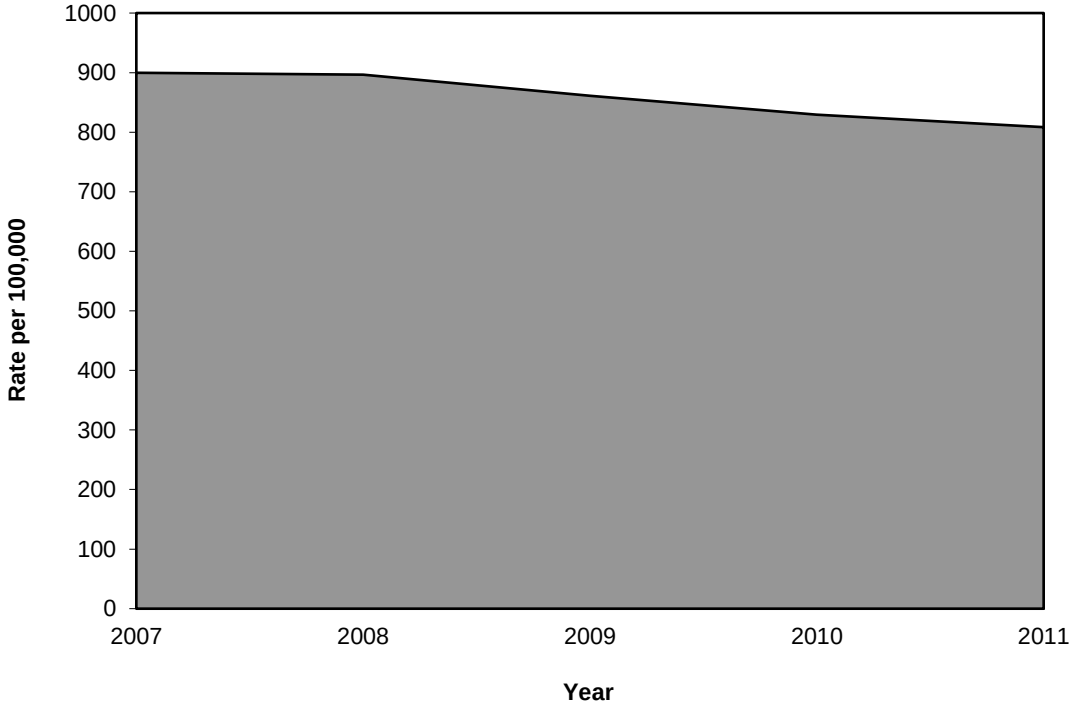
Regional Trends

- The Southeast and Southwest Health Districts had the highest age-adjusted hospitalization rates for unintentional injury while the South Central Health District had the lowest rate.
- Twenty-two counties had age-adjusted unintentional injury hospitalization rates during 2007 to 2011 that were significantly higher than the comparable state rate. These counties included Philadelphia; they occurred in **all** health districts **except** the North Central and South Central Health Districts. The majority of these were rural counties.

INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND
AGE-ADJUSTED HOSPITALIZATION RATES
PENNSYLVANIA RESIDENTS, 2007-2011

Year	No.	Rate
2007	124,965	899.7
2008	128,305	896.7
2009	126,704	861.3
2010	123,901	829.5
2011	121,857	808.2



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2007-2011

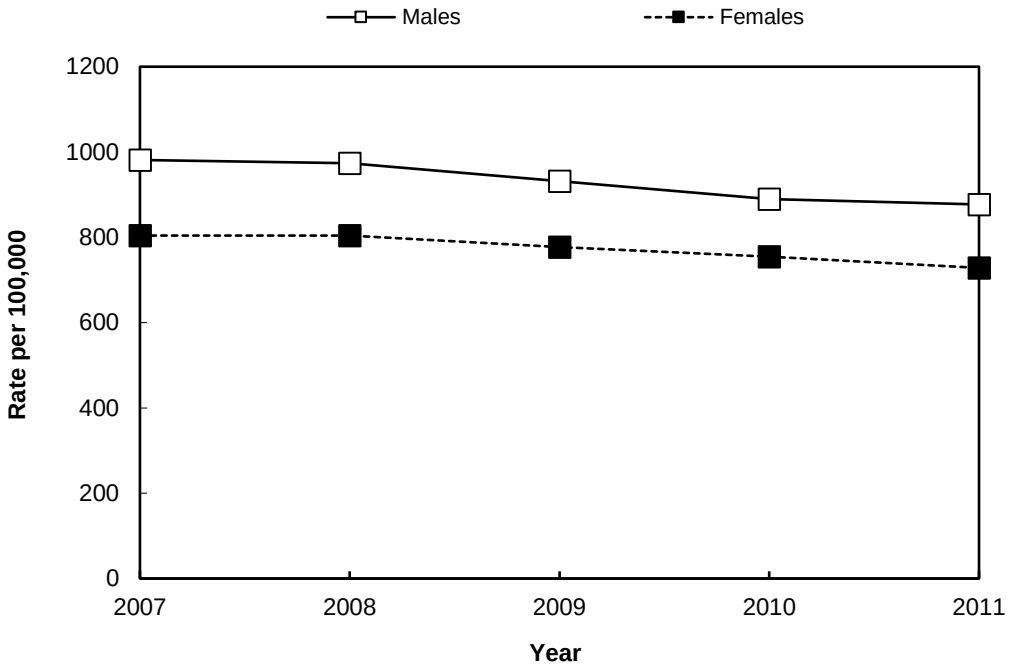
Year	Northwest	North Central	Northeast	Southeast	South Central	Southwest
2007	880.8	698.6	957.8	946.1	696.4	957.7
2008	920.4	712.8	954.6	934.0	686.9	955.0
2009	859.5	690.6	883.8	923.0	673.9	893.2
2010	838.5	687.5	831.6	891.5	614.3	878.9
2011	785.3	664.0	833.5	861.5	614.6	861.4

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2007-2011 based on ICD-9 codes. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX PENNSYLVANIA RESIDENTS, 2007-2011

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2007	58,520	981.3	2007	66,428	803.9
2008	59,885	973.7	2008	68,382	804.1
2009	59,112	931.9	2009	67,534	776.8
2010	57,483	889.5	2010	66,382	755.0
2011	57,435	877.1	2011	64,360	728.3



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2007-2011

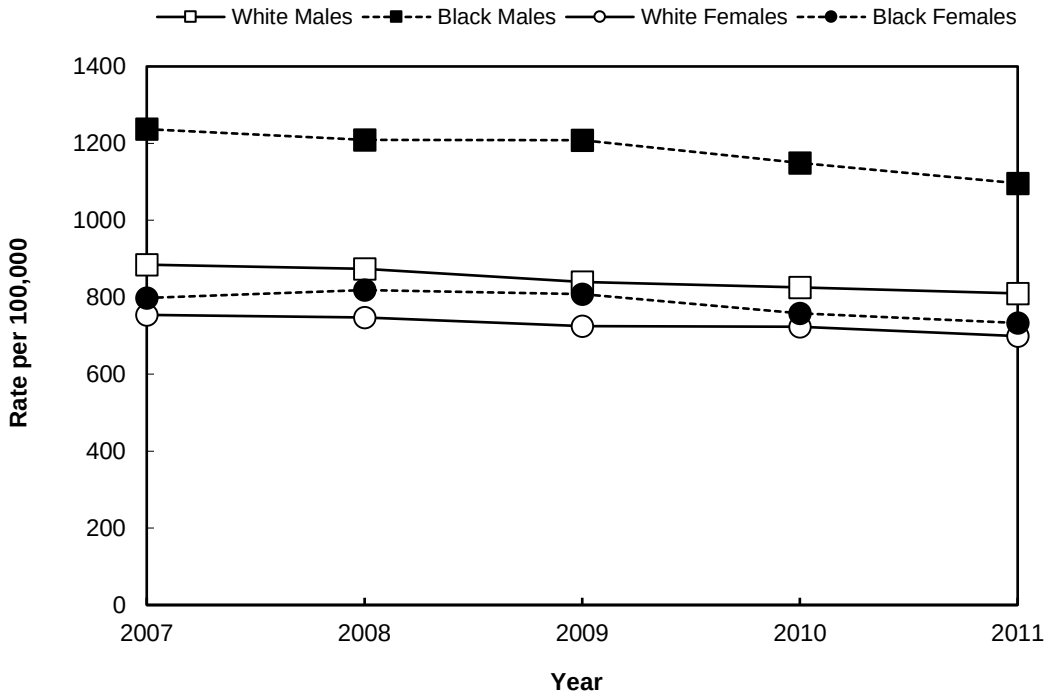
Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2007	1,009.2	913.2	2007	815.9	773.2
2008	983.7	948.8	2008	812.4	783.1
2009	948.8	889.7	2009	788.6	746.3
2010	911.8	836.2	2010	764.1	732.0
2011	898.4	826.8	2011	742.4	692.5

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 UNINTENTIONAL

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX AND RACE OR ETHNICITY PENNSYLVANIA RESIDENTS, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	46,645	6,682	56,850	5,380	1,806	1,267
2008	47,720	6,616	58,107	5,630	2,036	1,439
2009	47,341	6,771	57,527	5,722	1,901	1,464
2010	46,238	6,649	57,029	5,408	1,763	1,318
2011	46,819	6,641	55,945	5,417	1,294	856



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	884.7	1,237.0	754.1	798.5	977.7	749.2
2008	874.0	1,209.2	747.8	818.6	1,068.0	808.0
2009	840.1	1,208.5	724.9	808.4	918.4	754.3
2010	825.3	1,149.0	723.6	758.1	829.5	673.7
2011	809.9	1,096.3	699.0	733.1	501.3	384.9

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 AVERAGE ANNUAL HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2007-2011

AGE	PA TOTAL		MALE		FEMALE			URBAN		RURAL		
GROUP	No.	Rate	No.	Rate	No.	Rate		No.	Rate	No.	Rate	
TOTAL	**625,732**	**994.3**	**292,435**	**955.0**	**333,086**	**1,030.9**		**456,511**	**998.7**	**169,221**	**982.8**	
< 5	7,565	206.1	4,461	237.6	3,093	172.5	*	6,026	218.7	1,539	168.1	*
5-9	6,230	164.9	3,816	197.7	2,409	130.3	*	4,759	169.8	1,471	150.8	*
10-14	8,611	216.2	6,058	297.8	2,545	130.7	*	6,304	215.0	2,307	219.9	
15-19	17,839	389.7	12,055	520.2	5,766	255.1	*	12,549	379.9	5,290	415.1	*
20-24	21,223	479.2	14,096	627.6	7,110	325.6	*	15,508	485.5	5,715	462.7	*
25-29	19,238	505.6	12,467	644.6	6,763	361.4	*	14,317	498.5	4,921	527.3	*
30-34	17,314	465.3	11,124	594.5	6,180	334.1	*	12,711	460.5	4,603	479.1	*
35-39	19,675	503.5	12,247	629.4	7,420	378.2	*	14,412	502.9	5,263	505.2	
40-44	25,874	597.1	16,046	747.4	9,811	448.8	*	19,090	603.1	6,784	581.1	*
45-49	33,489	722.4	20,686	905.4	12,785	543.7	*	25,049	742.7	8,440	668.1	*
50-54	38,023	818.5	22,285	978.2	15,727	664.4	*	28,116	837.3	9,907	769.4	*
55-59	37,510	894.0	20,775	1,018.3	16,723	775.8	*	27,670	921.8	9,840	824.1	*
60-64	37,335	1,048.3	19,234	1,128.4	18,086	974.0	*	27,097	1,075.8	10,238	981.8	*
65-69	36,584	1,348.0	17,226	1,370.4	19,351	1,328.3	*	25,926	1,371.8	10,658	1,293.5	*
70-74	41,037	1,867.9	17,544	1,801.2	23,487	1,920.6	*	29,216	1,910.9	11,821	1,769.7	*
75-79	56,091	3,060.7	21,552	2,832.2	34,525	3,221.6	*	40,172	3,120.4	15,919	2,919.8	*
80-84	75,705	5,159.6	25,789	4,593.5	49,902	5,508.9	*	54,793	5,253.8	20,912	4,927.9	*
85 +	126,389	8,558.5	34,974	7,644.7	91,403	8,967.4	*	92,796	8,748.4	33,593	8,074.1	*

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

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.
Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH AVERAGE ANNUAL HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2007-2011

AGE	WHITE MALE		BLACK MALE			WHITE FEMALE		BLACK FEMALE			HISPANICS	
GROUP	No.	Rate	No.	Rate		No.	Rate	No.	Rate		No.	Rate
TOTAL	**234,763**	**905.4**	**33,359**	**1,022.2**		**285,458**	**1,047.4**	**27,557**	**768.1**		**15,144**	**463.6**
< 5	2,475	168.5	1,062	403.3	*	1,679	120.1	732	285.5	*	771	209.9
5-9	2,369	154.5	806	309.4	*	1,541	105.5	470	186.4	*	490	148.5
10-14	4,261	261.0	1,029	369.3	*	1,778	114.3	448	167.1	*	461	150.4
15-19	8,954	479.8	1,735	542.2	*	4,306	236.2	784	253.8		718	222.3
20-24	10,375	572.7	1,920	630.5	*	5,110	291.0	1,146	380.4	*	986	332.4
25-29	9,126	580.9	1,754	704.2	*	4,941	328.5	1,095	435.8	*	918	338.1
30-34	7,977	519.6	1,675	756.1	*	4,392	293.1	1,073	458.3	*	895	350.9
35-39	8,894	547.0	1,934	916.0	*	5,439	335.7	1,227	532.5	*	920	383.5
40-44	11,905	649.7	2,483	1,138.4	*	7,242	392.8	1,676	689.5	*	1,018	473.2
45-49	15,410	775.9	3,477	1,604.9	*	9,612	476.5	2,158	874.9	*	1,041	553.0
50-54	16,896	839.8	3,617	1,836.3	*	12,352	599.7	2,394	1,029.8	*	1,003	700.9
55-59	16,329	894.9	2,945	1,849.7	*	13,490	711.3	2,134	1,087.1	*	852	786.3
60-64	15,522	1,007.9	2,285	1,895.7	*	15,090	914.4	1,867	1,185.4	*	851	1,111.7
65-69	14,368	1,253.1	1,682	2,080.4	*	16,565	1,264.3	1,605	1,416.1	*	790	1,512.5
70-74	14,983	1,680.0	1,444	2,348.9	*	20,553	1,859.1	1,617	1,724.0	*	725	2,019.0
75-79	19,123	2,719.7	1,273	2,846.4		30,993	3,169.0	1,878	2,425.6	*	791	3,119.3
80-84	23,466	4,486.5	1,110	3,625.7	*	45,793	5,491.5	1,949	3,212.2	*	794	4,832.0
85 +	32,330	7,594.7	1,128	4,381.1	*	84,582	8,960.9	3,304	5,158.6	*	1,120	7,210.0

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

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

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

INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH AVERAGE ANNUAL HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2007-2011

AGE	NORTHWEST			NORTH CENTRAL			NORTHEAST			SOUTHEAST			SOUTH CENTRAL			SOUTHWEST		
GROUP	No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate	
TOTAL	**47,735**	**1,030.8**		**27,359**	**793.9**		**82,986**	**1,050.2**		**251,370**	**999.2**		**61,682**	**745.4**		**154,600**	**1,143.3**	
< 5	410	161.6	-	315	177.2	-	917	212.4		4,071	253.7	+	660	132.9	-	1,138	161.4	-
5-9	370	137.9	-	275	150.6		804	175.0		3,102	192.0	+	534	104.5	-	1,083	145.4	-
10-14	642	220.6		355	185.9	-	1,231	245.1	+	3,828	229.5	+	748	140.9	-	1,749	218.6	
15-19	1,373	398.4		870	285.4	-	2,472	430.8	+	7,415	400.6	+	1,943	339.1	-	3,731	401.0	
20-24	1,452	462.5		1,045	284.8	-	2,741	515.0	+	9,196	511.1	+	2,120	404.4	-	4,629	518.5	+
25-29	1,382	532.3		820	439.7	-	2,330	520.3		8,504	517.8		1,772	360.1	-	4,392	565.3	+
30-34	1,309	501.3	+	727	387.1	-	2,213	494.5	+	7,365	470.6		1,670	338.7	-	3,973	518.4	+
35-39	1,461	528.2		786	397.1	-	2,481	510.1		8,473	526.1	+	1,990	377.9	-	4,456	550.5	+
40-44	1,878	608.7		1,002	459.3	-	3,393	616.5		11,130	632.9	+	2,554	438.3	-	5,903	645.5	+
45-49	2,403	717.0		1,257	533.3	-	4,276	721.7		14,813	801.1	+	3,050	493.8	-	7,683	763.6	+
50-54	2,856	825.6		1,495	626.1	-	4,699	792.6	-	16,514	915.6	+	3,483	569.2	-	8,986	853.6	+
55-59	2,918	913.2		1,585	717.1	-	4,540	842.9	-	15,842	999.1	+	3,442	611.8	-	9,174	947.2	+
60-64	2,803	1,020.2		1,655	858.0	-	4,927	1,037.8		15,123	1,149.6	+	3,810	788.4	-	9,021	1,099.8	+
65-69	3,143	1,454.9	+	1,747	1,119.4	-	4,861	1,325.7		14,155	1,439.0	+	3,704	986.5	-	8,981	1,457.8	+
70-74	3,398	1,897.6		1,947	1,526.8	-	5,524	1,906.4		15,622	1,987.7	+	4,307	1,449.2	-	10,249	1,980.5	+
75-79	4,512	3,030.6		2,642	2,554.4	-	7,704	3,242.3	+	20,889	3,178.0	+	5,820	2,418.6	-	14,587	3,280.3	+
80-84	6,013	5,087.7		3,420	4,299.7	-	10,397	5,497.8	+	27,463	5,243.5	+	7,752	4,289.0	-	20,779	5,527.7	+
85 +	9,412	8,120.0	-	5,416	6,970.4	-	17,476	9,289.6	+	47,865	8,874.8	+	12,323	7,010.5	-	34,086	8,971.6	+

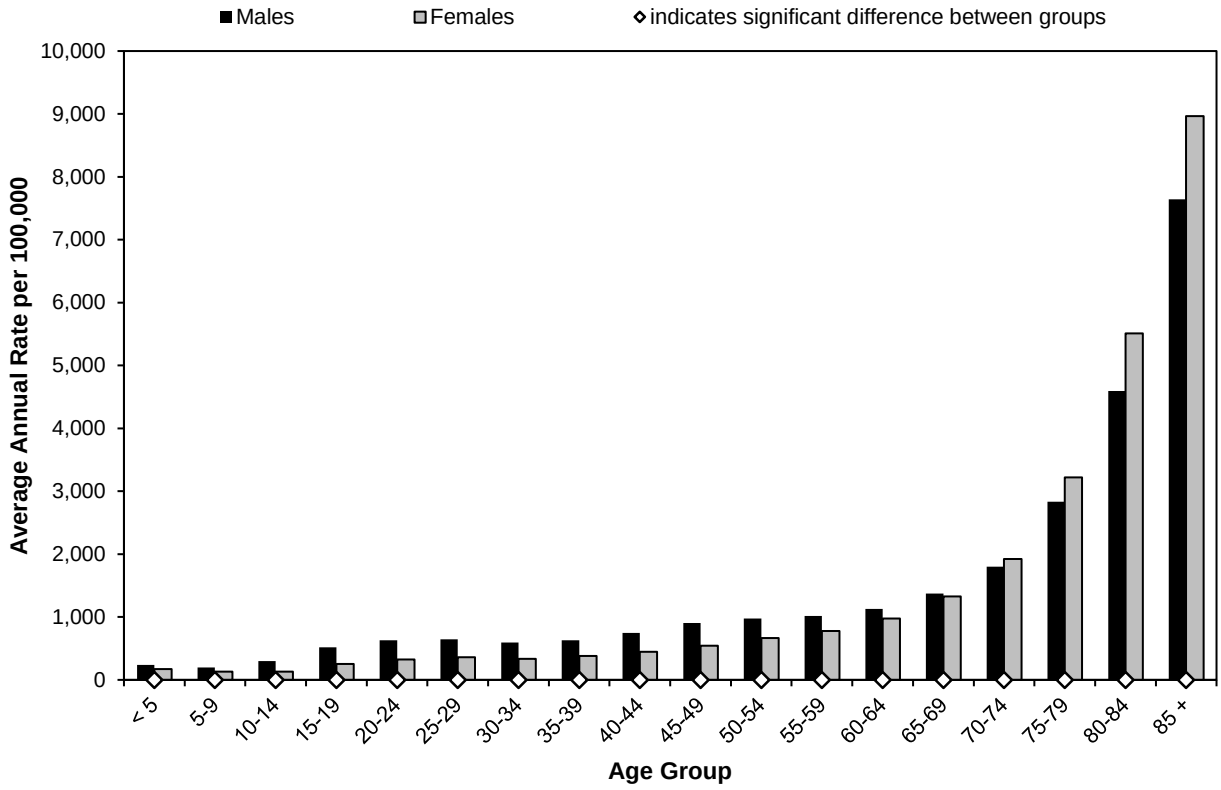
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

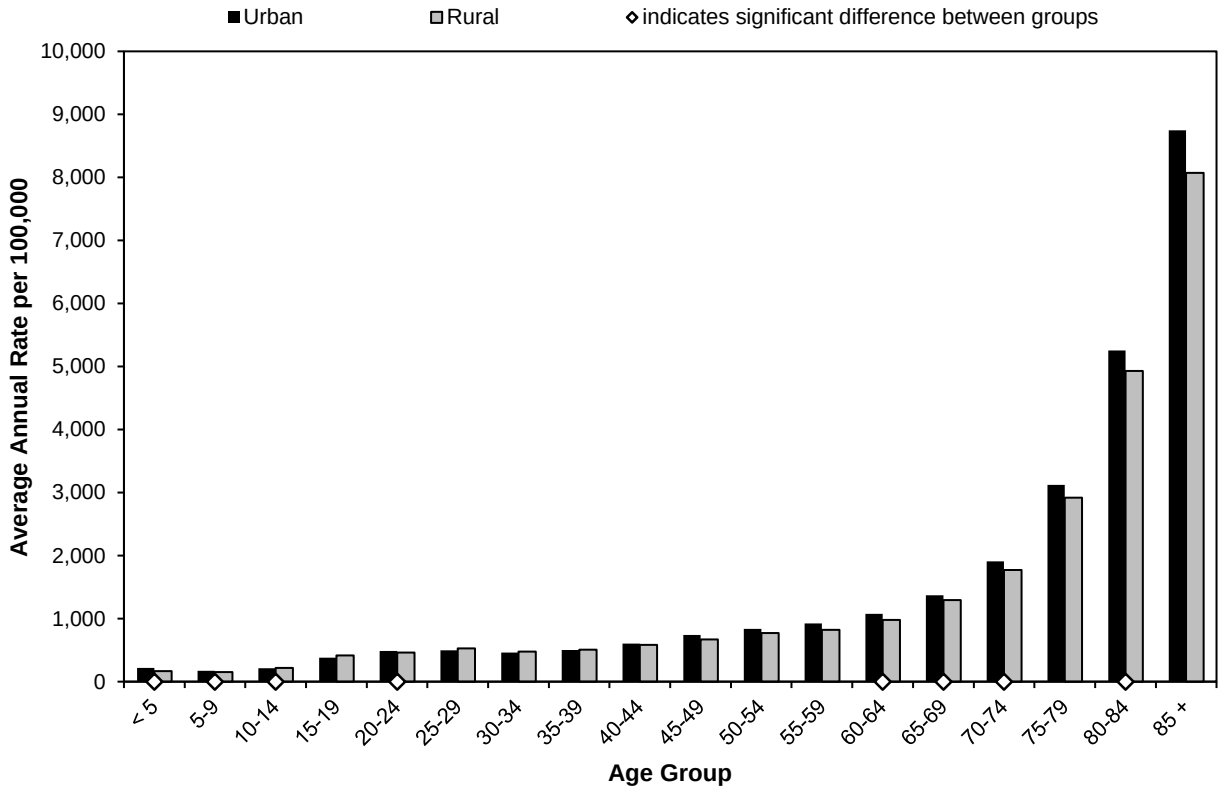
NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total.

INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL

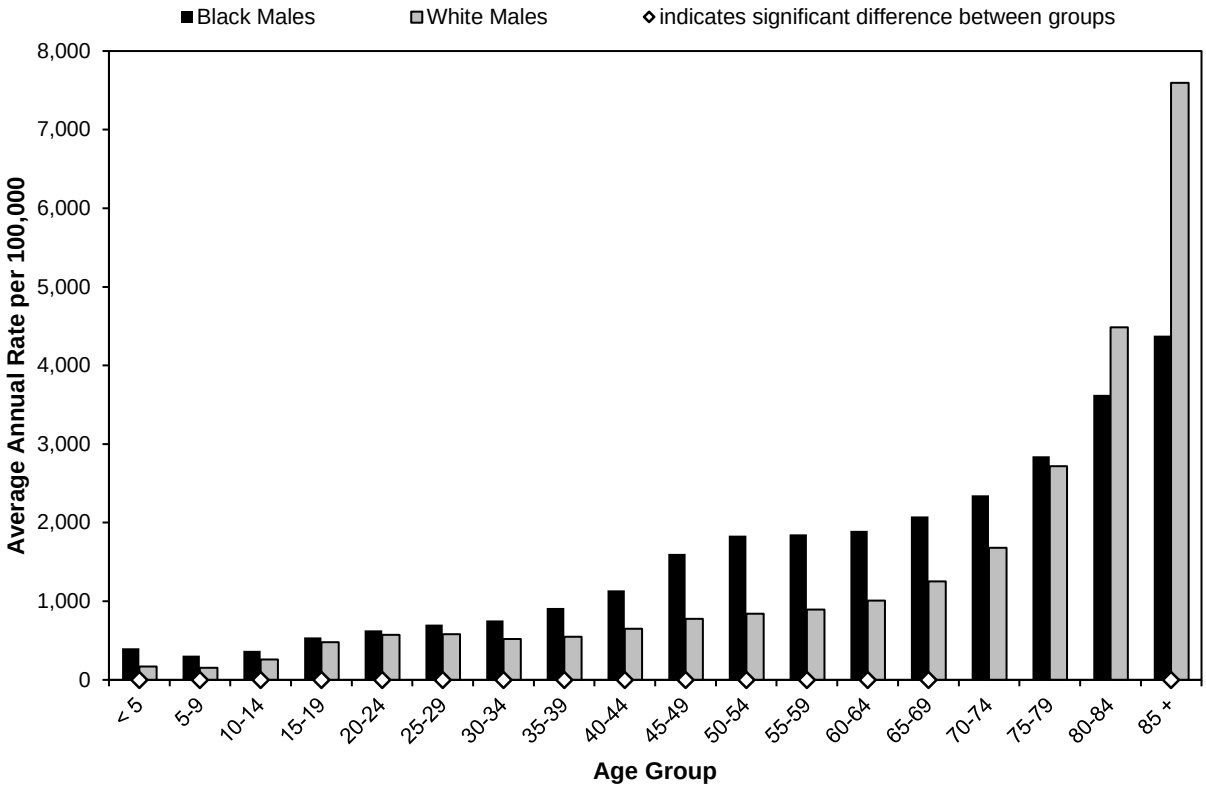
AVERAGE ANNUAL HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2007-2011

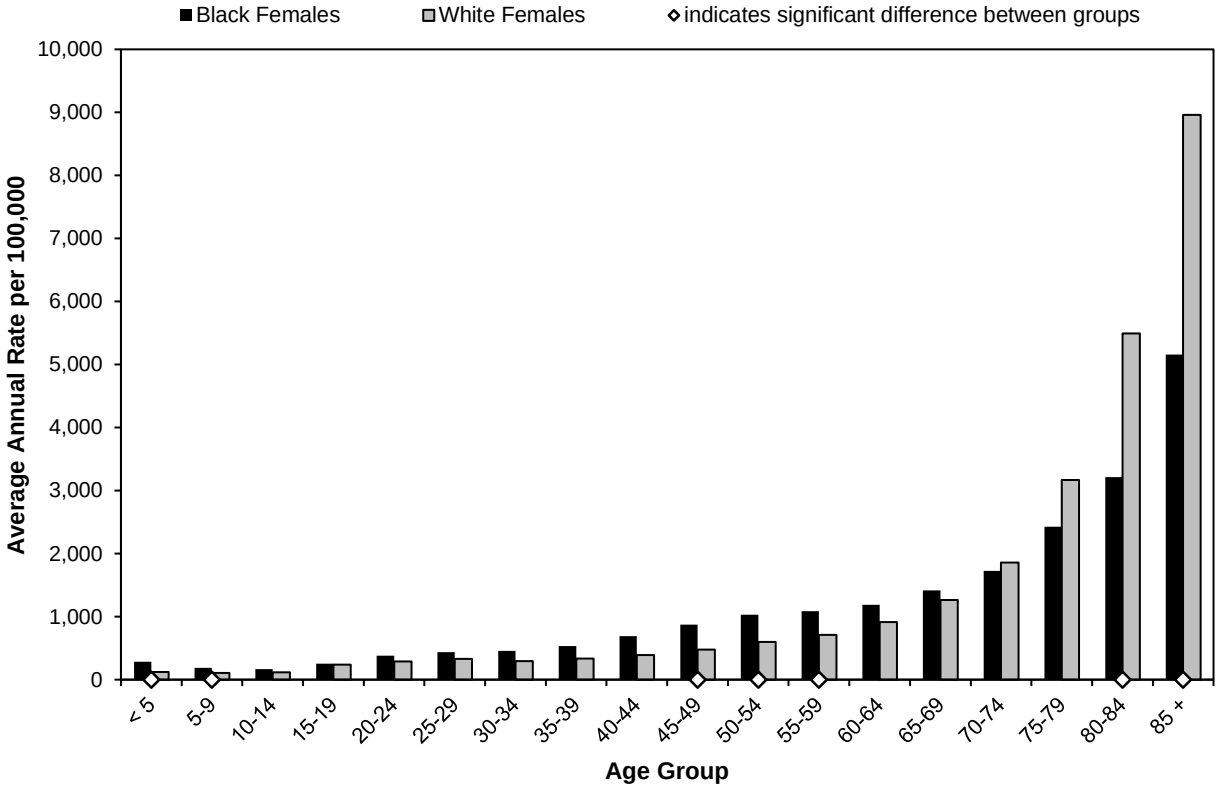




INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL

AVERAGE ANNUAL HOSPITALIZATION RATES BY SEX AND RACE
PENNSYLVANIA RESIDENTS, 2007-2011





INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2007-2011

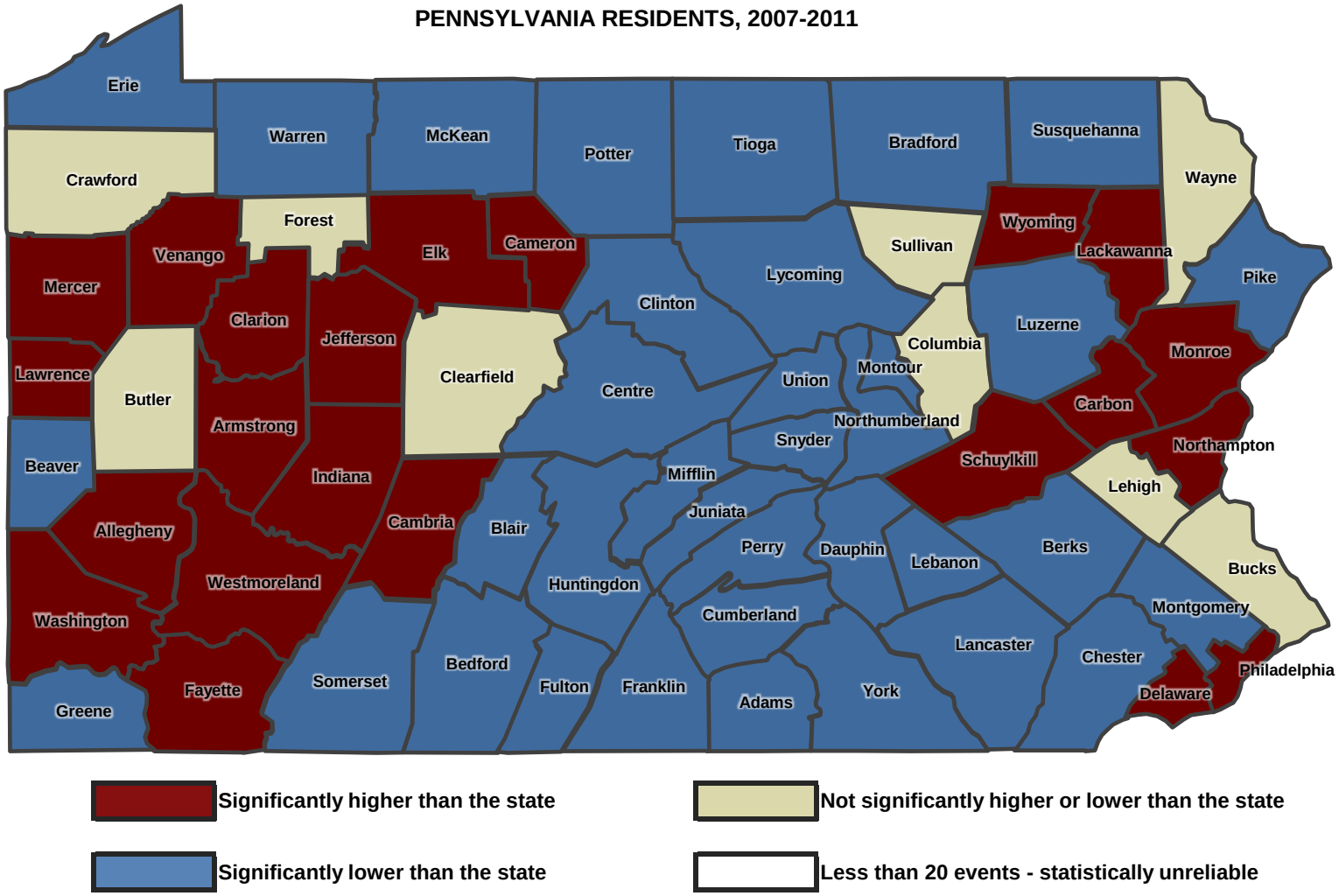
District/County	No.	Rate	CI (95%)		District/County	No.	Rate	CI (95%)	
Northeast	82,986	889.5	883.5-895.6	+	**Southeast**	251,370	909.9	906.4-913.5	+
Carbon	4,193	1,100.0	1,066.7-1,133.3	+	Berks	18,160	801.1	789.4-812.7	-
Lackawanna	12,132	903.7	887.6-919.8	+	Bucks	29,159	853.8	844.0-863.6	
Lehigh	16,945	864.3	851.2-877.3		Chester	18,718	736.9	726.3-747.4	-
Luzerne	16,122	790.0	777.9-802.2	-	Delaware	35,299	1,114.3	1,102.7-1,125.9	+
Monroe	7,560	913.9	893.3-934.5	+	Lancaster	19,627	688.4	678.8-698.0	-
Northampton	18,820	1,087.5	1,071.9-1,103.0	+	Montgomery	37,730	816.2	808.0-824.5	-
Pike	1,396	439.5	416.4-462.6	-	Philadelphia	83,609	1,085.4	1,078.0-1,092.8	+
Susquehanna	1,633	656.8	625.0-688.7	-	Schuylkill	9,068	978.7	958.6-998.9	+
Wayne	2,583	825.5	793.7-857.3						
Wyoming	1,602	1,045.5	994.3-1,096.7	+					
North Central	27,359	688.9	680.8-697.1	-	**South Central**	61,682	655.5	650.4-660.7	-
Bradford	2,726	754.9	726.6-783.3	-	Adams	3,256	572.5	552.8-592.2	-
Centre	4,661	687.9	668.2-707.7	-	Bedford	1,888	647.4	618.2-676.6	-
Clinton	1,571	707.3	672.4-742.3	-	Blair	6,521	828.0	807.9-848.1	-
Columbia	3,138	829.9	800.8-858.9		Cumberland	9,170	673.7	659.9-687.5	-
Lycoming	5,143	732.8	712.7-752.8	-	Dauphin	9,055	638.6	625.5-651.8	-
Montour	829	775.2	722.5-828.0	-	Franklin	5,601	644.7	627.8-661.6	-
Northumberland	4,451	755.7	733.5-777.9	-	Fulton	629	760.7	701.3-820.2	-
Potter	656	628.0	579.9-676.0	-	Huntingdon	1,742	672.7	641.1-704.3	-
Snyder	1,215	556.6	525.3-587.9	-	Juniata	843	600.4	559.9-640.9	-
Sullivan	358	877.5	786.6-968.4		Lebanon	4,196	543.1	526.6-559.5	-
Tioga	1,214	501.0	472.8-529.2	-	Mifflin	2,153	774.9	742.2-807.6	-
Union	1,397	561.8	532.3-591.2	-	Perry	1,865	798.2	762.0-834.4	-
					York	14,763	636.1	625.9-646.4	-
Northwest	47,735	855.2	847.5-862.9		**Southwest**	154,600	908.0	903.5-912.6	+
Cameron	362	1,029.7	923.6-1,135.7	+	Allegheny	71,866	930.5	923.7-937.3	+
Clarion	2,216	970.7	930.3-1,011.2	+	Armstrong	4,475	1,055.5	1,024.6-1,086.5	+
Clearfield	4,224	858.8	832.9-884.7		Beaver	8,300	763.0	746.6-779.4	-
Crawford	4,409	853.7	828.5-878.9		Butler	9,066	854.6	837.0-872.2	
Elk	1,851	900.8	859.8-941.8	+	Cambria	9,190	969.4	949.6-989.2	+
Erie	11,338	721.9	708.6-735.2	-	Fayette	7,589	882.4	862.6-902.3	+
Forest	385	921.3	829.2-1,013.3		Greene	1,306	576.5	545.3-607.8	-
Jefferson	2,644	967.7	930.8-1,004.6	+	Indiana	5,238	1,023.9	996.2-1,051.7	+
Lawrence	5,763	971.6	946.5-996.7	+	Somerset	4,135	822.5	797.5-847.6	-
McKean	2,015	751.2	718.4-784.0	-	Washington	11,933	935.5	918.7-952.3	+
Mercer	7,828	1,048.9	1,025.7-1,072.2	+	Westmoreland	21,502	921.0	908.7-933.3	+
Venango	3,018	912.1	879.6-944.7	+					
Warren	1,682	654.5	623.2-685.8	-	Pennsylvania	625,732	857.6	855.4-859.7	

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

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

INJURY HOSPITALIZATIONS: ALL UNINTENTIONAL

AGE-ADJUSTED HOSPITALIZATION RATES BY COUNTY, WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE PENNSYLVANIA RESIDENTS, 2007-2011



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 AVERAGE ANNUAL HOSPITALIZATION RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2007-2011

Geography	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	292,435	333,086	**625,521**	40,259	253.2	57,776	478.9	79,047	622.5	112,871	884.4	335,779	3412.2
Northeast	38,148	44,742	**82,890**	5,424	277.1	7,284	511.1	10,150	627.8	14,166	858.5	45,962	3547.0
Carbon	1,998	2,193	4,191	274	382.5	379	684.8	552	823.9	728	1020.0	2,260	3931.9
Lackawanna	5,225	6,903	12,128	672	267.6	955	478.9	1321	645.9	2068	953.9	7116	3755.9
Lehigh	7,998	8,946	16,944	1,194	262.6	1,663	509.2	2,105	594.6	2,891	843.1	9,092	3457.5
Luzerne	6,746	9,297	16,043	859	237.1	1280	443.7	1758	547.5	2587	789.5	9638	3348.2
Monroe	3,889	3,668	7,557	631	277.8	750	514.2	1,190	655.5	1,548	872.5	3,441	3186.3
Northampton	8,794	10,024	18,818	1,235	324.3	1593	588.7	2227	732.6	3005	993.5	10760	4649.2
Pike	724	671	1,395	130	184.5	148	350.3	249	395.2	308	456.0	561	1167.7
Susquehanna	743	890	1,633	118	240.3	133	405.2	206	501.0	241	480.3	935	2493.4
Wayne	1,262	1,319	2,581	187	341.7	231	573.2	341	645.6	480	761.7	1,344	2674.0
Wyoming	769	831	1,600	124	347.2	152	649.4	201	723.7	310	1011.1	815	3571.1
Southeast	120,820	130,521	**251,341**	18,416	274.4	25,065	492.9	34,416	667.2	47,479	978.2	125,994	3548.1
Berks	8,817	9,342	18,159	1,305	233.3	1,629	434.5	2,326	553.2	3,167	801.7	9,733	3260.0
Bucks	13,810	15,348	29,158	2,055	261.1	2582	506.3	3748	544.0	5234	768.5	15540	3380.1
Chester	8,486	10,232	18,718	1,078	155.8	1,676	381.7	2,317	425.2	3,526	705.3	10,121	3124.9
Delaware	16,431	18,867	35,298	2,388	320.9	3364	624.6	4372	782.9	6345	1154.5	18830	4702.0
Lancaster	9,445	10,180	19,625	1,620	225.5	1,927	395.0	2,376	477.0	3,173	653.4	10,531	2700.0
Montgomery	16,986	20,737	37,723	2,317	230.8	2999	425.0	4003	467.6	6424	800.2	21987	3637.2
Philadelphia	42,628	40,979	83,607	7,105	347.2	10,051	528.8	14,085	982.7	17,980	1398.6	34,388	3661.7
Schuylkill	4,217	4,836	9,053	548	340.3	837	648.8	1189	751.5	1630	1058.0	4864	3609.5

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	292,435	333,086	**625,521**	40,259	253.2	57,776	478.9	79,047	622.5	112,871	884.4	335,779	3,412.2
North Central	12,823	14,464	**27,287**	1,857	218.8	2,608	347.1	3,066	474.9	4,735	703.9	15,093	2722.4
Bradford	1,308	1,415	2,723	194	249.9	298	601.8	330	535.2	513	769.0	1,391	2521.3
Centre	2,137	2,516	4,653	289	155.3	493	202.2	526	429.9	814	701.8	2539	2929.7
Clinton	727	839	1,566	108	216.2	144	370.8	166	484.8	274	740.0	879	2769.4
Columbia	1,448	1,680	3,128	196	235.7	293	417.2	374	629.0	564	873.1	1711	3149.1
Lycoming	2,377	2,752	5,129	340	242.2	439	391.1	577	510.4	857	709.0	2,930	3021.4
Montour	377	450	827	75	349.0	96	653.3	99	572.6	149	745.3	410	2430.2
Northumberland	2,083	2,354	4,437	278	262.3	376	477.7	464	494.7	740	739.5	2,593	2968.6
Potter	327	328	655	46	215.6	65	499.6	71	445.4	107	566.8	367	2190.3
Snyder	594	619	1,213	100	192.5	120	311.2	124	330.6	196	517.4	675	2258.4
Sullivan	180	176	356	26	387.3	37	846.9	50	939.8	73	981.6	172	2207.1
Tioga	568	642	1,210	91	171.7	125	341.3	154	413.1	230	527.4	614	1619.9
Union	697	693	1,390	114	224.1	122	240.7	131	274.2	218	549.7	812	2464.1
South Central	28,557	33,116	**61,673**	4,066	193.1	5,682	376.1	7,631	446.1	10,733	629.5	33,570	2578.0
Adams	1,576	1,680	3,256	219	168.8	289	324.1	401	381.8	568	544.4	1,779	2238.8
Bedford	874	1,014	1,888	164	277.9	191	490.6	252	499.1	338	636.8	943	2022.7
Blair	2,933	3,588	6,521	341	222.9	525	468.0	694	571.0	1,269	954.4	3,692	3269.4
Cumberland	4,042	5,128	9,170	479	167.1	691	295.6	982	419.2	1495	638.8	5523	2985.0
Dauphin	4,255	4,799	9,054	719	212.5	990	399.3	1,259	460.6	1,695	609.7	4,392	2380.8
Franklin	2,510	3,090	5,600	325	167.2	397	305.6	630	429.6	895	620.7	3354	2682.0
Fulton	286	343	629	47	256.8	71	577.0	82	532.8	100	654.8	329	2543.3
Huntingdon	860	881	1,741	116	222.1	208	470.4	215	450.6	304	648.3	899	2389.7
Juniata	394	447	841	55	177.4	76	375.5	83	347.2	124	509.8	505	2436.2
Lebanon	1,960	2,236	4,196	364	217.8	391	326.1	510	394.2	672	506.9	2259	1989.1
Mifflin	961	1,189	2,150	148	250.2	180	479.7	278	610.8	392	839.6	1,155	2659.5
Perry	995	870	1,865	199	336.8	234	598.8	278	575.3	349	692.9	805	2551.9
York	6,911	7,851	14,762	890	159.6	1,439	373.3	1,967	419.3	2,532	572.7	7,935	2569.8

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	292,435	333,086	**625,521**	40,259	253.2	57,776	478.9	79,047	622.5	112,871	884.4	335,779	3,412.2
Northwest	22,180	25,554	**47,734**	2,795	244.6	4,143	499.7	5,742	636.6	8,577	887.5	26,478	3366.5
Cameron	163	199	362	11	197.0	32	901.4	41	876.4	59	935.0	219	4100.4
Clarion	1,130	1,086	2,216	139	278.6	213	524.9	277	776.5	392	995.6	1195	3557.0
Clearfield	2,044	2,179	4,223	300	337.3	416	576.8	598	671.2	763	881.0	2,147	2952.7
Crawford	2,104	2,305	4,409	252	221.0	416	550.3	494	586.0	862	916.6	2385	3220.4
Elk	869	982	1,851	131	358.7	141	614.2	204	597.5	322	905.8	1,053	3468.0
Erie	5,247	6,091	11,338	687	186.5	1135	401.5	1499	558.1	2083	752.9	5934	2890.3
Forest	200	185	385	22	389.4	25	254.5	54	753.3	83	1146.3	201	3004.5
Jefferson	1,298	1,346	2,644	192	356.1	269	717.0	330	753.2	402	835.7	1451	3510.6
Lawrence	2,541	3,222	5,763	286	261.6	443	601.9	591	683.2	1,002	1028.6	3,441	4043.1
McKean	896	1,119	2,015	113	214.9	164	425.7	202	454.2	312	710.6	1224	3304.4
Mercer	3,389	4,439	7,828	370	255.4	504	516.7	924	833.3	1,344	1110.7	4,686	4383.2
Venango	1,463	1,555	3,018	183	279.5	255	592.3	361	692.0	616	983.4	1603	3257.7
Warren	836	846	1,682	109	230.2	130	412.0	167	412.5	337	709.1	939	2416.6
Southwest	69,907	84,689	**154,596**	7,701	246.0	12,994	527.8	18,042	677.0	27,181	932.5	88,682	3772.7
Allegheny	31,707	40,159	71,866	3,152	223.2	5,630	466.2	8,185	691.3	12,933	1007.8	41,966	4089.3
Armstrong	2,161	2,314	4,475	283	354.9	428	812.4	553	799.7	758	984.3	2453	3834.4
Beaver	3,700	4,600	8,300	470	240.4	718	507.3	1,027	609.5	1,436	751.5	4,649	2929.1
Butler	4,318	4,748	9,066	586	248.0	804	516.5	1091	561.1	1489	767.6	5096	3615.6
Cambria	4,136	5,054	9,190	448	276.1	765	615.0	983	711.0	1,618	1030.2	5,376	3971.5
Fayette	3,615	3,972	7,587	400	253.9	817	702.2	1063	752.4	1426	918.1	3883	3121.7
Greene	603	703	1,306	85	193.5	136	363.8	148	366.4	231	546.2	706	2353.6
Indiana	2,398	2,840	5,238	319	284.8	505	528.2	547	719.2	848	971.4	3019	4291.6
Somerset	2,035	2,100	4,135	226	275.0	345	519.9	465	580.7	686	809.8	2,413	3297.5
Washington	5,450	6,483	11,933	683	280.1	1023	577.4	1496	726.0	2119	927.0	6612	3614.7
Westmoreland	9,784	11,716	21,500	1,049	259.4	1,823	635.3	2,484	677.5	3,637	878.0	12,509	3630.2

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 HOSPITALIZATIONS: ALL UNINTENTIONAL

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

BLACK POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	8,148	1,034.0	1,011.5-1,056.4
Chester	1,047	742.0	697.1-787.0
Dauphin	1,332	619.0	585.7-652.2
Delaware	4,898	1,066.2	1,036.3-1,096.0
Montgomery	2,631	817.4	786.2-848.7
Philadelphia	35,160	1,084.8	1,073.5-1,096.2
Pennsylvania	60,920	964.7	957.1-972.4

WHITE POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	61,517	896.1	889.0-903.2
Chester	16,725	722.2	711.3-733.2
Dauphin	7,172	611.9	597.8-626.1
Delaware	28,791	1,099.4	1,086.7-1,112.1
Montgomery	31,874	776.7	768.1-785.2
Philadelphia	38,264	931.3	921.9-940.6
Pennsylvania	520,412	795.0	792.9-797.2

HISPANIC POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Berks	1,135	627.7	591.2-664.2
Lancaster	307	256.6	227.9-285.3
Lehigh	1,015	506.7	475.5-537.9
Philadelphia	5,045	745	724.4-765.5
Pennsylvania	15,151	754.3	742.3-766.3

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL HOSPITALIZATION RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

Select Counties		Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+	
County and Race		Cty. Pop.	Male	Female	All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Allegheny	Black	13.4%	4,283	3,865	**8,148**	11.3%	919	340.2	1,158	667.1	1,573	1,038.1	2,095	1,556.5	2,403	2,676.5
	White	82.4%	26,227	35,290	**61,517**	85.6%	2,007	186.7	4,098	442.5	6,273	616.9	10,461	957.9	38,678	4,207.7
Chester	Black	6.2%	567	480	**1,047**	5.6%	85	171.0	156	443.6	205	690.8	234	962.4	367	2,343.4
	White	88.3%	7,375	9,350	**16,725**	89.4%	880	148.5	1,317	349.4	1,923	395.4	3,132	705.9	9,473	3,258.6
Dauphin	Black	18.1%	744	588	**1,332**	14.7%	182	224.7	215	447.1	290	596.7	335	865.0	310	1,516.6
	White	75.8%	3,208	3,963	**7,171**	79.2%	445	199.4	657	373.7	827	386.8	1,275	573.1	3,968	2,540.4
Delaware	Black	19.2%	2,608	2,290	**4,898**	13.9%	709	394.8	775	602.4	1,021	920.8	1,092	1,440.9	1,301	3,214.8
	White	74.4%	12,932	15,858	**28,790**	81.6%	1,460	288.8	2,360	641.0	3,056	731.7	4,950	1,137.1	16,965	4,919.0
Montgomery	Black	8.8%	1,437	1,194	**2,631**	7.0%	251	248.8	358	473.7	441	551.3	669	1,147.1	912	2,725.0
	White	83.2%	13,935	17,932	**31,867**	84.5%	1,710	213.6	2,217	398.4	3,099	436.3	5,223	773.2	19,625	3,655.4
Philadelphia	Black	45.1%	19,205	15,955	**35,160**	42.1%	3,804	356.3	4,608	618.3	7,742	1,180.5	9,052	1,635.2	9,954	2,753.2
	White	45.3%	17,449	20,814	**38,263**	45.8%	1,314	173.1	3,474	400.2	4,523	701.1	7,143	1,190.7	21,810	4,116.1
Pennsylvania	Black	10.9%	33,359	27,557	**60,916**	9.7%	7,068	320.1	8,664	554.8	12,955	948.4	15,243	1,434.0	16,990	2,603.1
	White	84.5%	234,763	285,458	**520,221**	83.2%	27,400	215.1	41,948	433.5	58,543	535.9	89,712	816.8	302,809	3,417.0

INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED INJURIES

In 2011, among Pennsylvania residents, there were 9,434 hospitalizations due to self-inflicted injury. On average, one resident was hospitalized every 56 minutes due to self-inflicted injury.

Injury Definition

Self-inflicted injury includes any event involving deliberate self-harm.

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

Leading mechanisms of self-inflicted injury include self-poisoning and self-cutting. These mechanisms account for over 90 percent of all self-inflicted injury hospitalizations in Pa.

HIGHLIGHTS

- Age-adjusted rates generally **fluctuated** from 2007 to 2011.
- Most common demographic is **white females**, ages 45 to 49.
- Of all Pennsylvania counties, **Schuylkill, Cambria** and **Carbon** had the highest rates.

Trends Over Time

- Age-adjusted hospitalization rates for self-inflicted injury fluctuated from 2007 to 2011; the rates increased by 1 percent from 82.6 hospitalizations per 100,000 population in 2007 to 83.8 hospitalization in 2008. They then decreased by 10 percent to 75.8 in 2010, after which they increased by 0.5 percent to 76.2 hospitalizations per 100,000 population in 2011.
- Females had higher age-adjusted self-injury hospitalization rates than males during 2007 to 2011 (rates in 2011 were 84.8 and 67.6 for females and males, respectively).
- Age-adjusted self-inflicted injury hospitalization rates for rural females were higher than those of urban females during 2007 to 2011; urban males had higher age-adjusted self-inflicted injury hospitalization rates than rural males in 2007 and 2008, while rural males had higher rates than urban males during 2009 to 2011.

Demographic Trends

- Females had higher self-injury hospitalization rates than males for ages less than 75, while males had higher rates for ages 75 and older where rates could be calculated.
- Black males ages 10 to 14 and 35 to 64 had significantly higher self-injury hospitalization rates compared to white males.
- Rural populations had significantly higher self-injury hospitalization rates for ages 10 to 39 and 45-49, while urban populations had significantly higher rates for ages 55 and older.

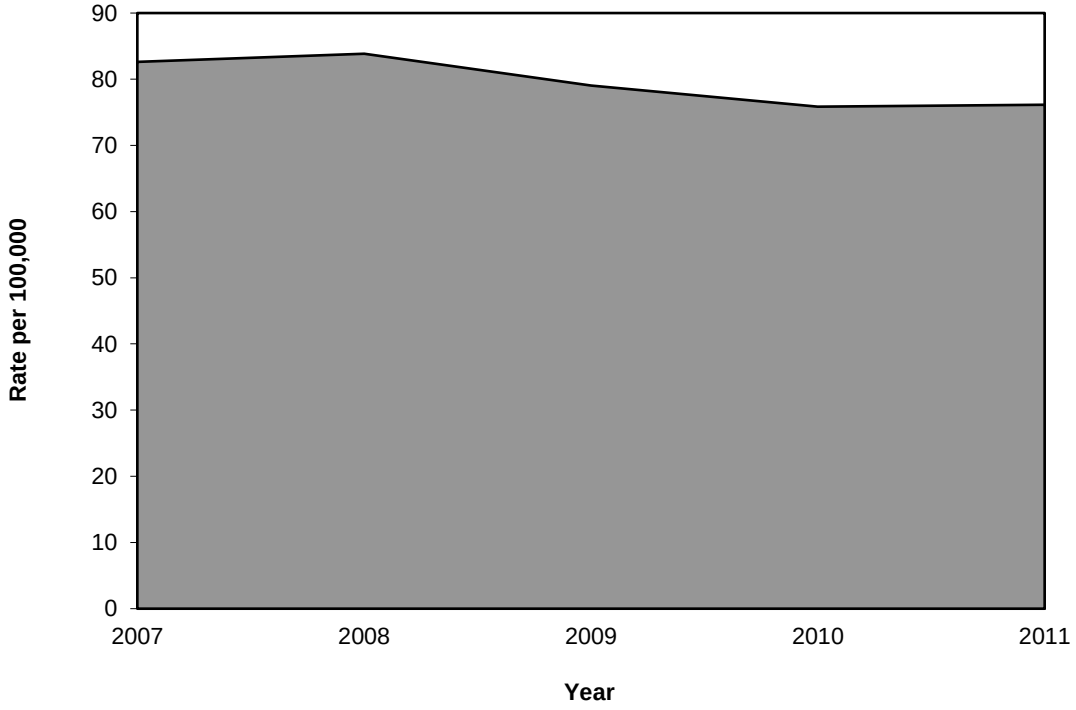
Regional Trends

- The Northwest Health District had the highest age-adjusted self-injury hospitalization rate while the South Central Health District had the lowest rate.
- Twenty-eight counties had age-adjusted self-injury hospitalization rates during 2007 to 2011 that were significantly higher than the comparable state rate.

INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND
AGE-ADJUSTED HOSPITALIZATION RATES
PENNSYLVANIA RESIDENTS, 2007-2011

Year	No.	Rate
2007	9,973	82.6
2008	10,177	83.8
2009	9,698	79.0
2010	9,383	75.8
2011	9,434	76.2



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2007-2011

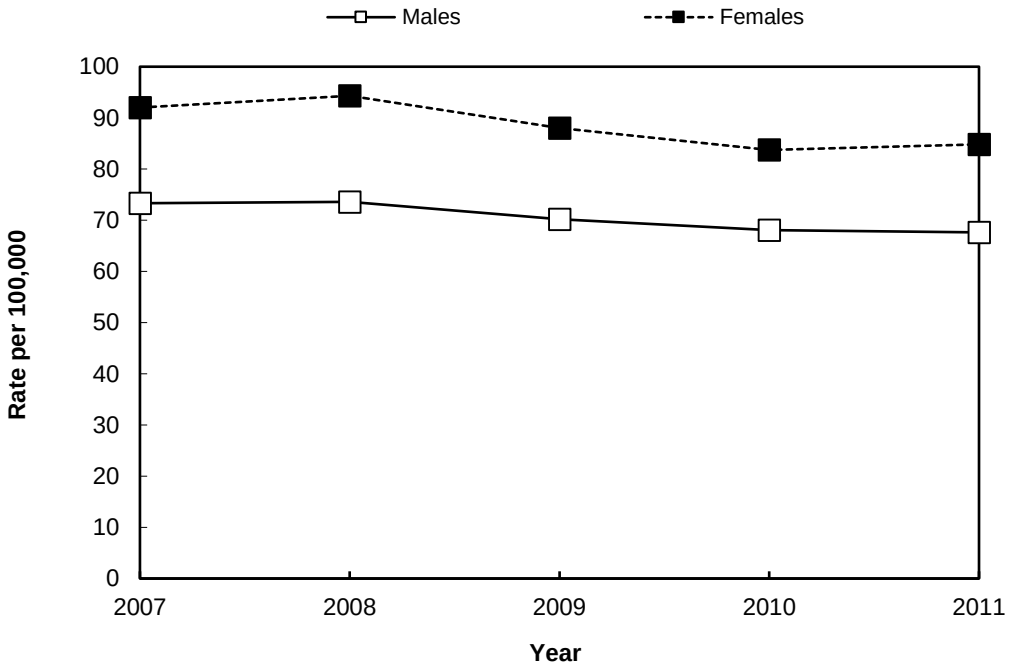
Year	Northwest	North Central	Northeast	Southeast	South Central	Southwest
2007	113.0	78.9	88.8	80.2	67.0	84.9
2008	101.1	83.4	91.2	84.6	65.9	84.7
2009	103.3	70.5	87.3	77.2	67.7	80.3
2010	100.0	80.0	92.7	71.8	61.4	75.5
2011	88.3	74.8	92.8	70.5	70.1	79.1

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2007-2011 based on ICD-9 codes. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX PENNSYLVANIA RESIDENTS, 2007-2011

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2007	4,385	73.3	2007	5,585	92.0
2008	4,425	73.6	2008	5,749	94.3
2009	4,273	70.2	2009	5,422	88.0
2010	4,170	68.1	2010	5,212	83.7
2011	4,161	67.6	2011	5,269	84.8



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2007-2011

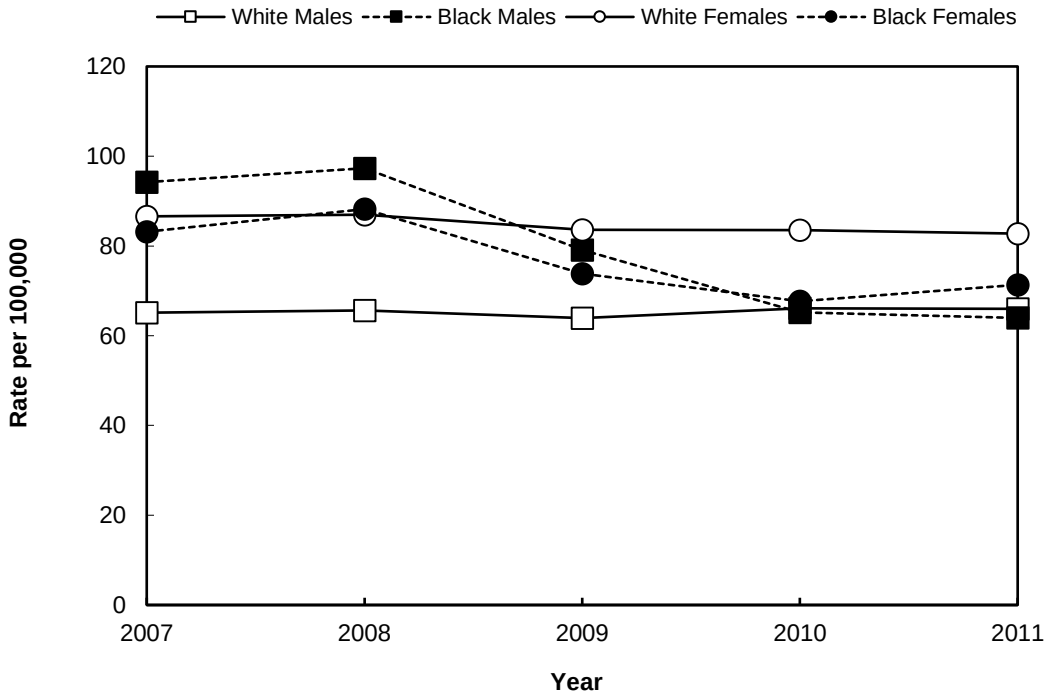
Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2007	73.8	72.4	2007	87.4	105.0
2008	74.1	72.6	2008	90.1	106.3
2009	69.4	73.0	2009	84.3	99.0
2010	66.7	72.3	2010	77.5	101.8
2011	65.2	74.4	2011	79.0	102.3

NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania. Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX AND RACE OR ETHNICITY PENNSYLVANIA RESIDENTS, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	3,337	568	4,457	578	235	269
2008	3,376	586	4,493	621	239	330
2009	3,318	496	4,349	528	230	270
2010	3,290	431	4,199	493	217	242
2011	3,403	438	4,266	538	143	198



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	65.1	94.2	86.6	83.2	82.1	99.8
2008	65.7	97.3	87.0	88.2	87.2	113.1
2009	63.9	79.1	83.6	73.8	77.3	86.2
2010	66.1	65.2	83.5	67.7	61.3	71.7
2011	66.0	64.0	82.8	71.4	36.4	53.6

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 AVERAGE ANNUAL HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2007-2011

AGE	PA TOTAL		MALE		FEMALE			URBAN		RURAL		
GROUP	No.	Rate	No.	Rate	No.	Rate		No.	Rate	No.	Rate	
TOTAL	**48,665**	**77.3**	**21,414**	**69.9**	**27,237**	**84.3**		**34,358**	**75.2**	**14,307**	**83.1**	
< 5	7	NSR	4	NSR	3	NSR		7	NSR	0	NSR	
5-9	23	0.6	15	0.8	8	NSR		18	0.6	5	NSR	
10-14	666	16.7	150	7.4	516	26.5	*	421	14.4	245	23.3	*
15-19	5,020	109.7	1,852	79.9	3,168	140.2	*	3,272	99.1	1,748	137.2	*
20-24	6,155	139.0	2,821	125.6	3,333	152.7	*	4,244	132.9	1,911	154.7	*
25-29	5,538	145.5	2,505	129.5	3,032	162.0	*	3,822	133.1	1,716	183.9	*
30-34	4,811	129.3	2,274	121.5	2,533	136.9	*	3,368	122.0	1,443	150.2	*
35-39	5,010	128.2	2,244	115.3	2,766	141.0	*	3,470	121.1	1,540	147.8	*
40-44	5,559	128.3	2,464	114.8	3,093	141.5	*	4,037	127.5	1,522	130.4	
45-49	5,633	121.5	2,481	108.6	3,150	134.0	*	4,013	119.0	1,620	128.2	*
50-54	4,235	91.2	1,883	82.7	2,351	99.3	*	3,107	92.5	1,128	87.6	
55-59	2,468	58.8	1,158	56.8	1,310	60.8		1,863	62.1	605	50.7	*
60-64	1,356	38.1	612	35.9	742	40.0	*	1,014	40.3	342	32.8	*
65-69	735	27.1	292	23.2	443	30.4	*	562	29.7	173	21.0	*
70-74	474	21.6	191	19.6	282	23.1		360	23.5	114	17.1	*
75-79	381	20.8	198	26.0	183	17.1	*	301	23.4	80	14.7	*
80-84	311	21.2	131	23.3	180	19.9		255	24.5	56	13.2	*
85 +	283	19.2	139	30.4	144	14.1	*	224	21.1	59	14.2	*

* 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: ALL SELF-INFLICTED

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH AVERAGE ANNUAL HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2007-2011

AGE	WHITE MALE		BLACK MALE			WHITE FEMALE		BLACK FEMALE			HISPANICS	
GROUP	No.	Rate	No.	Rate		No.	Rate	No.	Rate		No.	Rate
TOTAL	**16,724**	**64.5**	**2,519**	**77.2**		**21,764**	**79.9**	**2,758**	**76.9**		**2,373**	**72.6**
< 5	0	NSR	4	NSR		0	NSR	2	NSR		1	NSR
5-9	8	NSR	4	NSR		2	NSR	3	NSR		5	NSR
10-14	96	5.9	31	11.1	*	352	22.6	61	22.8		62	20.2
15-19	1,434	76.8	178	55.6	*	2,328	127.7	405	131.1		300	92.9
20-24	2,193	121.1	294	96.5	*	2,573	146.5	370	122.8	*	338	114.0
25-29	1,966	125.2	255	102.4	*	2,388	158.8	325	129.4	*	306	112.7
30-34	1,760	114.6	249	112.4		1,964	131.1	291	124.3		308	120.8
35-39	1,730	106.4	279	132.1	*	2,216	136.8	283	122.8		261	108.8
40-44	1,840	100.4	392	179.7	*	2,469	133.9	333	137.0		268	124.6
45-49	1,929	97.1	335	154.6	*	2,638	130.8	281	113.9	*	211	112.1
50-54	1,495	74.3	248	125.9	*	1,990	96.6	201	86.5		137	95.7
55-59	938	51.4	140	87.9	*	1,096	57.8	112	57.1		83	76.6
60-64	500	32.5	59	48.9	*	647	39.2	39	24.8	*	49	64.0
65-69	245	21.4	19	23.5		384	29.3	23	20.3	*	23	44.0
70-74	171	19.2	10	16.3		246	22.3	17	18.1		9	NSR
75-79	175	24.9	11	24.6		166	17.0	4	NSR		5	NSR
80-84	119	22.8	5	NSR		167	20.0	5	NSR		6	NSR
85 +	125	29.4	6	NSR		138	14.6	3	NSR		1	NSR

* 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 AVERAGE ANNUAL HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2007-2011

AGE	NORTHWEST			NORTH CENTRAL			NORTHEAST			SOUTHEAST			SOUTH CENTRAL			SOUTHWEST		
GROUP	No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate	
TOTAL	**4,412**	**95.3**		**2,583**	**75.0**		**6,881**	**87.1**		**19,145**	**76.1**		**5,271**	**63.7**		**10,373**	**76.7**	
< 5	0	NSR		0	NSR		0	NSR		6	NSR		0	NSR		1	NSR	
5-9	1	NSR		0	NSR		3	NSR		8	NSR		0	NSR		8	NSR	
10-14	86	29.6	+	40	20.9	+	136	27.1	+	248	14.9		45	8.5	-	104	13.0	-
15-19	516	149.7	+	310	101.7	-	794	138.4	+	1,854	100.2	-	525	91.6	-	1,021	109.7	
20-24	596	189.8	+	355	96.7		939	176.4	+	2,303	128.0	-	680	129.7		1,283	143.7	
25-29	551	212.2	+	348	186.6	-	728	162.6	+	2,051	124.9	-	650	132.1	-	1,216	156.5	+
30-34	447	171.2	+	235	125.1	+	701	156.6	+	1,763	112.7	-	554	112.4	-	1,118	145.9	+
35-39	458	165.6	+	272	137.4		681	140.0	+	1,869	116.1	-	615	116.8	-	1,126	139.1	+
40-44	486	157.5	+	280	128.3		758	137.7		2,298	130.7		559	95.9	-	1,181	129.1	
45-49	509	151.9	+	295	125.2		747	126.1		2,265	122.5		630	102.0	-	1,194	118.7	
50-54	350	101.2		190	79.6		559	94.3		1,841	102.1	+	445	72.7	-	849	80.6	-
55-59	184	57.6		113	51.1		336	62.4		1,052	66.3	+	240	42.7	-	543	56.1	
60-64	90	32.8	-	50	25.9	-	211	44.4		570	43.3	+	145	30.0	-	283	34.5	
65-69	45	20.8	-	33	21.1	-	102	27.8		342	34.8	+	70	18.6	-	141	22.9	-
70-74	22	12.3	-	25	19.6		61	21.1		235	29.9	+	38	12.8	-	88	17.0	-
75-79	26	17.5		20	19.3		42	17.7	-	171	26.0	+	35	14.5	-	84	18.9	
80-84	23	19.5		10	12.6	-	38	20.1		146	27.9	+	20	11.1	-	70	18.6	-
85 +	22	19.0		7	NSR		45	23.9	+	123	22.8		20	11.4	-	63	16.6	-

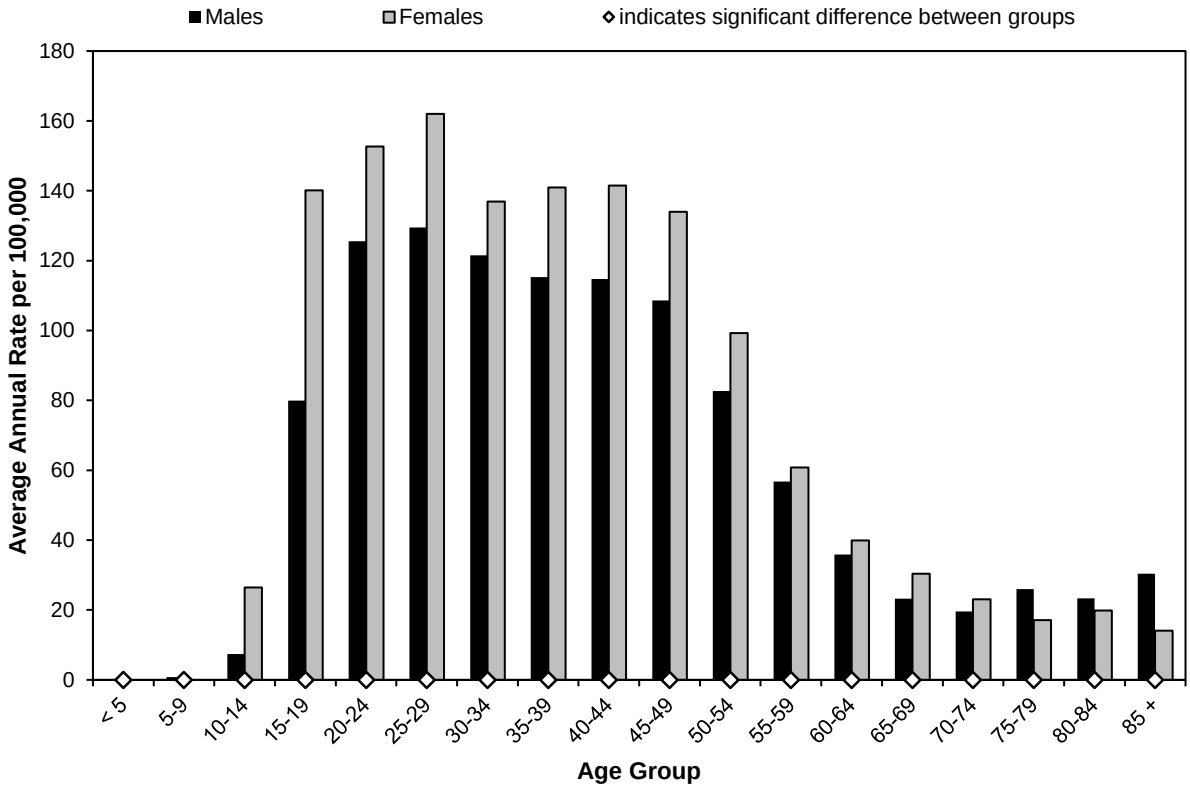
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

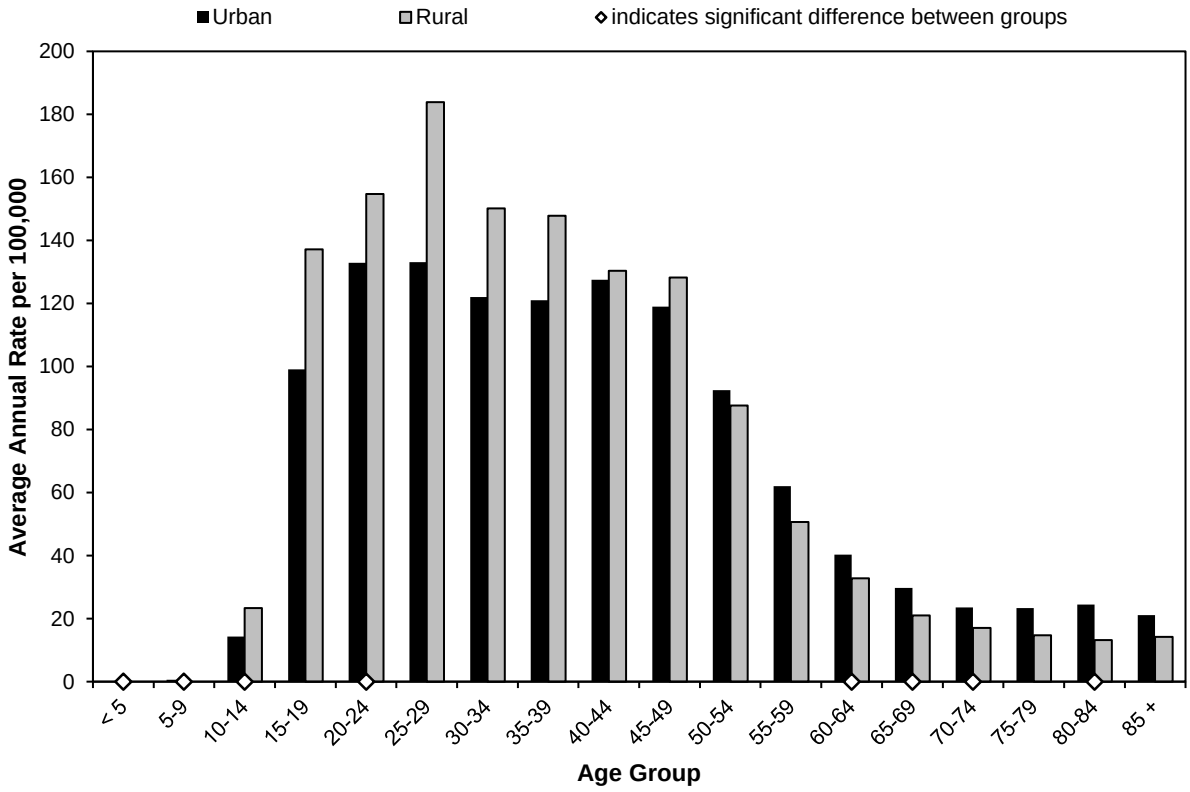
NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total.

INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED

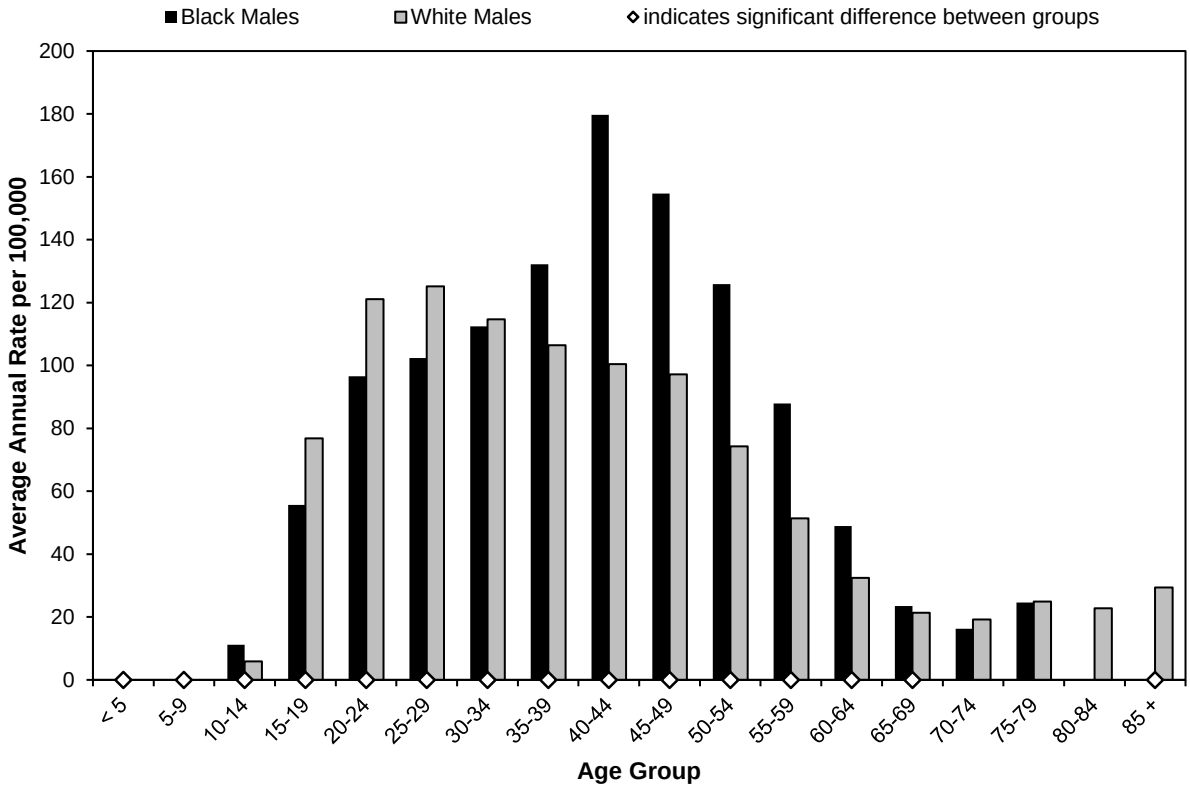
AVERAGE ANNUAL HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2007-2011

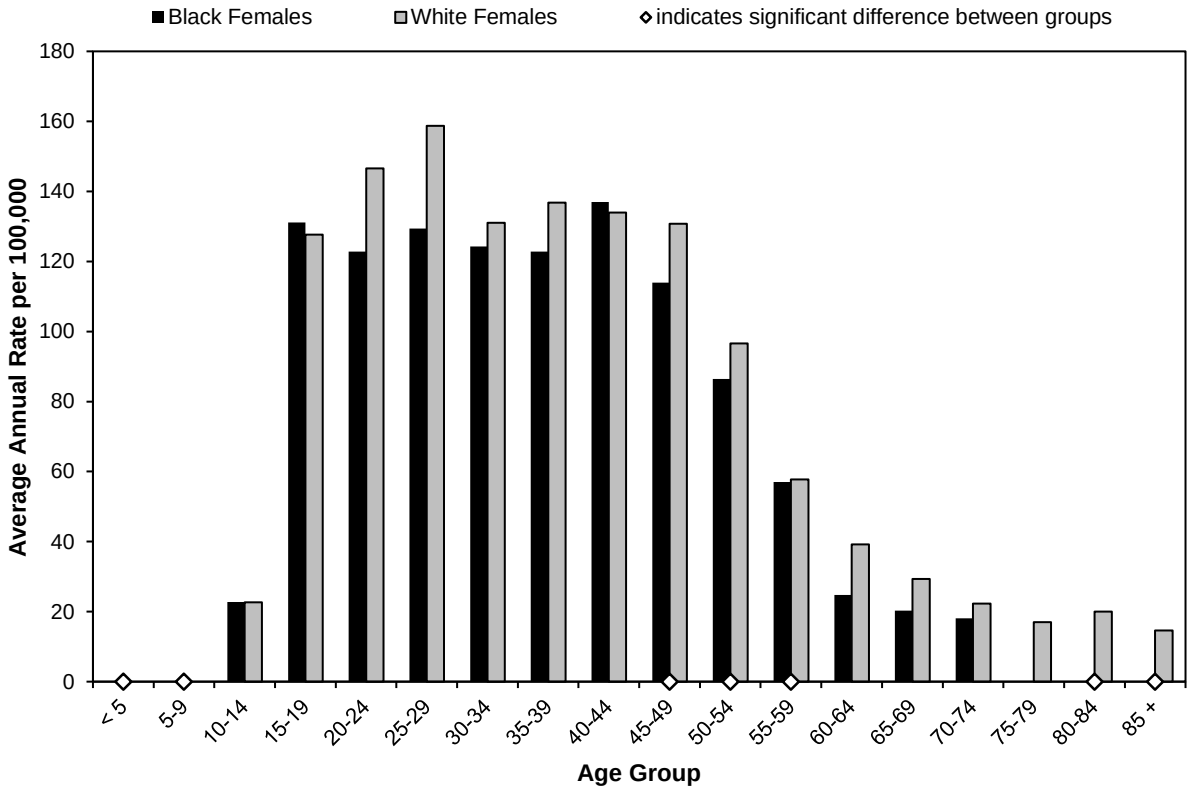




INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED

AVERAGE ANNUAL HOSPITALIZATION RATES BY SEX AND RACE
PENNSYLVANIA RESIDENTS, 2007-2011





INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2007-2011

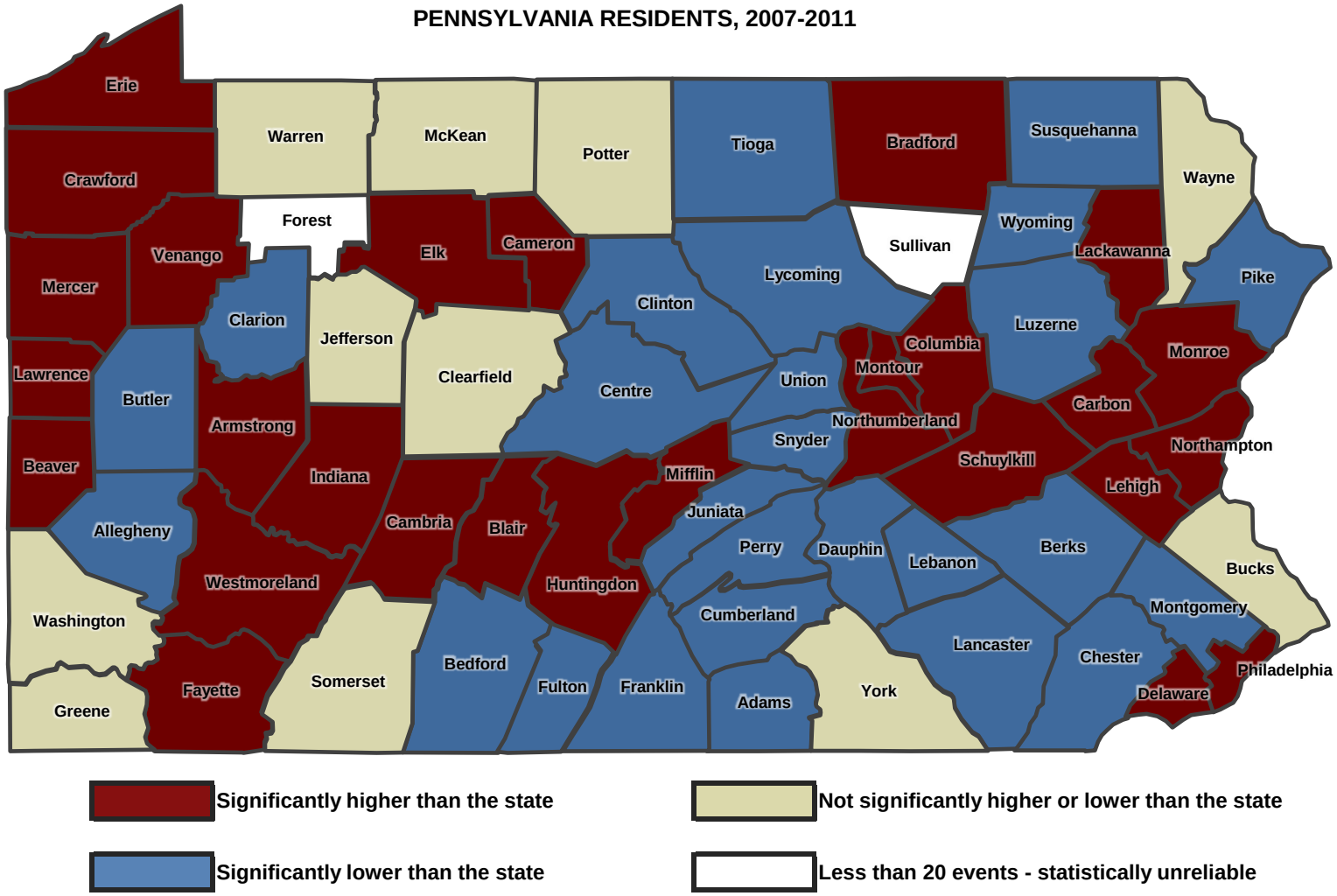
District/County	No.	Rate	CI (95%)		District/County	No.	Rate	CI (95%)	
Northeast	6,881	90.5	88.4-92.7	+	**Southeast**	19,145	76.8	75.8-77.9	-
Carbon	429	144.5	130.8-158.2	+	Berks	1,453	73.5	69.7-77.2	-
Lackawanna	1,000	99.8	93.6-106.0	+	Bucks	2,472	82.2	79.0-85.5	
Lehigh	1,712	103.5	98.6-108.4	+	Chester	1,113	45.6	42.9-48.3	-
Luzerne	885	57.7	53.9-61.5	-	Delaware	2,456	88.5	85.0-92.0	+
Monroe	798	95.4	88.8-102.0	+	Lancaster	1,454	59.3	56.3-62.4	-
Northampton	1,592	110.6	105.2-116.0	+	Montgomery	2,306	59.9	57.5-62.3	-
Pike	87	30.6	24.2-37.0	-	Philadelphia	6,704	90.6	88.4-92.7	+
Susquehanna	102	54.1	43.6-64.6	-	Schuylkill	1,187	173.9	164.1-183.8	+
Wayne	198	84.6	72.8-96.3						
Wyoming	78	58.3	45.3-71.2	-					
North Central	2,583	77.6	74.6-80.6		**South Central**	5,271	66.5	64.7-68.3	-
Bradford	331	120.6	107.6-133.5	+	Adams	197	39.8	34.2-45.3	-
Centre	506	71.8	65.6-78.1	-	Bedford	104	47.4	38.3-56.5	-
Clinton	88	47.8	37.8-57.7	-	Blair	655	111.8	103.2-120.4	+
Columbia	344	112.3	100.4-124.1	+	Cumberland	621	54.3	50.0-58.5	-
Lycoming	283	49.6	43.8-55.4	-	Dauphin	777	61.0	56.7-65.3	-
Montour	109	135.9	110.3-161.4	+	Franklin	373	55.0	49.4-60.6	-
Northumberland	524	125.5	114.7-136.2	+	Fulton	25	34.9	21.2-48.6	-
Potter	48	63.2	45.3-81.1		Huntingdon	211	94.6	81.8-107.3	+
Snyder	108	59.9	48.6-71.2	-	Juniata	52	45.9	33.5-58.4	-
Sullivan	17	NSR			Lebanon	258	42.8	37.6-48.0	-
Tioga	93	50.2	40.0-60.5	-	Mifflin	191	93.5	80.3-106.8	+
Union	132	57.2	47.5-67.0	-	Perry	131	60.4	50.0-70.7	-
					York	1,676	80.6	76.7-84.4	
Northwest	4,412	101.3	98.3-104.3	+	**Southwest**	10,373	80.9	79.3-82.4	
Cameron	31	135.2	87.6-182.7	+	Allegheny	4,237	71.3	69.1-73.4	-
Clarion	82	45.0	35.3-54.7	-	Armstrong	290	97.2	86.0-108.3	+
Clearfield	338	86.4	77.2-95.6		Beaver	770	99.9	92.8-106.9	+
Crawford	386	94.4	84.9-103.8	+	Butler	514	58.5	53.4-63.5	-
Elk	140	100.3	83.7-117.0	+	Cambria	938	141.8	132.8-150.9	+
Erie	1,458	107.0	101.5-112.5	+	Fayette	644	99.1	91.4-106.7	+
Forest	13	NSR			Greene	136	71.6	59.6-83.7	
Jefferson	178	88.6	75.6-101.6		Indiana	401	97.6	88.1-107.2	+
Lawrence	485	121.1	110.4-131.9	+	Somerset	303	85.1	75.5-94.7	
McKean	183	89.1	76.2-102.0		Washington	726	75.8	70.3-81.3	
Mercer	703	131.2	121.5-140.9	+	Westmoreland	1,414	85.5	81.1-90.0	+
Venango	256	106.7	93.7-119.8	+					
Warren	159	83.7	70.7-96.7		Pennsylvania	48,665	79.5	78.8-80.2	

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, 2007-2011



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 AVERAGE ANNUAL HOSPITALIZATION RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2007-2011

Geography	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	21,414	27,237	**48,651**	13,627	85.7	15,457	128.1	13,616	107.2	4,632	36.3	1,333	13.5
Northeast	2,973	3,900	**6,873**	2,324	118.7	2,128	149.3	1,802	111.4	480	29.1	147	11.3
Carbon	180	249	429	168	234.5	141	254.8	105	156.7	12	16.8	3	NSR
Lackawanna	457	543	1,000	353	140.6	344	172.5	216	105.6	73	33.7	14	7.4
Lehigh	745	967	1,712	520	114.4	515	157.7	510	144.0	131	38.2	36	13.7
Luzerne	399	479	878	227	62.7	263	91.2	252	78.5	107	32.7	36	12.5
Monroe	288	510	798	274	120.6	235	161.1	230	126.7	50	28.2	9	8.3
Northampton	725	867	1,592	597	156.8	497	183.7	382	125.7	72	23.8	44	19.0
Pike	28	59	87	35	49.7	19	45.0	24	38.1	9	NSR	0	NSR
Susquehanna	49	53	102	45	91.6	38	115.8	17	41.3	2	NSR	0	NSR
Wayne	71	126	197	87	159.0	51	126.6	45	85.2	13	20.6	2	NSR
Wyoming	31	47	78	18	50.4	25	106.8	21	75.6	11	35.9	3	NSR
Southeast	8,708	10,436	**19,144**	4,409	65.7	5,888	115.8	5,782	112.1	2,404	49.5	662	18.6
Berks	612	841	1,453	473	84.5	474	126.4	360	85.6	110	27.8	36	12.1
Bucks	1,110	1,362	2,472	832	105.7	730	143.2	685	99.4	165	24.2	60	13.1
Chester	463	650	1,113	394	56.9	326	74.2	276	50.6	78	15.6	39	12.0
Delaware	1,171	1,285	2,456	271	36.4	783	145.4	768	137.5	482	87.7	152	38.0
Lancaster	619	835	1,454	501	69.7	443	90.8	388	77.9	95	19.6	27	6.9
Montgomery	913	1,393	2,306	826	82.3	599	84.9	626	73.1	180	22.4	75	12.4
Philadelphia	3,301	3,403	6,704	603	29.5	2,166	114.0	2,413	168.3	1,258	97.9	264	28.1
Schuylkill	519	667	1,186	509	316.1	367	284.5	266	168.1	36	23.4	9	NSR

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	21,414	27,237	**48,651**	13,627	85.7	15,457	128.1	13,616	107.2	4,632	36.3	1,333	13.5
North Central	993	1,586	**2,579**	1,074	126.6	791	105.3	583	90.3	103	15.3	32	5.8
Bradford	117	214	331	159	204.8	94	189.8	68	110.3	9	NSR	1	NSR
Centre	162	343	505	220	118.2	146	59.9	114	93.2	18	15.5	8	NSR
Clinton	40	47	87	54	108.1	19	48.9	14	40.9	1	NSR	0	NSR
Columbia	146	198	344	131	157.5	109	155.2	82	137.9	13	20.1	9	NSR
Lycoming	128	154	282	84	59.8	81	72.2	98	86.7	13	10.8	7	NSR
Montour	40	69	109	47	218.7	44	299.4	14	81.0	4	NSR	0	NSR
Northumberland	202	321	523	222	209.4	160	203.3	110	117.3	27	27.0	5	NSR
Potter	20	28	48	16	75.0	12	92.2	16	100.4	4	NSR	0	NSR
Snyder	39	69	108	37	71.2	41	106.3	25	66.7	5	NSR	0	NSR
Sullivan	9	8	17	8	NSR	6	NSR	3	NSR	0	NSR	0	NSR
Tioga	34	59	93	32	60.4	32	87.4	22	59.0	5	NSR	2	NSR
Union	56	76	132	64	125.8	47	92.7	17	35.6	4	NSR	0	NSR
South Central	2,277	2,994	**5,271**	1,838	87.3	1,719	113.8	1,332	77.9	296	17.4	86	6.6
Adams	77	120	197	83	64.0	52	58.3	50	47.6	9	NSR	3	NSR
Bedford	47	57	104	40	67.8	37	95.0	20	39.6	5	NSR	2	NSR
Blair	305	350	655	288	188.2	195	173.8	135	111.1	33	24.8	4	NSR
Cumberland	238	383	621	214	74.6	201	86.0	164	70.0	28	12.0	14	7.6
Dauphin	338	439	777	144	42.6	276	111.3	244	89.3	88	31.7	25	13.6
Franklin	146	227	373	137	70.5	119	91.6	94	64.1	21	14.6	2	NSR
Fulton	17	8	25	15	81.9	7	56.9	3	NSR	0	NSR	0	NSR
Huntingdon	93	118	211	108	206.8	70	158.3	23	48.2	9	19.2	1	NSR
Juniata	21	31	52	19	61.3	16	79.1	14	58.6	3	12.3	0	NSR
Lebanon	101	157	258	98	58.6	93	77.6	48	37.1	15	11.3	4	NSR
Mifflin	71	120	191	66	111.6	71	189.2	43	94.5	9	NSR	2	NSR
Perry	43	88	131	35	59.2	48	122.8	40	82.8	8	NSR	0	NSR
York	780	896	1,676	591	106.0	534	138.5	454	96.8	68	15.4	29	9.4

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	21,414	27,237	**48,651**	13,627	85.7	15,457	128.1	13,616	107.2	4,632	36.3	1,333	13.5
Northwest	1,996	2,416	**4,412**	1,739	152.2	1,387	167.3	1,053	116.7	171	17.7	62	7.9
Cameron	20	11	31	11	197.0	11	309.9	9	192.4	0	NSR	0	NSR
Clarion	39	43	82	24	48.1	32	78.9	16	44.9	3	NSR	7	NSR
Clearfield	167	171	338	114	128.2	116	160.8	85	95.4	21	24.2	2	NSR
Crawford	173	213	386	155	135.9	118	156.1	93	110.3	18	19.1	2	NSR
Elk	66	74	140	54	147.9	51	222.1	30	87.9	4	NSR	1	NSR
Erie	644	814	1,458	566	153.6	460	162.7	352	131.0	55	19.9	25	12.2
Forest	7	6	13	7	NSR	4	NSR	2	NSR	0	NSR	0	NSR
Jefferson	88	90	178	44	81.6	62	165.2	56	127.8	13	27.0	3	NSR
Lawrence	237	248	485	189	172.9	167	226.9	114	131.8	8	NSR	7	NSR
McKean	56	127	183	87	165.4	54	140.2	37	83.2	5	NSR	0	NSR
Mercer	315	388	703	309	213.3	196	200.9	160	144.3	29	24.0	9	NSR
Venango	120	136	256	114	174.1	76	176.5	56	107.3	8	NSR	2	NSR
Warren	64	95	159	65	137.3	40	126.8	43	106.2	7	NSR	4	NSR
Southwest	4,467	5,905	**10,372**	2,243	71.7	3,544	144.0	3,064	115.0	1,178	40.4	344	14.6
Allegheny	1,815	2,422	4,237	404	28.6	1,448	119.9	1,405	118.7	760	59.2	220	21.4
Armstrong	137	153	290	136	170.6	84	159.4	49	70.9	11	14.3	10	15.6
Beaver	351	419	770	163	83.4	283	200.0	238	141.3	65	34.0	21	13.2
Butler	225	289	514	207	87.6	151	97.0	119	61.2	27	13.9	10	7.1
Cambria	434	504	938	256	157.8	336	270.1	244	176.5	76	48.4	26	19.2
Fayette	273	371	644	232	147.3	208	178.8	168	118.9	34	21.9	2	NSR
Greene	63	72	135	49	111.6	51	136.4	30	74.3	6	NSR	0	NSR
Indiana	173	228	401	139	124.1	134	140.2	91	119.7	26	29.8	11	15.6
Somerset	131	172	303	103	125.3	111	167.3	74	92.4	11	13.0	4	NSR
Washington	305	421	726	240	98.4	260	146.7	190	92.2	26	11.4	10	5.5
Westmoreland	560	854	1,414	314	77.6	478	166.6	456	124.4	136	32.8	30	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.

INJURY HOSPITALIZATIONS: ALL SELF-INFLICTED

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

BLACK POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	588	74.0	68.0-80.0
Chester	96	61.4	49.1-73.7
Dauphin	121	53.7	44.1-63.2
Delaware	366	67.3	60.4-74.2
Montgomery	199	54.7	47.1-62.3
Philadelphia	2,639	81.4	78.3-84.5
Pennsylvania	5,277	77.4	75.3-79.4

WHITE POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	3,527	72.4	70.0-74.8
Chester	932	43.4	40.6-46.1
Dauphin	571	58.5	53.7-63.3
Delaware	1,982	97.4	93.2-101.7
Montgomery	1,876	58.8	56.1-61.4
Philadelphia	2,920	84.6	81.5-87.7
Pennsylvania	38,499	75.0	74.2-75.7

HISPANIC POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Berks	251	83.6	73.2-93.9
Lancaster	55	27.1	19.9-34.3
Lehigh	294	97.2	86.1-108.3
Philadelphia	760	86.6	80.5-92.8
Pennsylvania	2,373	74.6	71.6-77.6

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL HOSPITALIZATION RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

Select Counties		Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+	
County and Race		Cty. Pop.	Male	Female	All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Allegheny	Black	13.4%	254	334	**588**	13.9%	90	33.3	206	118.7	185	122.1	89	66.1	18	20.0
	White	82.4%	1,490	2,037	**3,527**	83.2%	301	28.0	1,192	128.7	1,189	116.9	655	60.0	190	20.7
Chester	Black	6.2%	42	54	**96**	8.6%	10	20.1	46	130.8	25	84.2	13	53.5	2	NSR
	White	88.3%	382	550	**932**	83.7%	111	18.7	271	71.9	312	64.1	159	35.8	79	27.2
Dauphin	Black	18.1%	51	70	**121**	15.6%	13	16.1	41	85.3	50	102.9	14	36.1	3	NSR
	White	75.8%	249	322	**571**	73.5%	49	22.0	167	95.0	196	91.7	128	57.5	31	19.8
Delaware	Black	19.2%	183	183	**366**	14.9%	61	34.0	110	85.5	128	115.4	58	76.5	9	NSR
	White	74.4%	923	1,059	**1,982**	80.7%	193	38.2	633	171.9	612	146.5	405	93.0	139	40.3
Montgomery	Black	8.8%	94	105	**199**	8.6%	29	28.7	73	96.6	64	80.0	29	49.7	4	NSR
	White	83.2%	741	1,135	**1,876**	81.4%	229	28.6	547	98.3	555	78.1	382	56.5	163	30.4
Philadelphia	Black	45.1%	1,288	1,351	**2,639**	39.4%	276	25.9	781	104.8	1,059	161.5	465	84.0	58	16.0
	White	45.3%	1,492	1,428	**2,920**	43.6%	139	18.3	919	105.9	1,013	157.0	665	110.9	184	34.7
Pennsylvania	Black	10.9%	2,519	2,758	**5,277**	10.8%	688	31.2	1,784	114.2	1,903	139.3	799	75.2	103	15.8
	White	84.5%	16,724	21,764	**38,488**	79.1%	4,220	33.1	12,850	132.8	12,824	117.4	6,669	60.7	1,936	21.8

INJURY HOSPITALIZATIONS: ALL ASSAULT INJURIES

In 2011, among Pennsylvania residents, there were 4,952 hospitalizations due to assault injury. On average, one resident was hospitalized almost every two hours.

Injury Definition

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

Assault includes domestic violence, rape and sexual assault, as well as physical abuse of a child or elder.

Leading mechanisms of assault include being struck by personal weapons (such as fists or a blunt object), firearms (shootings) and cut/pierce (stabbings). These three mechanisms account for 66 percent of all assault injury hospitalizations in Pa.

HIGHLIGHTS

- Age-adjusted rates generally **decreased** from 2007 to 2011.
- Most common demographic is **black males**, ages 15 to 29.
- Of all Pennsylvania counties, **Philadelphia** had the highest rate of over 150.

Trends Over Time

- Age-adjusted hospitalization rates for assault injury increased by 6 percent from 44.3 hospitalizations per 100,000 population in 2007 to 46.8 hospitalizations per 100,000 population in 2008; thereafter, rates decreased by 140 percent to 40.4 hospitalizations per 100,000 population in 2011.
- Males had higher age-adjusted assault injury hospitalization rates than females during 2007 to 2011 (2011 rates were 66.9 and 13.9 for males and females, respectively).
- Black males and females had higher age-adjusted assault injury hospitalization rates than white males and females during 2007 to 2011; black males had the highest rates.

Demographic Trends

- Black males and females accounted for over half of all assault injury hospitalizations.
- Males had significantly higher assault injury hospitalization rates than females for ages 5 and older.
- Urban populations had significantly higher assault injury hospitalization rates compared to rural populations for ages 10 and older during 2007 to 2011.

Regional Trends

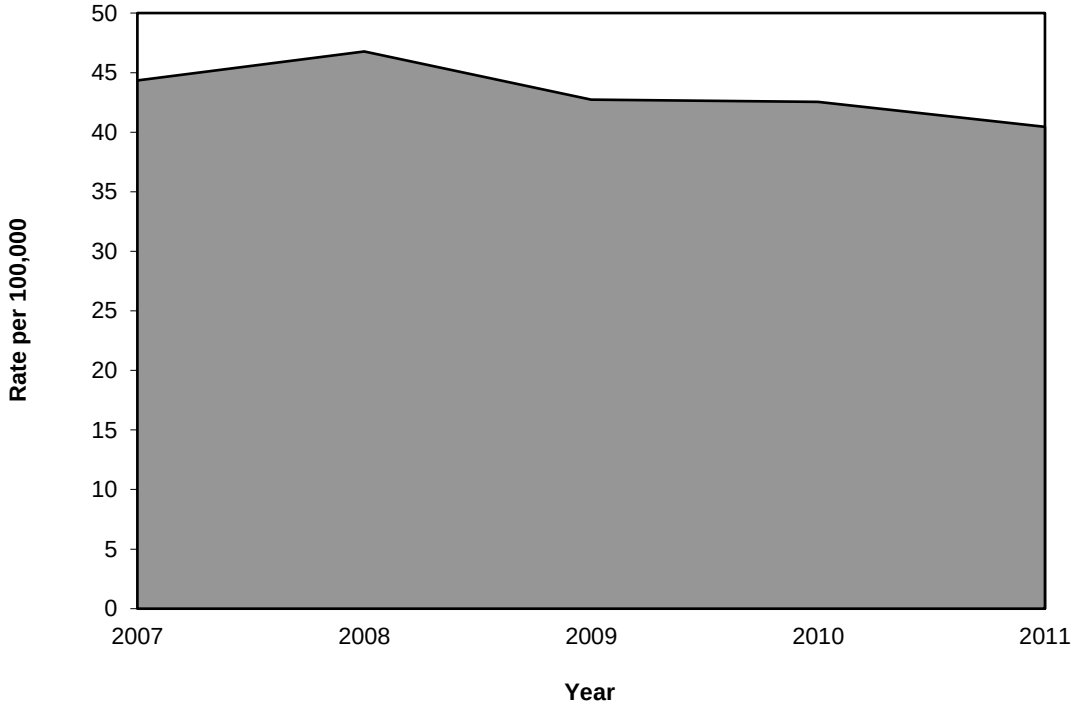
- The Southeast Health District had the highest age-adjusted assault injury hospitalization rate while the North Central Health District had the lowest rate.
- Three counties had age-adjusted assault injury hospitalization rates that were significantly higher than the state rate during 2007 to 2011; they were Allegheny, Delaware and Philadelphia. All three counties were urban.

  Note: Rates could not be calculated for many counties in the state due to a small number of events (i.e., fewer than 20 assault hospitalizations during 2007 to 2011).

INJURY HOSPITALIZATIONS: ALL ASSAULT

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND
AGE-ADJUSTED HOSPITALIZATION RATES
PENNSYLVANIA RESIDENTS, 2007-2011

Year	No.	Rate
2007	5,351	44.3
2008	5,669	46.8
2009	5,240	42.7
2010	5,189	42.6
2011	4,952	40.4



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2007-2011

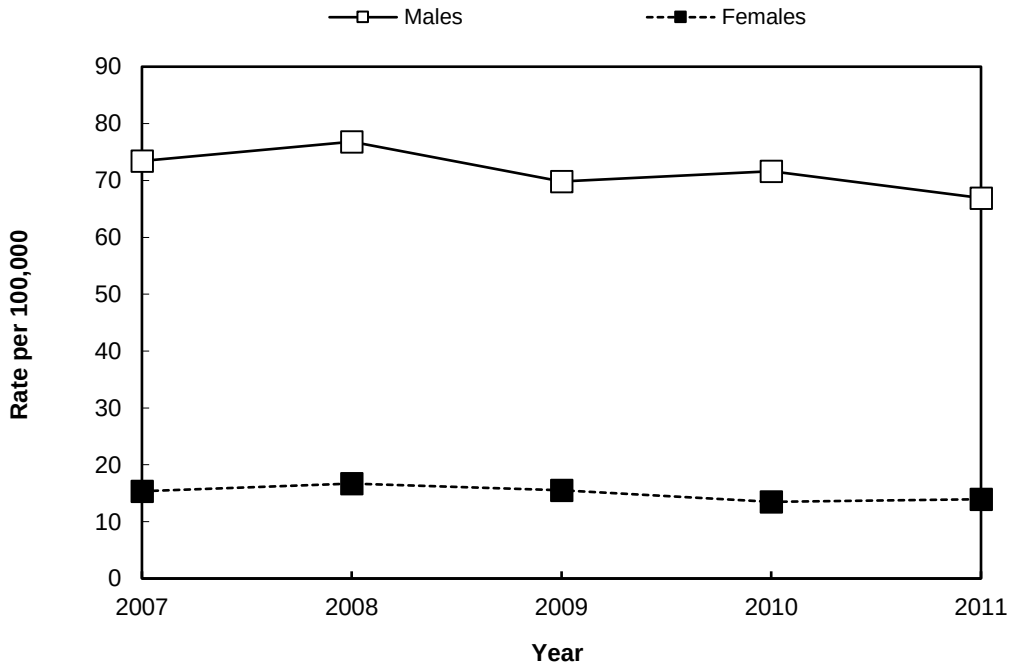
Year	Northwest	North Central	Northeast	Southeast	South Central	Southwest
2007	20.6	13.9	29.5	69.2	14.9	40.6
2008	27.1	14.6	30.8	72.6	16.3	41.6
2009	19.5	14.2	25.1	66.4	15.7	39.5
2010	23.1	12.9	29.1	65.2	16.3	37.2
2011	26.1	11.7	25.0	60.9	16.1	37.3

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population. Rates are per 100,000. Data for 2007-2011 based on ICD-9 codes. See Technical Notes.

INJURY HOSPITALIZATIONS: ALL ASSAULT

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX PENNSYLVANIA RESIDENTS, 2007-2011

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2007	4,417	73.4	2007	934	15.3
2008	4,652	76.8	2008	1,015	16.7
2009	4,281	69.8	2009	955	15.5
2010	4,353	71.6	2010	832	13.5
2011	4,090	66.9	2011	858	13.9



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2007-2011

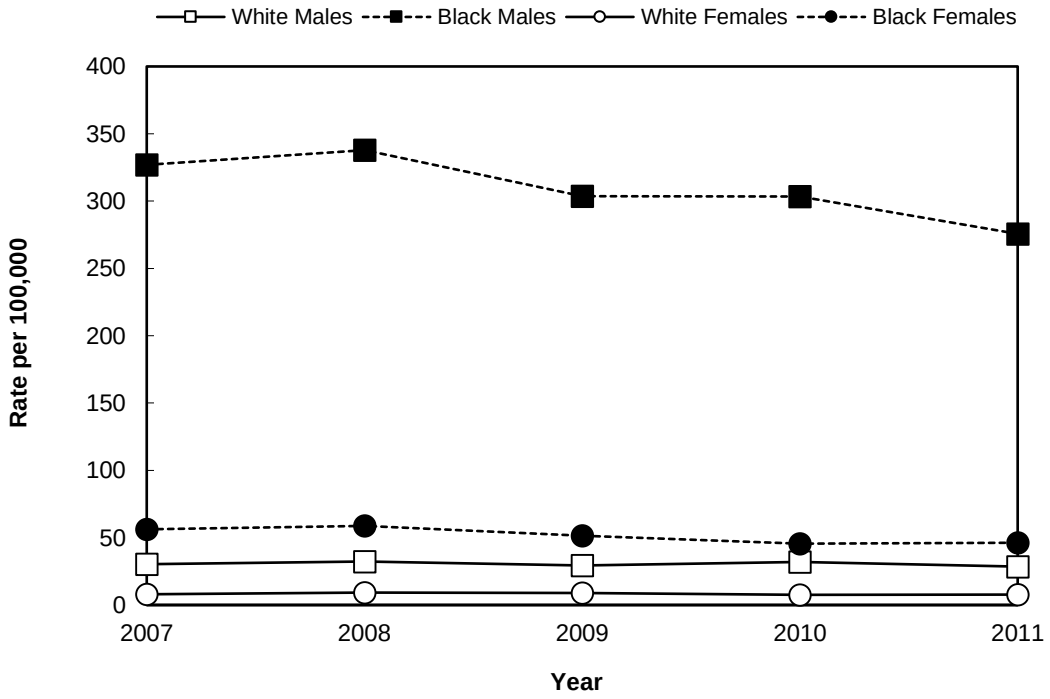
Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2007	91.4	27.1	2007	17.9	8.2
2008	96.0	27.3	2008	19.9	8.0
2009	87.1	24.5	2009	18.1	8.2
2010	88.8	25.7	2010	16.0	6.3
2011	82.2	26.4	2011	16.2	7.5

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, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	1,556	2,156	422	397	356	52
2008	1,668	2,254	480	415	386	47
2009	1,532	2,071	467	374	357	50
2010	1,567	2,107	383	334	378	51
2011	1,453	2,004	396	355	285	47



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	30.4	326.9	8.1	56.3	118.6	18.4
2008	32.3	337.8	9.2	58.7	130.3	17.0
2009	29.2	303.5	8.9	51.6	109.1	14.6
2010	32.0	303.5	7.5	45.6	102.4	14.4
2011	28.5	275.6	7.6	46.1	70.7	12.0

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 AVERAGE ANNUAL HOSPITALIZATION RATES
PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2007-2011

AGE	PA TOTAL		MALE		FEMALE			URBAN		RURAL		
GROUP	No.	Rate	No.	Rate	No.	Rate		No.	Rate	No.	Rate	
TOTAL	**26,401**	**42.0**	**21,793**	**71.2**	**4,594**	**14.2**		**23,613**	**51.7**	**2,788**	**16.2**	
< 5	289	7.9	162	8.6	127	7.1		214	7.8	75	8.2	
5-9	95	2.5	64	3.3	31	1.7	*	73	2.6	22	2.3	
10-14	369	9.3	290	14.3	79	4.1	*	332	11.3	37	3.5	*
15-19	3,142	68.6	2,736	118.1	405	17.9	*	2,875	87.0	267	21.0	*
20-24	4,753	107.3	4,108	182.9	641	29.4	*	4,304	134.7	449	36.4	*
25-29	3,640	95.7	3,072	158.8	564	30.1	*	3,294	114.7	346	37.1	*
30-34	2,760	74.2	2,283	122.0	474	25.6	*	2,468	89.4	292	30.4	*
35-39	2,312	59.2	1,892	97.2	419	21.4	*	2,032	70.9	280	26.9	*
40-44	2,454	56.6	1,965	91.5	489	22.4	*	2,162	68.3	292	25.0	*
45-49	2,392	51.6	1,932	84.6	459	19.5	*	2,143	63.5	249	19.7	*
50-54	1,807	38.9	1,486	65.2	321	13.6	*	1,626	48.4	181	14.1	*
55-59	973	23.2	815	39.9	158	7.3	*	854	28.4	119	10.0	*
60-64	500	14.0	405	23.8	95	5.1	*	450	17.9	50	4.8	*
65-69	287	10.6	226	18.0	61	4.2	*	252	13.3	35	4.2	*
70-74	199	9.1	129	13.2	70	5.7	*	169	11.1	30	4.5	*
75-79	149	8.1	86	11.3	63	5.9	*	122	9.5	27	5.0	*
80-84	97	6.6	43	7.7	54	6.0	*	77	7.4	20	4.7	*
85 +	183	12.4	99	21.6	84	8.2	*	166	15.6	17	4.1	*

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

NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.
Missing or unknown ages are included in the total. Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania.

INJURY HOSPITALIZATIONS: ALL ASSAULT

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH AVERAGE ANNUAL HOSPITALIZATION RATES
PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2007-2011

AGE	WHITE MALE		BLACK MALE			WHITE FEMALE		BLACK FEMALE			HISPANICS	
GROUP	No.	Rate	No.	Rate		No.	Rate	No.	Rate		No.	Rate
TOTAL	**7,776**	**30.0**	**10,592**	**324.6**		**2,148**	**7.9**	**1,875**	**52.3**		**2,009**	**61.5**
< 5	82	5.6	66	25.1	*	54	3.9	42	16.4	*	14	3.8
5-9	26	1.7	33	12.7	*	8	NSR	14	5.6		8	NSR
10-14	91	5.6	158	56.7	*	25	1.6	45	16.8	*	23	7.5
15-19	722	38.7	1,589	496.6	*	122	6.7	227	73.5	*	242	74.9
20-24	1,408	77.7	2,026	665.3	*	235	13.4	321	106.6	*	377	127.1
25-29	1,070	68.1	1,457	585.0	*	257	17.1	235	93.5	*	331	121.9
30-34	741	48.3	1,081	488.0	*	216	14.4	187	79.9	*	293	114.9
35-39	669	41.1	901	426.8	*	201	12.4	172	74.6	*	214	89.2
40-44	730	39.8	948	434.6	*	251	13.6	178	73.2	*	172	80.0
45-49	765	38.5	925	427.0	*	220	10.9	189	76.6	*	128	68.0
50-54	610	30.3	677	343.7	*	171	8.3	127	54.6	*	111	77.6
55-59	339	18.6	388	243.7	*	91	4.8	52	26.5	*	43	39.7
60-64	206	13.4	160	132.7	*	58	3.5	29	18.4	*	18	23.5
65-69	116	10.1	70	86.6	*	45	3.4	11	9.7	*	18	34.5
70-74	70	7.8	48	78.1	*	48	4.3	12	12.8	*	4	NSR
75-79	51	7.3	28	62.6	*	47	4.8	10	12.9	*	2	NSR
80-84	32	6.1	6	NSR		35	4.2	10	16.5	*	4	NSR
85 +	48	11.3	31	120.4	*	64	6.8	14	21.9	*	7	NSR

* 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 AVERAGE ANNUAL HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2007-2011

AGE	NORTHWEST			NORTH CENTRAL			NORTHEAST			SOUTHEAST			SOUTH CENTRAL			SOUTHWEST		
GROUP	No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate	
TOTAL	**1,009**	**21.8**		**439**	**12.7**		**2,087**	**26.4**		**16,599**	**66.0**		**1,251**	**15.1**		**5,016**	**37.1**	
< 5	34	13.4	+	10	5.6		22	5.1	-	126	7.9		16	3.2	-	67	9.5	+
5-9	5	NSR		3	NSR		7	NSR		58	3.6	+	3	NSR		20	2.7	
10-14	12	4.1	-	5	NSR		29	5.8	-	236	14.2	+	12	2.3	-	75	9.4	
15-19	105	30.5	-	41	13.5	-	232	40.4	-	1,980	107.0	+	125	21.8	-	657	70.6	
20-24	155	49.4	-	66	18.0	-	381	71.6	-	3,005	167.0	+	190	36.2	-	956	107.1	
25-29	113	43.5	-	60	32.2	-	298	66.5	-	2,328	141.8	+	185	37.6	-	658	84.7	-
30-34	122	46.7	-	55	29.3	-	213	47.6	-	1,773	113.3	+	135	27.4	-	463	60.4	-
35-39	103	37.2	-	50	25.3	-	207	42.6	-	1,446	89.8	+	125	23.7	-	389	48.1	-
40-44	90	29.2	-	45	20.6	-	190	34.5	-	1,522	86.5	+	120	20.6	-	487	53.3	
45-49	90	26.9	-	35	14.9	-	183	30.9	-	1,544	83.5	+	120	19.4	-	421	41.8	-
50-54	79	22.8	-	20	8.4	-	135	22.8	-	1,153	63.9	+	80	13.1	-	342	32.5	-
55-59	40	12.5	-	15	6.8	-	64	11.9	-	596	37.6	+	65	11.6	-	195	20.1	
60-64	18	6.6	-	9	NSR		43	9.1	-	300	22.8	+	22	4.6	-	107	13.0	
65-69	14	6.5	-	9	NSR		29	7.9	-	156	15.9	+	25	6.7	-	55	8.9	-
70-74	8	4.5		6	NSR		17	5.9	-	121	15.4	+	7	NSR		39	7.5	-
75-79	9	NSR		5	NSR		12	5.1	-	80	12.2	+	10	4.2	-	34	7.6	
80-84	6	NSR		2	NSR		11	5.8		48	9.2	+	7	NSR		22	5.9	
85 +	6	NSR		3	NSR		14	7.4	-	127	23.5	+	4	NSR		29	7.6	-

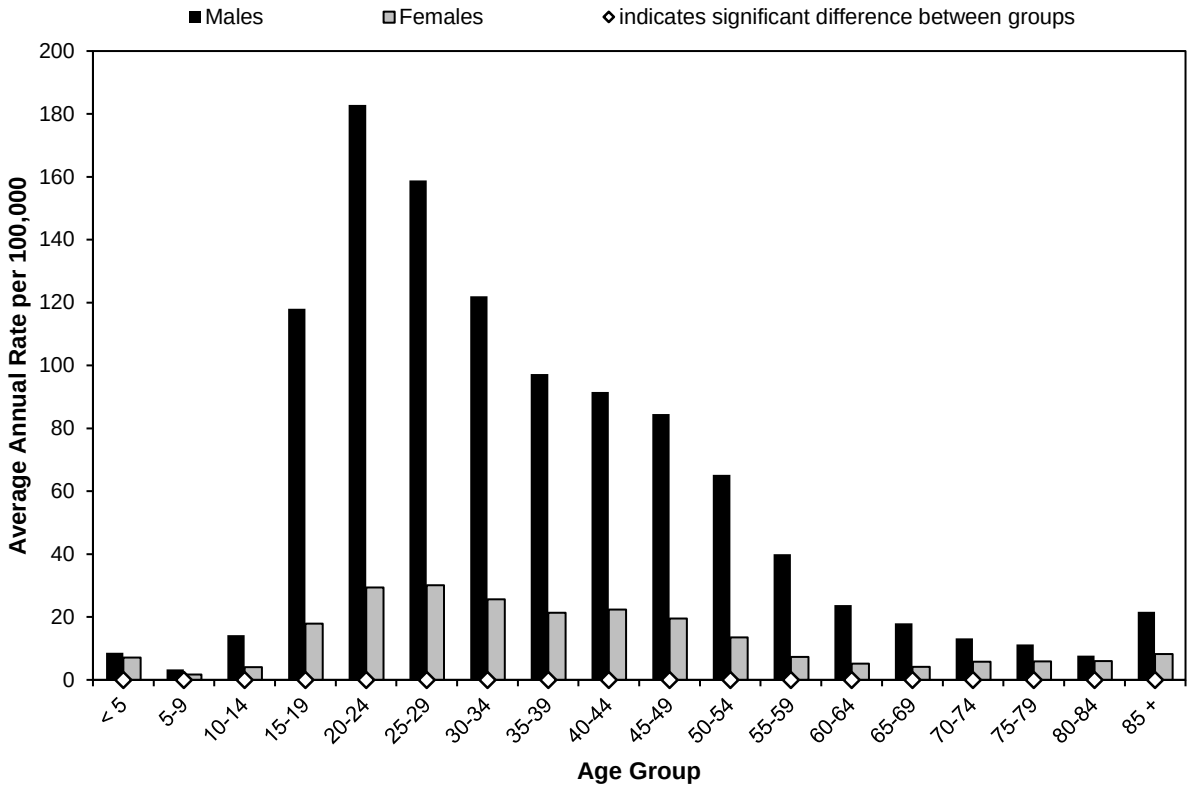
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

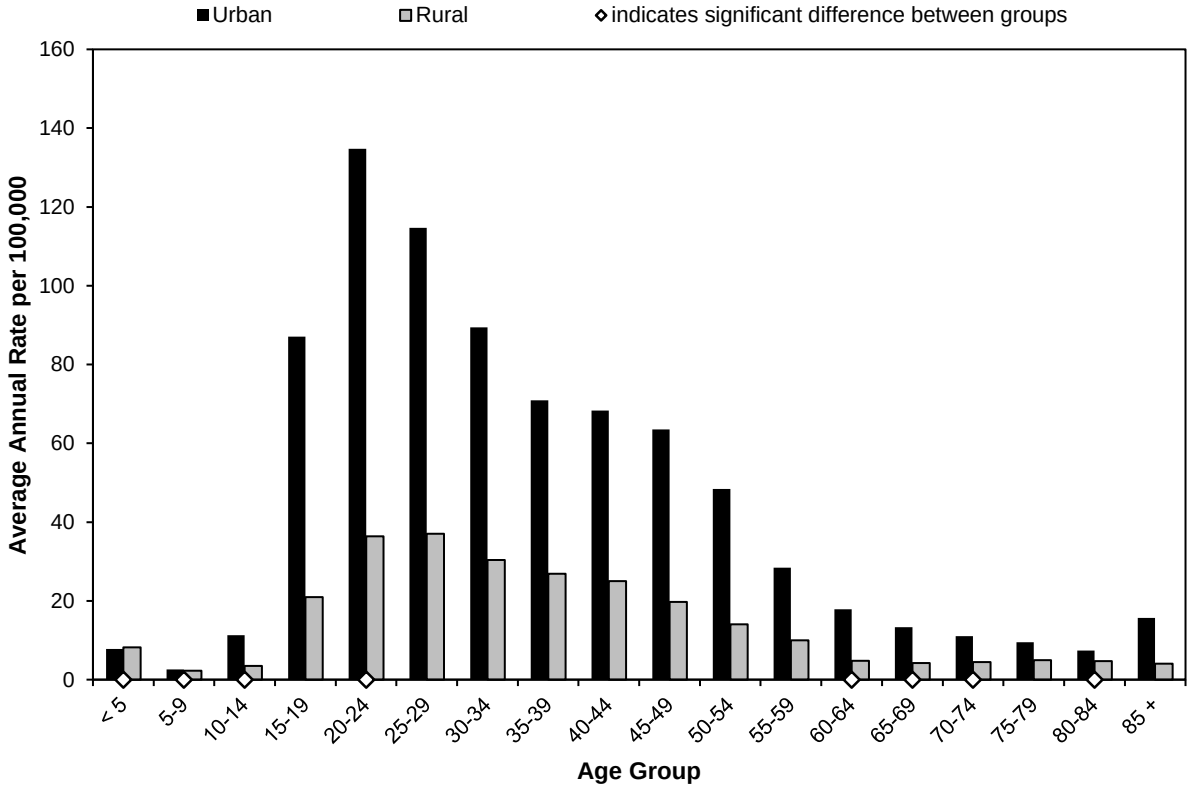
NOTES: Rates are per 100,000 population in the specified group. Rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Missing or unknown ages are included in the total.

INJURY HOSPITALIZATIONS: ALL ASSAULT

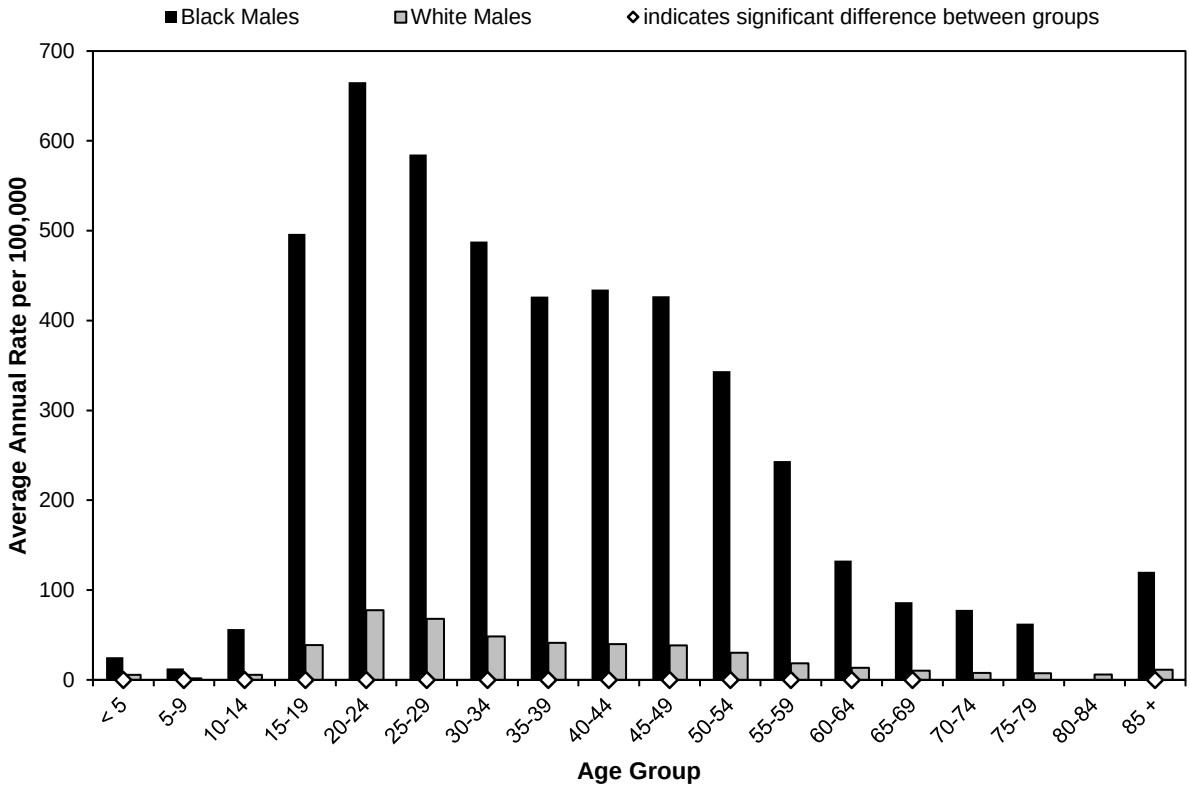
AVERAGE ANNUAL HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2007-2011

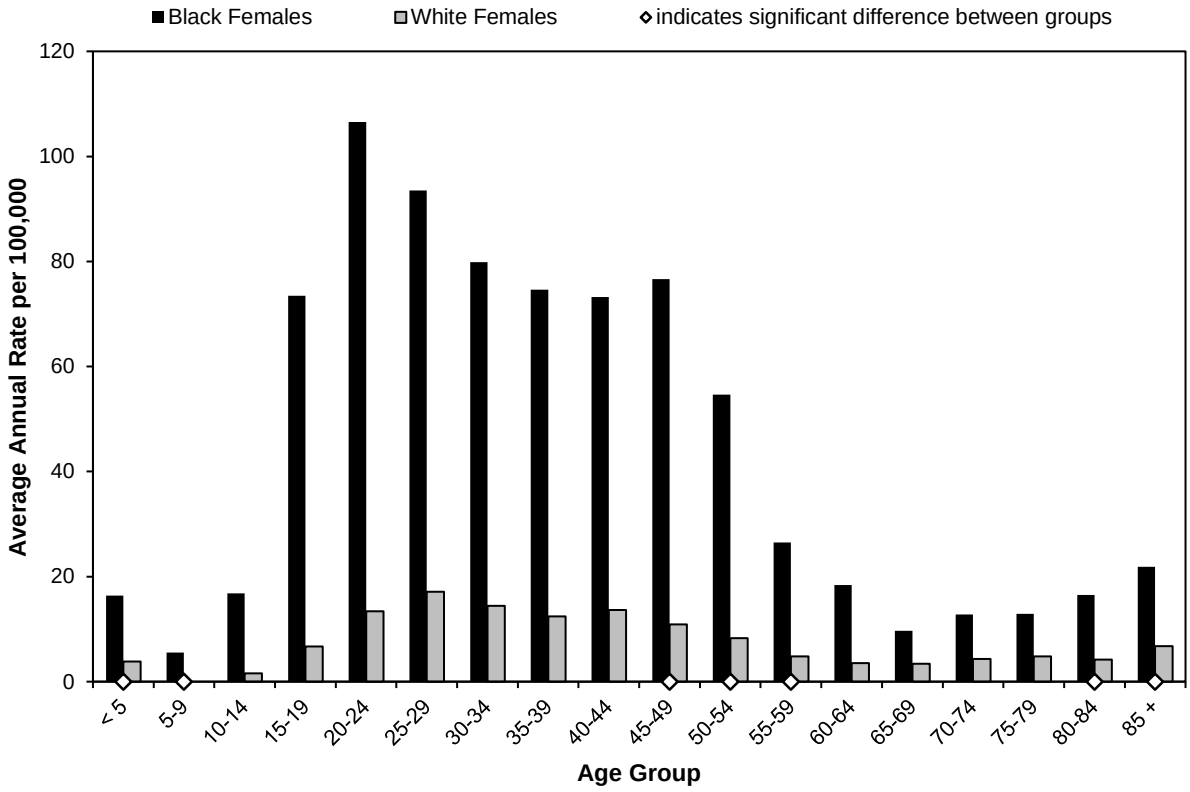




INJURY HOSPITALIZATIONS: ALL ASSAULT

AVERAGE ANNUAL HOSPITALIZATION RATES BY SEX AND RACE
PENNSYLVANIA RESIDENTS, 2007-2011





INJURY HOSPITALIZATIONS: ALL ASSAULT

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2007-2011

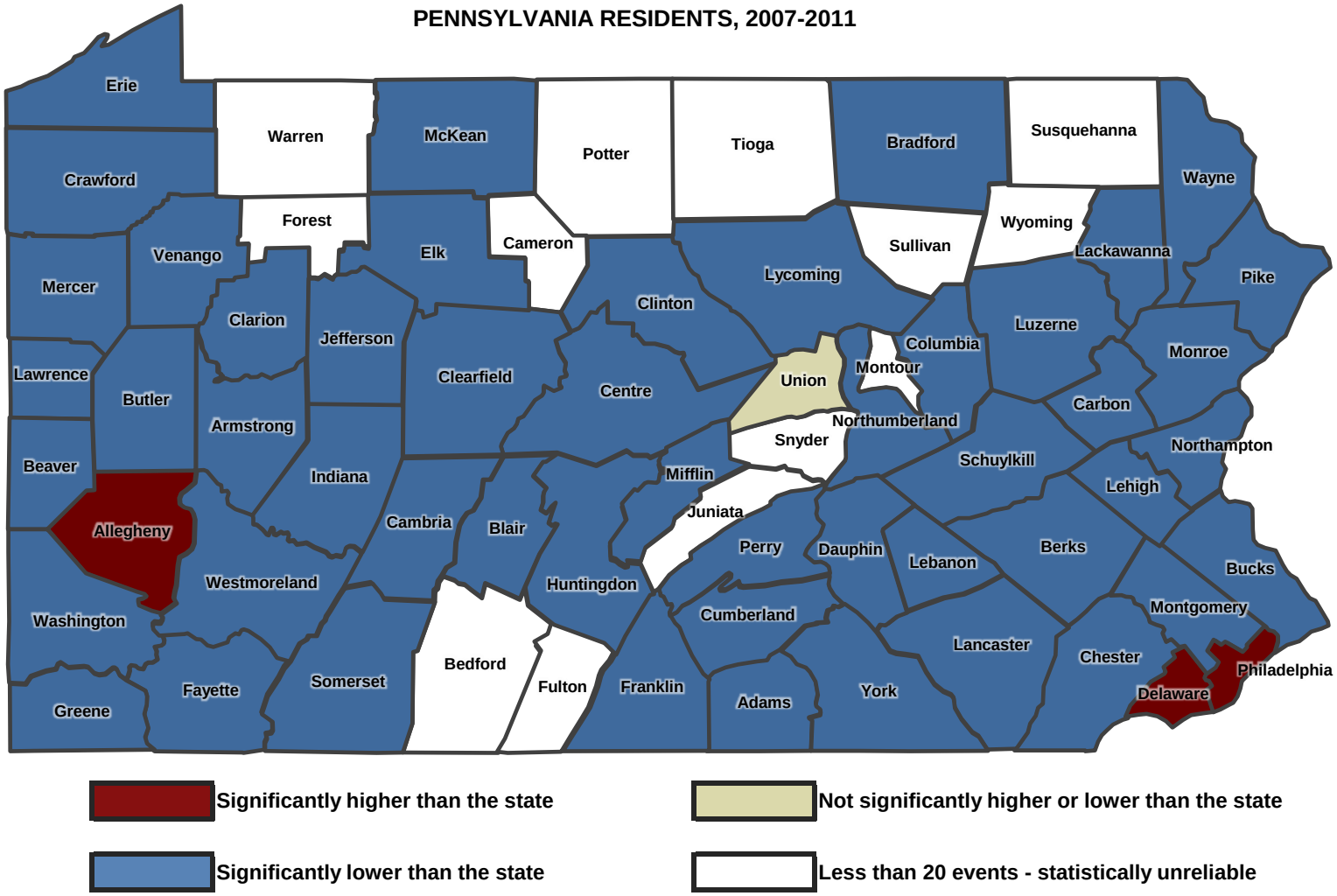
District/County	No.	Rate	CI (95%)	
Northeast	2,087	27.9	26.7-29.1	-
Carbon	76	24.9	19.3-30.5	-
Lackawanna	213	21.4	18.5-24.3	-
Lehigh	607	37.1	34.1-40.0	-
Luzerne	409	27.9	25.2-30.6	-
Monroe	162	19.3	16.3-22.3	-
Northampton	517	36.0	32.9-39.1	-
Pike	24	8.7	5.2-12.2	-
Susquehanna	16	NSR		
Wayne	52	22.9	16.7-29.1	-
Wyoming	11	NSR		
North Central	439	13.4	12.2-14.7	-
Bradford	31	11.3	7.3-15.3	-
Centre	61	8.7	6.5-10.9	-
Clinton	23	13.4	7.9-18.9	-
Columbia	54	16.9	12.4-21.4	-
Lycoming	94	16.5	13.2-19.8	-
Montour	13	NSR		
Northumberland	49	12.5	9.0-16.0	-
Potter	3	NSR		
Snyder	19	NSR		
Sullivan	2	NSR		
Tioga	8	NSR		
Union	82	38.1	29.9-46.4	
Northwest	1,009	23.3	21.9-24.7	-
Cameron	4	NSR		
Clarion	28	17.3	10.9-23.8	-
Clearfield	58	14.9	11.0-18.7	-
Crawford	52	12.6	9.2-16.0	-
Elk	21	15.5	8.9-22.1	-
Erie	457	33.6	30.5-36.7	-
Forest	4	NSR		
Jefferson	34	16.7	11.1-22.4	-
Lawrence	127	31.1	25.7-36.5	-
McKean	31	15.3	9.9-20.7	-
Mercer	120	21.9	18.0-25.8	-
Venango	60	25.7	19.2-32.1	-
Warren	13	NSR		

District/County	No.	Rate	CI (95%)	
Southeast	16,599	66.8	65.8-67.8	+
Berks	613	31.7	29.2-34.2	-
Bucks	546	19.1	17.5-20.8	-
Chester	339	14.2	12.7-15.7	-
Delaware	1,882	68.6	65.5-71.7	+
Lancaster	427	17.6	15.9-19.3	-
Montgomery	869	23.2	21.6-24.7	-
Philadelphia	11,804	152.4	149.7-155.2	+
Schuylkill	119	17.8	14.6-21.0	-
South Central	1,251	15.9	15.0-16.7	-
Adams	31	6.5	4.2-8.9	-
Bedford	17	NSR		
Blair	126	21.5	17.7-25.2	-
Cumberland	109	9.1	7.4-10.8	-
Dauphin	348	28.0	25.1-31.0	-
Franklin	68	9.8	7.5-12.2	-
Fulton	7	NSR		
Huntingdon	28	12.4	7.8-17.0	-
Juniata	10	NSR		
Lebanon	53	8.3	6.1-10.6	-
Mifflin	25	12.5	7.6-17.3	-
Perry	22	10.3	6.0-14.6	-
York	407	19.8	17.8-21.7	-
Southwest	5,016	39.3	38.2-40.3	-
Allegheny	3,337	56.4	54.5-58.3	+
Armstrong	58	19.8	14.7-24.9	-
Beaver	271	34.5	30.4-38.6	-
Butler	133	15.3	12.7-17.9	-
Cambria	201	30.4	26.2-34.6	-
Fayette	189	30.0	25.7-34.3	-
Greene	20	10.1	5.7-14.5	-
Indiana	74	18.2	14.1-22.4	-
Somerset	59	16.7	12.5-21.0	-
Washington	269	28.7	25.3-32.2	-
Westmoreland	405	24.7	22.3-27.1	-
Pennsylvania	26,401	43.4	42.8-43.9	

NOTE: Rates based on less than 20 events are unreliable and were not calculated. See Technical Notes.
+/- denotes that the county's rate is significantly higher or lower than the state at the p=.05 level.

INJURY HOSPITALIZATIONS: ALL ASSAULT

AGE-ADJUSTED HOSPITALIZATION RATES BY COUNTY, WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE PENNSYLVANIA RESIDENTS, 2007-2011



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 AVERAGE ANNUAL HOSPITALIZATION RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2007-2011

Geography	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	21,793	4,594	**26,387**	4,658	29.3	10,880	90.2	6,954	54.8	3,085	24.2	824	8.4
Northeast	1,702	383	**2,085**	530	27.1	819	57.5	506	31.3	173	10.5	59	4.6
Carbon	54	22	76	22	30.7	24	43.4	18	26.9	8	NSR	4	NSR
Lackawanna	180	33	213	63	25.1	69	34.6	56	27.4	20	9.2	5	NSR
Lehigh	499	108	607	194	42.7	227	69.5	135	38.1	38	11.1	13	4.9
Luzerne	330	78	408	56	15.5	167	57.9	130	40.5	40	12.2	16	5.6
Monroe	124	37	161	89	39.2	36	24.7	31	17.1	6	NSR	0	NSR
Northampton	429	88	517	66	17.3	256	94.6	115	37.8	59	19.5	21	9.1
Pike	19	5	24	9	NSR	13	30.8	2	NSR	0	NSR	0	NSR
Susquehanna	11	5	16	6	NSR	5	NSR	5	NSR	0	NSR	0	NSR
Wayne	49	3	52	15	27.4	21	52.1	14	26.5	2	NSR	0	NSR
Wyoming	7	4	11	10	28.0	1	NSR	0	NSR	0	NSR	0	NSR
Southeast	13,951	2,644	**16,595**	2,400	35.8	7,106	139.7	4,512	87.5	2,050	42.2	531	15.0
Berks	494	119	613	80	14.3	281	75.0	166	39.5	63	15.9	23	7.7
Bucks	430	116	546	76	9.7	245	48.0	127	18.4	68	10.0	30	6.5
Chester	281	58	339	49	7.1	140	31.9	98	18.0	38	7.6	14	4.3
Delaware	1,572	310	1,882	303	40.7	834	154.9	478	85.6	217	39.5	50	12.5
Lancaster	341	86	427	70	9.7	199	40.8	104	20.9	38	7.8	16	4.1
Montgomery	699	169	868	99	9.9	362	51.3	246	28.7	117	14.6	45	7.4
Philadelphia	10,041	1,763	11,804	1,705	83.3	5,004	263.3	3,249	226.7	1,497	116.5	349	37.2
Schuylkill	93	23	116	18	11.2	41	31.8	44	27.8	12	7.8	4	NSR

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	21,793	4,594	**26,387**	4,658	29.3	10,880	90.2	6,954	54.8	3,085	24.2	824	8.4
North Central	342	89	**431**	170	20.0	163	21.7	77	11.9	23	3.4	6	NSR
Bradford	23	8	31	16	20.6	11	22.2	3	NSR	1	NSR	0	NSR
Centre	43	17	60	21	11.3	21	8.6	13	10.6	4	NSR	2	NSR
Clinton	18	5	23	12	24.0	10	25.7	1	NSR	0	NSR	0	NSR
Columbia	44	8	52	20	24.1	16	22.8	8	NSR	8	NSR	2	NSR
Lycoming	68	25	93	44	31.3	26	23.2	17	15.0	5	NSR	2	NSR
Montour	10	3	13	7	NSR	5	NSR	1	5.8	0	NSR	0	NSR
Northumberland	36	11	47	12	11.3	19	24.1	14	14.9	4	NSR	0	NSR
Potter	1	2	3	3	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Snyder	15	4	19	8	NSR	6	NSR	5	NSR	0	NSR	0	NSR
Sullivan	1	1	2	2	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Tioga	5	3	8	5	NSR	3	NSR	0	NSR	0	NSR	0	NSR
Union	78	2	80	20	39.3	46	90.8	15	31.4	1	NSR	0	NSR
South Central	996	255	**1,251**	312	14.8	455	30.1	319	18.6	129	7.6	36	2.8
Adams	27	4	31	11	8.5	12	13.5	7	NSR	1	NSR	0	NSR
Bedford	16	1	17	10	16.9	6	NSR	1	NSR	0	NSR	0	NSR
Blair	100	26	126	47	30.7	39	34.8	32	26.3	5	NSR	3	NSR
Cumberland	86	23	109	59	20.6	23	9.8	19	8.1	7	NSR	1	NSR
Dauphin	280	68	348	60	17.7	142	57.3	95	34.8	44	15.8	7	NSR
Franklin	51	17	68	10	5.1	28	21.6	14	9.5	11	7.6	5	NSR
Fulton	5	2	7	5	NSR	2	16.3	0	NSR	0	NSR	0	NSR
Huntingdon	19	9	28	9	NSR	12	27.1	5	NSR	2	NSR	0	NSR
Juniata	7	3	10	8	NSR	2	NSR	0	NSR	0	NSR	0	NSR
Lebanon	45	8	53	20	12.0	15	12.5	10	7.7	8	NSR	0	NSR
Mifflin	15	10	25	8	NSR	12	32.0	4	NSR	1	NSR	0	NSR
Perry	19	3	22	14	23.7	6	NSR	2	NSR	0	NSR	0	NSR
York	326	81	407	51	9.1	156	40.5	130	27.7	50	11.3	20	6.5

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	21,793	4,594	**26,387**	4,658	29.3	10,880	90.2	6,954	54.8	3,085	24.2	824	8.4
Northwest	808	201	**1,009**	239	20.9	362	43.7	268	29.7	109	11.3	31	3.9
Cameron	4	0	4	4	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Clarion	19	9	28	9	NSR	14	34.5	5	NSR	0	NSR	0	NSR
Clearfield	48	10	58	21	23.6	15	20.8	12	13.5	5	NSR	5	NSR
Crawford	44	8	52	18	15.8	14	18.5	15	17.8	4	NSR	1	NSR
Elk	17	4	21	10	27.4	4	NSR	7	NSR	0	NSR	0	NSR
Erie	379	78	457	67	18.2	190	67.2	126	46.9	62	22.4	12	5.8
Forest	4	0	4	4	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Jefferson	28	6	34	12	22.3	10	26.7	8	NSR	3	NSR	1	NSR
Lawrence	94	33	127	35	32.0	43	58.4	38	43.9	7	NSR	4	NSR
McKean	28	3	31	13	24.7	13	33.7	5	NSR	0	NSR	0	NSR
Mercer	85	35	120	15	10.4	42	43.1	31	28.0	24	19.8	8	NSR
Venango	49	11	60	25	38.2	14	32.5	17	32.6	4	NSR	0	NSR
Warren	9	4	13	6	NSR	3	NSR	4	NSR	0	NSR	0	NSR
Southwest	3,994	1,022	**5,016**	1,007	32.2	1,975	80.2	1,272	47.7	601	20.6	161	6.8
Allegheny	2,711	626	3,337	581	41.1	1,401	116.0	818	69.1	423	33.0	114	11.1
Armstrong	33	25	58	23	28.8	19	36.1	9	NSR	7	NSR	0	NSR
Beaver	208	63	271	41	21.0	100	70.7	76	45.1	44	23.0	10	6.3
Butler	102	31	133	27	11.4	51	32.8	32	16.5	19	9.8	4	NSR
Cambria	147	54	201	26	16.0	69	55.5	67	48.5	27	17.2	12	8.9
Fayette	155	34	189	63	40.0	64	55.0	45	31.9	11	7.1	6	NSR
Greene	17	3	20	9	NSR	8	NSR	3	NSR	0	NSR	0	NSR
Indiana	55	19	74	15	13.4	29	30.3	20	26.3	7	NSR	3	NSR
Somerset	49	10	59	11	13.4	23	34.7	14	17.5	10	11.8	1	NSR
Washington	211	58	269	85	34.9	89	50.2	75	36.4	18	7.9	2	NSR
Westmoreland	306	99	405	126	31.2	122	42.5	113	30.8	35	8.4	9	NSR

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, 2007-2011

BLACK POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	1,778	210.0	200.2-219.7
Chester	95	59.9	47.8-71.9
Dauphin	186	78.4	67.1-89.6
Delaware	1,034	177.6	166.8-188.4
Montgomery	263	72.4	63.6-81.1
Philadelphia	7,857	229.9	224.8-235.0
Pennsylvania	12,470	175.0	171.9-178.0

WHITE POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	1,370	28.3	26.8-29.8
Chester	198	9.4	8.1-10.7
Dauphin	98	10.3	8.3-12.3
Delaware	730	37.1	34.4-39.8
Montgomery	436	14.0	12.7-15.3
Philadelphia	1,917	53.8	51.4-56.2
Pennsylvania	9,932	19.4	19.0-19.8

HISPANIC POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Berks	157	50.8	42.8-58.7
Lancaster	33	14.9	9.8-20.0
Lehigh	140	45.0	37.5-52.5
Philadelphia	1,209	132	124.5-139.3
Pennsylvania	2,010	60.1	57.5-62.8

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL HOSPITALIZATION RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

Select Counties		Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+	
County and Race		Cty. Pop.	Male	Female	All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Allegheny	Black	13.4%	1,492	286	**1,778**	53.3%	397	147.0	792	456.2	373	246.2	190	141.2	26	29.0
	White	82.4%	1,059	311	**1,370**	41.1%	157	14.6	515	55.6	406	39.9	212	19.4	80	8.7
Chester	Black	6.2%	82	13	**95**	28.0%	18	36.2	37	105.2	33	111.2	6	NSR	1	NSR
	White	88.3%	159	39	**198**	58.4%	24	4.1	83	22.0	50	10.3	30	6.8	11	3.8
Dauphin	Black	18.1%	152	34	**186**	53.4%	38	46.9	79	164.3	44	90.5	21	54.2	4	NSR
	White	75.8%	71	27	**98**	28.2%	8	3.6	35	19.9	34	15.9	18	8.1	3	NSR
Delaware	Black	19.2%	877	157	**1,034**	54.9%	202	112.5	478	371.5	241	217.4	99	130.6	14	34.6
	White	74.4%	593	137	**730**	38.8%	86	17.0	304	82.6	208	49.8	101	23.2	31	9.0
Montgomery	Black	8.8%	226	37	**263**	30.3%	34	33.7	108	142.9	78	97.5	38	65.2	5	NSR
	White	83.2%	336	100	**436**	50.2%	49	6.1	163	29.3	125	17.6	68	10.1	31	5.8
Philadelphia	Black	45.1%	6,689	1,168	**7,857**	66.6%	1,262	118.2	3,258	437.2	2,191	334.1	967	174.7	179	49.5
	White	45.3%	1,576	341	**1,917**	16.2%	136	17.9	779	89.7	544	84.3	346	57.7	112	21.1
Pennsylvania	Black	10.9%	10,592	1,875	**12,467**	47.2%	2,175	98.5	5,309	339.9	3,313	242.5	1,433	134.8	240	36.8
	White	84.5%	7,776	2,148	**9,924**	37.6%	1,130	8.9	3,933	40.6	2,838	26.0	1,475	13.4	556	6.3

INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

In 2011, among Pennsylvania residents, there were 17,166 injury hospitalizations involving traumatic brain injury (TBI). On average, one resident was hospitalized every 31 minutes.

Injury Definition

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

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

Leading causes of TBI include motor vehicle accidents and falls. These mechanisms account for over 75 percent of all TBI hospitalizations in Pa.

HIGHLIGHTS

- Age-adjusted rates **decreased** from 2007 to 2011.
- Most common demographic is white females, **80 and older**.
- Of all Pennsylvania counties, **Northampton, Delaware and Carbon** had the highest rates.

Trends Over Time

- Age-adjusted hospitalization rates for TBI decreased by 11 percent from 134.4 hospitalizations per 100,000 population in 2007 to 119.1 hospitalizations per 100,000 population in 2011.
- Males had higher age-adjusted TBI hospitalization rates than females during 2007 to 2011 (2011 rates were 156.6 and 83.5 for males and females, respectively). Males had the highest age-adjusted TBI hospitalization rates during 2007 to 2011.
- Black males had higher age-adjusted TBI hospitalization rates than white males during 2007 to 2011 (2011 TBI age-adjusted rates per 100,000 population were 200.3 for black males and 137.8 for white males, respectively). Black males had the highest TBI hospitalization age-adjusted rates during 2007 to 2011.

Demographic Trends

- Males had significantly higher TBI hospitalization rates than females for all age groups.
- Black males had significantly higher TBI hospitalization rates for ages less than 75, while white males had significantly higher rates for ages 80 and older.
- Black females, ages 0 to 14 and 25 to 64, had higher TBI rates compared with white females.

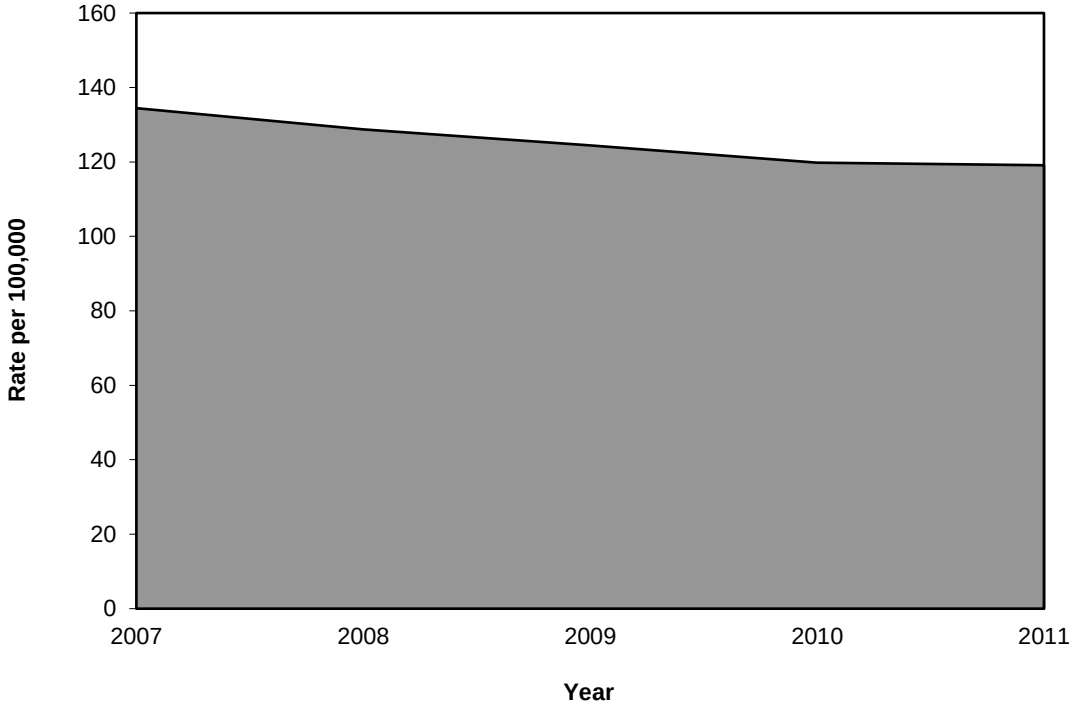
Regional Trends

- The Northeast Health District had the highest age-adjusted TBI hospitalization rate, while the South Central and North Central Health Districts had the lowest rates.
- Nineteen counties had age-adjusted TBI hospitalization rates during 2007 - 2011 that were significantly higher than the comparable state rate. These are mainly rural counties and are located in all health districts **except** the North Central Health District.

INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND
AGE-ADJUSTED HOSPITALIZATION RATES
PENNSYLVANIA RESIDENTS, 2007-2011

Year	No.	Rate
2007	17,900	134.4
2008	17,579	128.8
2009	17,544	124.5
2010	17,034	119.8
2011	17,166	119.1



AGE-ADJUSTED RATE BY HEALTH DISTRICT, 2007-2011

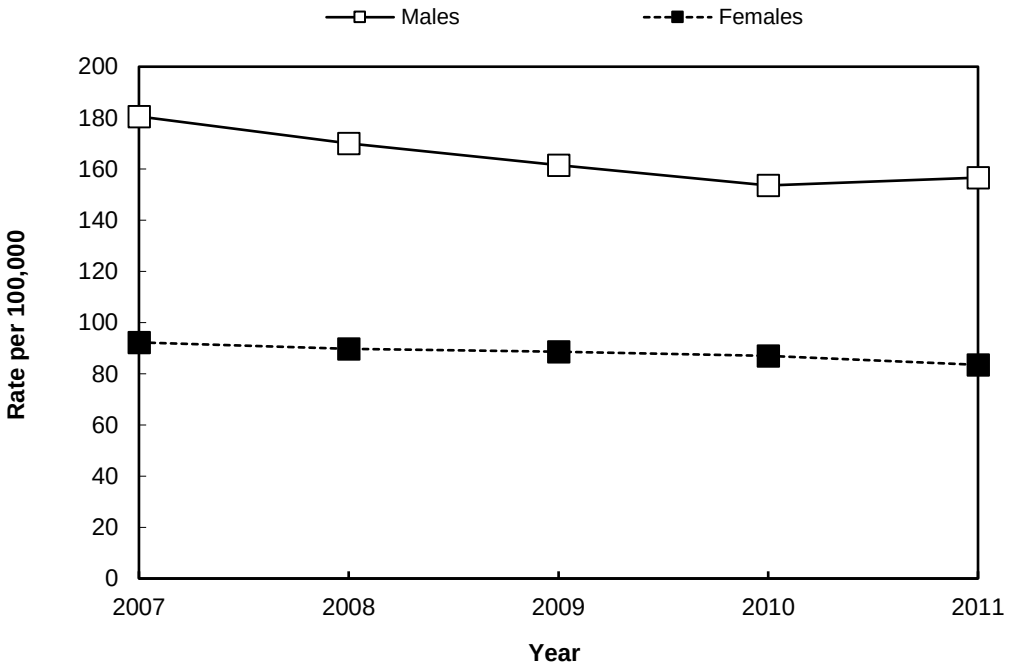
Year	Northwest	North Central	Northeast	Southeast	South Central	Southwest
2007	127.7	96.7	146.8	137.9	104.1	151.3
2008	133.7	87.3	146.9	129.0	94.6	146.1
2009	119.2	88.6	148.2	128.3	92.6	132.5
2010	116.9	89.3	134.5	122.1	91.7	133.0
2011	115.2	97.9	129.3	124.6	93.3	125.8

NOTES: Age-adjusted rates are computed by the direct method using the 2000 standard million population.
Rates are per 100,000. Data for 2007-2011 based on ICD-9 codes. See Technical Notes.

INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND
AGE-ADJUSTED HOSPITALIZATION RATES BY SEX
PENNSYLVANIA RESIDENTS, 2007-2011

Year	Male No.	Male Rate	Year	Female No.	Female Rate
2007	10,834	180.6	2007	7,057	92.3
2008	10,431	170.0	2008	7,129	89.8
2009	10,150	161.5	2009	7,358	88.6
2010	9,765	153.6	2010	7,249	87.0
2011	10,085	156.6	2011	7,048	83.5



AGE-ADJUSTED RATE BY SEX AND METROPOLITAN STATUS, 2007-2011

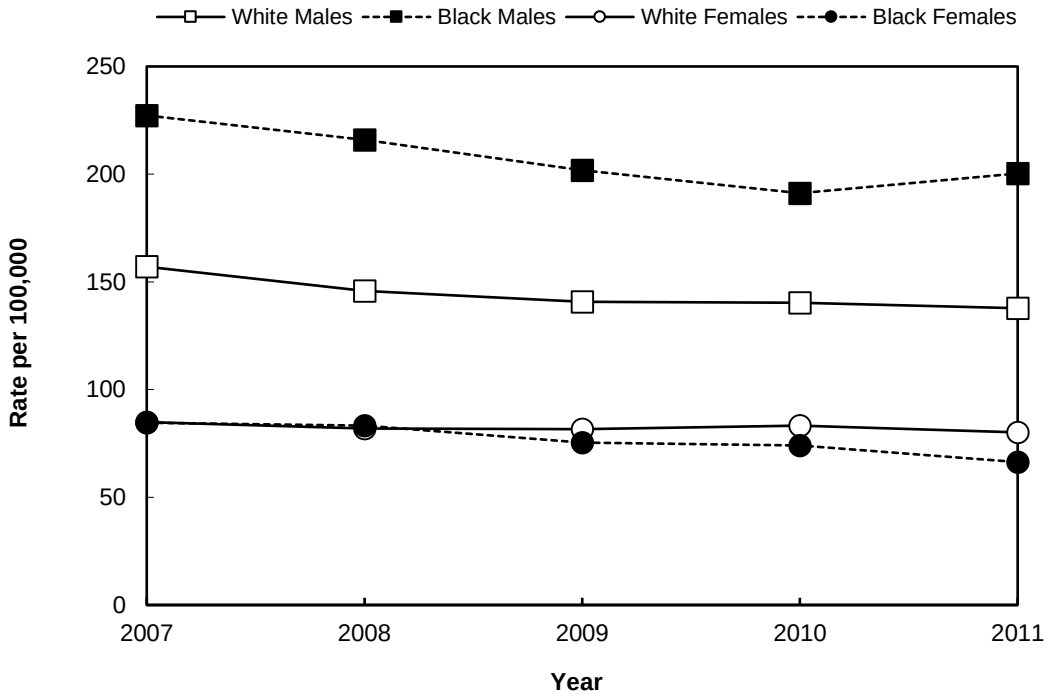
Year	Urban Male	Rural Male	Year	Urban Female	Rural Female
2007	187.0	165.1	2007	92.7	91.5
2008	175.7	156.2	2008	91.7	84.9
2009	166.6	148.6	2009	89.6	86.5
2010	159.1	140.7	2010	87.2	87.0
2011	163.6	139.8	2011	83.7	83.2

NOTES: Definitions of urban and rural, at the county level, are taken from the Center for Rural Pennsylvania. Pennsylvania has 19 urban counties using this definition. See Technical Notes.

INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AGE-ADJUSTED HOSPITALIZATION RATES BY SEX AND RACE OR ETHNICITY PENNSYLVANIA RESIDENTS, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	8,223	1,329	5,825	579	369	157
2008	7,832	1,283	5,859	577	418	156
2009	7,772	1,219	6,105	547	424	213
2010	7,572	1,164	6,089	542	357	175
2011	7,740	1,282	6,019	492	321	115



AGE-ADJUSTED RATE BY SEX AND RACE OR ETHNICITY, 2007-2011

Year	White Male	Black Male	White Female	Black Female	Hispanic Male	Hispanic Female
2007	157.0	227.2	84.9	84.6	164.8	80.6
2008	145.8	215.9	82.0	83.2	176.1	76.5
2009	140.8	201.8	81.6	75.4	165.3	96.6
2010	140.3	191.2	83.3	74.0	141.5	73.1
2011	137.8	200.3	80.1	66.3	118.0	51.8

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 AVERAGE ANNUAL HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX OR METROPOLITAN STATUS, 2007-2011

AGE	PA TOTAL		MALE		FEMALE			URBAN		RURAL		
GROUP	No.	Rate	No.	Rate	No.	Rate		No.	Rate	No.	Rate	
TOTAL	**87,223**	**138.6**	**51,265**	**167.4**	**35,841**	**110.9**		**64,368**	**140.8**	**22,855**	**132.7**	
< 5	1,499	40.8	913	48.6	578	32.2	*	1,142	41.5	357	39.0	
5-9	1,259	33.3	799	41.4	458	24.8	*	914	32.6	345	35.4	
10-14	1,996	50.1	1,414	69.5	576	29.6	*	1,465	50.0	531	50.6	
15-19	5,424	118.5	3,814	164.6	1,599	70.7	*	3,846	116.4	1,578	123.8	*
20-24	6,121	138.2	4,530	201.7	1,582	72.5	*	4,515	141.4	1,606	130.0	*
25-29	4,373	114.9	3,227	166.9	1,144	61.1	*	3,252	113.2	1,121	120.1	
30-34	3,408	91.6	2,445	130.7	957	51.7	*	2,514	91.1	894	93.1	
35-39	3,410	87.3	2,429	124.8	978	49.8	*	2,440	85.1	970	93.1	*
40-44	4,059	93.7	2,871	133.7	1,181	54.0	*	2,968	93.8	1,091	93.4	
45-49	4,920	106.1	3,428	150.0	1,482	63.0	*	3,732	110.7	1,188	94.0	*
50-54	5,089	109.5	3,522	154.6	1,561	65.9	*	3,859	114.9	1,230	95.5	*
55-59	4,598	109.6	3,023	148.2	1,568	72.7	*	3,464	115.4	1,134	95.0	*
60-64	4,402	123.6	2,812	165.0	1,584	85.3	*	3,249	129.0	1,153	110.6	*
65-69	4,070	150.0	2,305	183.4	1,762	120.9	*	2,925	154.8	1,145	139.0	*
70-74	4,629	210.7	2,496	256.3	2,129	174.1	*	3,352	219.2	1,277	191.2	*
75-79	6,432	351.0	3,123	410.4	3,300	307.9	*	4,731	367.5	1,701	312.0	*
80-84	8,470	577.3	3,591	639.6	4,868	537.4	*	6,249	599.2	2,221	523.4	*
85 +	13,064	884.6	4,523	988.6	8,534	837.3	*	9,751	919.3	3,313	796.3	*

* 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 HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH AVERAGE ANNUAL HOSPITALIZATION RATES PENNSYLVANIA RESIDENTS, BY SEX AND RACE OR ETHNICITY, 2007-2011

AGE	WHITE MALE		BLACK MALE			WHITE FEMALE		BLACK FEMALE			HISPANICS	
GROUP	No.	Rate	No.	Rate		No.	Rate	No.	Rate		No.	Rate
TOTAL	**39,139**	**150.9**	**6,277**	**192.3**		**29,897**	**109.7**	**2,737**	**76.3**		**2,705**	**82.8**
< 5	558	38.0	157	59.6	*	372	26.6	97	37.8	*	139	37.8
5-9	487	31.8	182	69.9	*	309	21.2	76	30.1	*	70	21.2
10-14	1,020	62.5	218	78.2	*	410	26.4	79	29.5		103	33.6
15-19	2,753	147.5	577	180.3	*	1,247	68.4	177	57.3	*	221	68.4
20-24	3,227	178.1	648	212.8	*	1,165	66.4	176	58.4		292	98.5
25-29	2,225	141.6	509	204.4	*	836	55.6	174	69.3	*	230	84.7
30-34	1,657	107.9	376	169.7	*	677	45.2	142	60.7	*	227	89.0
35-39	1,691	104.0	395	187.1	*	724	44.7	119	51.6		172	71.7
40-44	2,054	112.1	432	198.1	*	895	48.5	164	67.5	*	180	83.7
45-49	2,425	122.1	603	278.3	*	1,152	57.1	184	74.6	*	192	102.0
50-54	2,549	126.7	566	287.3	*	1,225	59.5	183	78.7	*	192	134.2
55-59	2,299	126.0	432	271.3	*	1,254	66.1	167	85.1	*	118	108.9
60-64	2,237	145.3	311	258.0	*	1,331	80.7	129	81.9		107	139.8
65-69	1,859	162.1	228	282.0	*	1,489	113.6	125	110.3		86	164.7
70-74	2,075	232.7	194	315.6	*	1,831	165.6	128	136.5		92	256.2
75-79	2,728	388.0	152	339.9		2,910	297.5	139	179.5	*	80	315.5
80-84	3,234	618.3	133	434.4	*	4,364	523.3	176	290.1	*	83	505.1
85 +	4,061	954.0	164	637.0	*	7,706	816.4	302	471.5	*	121	778.9

* 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: TRAUMATIC BRAIN INJURY

TOTAL NUMBER OF INJURY HOSPITALIZATIONS BY AGE GROUP WITH AVERAGE ANNUAL HOSPITALIZATION RATES
PENNSYLVANIA RESIDENTS, BY HEALTH DISTRICT, 2007-2011

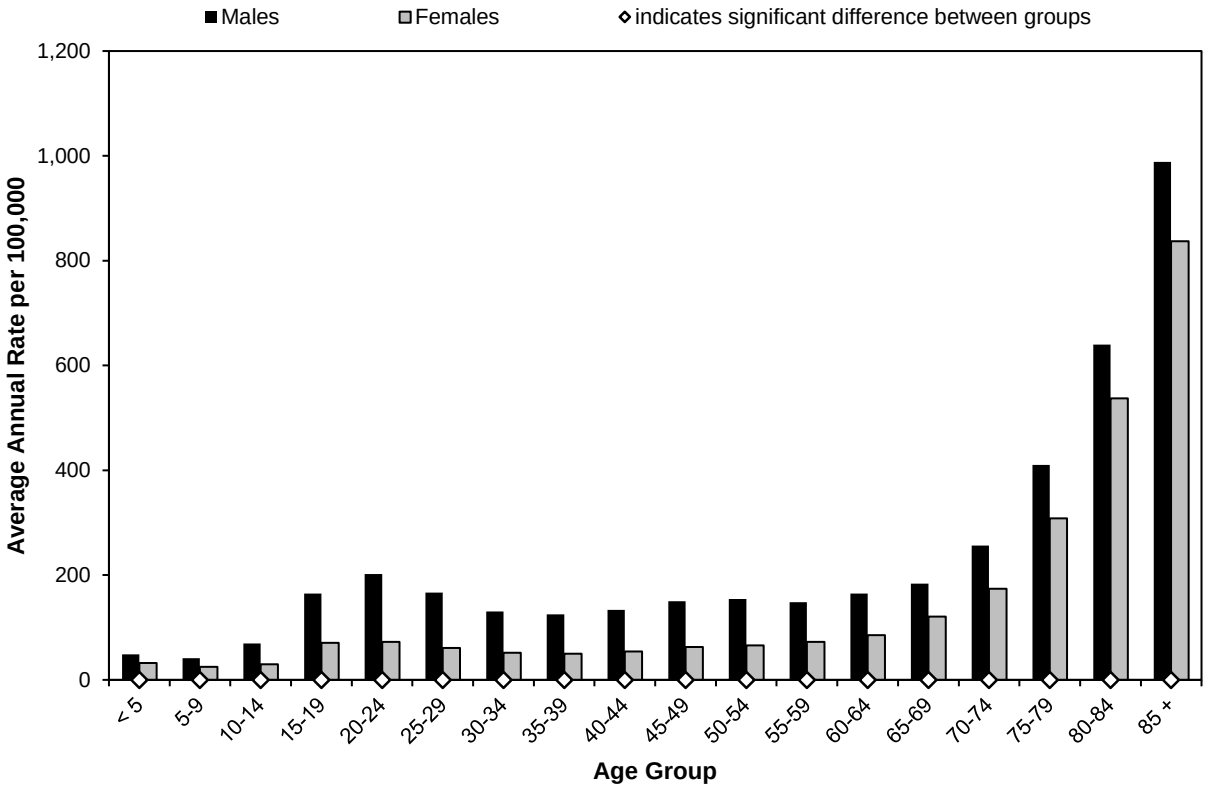
AGE	NORTHWEST			NORTH CENTRAL			NORTHEAST			SOUTHEAST			SOUTH CENTRAL			SOUTHWEST		
GROUP	No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate		No.	Rate	
TOTAL	**6,424**	**138.7**		**3,463**	**100.5**		**12,349**	**156.3**		**34,484**	**137.1**		**8,478**	**102.5**		**22,025**	**162.9**	
< 5	92	36.3	-	80	45.0	+	225	52.1	+	667	41.6		190	38.3		222	31.5	-
5-9	74	27.6	-	54	29.6		196	42.7	+	548	33.9		145	28.4		210	28.2	-
10-14	139	47.8		94	49.2		310	61.7	+	834	50.0		195	36.7	-	396	49.5	
15-19	385	111.7		260	85.3	-	844	147.1	+	2,171	117.3		625	109.1		1,138	122.3	
20-24	422	134.4		265	72.2	-	860	161.6	+	2,583	143.6		595	113.5	-	1,392	155.9	+
25-29	322	124.0		189	101.4		579	129.3	+	1,908	116.2		360	73.2	-	1,004	129.2	+
30-34	263	100.7		113	60.2	-	463	103.5	+	1,453	92.8		295	59.8	-	805	105.0	+
35-39	248	89.7		150	75.8		485	99.7	+	1,398	86.8		328	62.3	-	783	96.7	+
40-44	275	89.1		151	69.2	-	604	109.7	+	1,663	94.6		415	71.2	-	945	103.3	+
45-49	333	99.4		170	72.1	-	686	115.8	+	2,122	114.8	+	462	74.8	-	1,143	113.6	+
50-54	378	109.3		150	62.8	-	702	118.4		2,198	121.9	+	435	71.1	-	1,224	116.3	
55-59	348	108.9		165	74.7	-	590	109.5		1,911	120.5	+	392	69.7	-	1,192	123.1	+
60-64	311	113.2		165	85.5	-	626	131.9		1,760	133.8	+	415	85.9	-	1,119	136.4	+
65-69	323	149.5		180	115.3	-	577	157.4		1,574	160.0	+	410	109.2	-	1,014	164.6	+
70-74	382	213.3		200	156.8	-	658	227.1		1,699	216.2		500	168.2	-	1,211	234.0	+
75-79	528	354.6		254	245.6	-	957	402.8	+	2,272	345.7		615	255.6	-	1,808	406.6	+
80-84	636	538.1		343	431.2	-	1,197	633.0	+	2,955	564.2		880	486.9	-	2,518	669.8	+
85 +	965	832.5		480	617.8	-	1,790	951.5	+	4,768	884.1		1,221	694.6	-	3,901	1,026.8	+

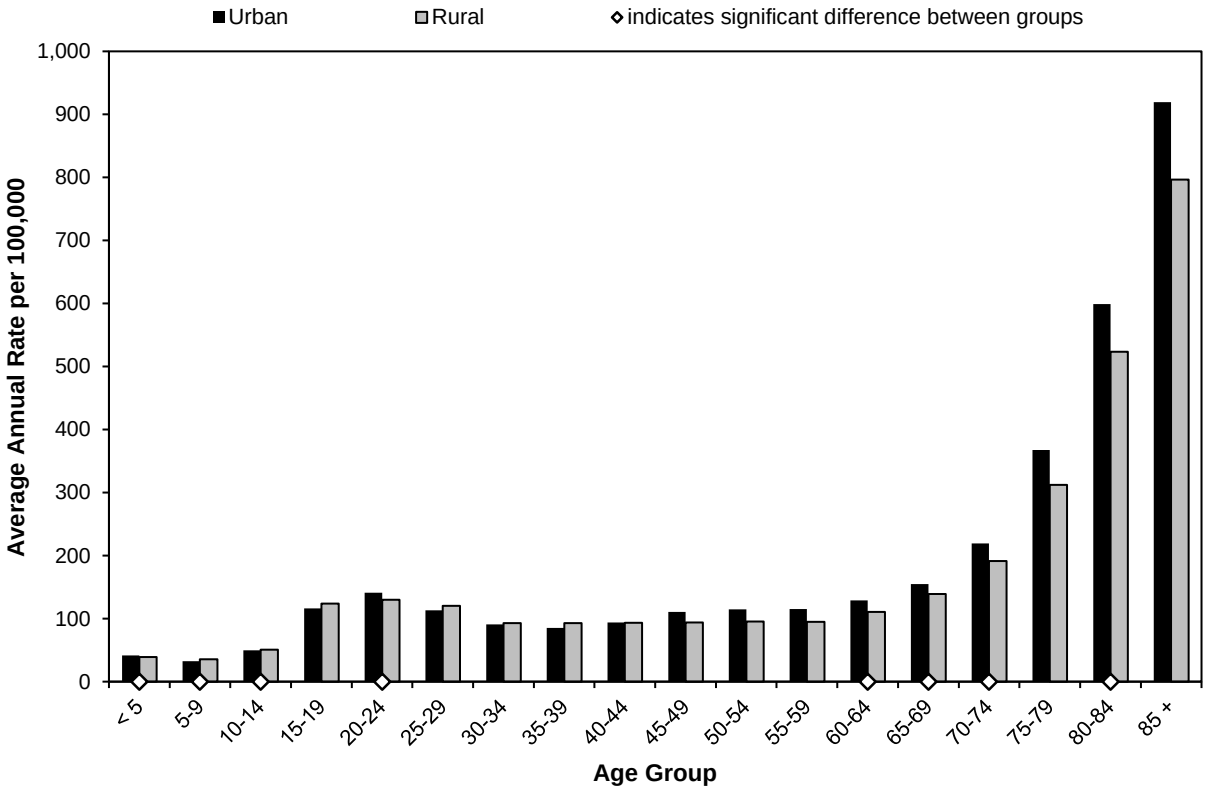
+/- denotes that the district's rate is significantly higher or lower than the state at the p = .05 level; otherwise the difference is not significant.

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 HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

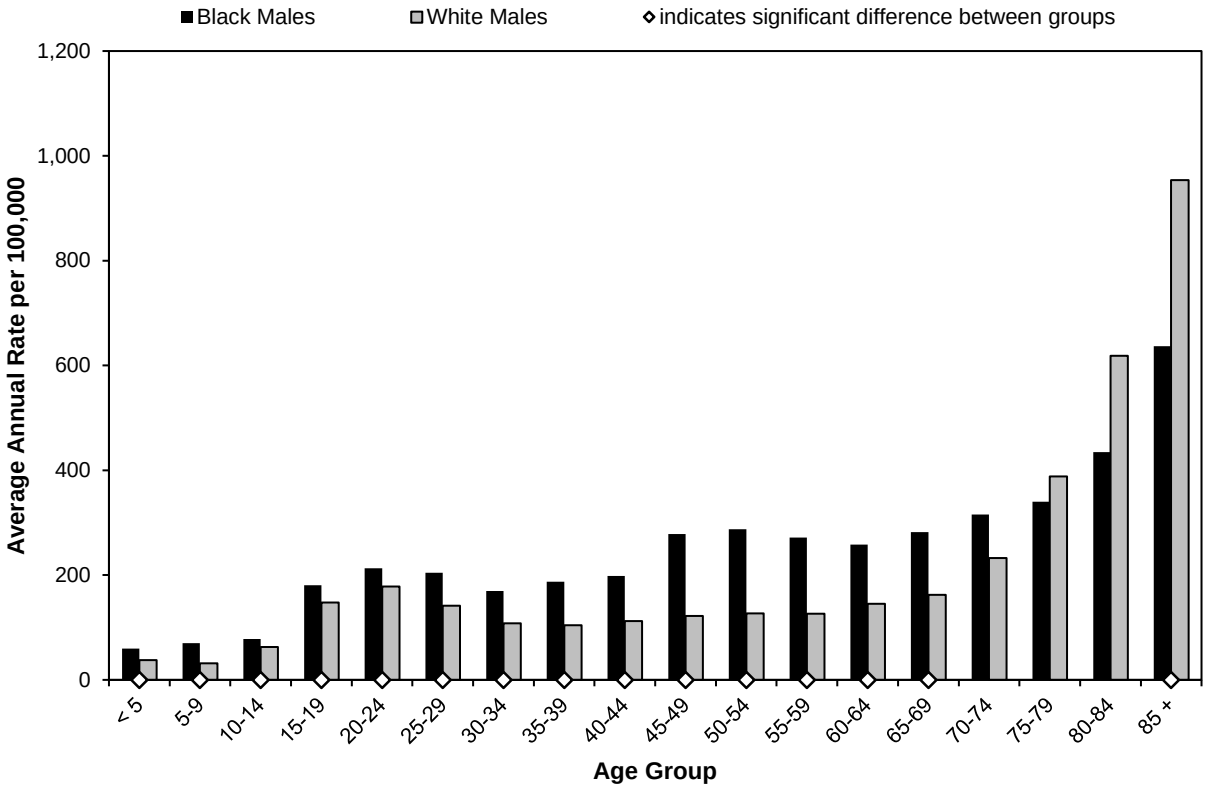
AVERAGE ANNUAL HOSPITALIZATION RATES BY SEX OR METROPOLITAN STATUS
PENNSYLVANIA RESIDENTS, 2007-2011

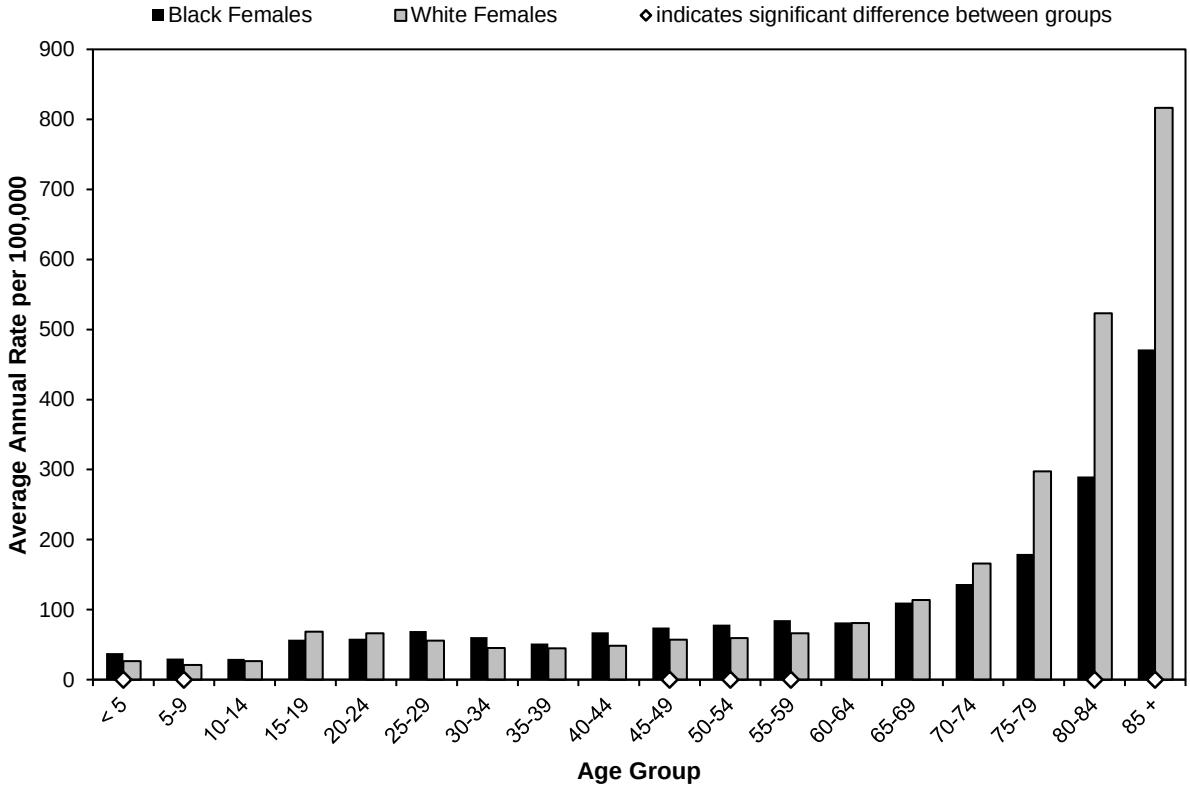




INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

AVERAGE ANNUAL HOSPITALIZATION RATES BY SEX AND RACE
PENNSYLVANIA RESIDENTS, 2007-2011





INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY HEALTH DISTRICT AND COUNTY, PENNSYLVANIA RESIDENTS, 2007-2011

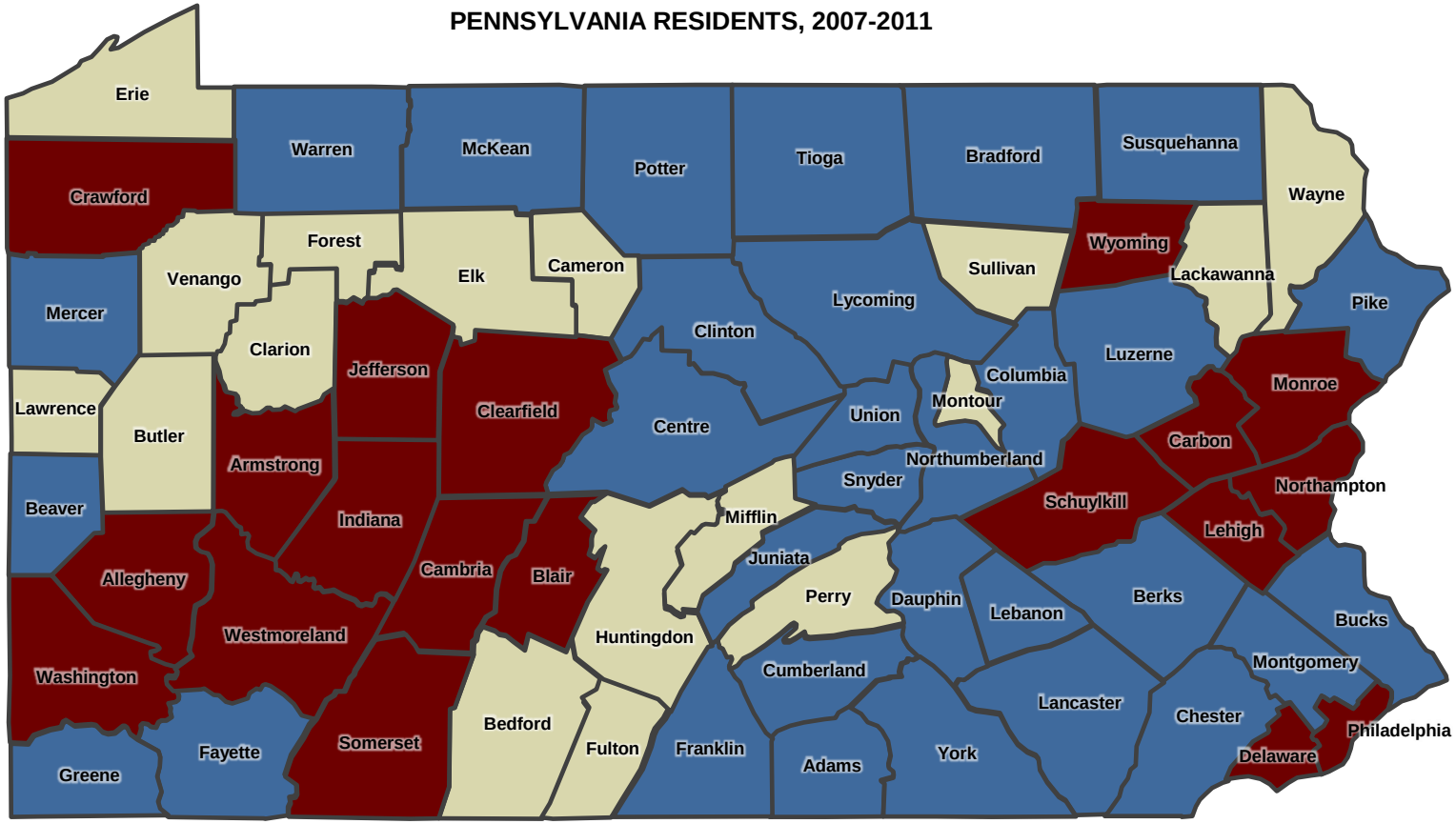
District/County	No.	Rate	CI (95%)		District/County	No.	Rate	CI (95%)	
Northeast	12,349	141.0	138.5-143.5	+	**Southeast**	34,484	128.2	126.9-129.6	+
Carbon	593	172.7	158.8-186.6	+	Berks	2,487	113.2	108.8-117.7	-
Lackawanna	1,506	119.9	113.8-125.9		Bucks	3,655	111.7	108.1-115.4	-
Lehigh	2,619	139.7	134.4-145.1	+	Chester	2,363	94.8	91.0-98.6	-
Luzerne	2,236	117.7	112.9-122.6	-	Delaware	5,340	176.0	171.3-180.7	+
Monroe	1,227	147.6	139.4-155.9	+	Lancaster	3,171	115.9	111.8-119.9	-
Northampton	3,180	195.4	188.6-202.2	+	Montgomery	4,480	101.5	98.6-104.5	-
Pike	228	79.4	69.1-89.7	-	Philadelphia	11,829	152.8	150.1-155.6	+
Susquehanna	215	93.8	81.3-106.4	-	Schuylkill	1,159	136.8	128.9-144.7	+
Wayne	333	119.9	107.0-132.8						
Wyoming	212	145.9	126.3-165.6	+					
North Central	3,463	91.9	88.8-94.9	-	**South Central**	8,478	95.2	93.1-97.2	-
Bradford	331	98.9	88.2-109.5	-	Adams	418	77.0	69.7-84.4	-
Centre	595	84.8	77.9-91.6	-	Bedford	322	124.9	111.2-138.5	
Clinton	199	95.0	81.8-108.2	-	Blair	1,040	145.2	136.4-154.1	+
Columbia	390	107.1	96.5-117.7	-	Cumberland	1,076	82.3	77.4-87.2	-
Lycoming	547	85.2	78.1-92.4	-	Dauphin	1,177	86.5	81.5-91.4	-
Montour	127	129.7	107.2-152.3		Franklin	663	80.5	74.4-86.6	-
Northumberland	604	114.9	105.7-124.0	-	Fulton	114	149.9	122.4-177.4	
Potter	89	94.7	75.0-114.4	-	Huntingdon	292	120.0	106.2-133.8	
Snyder	188	88.2	75.6-100.8	-	Juniata	119	89.8	73.6-105.9	-
Sullivan	37	100.0	67.8-132.2		Lebanon	643	88.6	81.8-95.5	-
Tioga	155	69.3	58.4-80.2	-	Mifflin	299	120.4	106.7-134.0	
Union	201	86.3	74.4-98.2	-	Perry	272	119.5	105.3-133.7	
					York	2,043	91.4	87.5-95.4	-
Northwest	6,424	122.4	119.4-125.4		**Southwest**	22,025	137.8	135.9-139.6	+
Cameron	49	153.8	110.7-196.9		Allegheny	10,397	141.8	139.1-144.6	+
Clarion	307	136.4	121.1-151.6		Armstrong	523	139.8	127.8-151.7	+
Clearfield	613	137.2	126.3-148.1	+	Beaver	1,155	113.6	107.0-120.1	-
Crawford	678	138.7	128.3-149.1	+	Butler	1,265	124.9	118.1-131.8	
Elk	241	133.3	116.5-150.2		Cambria	1,401	161.9	153.4-170.4	+
Erie	1,879	123.7	118.1-129.3		Fayette	912	112.5	105.2-119.8	-
Forest	41	98.1	68.1-128.1		Greene	146	67.9	56.9-79.0	-
Jefferson	422	167.9	151.9-183.9	+	Indiana	713	145.6	134.9-156.3	+
Lawrence	708	123.1	114.0-132.1		Somerset	668	147.9	136.6-159.1	+
McKean	221	89.2	77.5-101.0	-	Washington	1,713	143.6	136.8-150.4	+
Mercer	659	91.3	84.3-98.2	-	Westmoreland	3,132	145.9	140.8-151.0	+
Venango	361	121.5	109.0-134.1						
Warren	245	107.3	93.9-120.8	-	Pennsylvania	87,223	125.2	124.4-126.1	

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

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

INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

AGE-ADJUSTED HOSPITALIZATION RATES BY COUNTY, WITH SIGNIFICANT DIFFERENCES VERSUS THE STATE PENNSYLVANIA RESIDENTS, 2007-2011



Significantly higher than the state

Not significantly higher or lower than the state

Significantly lower than the state

Less than 20 events - statistically unreliable

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

INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

TOTAL NUMBER OF INJURY HOSPITALIZATIONS AND AVERAGE ANNUAL HOSPITALIZATION RATES BY COUNTY, SEX AND AGE GROUP, PENNSYLVANIA RESIDENTS, 2007-2011

Geography	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	51,265	35,841	**87,106**	10,198	64.2	13,906	115.3	12,393	97.6	14,106	110.5	36,620	372.1
Northeast	6,986	5,311	**12,297**	1,575	80.5	1,902	133.5	1,775	109.8	1,918	116.2	5,179	399.7
Carbon	321	271	592	93	129.8	94	169.8	96	143.3	99	138.7	211	367.1
Lackawanna	806	698	1,504	161	64.1	187	93.8	170	83.1	246	113.5	742	391.6
Lehigh	1,550	1,068	2,618	350	77.0	422	129.2	366	103.4	409	119.3	1,072	407.7
Luzerne	1,153	1,040	2,193	212	58.5	290	100.5	288	89.7	326	99.5	1120	389.1
Monroe	745	480	1,225	191	84.1	212	145.4	211	116.2	226	127.4	387	358.3
Northampton	1,828	1,351	3,179	412	108.2	525	194.0	477	156.9	449	148.4	1317	569.0
Pike	129	99	228	46	65.3	42	99.4	58	92.1	30	44.4	52	108.2
Susquehanna	117	98	215	32	65.2	36	109.7	27	65.7	34	67.8	86	229.3
Wayne	211	121	332	49	89.5	57	141.4	49	92.8	63	100.0	115	228.8
Wyoming	126	85	211	29	81.2	37	158.1	33	118.8	36	117.4	77	337.4
Southeast	21,145	13,324	**34,469**	4,220	62.9	5,944	116.9	5,183	100.5	5,869	120.9	13,268	373.6
Berks	1,526	961	2,487	320	57.2	375	100.0	348	82.8	390	98.7	1,054	353.0
Bucks	2,060	1,594	3,654	432	54.9	555	108.8	470	68.2	588	86.3	1610	350.2
Chester	1,352	1,011	2,363	242	35.0	405	92.2	312	57.3	345	69.0	1,059	327.0
Delaware	3,165	2,175	5,340	666	89.5	927	172.1	793	142.0	902	164.1	2052	512.4
Lancaster	1,975	1,195	3,170	537	74.7	531	108.8	407	81.7	476	98.0	1,220	312.8
Montgomery	2,539	1,938	4,477	455	45.3	581	82.3	543	63.4	705	87.8	2196	363.3
Philadelphia	7,844	3,983	11,827	1,448	70.8	2,384	125.4	2,129	148.5	2,282	177.5	3,586	381.8
Schuylkill	684	467	1,151	120	74.5	186	144.2	181	114.4	181	117.5	491	364.4

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	51,265	35,841	**87,106**	10,198	64.2	13,906	115.3	12,393	97.6	14,106	110.5	36,620	372.1
North Central	2,025	1,393	**3,418**	509	60.0	578	76.9	476	73.7	480	71.4	1,420	256.1
Bradford	183	146	329	44	56.7	48	96.9	51	82.7	58	86.9	130	235.6
Centre	343	247	590	88	47.3	123	50.4	77	62.9	62	53.5	245	282.7
Clinton	114	80	194	33	66.1	35	90.1	24	70.1	27	72.9	80	252.0
Columbia	225	160	385	49	58.9	66	94.0	49	82.4	72	111.5	154	283.4
Lycoming	327	212	539	83	59.1	94	83.7	78	69.0	70	57.9	222	228.9
Montour	75	51	126	20	93.1	21	142.9	16	92.5	20	100.0	50	296.4
Northumberland	344	251	595	89	84.0	84	106.7	74	78.9	82	81.9	275	314.8
Potter	59	29	88	17	79.7	14	107.6	12	75.3	13	68.9	33	196.9
Snyder	112	75	187	22	42.3	35	90.8	26	69.3	22	58.1	83	277.7
Sullivan	20	17	37	7	NSR	7	NSR	7	NSR	6	NSR	10	128.3
Tioga	96	56	152	25	47.2	23	62.8	26	69.7	23	52.7	58	153.0
Union	127	69	196	32	62.9	28	55.2	36	75.3	25	63.0	80	242.8
South Central	5,021	3,453	**8,474**	1,221	58.0	1,274	84.3	1,228	71.8	1,249	73.3	3,506	269.2
Adams	266	152	418	67	51.6	43	48.2	49	46.7	50	47.9	209	263.0
Bedford	191	131	322	55	93.2	49	125.9	66	130.7	53	99.9	99	212.4
Blair	597	443	1,040	107	69.9	162	144.4	160	131.7	173	130.1	438	387.9
Cumberland	620	456	1,076	132	46.0	133	56.9	140	59.8	159	67.9	512	276.7
Dauphin	732	445	1,177	201	59.4	186	75.0	173	63.3	183	65.8	434	235.3
Franklin	358	305	663	86	44.2	78	60.0	79	53.9	71	49.2	349	279.1
Fulton	70	44	114	19	103.8	20	162.5	24	155.9	15	98.2	36	278.3
Huntingdon	178	113	291	26	49.8	82	185.4	57	119.5	43	91.7	84	223.3
Juniata	72	46	118	15	48.4	14	69.2	17	71.1	15	61.7	58	279.8
Lebanon	381	262	643	123	73.6	93	77.6	72	55.6	88	66.4	267	235.1
Mifflin	170	127	297	49	82.8	48	127.9	45	98.9	45	96.4	112	257.9
Perry	170	102	272	80	135.4	42	107.5	41	84.9	37	73.5	72	228.2
York	1,216	827	2,043	261	46.8	324	84.0	305	65.0	317	71.7	836	270.7

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	Sex		Total	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
District/County	Male	Female	All Ages	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Pennsylvania	51,265	35,841	**87,106**	10,198	64.2	13,906	115.3	12,393	97.6	14,106	110.5	36,620	372.1
Northwest	3,711	2,713	**6,424**	707	61.9	1,007	121.5	860	95.3	1,055	109.2	2,795	355.4
Cameron	31	18	49	12	214.9	7	197.2	9	192.4	21	332.8	0	0.0
Clarion	179	128	307	39	78.2	50	123.2	31	86.9	49	124.5	138	410.8
Clearfield	354	259	613	84	94.4	106	147.0	102	114.5	87	100.5	234	321.8
Crawford	382	296	678	75	65.8	99	131.0	94	111.5	96	102.1	314	424.0
Elk	149	92	241	37	101.3	33	143.7	32	93.7	55	154.7	84	276.7
Erie	1,115	764	1,879	194	52.7	353	124.9	273	101.6	317	114.6	742	361.4
Forest	28	13	41	9	NSR	9	NSR	8	NSR	11	151.9	4	NSR
Jefferson	262	160	422	41	76.1	78	207.9	62	141.5	58	120.6	183	442.8
Lawrence	373	335	708	52	47.6	78	106.0	62	71.7	116	119.1	400	470.0
McKean	122	99	221	26	49.4	33	85.7	31	69.7	28	63.8	103	278.1
Mercer	331	328	659	58	40.0	60	61.5	75	67.6	108	89.3	358	334.9
Venango	230	131	361	43	65.7	62	144.0	57	109.3	62	99.0	137	278.4
Warren	155	90	245	37	78.1	39	123.6	24	59.3	47	98.9	98	252.2
Southwest	12,377	9,647	**22,024**	1,966	62.8	3,201	130.0	2,871	107.7	3,535	121.3	10,452	444.6
Allegheny	5,792	4,605	10,397	826	58.5	1,399	115.8	1,310	110.6	1,710	133.3	5,152	502.0
Armstrong	296	227	523	61	76.5	94	178.4	86	124.4	81	105.2	201	314.2
Beaver	658	497	1,155	101	51.7	166	117.3	166	98.5	198	103.6	524	330.1
Butler	701	564	1,265	136	57.6	218	140.0	148	76.1	198	102.1	565	400.9
Cambria	790	611	1,401	115	70.9	234	188.1	177	128.0	226	143.9	649	479.4
Fayette	534	378	912	80	50.8	147	126.3	124	87.8	147	94.6	414	332.8
Greene	78	68	146	18	41.0	28	74.9	17	42.1	21	49.7	62	206.7
Indiana	430	283	713	81	72.3	143	149.6	99	130.2	107	122.6	283	402.3
Somerset	391	277	668	76	92.5	92	138.6	98	122.4	91	107.4	311	425.0
Washington	966	747	1,713	178	73.0	235	132.6	248	120.3	274	119.9	778	425.3
Westmoreland	1,741	1,390	3,131	294	72.7	445	155.1	398	108.5	482	116.4	1,513	439.1

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

INJURY HOSPITALIZATIONS: TRAUMATIC BRAIN INJURY

NUMBER AND AGE-ADJUSTED HOSPITALIZATION RATES WITH CONFIDENCE INTERVALS (CI), BY RACE OR ETHNICITY FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

BLACK POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	1,292	160.5	151.8-169.3
Chester	124	85.1	70.1-100.1
Dauphin	180	79.5	67.9-91.1
Delaware	943	183.5	171.8-195.3
Montgomery	333	100.7	89.9-111.6
Philadelphia	4,843	145.4	141.3-149.5
Pennsylvania	9,015	136.4	133.6-139.2

WHITE POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Allegheny	8,373	129.7	127.0-132.5
Chester	2,077	92.1	88.1-96.1
Dauphin	884	81.0	75.7-86.3
Delaware	4,062	166.4	161.3-171.6
Montgomery	3,580	92.4	89.4-95.4
Philadelphia	4,870	123.2	119.8-126.7
Pennsylvania	69,146	112.6	111.8-113.4

HISPANIC POPULATION BY COUNTY

County	No.	Rate	CI (95%)
Berks	172	95.0	80.8-109.2
Lancaster	48	33.9	24.3-43.5
Lehigh	192	80.2	68.9-91.6
Philadelphia	1,150	160	150.4-168.9
Pennsylvania	2,707	112.4	108.2-116.7

NUMBER FOR SELECT AGE GROUPS AND AVERAGE ANNUAL HOSPITALIZATION RATES BY RACE FOR SELECT COUNTIES, PENNSYLVANIA RESIDENTS, 2007-2011

Select Counties		Pct.	Sex		Total	Pct.	Ages 0-19		Ages 20-34		Ages 35-49		Ages 50-64		Ages 65+	
County and Race		Cty. Pop.	Male	Female	All Ages	Cty. Total	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Allegheny	Black	13.4%	857	435	**1,292**	12.4%	227	84.0	267	153.8	252	166.3	266	197.6	280	311.9
	White	82.4%	4,479	3,894	**8,373**	80.5%	525	48.8	959	103.5	938	92.2	1,318	120.7	4,633	504.0
Chester	Black	6.2%	81	43	**124**	5.2%	15	30.2	38	108.1	26	87.6	12	49.4	33	210.7
	White	88.3%	1,160	917	**2,077**	87.9%	204	34.4	316	83.8	262	53.9	314	70.8	981	337.5
Dauphin	Black	18.1%	135	45	**180**	15.3%	45	55.6	42	87.3	35	72.0	29	74.9	29	141.9
	White	75.8%	518	366	**884**	75.1%	130	58.2	109	62.0	115	53.8	142	63.8	388	248.4
Delaware	Black	19.2%	639	304	**943**	17.7%	193	107.5	270	209.9	195	175.9	161	212.4	124	306.4
	White	74.4%	2,310	1,752	**4,062**	76.1%	413	81.7	586	159.2	534	127.9	680	156.2	1,849	536.1
Montgomery	Black	8.8%	225	108	**333**	7.4%	46	45.6	65	86.0	70	87.5	66	113.2	86	257.0
	White	83.2%	1,974	1,603	**3,577**	79.9%	333	41.6	410	73.7	389	54.8	569	84.2	1,879	350.0
Philadelphia	Black	45.1%	3,418	1,425	**4,843**	40.9%	751	70.3	998	133.9	1,060	161.6	1,043	188.4	991	274.1
	White	45.3%	2,902	1,967	**4,869**	41.2%	289	38.1	812	93.5	689	106.8	906	151.0	2,174	410.3
Pennsylvania	Black	10.9%	6,277	2,737	**9,014**	10.3%	1,564	70.8	2,025	129.7	1,897	138.9	1,788	168.2	1,741	266.7
	White	84.5%	39,139	29,897	**69,036**	79.3%	7,181	56.4	9,801	101.3	8,961	82.0	10,912	99.4	32,291	364.4

Appendices

LEADING CAUSES OF INJURY DEATH

During 2007 to 2011, the leading causes of injury deaths among Pennsylvania residents were unintentional poisoning, motor vehicle traffic (MVT) accidents, unintentional falls, suicide by firearm and homicide by firearm. These five causes accounted for 76 percent of all injury deaths.

Overview

Unintentional falls were the leading cause of injury deaths among females.

The top leading cause varied by race and ethnicity: homicide by firearm for blacks and unintentional poisoning for whites and Hispanics.

Unintentional poisoning was the leading cause of injury death among ages 20 to 64 for both males and females. Unintentional falls were the leading cause of injury death among ages 65 and older.

HIGHLIGHTS

- **Unintentional poisoning** is the leading cause of injury death, especially among ages 20 to 64.
- **MVT accidents** lead among whites less than age 20.
- **Homicide by firearm** leads among blacks under age 35.

Young Injury Deaths

- During 2007 to 2011, MVT accidents were the leading cause of injury death among youths under age 20 while it ranked second for ages 20 and older.
- Homicide by firearm was the leading cause of injury death among black youths under age 35, whereas the cause ranked ninth among white youths under 20 and sixth for white youths, ages 20-34.
- Unintentional poisoning was the leading cause of injury death among ages 20-64.

Violent Deaths

- During 2007 to 2011, 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 92 percent of all violent deaths during the five-year period.
- Suicide by poisoning was the leading cause of violent death among females, whereas the cause ranked fourth among males. Among males, suicide by firearms was the leading cause of death; this cause ranked second among females.

Fatal traumatic Brain Injuries

- From 2007 to 2011, the leading causes of fatal traumatic brain injury death were unintentional falls, suicide by firearm, MVT accidents and homicide by firearm. These four causes accounted for 94 percent of all involving traumatic brain injury deaths.
- Suicide by firearm was the leading cause of fatal traumatic brain injury (TBI) death among males whereas the cause ranked third among females. The leading cause of TBI-related injury death among females was unintentional fall, which accounted for 57 percent of all female TBI-related injury deaths during the five-year period.

For a full list of causes included in the rankings, with ICD definitions, see the Technical Notes.

LEADING CAUSES OF INJURY DEATH: 2007-2011

PENNSYLVANIA RESIDENTS BY GENDER OR AGE GROUP

	TOTAL	GENDER		AGE GROUP				
RANK	All Ages	Males	Females	0-19	20-34	35-49	50-64	65+
1	Poison (Unint.) **8,495**	Poison (Unint.) 5,745	Fall (Unint.) 3,242	MVT (Unint.) 859	Poison (Unint.) 2,665	Poison (Unint.) 3,306	Poison (Unint.) 1,979	Fall (Unint.) 5,491
2	MVT (Unint.) **6,824**	MVT (Unint.) 4,807	Poison (Unint.) 2,750	Firearm (Assault) 423	MVT (Unint.) 1,957	MVT (Unint.) 1,414	MVT (Unint.) 1,188	MVT (Unint.) 1,406
3	Fall (Unint.) **6,523**	Firearm (Self-Inf.) 3,501	MVT (Unint.) 2,017	Poison (Unint.) 224	Firearm (Assault) 1,335	Firearm (Self-Inf.) 1,019	Firearm (Self-Inf.) 1,143	Suffocation (Unint.) 1,109
4	Firearm (Self-Inf.) **3,892**	Fall (Unint.) 3,281	Suffocation (Unint.) 753	Suffocation (Self-Inf.) 183	Firearm (Self-Inf.) 754	Suffocation (Self-Inf.) 600	Fall (Unint.) 669	Firearm (Self-Inf.) 840
5	Firearm (Assault) **2,501**	Firearm (Assault) 2,170	Poison (Self-Inf.) 595	Suffocation (Unint.) 170	Suffocation (Self-Inf.) 566	Firearm (Assault) 512	Poison (Self-Inf.) 462	Poison (Unint.) 321
6	Suffocation (Self-Inf.) **1,896**	Suffocation (Self-Inf.) 1,543	Firearm (Self-Inf.) 391	Fire/Burn (Unint.) 161	Poison (Self-Inf.) 204	Poison (Self-Inf.) 472	Suffocation (Self-Inf.) 425	Fire/Burn (Unint.) 259
7	Suffocation (Unint.) **1,653**	Suffocation (Unint.) 900	Suffocation (Self-Inf.) 353	Firearm (Self-Inf.) 136	Poison (Undet.) 122	Fall (Unint.) 244	Suffocation (Unint.) 197	Poison (Self-Inf.) 156
8	Poison (Self-Inf.) **1,321**	Poison (Self-Inf.) 726	Fire/Burn (Unint.) 343	Drowning (Unint.) 132	Cut/Pierce (Assault) 105	Poison (Undet.) 217	Fire/Burn (Unint.) 173	Suffocation (Self-Inf.) 122
9	Fire/Burn (Unint.) **770**	Fire/Burn (Unint.) 427	Firearm (Assault) 331	Transport (Unint.) 76	Transport (Unint.) 101	Suffocation (Unint.) 119	Firearm (Assault) 166	Nat/Env. (Unint.) 119
10	Poison (Undet.) **509**	Transport (Unint.) 386	Poison (Undet.) 220	Fall (Unint.) 32	Fall (Unint.) 87	Fire/Burn (Unint.) 104	Poison (Undet.) 141	Transport (Unint.) 109

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: 2007-2011

PENNSYLVANIA RESIDENTS BY GENDER AND AGE GROUP

	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
RANK	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
1	MVT (Unint.) 556	MVT (Unint.) 316	Poison (Unint.) 1,993	Poison (Unint.) 694	Poison (Unint.) 2,143	Poison (Unint.) 1,182	Poison (Unint.) 1,306	Poison (Unint.) 682	Fall (Unint.) 2,562	Fall (Unint.) 2,974
2	Firearm (Assault) 389	Suffocation (Unint.) 70	MVT (Unint.) 1,527	MVT (Unint.) 463	MVT (Unint.) 1,062	MVT (Unint.) 368	Firearm (Self-Inf.) 1,018	MVT (Unint.) 306	MVT (Unint.) 831	MVT (Unint.) 599
3	Poison (Unint.) 169	Fire/Burn (Unint.) 70	Firearm (Assault) 1,237	Firearm (Assault) 122	Firearm (Self-Inf.) 910	Poison (Self-Inf.) 220	MVT (Unint.) 904	Poison (Self-Inf.) 232	Firearm (Self-Inf.) 786	Suffocation (Unint.) 567
4	Suffocation (Self-Inf.) 132	Poison (Unint.) 55	Firearm (Self-Inf.) 697	Suffocation (Self-Inf.) 102	Suffocation (Self-Inf.) 515	Firearm (Self-Inf.) 116	Fall (Unint.) 481	Fall (Unint.) 190	Suffocation (Unint.) 556	Poison (Unint.) 151
5	Firearm (Self-Inf.) 121	Suffocation (Self-Inf.) 53	Suffocation (Self-Inf.) 483	Firearm (Self-Inf.) 71	Firearm (Assault) 417	Firearm (Assault) 102	Suffocation (Self-Inf.) 351	Firearm (Self-Inf.) 134	Poison (Unint.) 172	Fire/Burn (Unint.) 134
6	Suffocation (Unint.) 103	Firearm (Assault) 39	Poison (Self-Inf.) 143	Poison (Self-Inf.) 64	Poison (Self-Inf.) 256	Suffocation (Self-Inf.) 101	Poison (Self-Inf.) 231	Suffocation (Self-Inf.) 83	Fire/Burn (Unint.) 128	Poison (Self-Inf.) 70
7	Drowning (Unint.) 99	Drowning (Unint.) 34	Transport (Unint.) 88	Poison (Undet.) 45	Fall (Unint.) 187	Poison (Undet.) 92	Firearm (Assault) 128	Poison (Undet.) 76	Suffocation (Self-Inf.) 94	Nat/Env. (Unint.) 68
8	Fire/Burn (Unint.) 93	Transport (Unint.) 24	Poison (Undet.) 79	Fire/Burn (Unint.) 36	Poison (Undet.) 123	Fall (Unint.) 62	Suffocation (Unint.) 128	Suffocation (Unint.) 72	Poison (Self-Inf.) 87	Firearm (Self-Inf.) 57
9	Transport (Unint.) 53	Firearm (Self-Inf.) 15	Cut/Pierce (Assault) 76	Cut/Pierce (Assault) 29	Transport (Unint.) 84	Fire/Burn (Unint.) 44	Fire/Burn (Unint.) 110	Fire/Burn (Unint.) 63	Transport (Unint.) 78	Suffocation (Self-Inf.) 37
10	Firearm (Unint.) 27	Fall (Unint.) 14	Drowning (Unint.) 70	Fall (Unint.) 23	Suffocation (Unint.) 83	Cut/Pierce (Assault) 37	Transport (Unint.) 88	Firearm (Assault) 45	Drowning (Unint.) 56	Transport (Unint.) 32

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: 2007-2011

PENNSYLVANIA RESIDENTS BY RACE OR ETHNICITY AND GENDER

	TOTAL	RACE OR ETHNICITY			MALES		FEMALES	
RANK	All Races	White	Black	Hispanic	White	Black	White	Black
1	Poison (Unint.) **8,495**	Poison (Unint.) 7,176	Firearm (Assault) 1,750	Poison (Unint.) 281	Poison (Unint.) 4,832	Firearm (Assault) 1,625	Fall (Unint.) 3,105	Poison (Unint.) 331
2	MVT (Unint.) **6,824**	Fall (Unint.) 6,177	Poison (Unint.) 1,039	MVT (Unint.) 225	MVT (Unint.) 4,204	Poison (Unint.) 708	Poison (Unint.) 2,344	MVT (Unint.) 152
3	Fall (Unint.) **6,523**	MVT (Unint.) 6,022	MVT (Unint.) 577	Firearm (Assault) 222	Firearm (Self-Inf.) 3,293	MVT (Unint.) 425	MVT (Unint.) 1,818	Firearm (Assault) 125
4	Firearm (Self-Inf.) **3,892**	Firearm (Self-Inf.) 3,665	Fall (Unint.) 276	Suffocation (Self-Inf.) 81	Fall (Unint.) 3,072	Fall (Unint.) 160	Suffocation (Unint.) 634	Fall (Unint.) 116
5	Firearm (Assault) **2,501**	Suffocation (Self-Inf.) 1,671	Suffocation (Unint.) 211	Fall (Unint.) 74	Suffocation (Self-Inf.) 1,357	Firearm (Self-Inf.) 154	Poison (Self-Inf.) 570	Suffocation (Unint.) 103
6	Suffocation (Self-Inf.) **1,896**	Suffocation (Unint.) 1,404	Firearm (Self-Inf.) 171	Firearm (Self-Inf.) 56	Suffocation (Unint.) 770	Suffocation (Self-Inf.) 113	Firearm (Self-Inf.) 372	Fire/Burn (Unint.) 68
7	Suffocation (Unint.) **1,653**	Poison (Self-Inf.) 1,258	Fire/Burn (Unint.) 162	Suffocation (Unint.) 38	Poison (Self-Inf.) 688	Suffocation (Unint.) 108	Suffocation (Self-Inf.) 314	Cut/Pierce (Assault) 38
8	Poison (Self-Inf.) **1,321**	Fire/Burn (Unint.) 577	Suffocation (Self-Inf.) 144	Poison (Undet.) 34	Transport (Unint.) 346	Cut/Pierce (Assault) 106	Fire/Burn (Unint.) 265	Suffocation (Self-Inf.) 31
9	Fire/Burn (Unint.) **770**	Firearm (Assault) 529	Cut/Pierce (Assault) 144	Fire/Burn (Unint.) 31	Firearm (Assault) 345	Fire/Burn (Unint.) 94	Poison (Undet.) 195	Poison (Undet.) 18
10	Poison (Undet.) **509**	Transport (Unint.) 477	Drowning (Unint.) 65	Cut/Pierce (Assault) 31	Fire/Burn (Unint.) 312	Drowning (Unint.) 51	Firearm (Assault) 184	Firearm (Self-Inf.) 17

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: 2007-2011

PENNSYLVANIA RESIDENTS BY RACE AND AGE GROUP

	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
RANK	White	Black	White	Black	White	Black	White	Black	White	Black
1	MVT (Unint.) 731	Firearm (Assault) 348	Poison (Unint.) 2,424	Firearm (Assault) 1,032	Poison (Unint.) 2,759	Poison (Unint.) 418	Poison (Unint.) 1,513	Poison (Unint.) 414	Fall (Unint.) 5,300	Fall (Unint.) 156
2	Poison (Unint.) 205	MVT (Unint.) 80	MVT (Unint.) 1,648	MVT (Unint.) 224	MVT (Unint.) 1,220	Firearm (Assault) 298	Firearm (Self-Inf.) 1,109	MVT (Unint.) 83	MVT (Unint.) 1,342	Suffocation (Unint.) 117
3	Suffocation (Self-Inf.) 140	Fire/Burn (Unint.) 58	Firearm (Self-Inf.) 661	Poison (Unint.) 151	Firearm (Self-Inf.) 957	MVT (Unint.) 136	MVT (Unint.) 1,081	Fall (Unint.) 76	Suffocation (Unint.) 983	MVT (Unint.) 54
4	Firearm (Self-Inf.) 117	Suffocation (Unint.) 52	Suffocation (Self-Inf.) 488	Firearm (Self-Inf.) 70	Suffocation (Self-Inf.) 539	Cut/Pierce (Assault) 46	Fall (Unint.) 576	Firearm (Assault) 64	Firearm (Self-Inf.) 821	Poison (Unint.) 43
5	Suffocation (Unint.) 103	Suffocation (Self-Inf.) 30	Poison (Self-Inf.) 185	Cut/Pierce (Assault) 55	Poison (Self-Inf.) 443	Firearm (Self-Inf.) 41	Poison (Self-Inf.) 450	Fire/Burn (Unint.) 28	Poison (Unint.) 275	Fire/Burn (Unint.) 42
6	Drowning (Unint.) 91	Drowning (Unint.) 29	Firearm (Assault) 182	Suffocation (Self-Inf.) 49	Fall (Unint.) 206	Suffocation (Self-Inf.) 40	Suffocation (Self-Inf.) 391	Firearm (Self-Inf.) 26	Fire/Burn (Unint.) 215	Firearm (Self-Inf.) 18
7	Fire/Burn (Unint.) 85	Cut/Pierce (Assault) 19	Poison (Undet.) 99	Fire/Burn (Unint.) 20	Poison (Undet.) 191	Fall (Unint.) 27	Suffocation (Unint.) 167	Suffocation (Unint.) 24	Poison (Self-Inf.) 155	Nat/Env. (Unint.) 15
8	Transport (Unint.) 70	Firearm (Self-Inf.) 16	Transport (Unint.) 88	Firearm (Other) 17	Firearm (Assault) 157	Poison (Self-Inf.) 19	Fire/Burn (Unint.) 143	Cut/Pierce (Assault) 20	Suffocation (Self-Inf.) 113	Firearm (Assault) 8
9	Firearm (Assault) 44	Poison (Unint.) 13	Fall (Unint.) 69	Fall (Unint.) 14	Suffocation (Unint.) 102	Poison (Undet.) 15	Poison (Undet.) 124	Suffocation (Self-Inf.) 19	Transport (Unint.) 103	Drowning (Unint.) 6
10	Fall (Unint.) 26	Suffocation (Assault) 7	Drowning (Unint.) 56	Poison (Self-Inf.) 12	Transport (Unint.) 86	Suffocation (Unint.) 15	Transport (Unint.) 100	Nat/Env. (Unint.) 12	Nat/Env. (Unint.) 101	Suffocation (Self-Inf.) 6

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: 2007-2011

PENNSYLVANIA RESIDENTS BY INJURY INTENT, BRAIN INJURY, AND GENDER

	INTENT		UNINT.		VIOLENCE		TBI		
RANK	Unint.	Violence	Males	Females	Males	Females	Total	Males	Females
1	Poison (Unint.) 8,495	Firearm (Self-Inf.) 3,892	Poison (Unint.) 5,745	Fall (Unint.) 3,242	Firearm (Self-Inf.) 3,501	Poison (Self-Inf.) 595	Fall (Unint.) 3,634	Firearm (Self-Inf.) 2,924	Fall (Unint.) 1,591
2	MVT (Unint.) 6,824	Firearm (Assault) 2,501	MVT (Unint.) 4,807	Poison (Unint.) 2,750	Firearm (Assault) 2,170	Firearm (Self-Inf.) 391	Firearm (Self-Inf.) 3,225	Fall (Unint.) 2,043	MVT (Unint.) 599
3	Fall (Unint.) 6,523	Suffocation (Self-Inf.) 1,896	Fall (Unint.) 3,281	MVT (Unint.) 2,017	Suffocation (Self-Inf.) 1,543	Suffocation (Self-Inf.) 353	MVT (Unint.) 2,316	MVT (Unint.) 1,717	Firearm (Self-Inf.) 301
4	Suffocation (Unint.) 1,653	Poison (Self-Inf.) 1,321	Suffocation (Unint.) 900	Suffocation (Unint.) 753	Poison (Self-Inf.) 726	Firearm (Assault) 331	Firearm (Assault) 738	Firearm (Assault) 557	Firearm (Assault) 181
5	Fire/Burn (Unint.) 770	Cut/Pierce (Assault) 300	Fire/Burn (Unint.) 427	Fire/Burn (Unint.) 343	Cut/Pierce (Assault) 213	Cut/Pierce (Assault) 87	Transport (Unint.) 181	Transport (Unint.) 140	Transport (Unint.) 41
6	Transport (Unint.) 497	Cut/Pierce (Self-Inf.) 148	Transport (Unint.) 386	Transport (Unint.) 111	Cut/Pierce (Self-Inf.) 117	Suffocation (Assault) 65	Struck By (Unint.) 81	Struck By (Unint.) 68	Struck By (Unint.) 13
7	Drowning (Unint.) 452	Fall (Self-Inf.) 132	Drowning (Unint.) 361	Nat/Env. (Unint.) 105	Fall (Self-Inf.) 103	Cut/Pierce (Self-Inf.) 31	Firearm (Unint.) 66	Firearm (Unint.) 59	Poison (Unint.) 11
8	Nat/Env. (Unint.) 248	Suffocation (Assault) 91	Machinery (Unint.) 155	Drowning (Unint.) 91	Drowning (Self-Inf.) 52	Fall (Self-Inf.) 29	Machinery (Unint.) 42	Machinery (Unint.) 41	Firearm (Undet.) 10
9	Struck By (Unint.) 175	Drowning (Self-Inf.) 75	Struck By (Unint.) 153	Struck By (Unint.) 22	Suffocation (Assault) 26	Drowning (Self-Inf.) 23	Poison (Unint.) 40	Fall (Self-Inf.) 33	Struck By (Assault) 9
10	Machinery (Unint.) 165	Poison (Assault) 31	Nat/Env. (Unint.) 143	Firearm (Unint.) 15	Fire/Burn (Self-Inf.) 24	Poison (Assault) 15	Fall (Self-Inf.) 39	Poison (Unint.) 29	Cut/Pierce (Assault) 8

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 2007 to 2011, the leading causes of injury hospitalization among Pennsylvania residents were unintentional falls, motor vehicle traffic injuries, self-inflicted poisoning (self-poisoning) and unintentional poisoning; these four accounted for 79 percent of all injury hospitalizations.

Overview

Unintentional falls were the leading cause of injury hospitalization for males and females of all ages, races and ethnicities, except for ages 20 to 34.

Unintentional falls accounted for 35 percent of all injury hospitalizations among males and 55 percent of injury hospitalizations among females.
The next leading cause varied by race and ethnicity: MVT occupant for whites and Hispanics and unintentional poisoning for blacks.

HIGHLIGHTS

- **Unintentional falls** lead among all groups except for ages 20 to 34.
- Unintentional falls account for over **57 percent** of all injury hospitalizations.
- **Motor Vehicle Traffic** ranked second for all ages except males 20 to 49.

Young Injury Hospitalizations

- MVT occupant was the second leading cause of injury hospitalization among youths under age 20, specifically among male youths. (Unintentional falls ranked first.)
- Self-poisoning was the third leading cause of injury hospitalization among female youths under age 20, whereas it ranked sixth among male youths under 20 years of age.
- Assault by firearm was the third leading cause of injury hospitalization among black youths under age 20, whereas the cause did not rank among white youths.

Violence-related Hospitalizations

- The leading violence-related causes of injury hospitalization were self-poisoning and assault by personal weapons (such as fists or a blunt object).
- Other leading violence-related causes of hospitalization included self-inflicted cutting (ranked second among females) and assault by firearm (ranked third among males).

Traumatic Brain Injury Hospitalizations

- The leading causes of traumatic brain injury hospitalization were unintentional falls and MVT accidents.
- The third leading cause of traumatic brain injury hospitalization for males was assault by personal weapons.

For a full list of causes included in the rankings, with ICD definitions, see the Technical Notes.

LEADING CAUSES OF INJURY HOSPITALIZATION: 2007-2011

PENNSYLVANIA RESIDENTS BY GENDER OR AGE GROUP

	TOTAL	GENDER		AGE GROUP				
RANK	All Ages	Males	Females	0-19	20-34	35-49	50-64	65+
1	Fall (Unint.) **324,207**	Fall (Unint.) 121,513	Fall (Unint.) 203,207	Fall (Unint.) 8,866	MVT (Unint.) 15,684	Fall (Unint.) 21,980	Fall (Unint.) 48,483	Fall (Unint.) 235,220
2	MVT (Unint.) **58,695**	MVT (Unint.) 35,466	MVT (Unint.) 23,229	MVT (Unint.) 8,171	Poison (Self-Inf.) 12,072	Poison (Self-Inf.) 13,089	MVT (Unint.) 11,323	MVT (Unint.) 10,942
3	Poison (Self-Inf.) **37,236**	Poison (Unint.) 13,964	Poison (Self-Inf.) 21,892	Poison (Self-Inf.) 3,927	Fall (Unint.) 10,171	MVT (Unint.) 12,575	Poison (Unint.) 8,591	Poison (Unint.) 6,612
4	Poison (Unint.) **32,238**	Poison (Self-Inf.) 15,344	Poison (Unint.) 15,274	Transport (Unint.) 3,554	Poison (Unint.) 5,856	Poison (Unint.) 8,741	Poison (Self-Inf.) 6,551	Suffocation (Unint.) 4,966
5	Nat./Env. (Unint.) **15,390**	Transport (Unint.) 9,482	Nat./Env. (Unint.) 7,997	Struck By (Unint.) 3,287	Struck By (Assault) 3,429	Poison (Undet.) 3,753	Nat/Env (Unint.) 3,908	Nat/Env (Unint.) 4,955
6	Struck By (Unint.) **14,426**	Struck By (Unint.) 9,347	Overexert. (Unint.) 5,779	Poison (Unint.) 3,287	Transport (Unint.) 2,748	Nat/Env (Unint.) 2,979	Poison (Undet.) 2,852	Struck By (Unint.) 4,521
7	Transport (Unint.) **13,373**	Struck By (Assault) 7,402	Struck By (Unint.) 5,079	Nat/Env (Unint.) 1,774	Firearm (Assault) 2,719	Struck By (Assault) 2,744	Overexert (Unint.) 2,404	Overexert (Unint.) 4,334
8	Overexert. (Unint.) **10,657**	Nat./Env. (Unint.) 7,393	Poison (Undet.) 4,476	Fire/Burn (Unint.) 1,635	Poison (Undet.) 2,688	Transport (Unint.) 2,741	Transport (Unint.) 2,395	Transport (Unint.) 1,935
9	Poison (Undet.) **10,588**	Poison (Undet.) 6,112	Transport (Unint.) 3,891	Struck By (Assault) 1,178	Cut/Pierce (Self-Inf.) 2,346	Struck By (Unint.) 2,229	Struck By (Unint.) 2,351	Fire/Burn (Unint.) 1,872
10	Struck By (Assault) **9,044**	Fire/Burn (Unint.) 5,097	Suffocation (Unint.) 3,697	Firearm (Assault) 1,097	Struck By (Unint.) 2,038	Overexert. (Unint.) 2,062	Fire/Burn (Unint.) 1,859	Poison (Self-Inf.) 1,597

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: 2007-2011

PENNSYLVANIA RESIDENTS BY GENDER AND AGE GROUP

	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
RANK	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
1	Fall (Unint.) 6,353	MVT (Unint.) 3,447	MVT (Unint.) 11,285	Poison (Self-Inf.) 7,325	Fall (Unint.) 13,490	Fall (Unint.) 9,762	Fall (Unint.) 24,904	Fall (Unint.) 25,873	Fall (Unint.) 75,966	Fall (Unint.) 167,635
2	MVT (Unint.) 5,528	Fall (Unint.) 3,319	Fall (Unint.) 6,583	MVT (Unint.) 5,952	MVT (Unint.) 8,739	Poison (Self-Inf.) 7,922	MVT (Unint.) 7,443	MVT (Unint.) 4,703	MVT (Unint.) 5,509	MVT (Unint.) 6,100
3	Transport (Unint.) 2,907	Poison (Self-Inf.) 2,892	Poison (Self-Inf.) 5,466	Fall (Unint.) 4,372	Poison (Self-Inf.) 5,747	MVT (Unint.) 4,930	Poison (Unint.) 4,895	Poison (Unint.) 3,972	Poison (Unint.) 2,806	Poison (Unint.) 4,029
4	Struck By (Unint.) 2,747	Poison (Unint.) 1,170	Poison (Unint.) 3,598	Poison (Unint.) 2,629	Poison (Unint.) 4,904	Poison (Unint.) 4,169	Poison (Self-Inf.) 2,894	Poison (Self-Inf.) 3,920	Suffocation (Unint.) 2,501	Overexert. (Unint.) 3,118
5	Poison (Unint.) 1,557	Transport (Unint.) 916	Struck By (Assault) 3,075	Poison (Undet.) 1,163	Struck By (Assault) 2,406	Poison (Undet.) 1,668	Nat/Env (Unint.) 2,016	Nat/Env (Unint.) 2,015	Nat/Env (Unint.) 2,050	Nat/Env (Unint.) 3,069
6	Poison (Self-Inf.) 1,410	Nat/Env (Unint.) 862	Firearm (Assault) 2,756	Cut/Pierce (Self-Inf.) 1,158	Poison (Undet.) 2,238	Nat/Env (Unint.) 1,476	Poison (Undet.) 1,779	Overexert. (Unint.) 1,239	Struck By (Unint.) 1,844	Struck By (Unint.) 2,826
7	Fire/Burn (Unint.) 1,168	Struck By (Unint.) 780	Transport (Unint.) 2,290	Nat/Env (Unint.) 880	Transport (Unint.) 2,129	Overexert. (Unint.) 869	Struck By (Unint.) 1,722	Poison (Undet.) 1,170	Overexert. (Unint.) 1,330	Suffocation (Unint.) 2,634
8	Firearm (Assault) 1,091	Fire/Burn (Unint.) 723	Struck By (Unint.) 1,812	Transport (Unint.) 678	Struck By (Unint.) 1,841	Transport (Unint.) 801	Transport (Unint.) 1,636	Transport (Unint.) 909	Transport (Unint.) 1,180	Poison (Self-Inf.) 1,056
9	Struck By (Assault) 1,077	Cut/Pierce (Self-Inf.) 629	Poison (Undet.) 1,657	Struck By (Assault) 675	Nat/Env (Unint.) 1,640	Cut/Pierce (Self-Inf.) 720	Overexert. (Unint.) 1,265	Struck By (Unint.) 750	Fire/Burn (Unint.) 980	Fire/Burn (Unint.) 1,010
10	Nat/Env (Unint.) 1,015	Cut/Pierce (Unint.) 286	Cut/Pierce (Unint.) 1,380	Overexert. (Unint.) 543	Cut/Pierce (Unint.) 1,450	Fire/Burn (Unint.) 620	Cut/Pierce (Unint.) 1,244	Fire/Burn (Unint.) 744	Cut/Pierce (Unint.) 763	Transport (Unint.) 845

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: 2007-2011

PENNSYLVANIA RESIDENTS BY RACE OR ETHNICITY AND GENDER

	TOTAL	RACE OR ETHNICITY			MALES		FEMALES	
RANK	All Races	White	Black	Hispanic	White	Black	White	Black
1	Fall (Unint.) **324,207**	Fall (Unint.) 295,811	Fall (Unint.) 23,082	Fall (Unint.) 5,827	Fall (Unint.) 107,987	Fall (Unint.) 10,661	Fall (Unint.) 187,824	Fall (Unint.) 12,421
2	MVT (Unint.) **58,695**	MVT (Unint.) 48,679	Poison (Unint.) 7,697	MVT (Unint.) 2,465	MVT (Unint.) 29,182	MVT (Unint.) 4,719	MVT (Unint.) 19,497	Poison (Unint.) 3,168
3	Poison (Self-Inf.) **37,236**	Poison (Self-Inf.) 30,854	MVT (Unint.) 7,551	Poison (Self-Inf.) 1,955	Poison (Self-Inf.) 12,551	Poison (Unint.) 4,529	Poison (Self-Inf.) 18,303	MVT (Unint.) 2,832
4	Poison (Unint.) **32,238**	Poison (Unint.) 23,287	Poison (Self-Inf.) 4,427	Poison (Unint.) 1,254	Poison (Unint.) 11,726	Firearm (Assault) 3,549	Poison (Unint.) 11,561	Poison (Self-Inf.) 2,447
5	Nat./Env. (Unint.) **15,390**	Nat/Env. (Unint.) 12,724	Firearm (Assualt) 3,780	Struck By (Assault) 666	Transport (Unint.) 8,572	Struck By (Assault) 2,794	Nat/Env. (Unint.) 6,790	Nat/Env. (Unint.) 1,011
6	Struck By (Unint.) **14,426**	Struck By (Unint.) 12,320	Struck By (Assault) 3,453	Fire/Burn (Unint.) 479	Struck By (Unint.) 7,846	Poison (Undet.) 2,024	Overexert. (Unint.) 5,207	Poison (Undet.) 1,010
7	Transport (Unint.) **13,373**	Transport (Unint.) 12,211	Poison (Undet.) 3,034	Nat/Env. (Unint.) 455	Nat/Env. (Unint.) 5,934	Poison (Self-Inf.) 1,980	Struck By (Unint.) 4,474	Fire/Burn (Unint.) 760
8	Overexert. (Unint.) **10,657**	Overexert. (Unint.) 9,353	Nat/Env. (Unint.) 2,211	Poison (Undet.) 453	Overexert. (Unint.) 4,146	Cut/Pierce (Assault) 1,258	Transport (Unint.) 3,639	Struck By (Assault) 659
9	Poison (Undet.) **10,588**	Poison (Undet.) 7,101	Struck By (Unint.) 1,659	Struck By (Unint.) 447	Cut/Pierce (Unint.) 4,064	Nat/Env. (Unint.) 1,200	Poison (Undet.) 3,323	Struck By (Unint.) 488
10	Struck By (Assault) **9,044**	Suffocation (Unint.) 6,286	Fire/Burn (Unint.) 1,642	Suffocation (Unint.) 432	Struck By (Assault) 4,034	Struck By (Unint.) 1,171	Suffocation (Unint.) 3,061	Overexert. (Unint.) 469

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: 2007-2011

PENNSYLVANIA RESIDENTS BY RACE AND AGE GROUP

	Age 0-19		Age 20-34		Age 35-49		Age 50-64		Age 65+	
RANK	White	Black	White	Black	White	Black	White	Black	White	Black
1	Fall (Unint.) 6,661	Fall (Unint.) 1,573	MVT (Unint.) 12,411	MVT (Unint.) 2,441	Fall (Unint.) 17,572	Fall (Unint.) 3,559	Fall (Unint.) 41,541	Fall (Unint.) 5,896	Fall (Unint.) 222,264	Fall (Unint.) 10,265
2	MVT (Unint.) 6,130	MVT (Unint.) 1,481	Poison (Self-Inf.) 9,860	Firearm (Assault) 2,187	Poison (Self-Inf.) 10,809	Poison (Unint.) 2,776	MVT (Unint.) 9,694	Poison (Unint.) 2,663	MVT (Unint.) 10,125	Poison (Unint.) 893
3	Transport (Unint.) 3,146	Firearm (Assault) 946	Fall (Unint.) 7,773	Fall (Unint.) 1,789	MVT (Unint.) 10,319	MVT (Unint.) 1,725	Fall (Unint.) 5,677	MVT (Unint.) 1,289	Poison (Unint.) 5,567	MVT (Unint.) 615
4	Poison (Self-Int.) 3,058	Struck By (Unint.) 603	Poison (Unint.) 4,757	Poison (Self-Inf.) 1,456	Poison (Unint.) 5,573	Poison (Self-Inf.) 1,651	Poison (Self-Inf.) 5,633	Poison (Undet.) 1,159	Suffocation (Unint.) 4,309	Nat/Env. (Unint.) 606
5	Struck By (Unint.) 2,549	Poison (Self-Int.) 563	Transport (Unint.) 2,491	Struck By (Assault) 1,150	Transport (Unint.) 2,504	Poison (Undet.) 1,273	Nat/Env. (Unint.) 3,269	Poison (Self-Inf.) 686	Struck By (Unint.) 4,284	Suffocation (Unint.) 409
6	Poison (Unint.) 1,713	Poison (Unint.) 556	Poison (Undet.) 2,184	Poison (Unint.) 809	Nat/Env. (Unint.) 2,462	Struck By (Assault) 1,128	Transport (Unint.) 2,222	Struck By (Assault) 560	Nat/Env. (Unint.) 4,272	Fire/Burn (Unint.) 247
7	Nat/Env. (Unint.) 1,279	Struck By (Assault) 541	Cut/Pierce (Self-Inf.) 2,028	Cut/Pierce (Assault) 681	Poison (Undet.) 2,307	Firearm (Assault) 512	Overexert. (Unint.) 2,108	Nat/Env. (Unint.) 545	Overexert. (Unint.) 4,117	Overexert. (Unint.) 176
8	Fire/Burn (Unint.) 937	Fire/Burn (Unint.) 502	Struck By (Assault) 1,987	Poison (Undet.) 365	Struck By (Unint.) 1,831	Cut/Pierce (Assault) 437	Struck By (Unint.) 2,036	Fire/Burn (Unint.) 362	Transport (Unint.) 1,848	Struck By (Unint.) 171
9	Cut/Pierce (Self-Inf.) 843	Nat/Env. (Unint.) 370	Struck By (Unint.) 1,620	Firearm (Unint.) 352	Overexert. (Unint.) 1,705	Nat/Env. (Unint.) 431	Poison (Undet.) 1,605	Struck By (Unint.) 258	Fire/Burn (Unint.) 1,598	Poison (Undet.) 154
10	Cut/Pierce (Unint.) 579	Transport (Unint.) 271	Nat/Env. (Unint.) 1,442	Struck By (Unint.) 318	Struck By (Assault) 1,430	Fire/Burn (Unint.) 323	Fire/Burn (Unint.) 1,427	Overexert. (Unint.) 250	Poison (Self-Inf.) 1,494	Cut/Pierce (Unint.) 75

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: 2007-2011

PENNSYLVANIA RESIDENTS BY INJURY INTENT, BRAIN INJURY, AND GENDER

	INTENT		UNINT.		VIOLENCE		TBI		
RANK	Unint.	Violence	Males	Females	Males	Females	Total	Males	Females
1	Fall (Unint.) 324,720	Poison (Self-Inf.) 37,236	Fall (Unint.) 121,513	Fall (Unint.) 203,207	Poison (Self-Inf.) 15,344	Poison (Self-Inf.) 21,892	Fall (Unint.) 46,651	Fall (Unint.) 23,149	Fall (Unint.) 23,502
2	MVT (Unint.) 58,695	Struck By (Assault) 9,044	MVT (Unint.) 35,466	MVT (Unint.) 23,229	Struck By (Assault) 7,402	Cut/Pierce (Self-Inf.) 2,768	MVT (Unint.) 23,414	MVT (Unint.) 14,956	MVT (Unint.) 8,458
3	Poison (Unint.) 32,238	Cut/Pierce (Self-Inf.) 5,556	Poison (Unint.) 16,964	Poison (Unint.) 15,274	Firearm (Assault) 4,392	Struck By (Assault) 1,642	Transport (Unint.) 3,991	Struck By (Assault) 3,335	Transport (Unint.) 1,048
4	Nat/Env. (Unint.) 15,390	Firearm (Assault) 4,724	Transport (Unint.) 9,482	Nat/Env. (Unint.) 7,997	Cut/Pierce (Self-Inf.) 2,788	Cut/Pierce (Assault) 402	Struck By (Assault) 3,797	Transport (Unint.) 2,943	Struck By (Unint.) 750
5	Struck By (Unint.) 14,426	Cut/Pierce (Assault) 2,855	Struck By (Unint.) 9,347	Overexert. (Unint.) 5,779	Cut/Pierce (Assault) 2,453	Firearm (Assault) 332	Struck By (Unint.) 2,476	Struck By (Unint.) 1,726	Struck By (Assault) 462
6	Transport (Unint.) 13,373	Suffocation (Self-Inf.) 652	Nat/Env. (Unint.) 7,393	Struck By (Unint.) 5,079	Suffocation (Self-Inf.) 459	Suffocation (Self-Inf.) 193	Firearm (Assault) 431	Firearm (Assault) 384	Nat/Env. (Unint.) 72
7	Overexert. (Unint.) 10,657	Firearm (Self-Inf.) 397	Fire/Burn (Unint.) 5,097	Transport (Unint.) 3,891	Firearm (Self-Inf.) 340	Fall (Self-Inf.) 117	Firearm (Self-Inf.) 219	Firearm (Self-Inf.) 199	Firearm (Assault) 47
8	Fire/Burn (Unint.) 8,354	Fall (Self-Inf.) 339	Cut/Pierce (Unint.) 5,069	Suffocation (Unint.) 3,697	Fall (Self-Inf.) 222	Fire/Burn (Self-Inf.) 113	Machinery (Unint.) 205	Machinery (Unint.) 191	Poison (Unint.) 45
9	Suffocation (Unint.) 7,541	Fire/Burn (Self-Inf.) 204	Overexert. (Unint.) 4,878	Fire/Burn (Unint.) 3,257	Fire/Burn (Self-Inf.) 91	Firearm (Self-Inf.) 57	Nat/Env. (Unint.) 187	Cut/Pierce (Assault) 149	Poison (Self-Inf.) 35
10	Cut/Pierce (Unint.) 7,018	MVT (Self-Inf.) 98	Suffocation (Unint.) 3,844	Cut/Pierce (Unint.) 1,949	MVT (Self-Inf.) 60	MVT (Self-Inf.) 38	Cut/Pierce (Assault) 173	Nat/Env. (Unint.) 115	Fall (Self-Inf.) 25

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 2011, among Pennsylvania residents, there were 139,804 hospitalizations due to injury. Total treatment charges for these injuries exceeded $7.80 billion.

Overview

Treatment charges are from hospital billing data. Note: these figures may be greater than amounts actually paid by insurance providers.

Mean charges are not shown because treatment charges are highly skewed. Median charges are more reflective of typical costs.

Treatment charges generally increase over time. Median charges for injury hospitalizations overall have increased by 32 percent from 2007 to 2011.

HIGHLIGHTS

- Total treatment charges for unintentional falls exceeded **$3.41 billion** in 2011**.**
- The median charges were highest for **firearm**.
- **Insurance coverage** differed among MVT accidents, falls and firearm-related injuries.

Total Injury Cost Burden

- In 2011, unintentional falls hospitalizations accounted for $3.41 billion in total charges or 44 percent of the total charges for all injury hospitalizations.
- Unintentional MVT injury hospitalizations accounted for over $1.05 billion in total charges.
- Other large cost burdens included poisoning hospitalizations (with $552 million in total charges) and assault injury hospitalizations (with $414 million in total charges).

Highest Median Charges

- Hospitalizations for assault by fire/flames had the highest median treatment charges of any major injury. At $270,681, median charges for assault by fire/flames were over nine times the median charges for injury hospitalizations overall ($29,978).
- Among hospitalizations due to MVT accidents, pedestrians and motorcyclists had the highest median treatment charges, greater than those of motor vehicle occupants.
- Hospitalizations involving traumatic brain injury (TBI) generally had higher median treatment charges than other hospitalizations by the same external cause.

Charges by Primary Payor

- Medicare was the primary payor on most unintentional falls hospitalizations. In 2011, Medicare was billed over $2.46 billion dollars to treat falls (72 percent of the total).
- Medicaid was typically the primary payor on poisoning hospitalizations. In 2011, Medicaid was billed over $204 million to treat poisonings (37 percent of the total).
- Commercial providers were the primary payor on most MVT hospitalizations. In 2011, these plans were billed over $837 million to treat MVT injuries (78 percent of the total).

SUMMARY TABLE: HOSPITALIZATION CHARGES

TOTAL NUMBER, CHARGES, MEDIAN CHARGES AND PRIMARY PAYOR BY MECHANISM AND BRAIN INJURY, PENNSYLVANIA RESIDENTS, 2011

Injury Mechanism	All Injury Hospitalizations			Primary Payor			Injuries with TBI			Injuries without TBI		
	No.	Sum	Median	Medicare	Medicaid	Commercial	No.	Sum	Median	No.	Sum	Median
Fall	66,745	$3,410,448,762	$31,548	72%	7%	16%	9,923	$663,160,743	$36,013	56,822	$2,747,288,019	$30,941
→ On same level	19,832	$913,849,190	$31,028	74%	6%	17%	2,010	$103,071,586	$30,170	17,822	$810,777,604	$31,132
→ One level to another	15,826	$976,699,615	$35,409	59%	12%	24%	3,303	$260,481,042	$41,340	12,523	$716,218,573	$33,922
→ Unspecified	31,087	$1,519,899,957	$30,259	79%	6%	12%	4,610	$299,608,115	$34,865	26,477	$1,220,291,842	$29,585
Poisoning	16,936	$552,311,568	$16,539	25%	37%	27%	51	$2,108,872	$21,303	16,885	$550,202,697	$16,522
→ Drug	15,527	$501,474,258	$16,443	25%	37%	27%	43	$1,739,738	$20,344	15,484	$499,734,520	$16,429
→ Non-Drug	1,409	$50,837,311	$17,322	25%	34%	29%	8	$369,134	$35,076	1,401	$50,468,177	$17,298
Motor Vehicle Traffic	11,414	$1,051,345,258	$44,600	5%	11%	78%	4,138	$447,478,406	$47,133	7,276	$603,866,853	$43,125
→ MVT Occupant	7,663	$628,442,811	$41,164	3%	7%	84%	2,849	$261,947,810	$43,369	4,814	$366,495,001	$39,769
→ MVT Motorcyclist	1,525	$170,366,319	$54,037	6%	18%	68%	498	$68,003,119	$58,746	1,027	$102,363,200	$52,840
→ MVT Pedal Cyclist	251	$23,187,815	$48,083	4%	27%	58%	117	$9,321,713	$42,095	134	$13,866,102	$49,517
→ MVT Pedestrian	1,277	$164,894,121	$54,330	9%	25%	59%	523	$87,289,853	$58,688	754	$77,604,268	$52,401
→ MVT Other	63	$5,026,380	$43,035	20%	20%	57%	23	$1,591,298	$42,630	40	$3,435,082	$45,497
→ MVT Unspecified	635	$59,427,813	$44,129	14%	13%	66%	128	$19,324,613	$87,048	507	$40,103,200	$40,660
All Pedal Cyclist	725	$34,046,722	$31,165	11%	24%	56%	227	$11,646,666	$31,534	498	$22,400,056	$30,793
All Pedestrian	98	$7,468,986	$43,820	15%	15%	65%	24	$2,696,013	$63,170	74	$4,772,973	$41,410
Other Transport	49	$4,681,491	$45,537	18%	-	79%	11	$839,272	$67,459	38	$3,842,218	$40,974
Firearm	1,486	$218,650,899	$72,198	5%	61%	18%	152	$30,770,847	$79,073	1,334	$187,880,052	$71,846
Drowning	80	$6,196,295	$24,723	17%	42%	25%	3	$247,213	$17,799	77	$5,949,082	$24,799
Suffocation	1,891	$215,051,735	$50,645	68%	13%	16%	10	$2,013,959	$103,703	1,881	$213,037,776	$50,489
Fire/Flames	861	$144,078,943	$40,331	31%	26%	35%	5	$2,340,807	$76,202	856	$141,738,136	$40,289
Hot Object/Scald	1,007	$76,966,965	$29,461	28%	33%	32%	3	$722,286	$282,132	1,004	$76,244,678	$29,412
Cut/Pierce	2,956	$116,229,125	$19,980	16%	33%	37%	48	$3,655,194	$44,735	2,908	$112,573,930	$19,693
Struck By/Against	4,736	$229,624,905	$28,112	24%	29%	34%	1,176	$70,815,385	$33,080	3,560	$158,809,520	$26,540
Machinery	549	$29,498,888	$32,120	17%	7%	67%	46	$2,664,522	$32,656	503	$26,834,366	$32,120
Overexertion	1,769	$68,018,791	$24,560	44%	12%	39%	3	$95,899	$9,349	1,766	$67,922,892	$24,580
Nat/Env. Causes	3,356	$119,306,626	$17,274	38%	20%	35%	32	$2,184,428	$29,125	3,324	$117,122,198	$17,099
→ Bites and Stings	2,090	$47,883,418	$13,760	29%	21%	42%	3	$170,359	$27,510	2,087	$47,713,059	$13,736
Other Spec./NEC	12,433	$769,493,232	$32,070	47%	20%	27%	314	$24,180,018	$39,078	12,119	$745,313,214	$31,825
Unspecified	11,114	$651,493,269	$31,755	57%	15%	23%	581	$51,939,411	$45,307	10,533	$599,553,858	$30,987
Total: All Mechanisms	139,804	$7,804,275,367	$29,978	51%	16%	27%	17,163	$1,355,085,656	$38,785	122,641	$6,449,189,712	$28,907

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, 2011

Injury Mechanism	Unintentional Injury			Self-Inflicted Injury			Assault Injury			Undetermined Injury		
	No.	Sum	Median	No.	Sum	Median	No.	Sum	Median	No.	Sum	Median
Fall	66,655	$3,395,279,849	$31,521	78	$12,273,538	$73,172	6	$275,063	$16,106	48	$4,881,930	$43,284
→ On same level	19,851	$915,208,370	$31,042	0	$0	$0	0	$0	$0	0	$0	$0
→ One level to another	15,700	$959,414,752	$35,280	78	$12,273,538	$73,172	6	$275,063	$16,106	48	$4,881,930	$43,284
→ Unspecified	31,104	$1,520,656,727	$30,258	0	$0	$0	0	$0	$0	0	$0	$0
Poisoning	7,047	$265,827,258	$18,710	7,583	$193,087,009	$14,033	9	$606,819	$43,017	2,317	$93,328,549	$20,150
→ Drug	6,287	$239,708,828	$18,975	7,208	$178,074,566	$13,847	5	$336,052	$54,160	2,044	$83,831,229	$20,566
→ Non-Drug	760	$26,118,430	$17,039	375	$15,012,443	$18,243	4	$270,767	$27,157	273	$9,497,319	$17,682
Motor Vehicle Traffic	11,384	$1,049,351,508	$44,678	19	$1,484,560	$32,289	7	$525,571	$31,113	5	$165,118	$26,073
→ MVT Occupant	7,633	$626,449,061	$41,268	19	$1,484,560	$32,289	7	$525,571	$31,113	5	$165,118	$26,073
→ MVT Motorcyclist	1,525	$170,366,319	$54,037	0	$0	$0	0	$0	$0	0	$0	$0
→ MVT Pedal Cyclist	251	$23,187,815	$48,083	0	$0	$0	0	$0	$0	0	$0	$0
→ MVT Pedestrian	1,277	$164,894,121	$54,330	0	$0	$0	0	$0	$0	0	$0	$0
→ MVT Other	63	$5,026,380	$43,035	0	$0	$0	0	$0	$0	0	$0	$0
→ MVT Unspecified	635	$59,427,813	$44,129	0	$0	$0	0	$0	$0	0	$0	$0
All Pedal Cyclist	725	$34,046,722	$31,165	0	$0	$0	0	$0	$0	0	$0	$0
All Pedestrian	98	$7,468,986	$43,820	0	$0	$0	0	$0	$0	0	$0	$0
Other Transport	50	$4,704,750	$43,379	0	$0	$0	0	$0	$0	0	$0	$0
Firearm	302	$37,454,144	$55,530	92	$9,169,761	$55,255	1,004	$162,229,532	$82,688	75	$6,744,437	$63,708
Drowning	73	$5,982,222	$25,302	6	$135,829	$16,637	0	$0	$0	1	$78,244	$78,244
Suffocation	1,734	$206,742,897	$55,238	148	$8,789,920	$28,468	10	$212,170	$19,546	2	$97,058	$48,529
Fire/Flames	789	$121,034,199	$40,483	44	$18,638,818	$31,305	5	$2,951,717	$270,681	24	$1,460,987	$36,655
Hot Object/Scald	993	$74,957,212	$29,271	4	$159,283	$40,942	8	$1,570,475	$67,738	3	$350,310	$56,488
Cut/Pierce	1,300	$44,494,250	$21,531	1,086	$30,240,938	$11,043	551	$40,977,722	$44,253	21	$573,285	$18,773
Struck By/Against	2,894	$125,396,595	$24,097	0	$0	$0	1,797	$100,747,090	$35,581	0	$0	$0
Machinery	549	$29,498,888	$32,120	0	$0	$0	0	$0	$0	0	$0	$0
Overexertion	1,770	$68,066,410	$24,580	0	$0	$0	0	$0	$0	0	$0	$0
Nat/Env. Causes	3,302	$115,460,298	$17,021	2	$34,491	$17,245	0	$0	$0	54	$3,827,862	$34,906
→ Bites and Stings	2,091	$47,892,923	$13,760	0	$0	$0	0	$0	$0	0	$0	$0
Other Spec./NEC	10,650	$661,399,020	$32,058	321	$14,638,265	$22,603	965	$59,903,172	$34,139	393	$26,907,880	$33,982
Unspecified	9,943	$549,449,416	$30,773	51	$1,060,977	$9,145	590	$44,220,723	$43,965	534	$57,269,782	$41,343
Total: All Mechanisms	123,649	$7,002,886,978	$31,082	9,434	$289,713,388	$14,320	4,952	$414,220,055	$42,189	3,477	$195,685,441	$24,580

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, 2011

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	435	$12,045,632	$19,506	0%	57%	36%	151	$4,407,402	$18,896	284	$7,638,230	$20,112
5-9	Unint. Falls	411	$11,346,342	$20,164	0%	38%	55%	74	$1,670,542	$17,603	337	$9,675,801	$20,989
10-14	Unint. Falls	394	$12,760,210	$22,390	0%	31%	60%	86	$2,759,453	$21,234	308	$10,000,757	$22,939
15-19	MVT Occupant	725	$60,192,065	$40,026	0%	8%	89%	347	$29,374,272	$37,705	378	$30,817,793	$43,694
20-24	MVT Occupant	1,001	$81,630,022	$42,381	0%	10%	83%	476	$45,148,316	$43,013	525	$36,481,706	$41,788
25-29	Self-Poisoning	1,522	$44,455,219	$13,692	9%	49%	26%	5	$77,341	$14,232	1,517	$44,377,878	$13,689
30-34	Self-Poisoning	1,434	$36,402,320	$13,714	14%	46%	26%	1	$56,351	$56,351	1,433	$36,345,969	$13,711
35-39	Unint. Falls	916	$51,877,862	$31,622	12%	32%	46%	141	$11,302,830	$35,953	775	$40,575,032	$30,758
40-44	Unint. Falls	1,370	$81,621,698	$33,606	15%	31%	42%	235	$18,256,355	$39,464	1,135	$63,365,343	$32,928
45-49	Unint. Falls	2,082	$120,759,156	$32,712	19%	30%	42%	379	$28,694,095	$39,765	1,703	$92,065,061	$31,218
50-54	Unint. Falls	2,915	$180,124,557	$32,752	23%	26%	43%	482	$37,959,463	$40,848	2,433	$142,165,095	$31,284
55-59	Unint. Falls	3,531	$217,887,060	$35,213	27%	20%	47%	557	$46,825,684	$41,581	2,974	$171,061,377	$34,068
60-64	Unint. Falls	4,165	$247,703,996	$35,396	31%	16%	47%	636	$54,914,641	$41,716	3,529	$192,789,355	$34,483
65-69	Unint. Falls	4,478	$259,955,291	$33,986	82%	1%	15%	641	$52,481,834	$39,339	3,837	$207,473,457	$33,152
70-74	Unint. Falls	4,993	$274,155,664	$32,951	90%	0%	7%	743	$53,951,616	$38,931	4,250	$220,204,049	$32,183
75-79	Unint. Falls	7,094	$382,172,005	$33,294	93%	0%	5%	1,079	$85,543,145	$39,809	6,015	$296,628,860	$32,162
80-84	Unint. Falls	10,714	$530,117,069	$31,838	95%	0%	3%	1,541	$94,765,125	$37,596	9,173	$435,351,944	$31,253
85+	Unint. Falls	20,627	$883,547,451	$29,648	95%	0%	3%	2,634	$129,142,634	$31,601	17,993	$754,404,816	$29,463
Total:	Unint. Falls	66,745	$3,410,448,762	$31,548	72%	7%	16%	9,923	$663,160,743	$36,013	56,822	$2,747,288,019	$30,941

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.

INJURY HOSPITALIZATION RATES: PENNSYLVANIA

NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES
MECHANISM BY INTENT, PENNSYLVANIA RESIDENTS, 2011

Injury Mechanism	Ages 0-4		Ages 5-9		Ages 10-14		Ages 15-19		Ages 20-24		Ages 25-29		Ages 30-34		Ages 35-39		Ages 40-44	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Fall	435	60.1	411	54.9	394	50.2	486	54.8	648	73.3	724	90.9	763	101.7	916	125.5	1,370	161.9
→ On same level	49	6.8	85	11.4	163	20.8	165	18.6	177	20.0	171	21.5	189	25.2	241	33.0	334	39.5
→ One level to another	304	42.0	261	34.9	138	17.6	174	19.6	267	30.2	327	41.1	332	44.2	365	50.0	517	61.1
→ Unspecified	82	11.3	65	8.7	93	11.8	147	16.6	204	23.1	226	28.4	242	32.2	310	42.5	519	61.3
Poisoning	200	27.6	43	5.7	144	18.3	1,048	118.2	1,567	177.2	1,526	191.6	1,436	191.3	1,361	186.5	1,601	189.2
→ Drug	150	20.7	35	4.7	122	15.5	987	111.4	1,470	166.3	1,435	180.2	1,339	178.4	1,254	171.8	1,469	173.6
→ Non-Drug	50	6.9	8	1.1	22	2.8	61	6.9	97	11.0	91	11.4	97	12.9	107	14.7	132	15.6
Motor Vehicle Traffic	102	14.1	185	24.7	225	28.7	976	110.1	1,380	156.1	1,014	127.3	746	99.4	711	97.4	799	94.4
→ MVT Occupant	53	7.3	64	8.6	73	9.3	725	81.8	1,001	113.2	699	87.8	517	68.9	463	63.4	520	61.5
→ MVT Motorcyclist	0	NSR	0	NSR	15	1.9	61	6.9	169	19.1	159	20.0	127	16.9	135	18.5	146	17.3
→ MVT Pedal Cyclist	3	NSR	22	2.9	38	4.8	29	3.3	28	3.2	19	2.4	12	1.6	7	NSR	8	NSR
→ MVT Pedestrian	45	6.2	98	13.1	97	12.4	118	13.3	89	10.1	79	9.9	55	7.3	59	8.1	70	8.3
→ MVT Other	1	NSR	0	NSR	1	NSR	9	NSR	5	NSR	5	NSR	2	NSR	1	NSR	6	NSR
→ MVT Unspecified	0	NSR	1	NSR	1	NSR	34	3.8	88	10.0	53	6.7	33	4.4	46	6.3	49	5.8
All Pedal Cyclist	9	NSR	55	7.4	107	13.6	48	5.4	41	4.6	39	4.9	36	4.8	40	5.5	34	4.0
All Pedestrian	3	NSR	4	NSR	2	NSR	2	NSR	8	NSR	6	NSR	4	NSR	3	NSR	7	NSR
Other Transport	1	NSR	0	NSR	1	NSR	5	NSR	1	NSR	3	NSR	4	NSR	3	NSR	5	NSR
Firearm	4	NSR	4	NSR	26	3.3	285	32.2	394	44.6	243	30.5	158	21.1	96	13.2	85	10.0
Drowning	22	3.0	9	NSR	6	NSR	4	NSR	3	NSR	4	NSR	2	NSR	0	NSR	5	NSR
Suffocation	24	3.3	17	2.3	5	NSR	29	3.3	49	5.5	37	4.6	37	4.9	40	5.5	72	8.5
Fire/Flames	27	3.7	18	2.4	28	3.6	33	3.7	46	5.2	62	7.8	53	7.1	55	7.5	59	7.0
Hot Object/Scald	183	25.3	32	4.3	18	2.3	20	2.3	45	5.1	48	6.0	55	7.3	50	6.9	74	8.7
Cut/Pierce	23	3.2	32	4.3	89	11.3	266	30.0	419	47.4	341	42.8	284	37.8	216	29.6	241	28.5
Struck By/Against	82	11.3	75	10.0	240	30.6	442	49.9	449	50.8	376	47.2	326	43.4	261	35.8	321	37.9
Machinery	8	NSR	8	NSR	9	NSR	23	2.6	19	2.1	39	4.9	40	5.3	28	3.8	53	6.3
Overexertion	1	NSR	4	NSR	26	3.3	67	7.6	74	8.4	74	9.3	69	9.2	74	10.1	98	11.6
Nat/Env. Causes	106	14.6	64	8.6	70	8.9	74	8.3	143	16.2	135	16.9	155	20.7	151	20.7	216	25.5
→ Bites and Stings	84	11.6	56	7.5	45	5.7	53	6.0	116	13.1	105	13.2	115	15.3	118	16.2	162	19.1
Other Spec./NEC	180	24.9	137	18.3	169	21.5	347	39.1	556	62.9	640	80.4	561	74.7	567	77.7	840	99.3
Unspecified	68	9.4	40	5.3	83	10.6	177	20.0	308	34.8	347	43.6	365	48.6	365	50.0	520	61.5
Total: All Mechanisms	1,488	205.6	1,177	157.3	1,748	222.7	4,508	508.6	6,287	711.1	5,754	722.4	5,199	692.7	5,022	688.0	6,517	770.1

NOTES: Data based on ICD-9-CM codes. Age-specific rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATION RATES: PENNSYLVANIA

NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES
MECHANISM BY INTENT, PENNSYLVANIA RESIDENTS, 2011

Injury Mechanism	Ages 45-49		Ages 50-54		Ages 55-59		Ages 60-64		Ages 65-69		Ages 70-74		Ages 75-79		Ages 80-84		Ages 85+	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Fall	2,084	224.9	2,918	295.0	3,533	390.5	4,167	527.4	4,479	793.3	4,994	1,147.2	7,101	1,988.2	10,723	3,479.9	20,641	6,525.0
→ On same level	514	55.5	800	80.9	1,058	116.9	1,172	148.3	1,401	248.1	1,504	345.5	2,238	626.6	3,373	1,094.6	6,217	1,965.3
→ One level to another	768	82.9	969	98.0	1,097	121.2	1,207	152.8	1,125	199.3	1,133	260.3	1,510	422.8	1,943	630.6	3,395	1,073.2
→ Unspecified	802	86.5	1,149	116.2	1,378	152.3	1,788	226.3	1,953	345.9	2,357	541.4	3,353	938.8	5,407	1,754.7	11,029	3,486.4
Poisoning	2,057	222.0	1,935	195.6	1,338	147.9	839	106.2	508	90.0	375	86.1	336	94.1	303	98.3	339	107.2
→ Drug	1,900	205.0	1,771	179.1	1,197	132.3	761	96.3	447	79.2	345	79.2	295	82.6	270	87.6	297	93.9
→ Non-Drug	157	16.9	164	16.6	141	15.6	78	9.9	61	10.8	30	6.9	41	11.5	33	10.7	42	13.3
Motor Vehicle Traffic	841	90.7	887	89.7	772	85.3	680	86.1	448	79.3	472	108.4	417	116.8	393	127.5	367	116.0
→ MVT Occupant	470	50.7	536	54.2	478	52.8	432	54.7	329	58.3	345	79.2	329	92.1	327	106.1	303	95.8
→ MVT Motorcyclist	212	22.9	186	18.8	131	14.5	108	13.7	38	6.7	23	5.3	11	3.1	3	NSR	1	NSR
→ MVT Pedal Cyclist	27	2.9	16	1.6	16	1.8	7	NSR	7	NSR	3	NSR	4	NSR	3	NSR	2	NSR
→ MVT Pedestrian	83	9.0	84	8.5	94	10.4	91	11.5	42	7.4	67	15.4	37	10.4	35	11.4	34	10.7
→ MVT Other	7	NSR	4	NSR	6	NSR	5	NSR	3	NSR	4	NSR	2	NSR	1	NSR	1	0.3
→ MVT Unspecified	42	4.5	61	6.2	47	5.2	37	4.7	29	5.1	30	6.9	34	9.5	24	7.8	26	8.2
All Pedal Cyclist	65	7.0	79	8.0	53	5.9	49	6.2	27	4.8	20	4.6	9	NSR	8	NSR	6	NSR
All Pedestrian	5	NSR	9	NSR	8	NSR	7	NSR	8	NSR	4	NSR	4	NSR	6	NSR	8	NSR
Other Transport	7	NSR	3	NSR	6	NSR	3	NSR	3	NSR	0	NSR	2	NSR	0	NSR	3	NSR
Firearm	59	6.4	48	4.9	25	2.8	17	2.2	11	1.9	4	NSR	7	NSR	7	NSR	13	4.1
Drowning	4	NSR	0	NSR	3	NSR	3	NSR	2	NSR	4	NSR	3	NSR	3	NSR	3	NSR
Suffocation	70	7.6	102	10.3	139	15.4	130	16.5	149	26.4	181	41.6	210	58.8	237	76.9	366	115.7
Fire/Flames	61	6.6	90	9.1	79	8.7	67	8.5	48	8.5	34	7.8	27	7.6	32	10.4	43	13.6
Hot Object/Scald	62	6.7	78	7.9	74	8.2	69	8.7	42	7.4	38	8.7	34	9.5	39	12.7	47	14.9
Cut/Pierce	260	28.1	246	24.9	172	19.0	110	13.9	75	13.3	59	13.6	42	11.8	35	11.4	49	15.5
Struck By/Against	367	39.6	340	34.4	296	32.7	209	26.5	156	27.6	136	31.2	168	47.0	190	61.7	304	96.1
Machinery	47	5.1	71	7.2	54	6.0	51	6.5	19	3.4	27	6.2	13	3.6	21	6.8	19	6.0
Overexertion	125	13.5	148	15.0	156	17.2	161	20.4	131	23.2	114	26.2	112	31.4	146	47.4	190	60.1
Nat/Env. Causes	259	27.9	310	31.3	338	37.4	238	30.1	208	36.8	188	43.2	174	48.7	210	68.2	319	100.8
→ Bites and Stings	181	19.5	204	20.6	200	22.1	143	18.1	130	23.0	99	22.7	92	25.8	89	28.9	99	31.3
Other Spec./NEC	1,021	110.2	1,068	108.0	982	108.5	885	112.0	845	149.7	718	164.9	815	228.2	861	279.4	1,249	394.8
Unspecified	686	74.0	790	79.9	850	93.9	871	110.2	838	148.4	848	194.8	964	269.9	1,120	363.5	1,885	595.9
Total: All Mechanisms	8,185	883.2	9,264	936.7	8,996	994.3	8,635	1,092.9	8,054	1,426.5	8,266	1,898.8	10,489	2,936.9	14,404	4,674.5	25,907	8,189.6

NOTES: Data based on ICD-9-CM codes. Age-specific rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATION RATES: MALES

NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES
MECHANISM BY INTENT, PENNSYLVANIA RESIDENTS, 2011

Injury Mechanism	Ages 0-4		Ages 5-9		Ages 10-14		Ages 15-19		Ages 20-24		Ages 25-29		Ages 30-34		Ages 35-39		Ages 40-44	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Fall	204	55.2	201	52.7	243	60.6	305	67.4	366	81.7	380	94.7	400	106.6	482	132.6	718	171.1
→ On same level	26	7.0	39	10.2	99	24.7	112	24.7	104	23.2	66	16.4	84	22.4	106	29.2	141	33.6
→ One level to another	144	38.9	125	32.7	84	20.9	100	22.1	161	35.9	206	51.3	192	51.2	206	56.7	304	72.4
→ Unspecified	34	9.2	37	9.7	60	15.0	93	20.5	101	22.6	108	26.9	124	33.1	170	46.8	273	65.1
Poisoning	94	25.4	15	3.9	29	7.2	388	85.7	718	160.3	696	173.4	648	172.7	601	165.3	710	169.2
→ Drug	68	18.4	10	2.6	21	5.2	357	78.8	671	149.8	654	162.9	586	156.2	534	146.9	636	151.5
→ Non-Drug	26	7.0	5	NSR	8	NSR	31	6.8	47	10.5	42	10.5	62	16.5	67	18.4	74	17.6
Motor Vehicle Traffic	46	12.4	92	24.1	128	31.9	527	116.4	780	174.2	545	135.8	427	113.8	374	102.9	429	102.2
→ MVT Occupant	21	5.7	23	6.0	29	7.2	367	81.0	523	116.8	338	84.2	268	71.4	220	60.5	253	60.3
→ MVT Motorcyclist	0	NSR	0	NSR	9	NSR	51	11.3	128	28.6	113	28.2	107	28.5	104	28.6	112	26.7
→ MVT Pedal Cyclist	1	NSR	15	3.9	29	7.2	22	4.9	17	3.8	14	3.5	9	NSR	5	NSR	7	NSR
→ MVT Pedestrian	23	6.2	53	13.9	59	14.7	62	13.7	56	12.5	49	12.2	27	7.2	23	6.3	31	7.4
→ MVT Other	1	NSR	0	NSR	1	NSR	8	NSR	3	NSR	4	NSR	2	NSR	1	NSR	4	NSR
→ MVT Unspecified	0	NSR	1	NSR	1	NSR	17	3.8	53	11.8	27	6.7	14	3.7	21	5.8	22	5.2
All Pedal Cyclist	6	NSR	32	8.4	78	19.4	37	8.2	27	6.0	26	6.5	24	6.4	29	8.0	25	6.0
All Pedestrian	1	NSR	4	NSR	2	NSR	2	NSR	5	NSR	4	NSR	3	NSR	3	NSR	6	NSR
Other Transport	1	NSR	0	NSR	0	NSR	2	NSR	1	NSR	1	NSR	3	NSR	2	NSR	4	NSR
Firearm	2	NSR	1	NSR	20	5.0	229	50.6	321	71.7	196	48.8	120	32.0	75	20.6	67	16.0
Drowning	16	4.3	6	NSR	2	NSR	4	NSR	2	NSR	1	NSR	1	NSR	0	NSR	1	NSR
Suffocation	10	2.7	6	NSR	2	NSR	13	2.9	32	7.1	23	5.7	20	5.3	24	6.6	33	7.9
Fire/Flames	18	4.9	9	NSR	22	5.5	23	5.1	28	6.3	37	9.2	23	6.1	32	8.8	26	6.2
Hot Object/Scald	73	19.7	12	3.1	11	2.7	13	2.9	27	6.0	27	6.7	27	7.2	28	7.7	39	9.3
Cut/Pierce	13	3.5	23	6.0	32	8.0	131	28.9	248	55.4	190	47.3	158	42.1	132	36.3	149	35.5
Struck By/Against	43	11.6	47	12.3	172	42.9	339	74.9	333	74.4	263	65.5	211	56.2	188	51.7	233	55.5
Machinery	5	NSR	7	NSR	9	NSR	21	4.6	15	3.3	31	7.7	28	7.5	25	6.9	43	10.2
Overexertion	1	NSR	1	NSR	18	4.5	38	8.4	37	8.3	35	8.7	37	9.9	51	14.0	53	12.6
Nat/Env. Causes	46	12.4	27	7.1	39	9.7	29	6.4	77	17.2	60	14.9	73	19.5	71	19.5	101	24.1
→ Bites and Stings	32	8.7	25	6.5	26	6.5	17	3.8	60	13.4	45	11.2	51	13.6	53	14.6	70	16.7
Other Spec./NEC	79	21.4	83	21.7	107	26.7	192	42.4	345	77.0	386	96.2	343	91.4	339	93.3	512	122.0
Unspecified	34	9.2	20	5.2	44	11.0	111	24.5	191	42.6	198	49.3	191	50.9	189	52.0	292	69.6
Total: All Mechanisms	697	188.5	607	159.0	1,037	258.4	2,528	558.2	3,645	813.9	3,166	788.7	2,814	750.1	2,706	744.4	3,512	836.9

NOTES: Data based on ICD-9-CM codes. Age-specific rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATION RATES: MALES

NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES
MECHANISM BY INTENT, PENNSYLVANIA RESIDENTS, 2011

Injury Mechanism	Ages 45-49		Ages 50-54		Ages 55-59		Ages 60-64		Ages 65-69		Ages 70-74		Ages 75-79		Ages 80-84		Ages 85+	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Fall	1,122	246.0	1,452	298.6	1,695	382.9	1,879	493.3	1,849	698.3	1,903	965.4	2,472	1,618.1	3,408	2,820.9	5,363	5,359.2
→ On same level	235	51.5	338	69.5	400	90.4	427	112.1	504	190.3	500	253.7	701	458.8	988	817.8	1,509	1,507.9
→ One level to another	473	103.7	533	109.6	582	131.5	607	159.4	511	193.0	485	246.0	595	389.5	657	543.8	967	966.3
→ Unspecified	414	90.8	581	119.5	713	161.1	845	221.9	834	315.0	918	465.7	1,176	769.8	1,763	1,459.3	2,887	2,885.0
Poisoning	950	208.3	945	194.4	675	152.5	405	106.3	226	85.4	143	72.5	138	90.3	99	81.9	113	112.9
→ Drug	867	190.1	846	174.0	585	132.1	357	93.7	183	69.1	127	64.4	116	75.9	85	70.4	85	84.9
→ Non-Drug	83	18.2	99	20.4	90	20.3	48	12.6	43	16.2	16	8.1	22	14.4	14	11.6	28	28.0
Motor Vehicle Traffic	489	107.2	509	104.7	451	101.9	370	97.1	216	81.6	225	114.1	196	128.3	157	130.0	141	140.9
→ MVT Occupant	236	51.7	277	57.0	242	54.7	198	52.0	144	54.4	158	80.2	153	100.1	128	105.9	116	115.9
→ MVT Motorcyclist	163	35.7	145	29.8	106	23.9	93	24.4	33	12.5	22	11.2	10	6.5	3	NSR	0	NSR
→ MVT Pedal Cyclist	17	3.7	10	2.1	13	2.9	6	NSR	7	NSR	1	NSR	4	NSR	2	NSR	1	NSR
→ MVT Pedestrian	46	10.1	42	8.6	59	13.3	46	12.1	17	6.4	28	14.2	14	9.2	15	12.4	11	11.0
→ MVT Other	5	NSR	4	NSR	4	NSR	4	NSR	2	NSR	4	NSR	1	NSR	1	NSR	1	NSR
→ MVT Unspecified	22	4.8	31	6.4	27	6.1	23	6.0	13	4.9	12	6.1	14	9.2	8	NSR	12	12.0
All Pedal Cyclist	44	9.6	52	10.7	34	7.7	37	9.7	20	7.6	12	6.1	5	NSR	6	NSR	6	NSR
All Pedestrian	3	NSR	4	NSR	5	NSR	3	NSR	6	NSR	3	NSR	3	NSR	1	NSR	4	NSR
Other Transport	5	NSR	1	NSR	5	NSR	1	NSR	2	NSR	0	NSR	1	NSR	0	NSR	2	NSR
Firearm	45	9.9	35	7.2	19	4.3	13	3.4	10	3.8	4	NSR	5	NSR	6	NSR	10	10.0
Drowning	2	NSR	0	NSR	2	NSR	1	NSR	2	NSR	4	NSR	1	NSR	2	NSR	1	NSR
Suffocation	38	8.3	42	8.6	74	16.7	70	18.4	77	29.1	102	51.7	116	75.9	102	84.4	144	143.9
Fire/Flames	44	9.6	56	11.5	50	11.3	39	10.2	30	11.3	17	8.6	12	7.9	15	12.4	18	18.0
Hot Object/Scald	30	6.6	48	9.9	43	9.7	36	9.5	24	9.1	18	9.1	22	14.4	18	14.9	13	13.0
Cut/Pierce	155	34.0	156	32.1	113	25.5	79	20.7	50	18.9	37	18.8	26	17.0	19	15.7	27	27.0
Struck By/Against	259	56.8	237	48.7	197	44.5	136	35.7	97	36.6	76	38.6	78	51.1	83	68.7	95	94.9
Machinery	38	8.3	58	11.9	46	10.4	45	11.8	12	4.5	26	13.2	8	5.2	18	14.9	17	17.0
Overexertion	67	14.7	76	15.6	95	21.5	69	18.1	50	18.9	36	18.3	37	24.2	37	30.6	42	42.0
Nat/Env. Causes	129	28.3	150	30.9	151	34.1	122	32.0	86	32.5	85	43.1	78	51.1	73	60.4	100	99.9
→ Bites and Stings	79	17.3	81	16.7	66	14.9	68	17.9	50	18.9	35	17.8	41	26.8	31	25.7	26	26.0
Other Spec./NEC	647	141.9	663	136.4	617	139.4	548	143.9	487	183.9	380	192.8	383	250.7	380	314.5	480	479.7
Unspecified	383	84.0	452	93.0	464	104.8	443	116.3	433	163.5	391	198.4	420	274.9	453	375.0	663	662.5
Total: All Mechanisms	4,514	989.7	5,014	1,031.2	4,798	1,083.9	4,338	1,138.9	3,711	1,401.5	3,493	1,772.0	4,031	2,638.5	4,913	4,066.6	7,264	7,258.9

NOTES: Data based on ICD-9-CM codes. Age-specific rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATION RATES: FEMALES

NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES
MECHANISM BY INTENT, PENNSYLVANIA RESIDENTS, 2011

Injury Mechanism	Ages 0-4		Ages 5-9		Ages 10-14		Ages 15-19		Ages 20-24		Ages 25-29		Ages 30-34		Ages 35-39		Ages 40-44	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Fall	130	36.7	146	39.8	97	25.3	124	28.6	216	49.5	263	66.6	277	73.8	337	92.0	551	129.2
→ On same level	14	4.0	28	7.6	45	11.7	32	7.4	54	12.4	86	21.8	88	23.4	118	32.2	169	39.6
→ One level to another	84	23.7	97	26.5	35	9.1	60	13.8	78	17.9	84	21.3	97	25.8	109	29.7	170	39.9
→ Unspecified	32	9.0	21	5.7	17	4.4	32	7.4	84	19.3	93	23.5	92	24.5	110	30.0	212	49.7
Poisoning	61	17.2	13	3.5	77	20.1	521	120.2	697	159.8	706	178.7	660	175.8	647	176.6	771	180.8
→ Drug	50	14.1	11	3.0	72	18.8	496	114.4	662	151.7	671	169.8	633	168.6	615	167.8	727	170.4
→ Non-Drug	11	3.1	2	NSR	5	1.3	25	5.8	35	8.0	35	8.9	27	7.2	32	8.7	44	10.3
Motor Vehicle Traffic	34	9.6	57	15.6	59	15.4	333	76.8	433	99.2	335	84.8	224	59.7	256	69.9	265	62.1
→ MVT Occupant	22	6.2	30	8.2	32	8.3	280	64.6	361	82.7	275	69.6	179	47.7	193	52.7	192	45.0
→ MVT Motorcyclist	0	NSR	0	NSR	1	NSR	2	NSR	17	3.9	21	5.3	7	NSR	21	5.7	21	4.9
→ MVT Pedal Cyclist	2	NSR	4	NSR	2	NSR	1	NSR	6	NSR	0	NSR	2	NSR	0	NSR	0	NSR
→ MVT Pedestrian	10	2.8	23	6.3	24	6.3	40	9.2	21	4.8	18	4.6	22	5.9	21	5.7	27	6.3
→ MVT Other	0	NSR	0	NSR	0	NSR	0	NSR	2	NSR	0	NSR	0	0.0	0	NSR	2	NSR
→ MVT Unspecified	0	NSR	0	NSR	0	NSR	10	2.3	26	6.0	21	5.3	14	3.7	21	5.7	23	5.4
All Pedal Cyclist	1	NSR	14	3.8	18	4.7	4	NSR	9	NSR	8	NSR	5	NSR	9	NSR	6	NSR
All Pedestrian	1	NSR	0	NSR	0	NSR	0	NSR	3	NSR	2	NSR	1	NSR	0	NSR	0	NSR
Other Transport	0	NSR	0	NSR	0	NSR	3	NSR	0	NSR	2	NSR	1	NSR	1	NSR	1	NSR
Firearm	1	NSR	2	NSR	5	NSR	22	5.1	17	3.9	13	3.3	9	NSR	8	NSR	6	NSR
Drowning	3	NSR	0	NSR	1	NSR	0	NSR	1	NSR	1	NSR	1	NSR	0	NSR	1	NSR
Suffocation	9	NSR	8	NSR	0	NSR	11	2.5	11	2.5	9	NSR	11	2.9	12	3.3	33	7.7
Fire/Flames	8	NSR	6	NSR	4	NSR	9	NSR	5	NSR	20	5.1	21	5.6	12	3.3	26	6.1
Hot Object/Scald	55	15.5	11	3.0	5	NSR	4	NSR	12	2.8	17	4.3	24	6.4	16	4.4	25	5.9
Cut/Pierce	6	NSR	4	NSR	49	12.8	108	24.9	111	25.4	107	27.1	82	21.8	47	12.8	65	15.2
Struck By/Against	26	7.3	17	4.6	46	12.0	55	12.7	57	13.1	57	14.4	64	17.0	46	12.6	51	12.0
Machinery	3	NSR	0	NSR	0	NSR	1	NSR	1	NSR	3	NSR	3	NSR	1	NSR	0	NSR
Overexertion	0	NSR	3	NSR	5	NSR	18	4.2	26	6.0	31	7.8	29	7.7	22	6.0	38	8.9
Nat/Env. Causes	45	12.7	26	7.1	24	6.3	35	8.1	58	13.3	64	16.2	60	16.0	67	18.3	89	20.9
→ Bites and Stings	38	10.7	21	5.7	13	3.4	28	6.5	50	11.5	53	13.4	47	12.5	56	15.3	74	17.3
Other Spec./NEC	64	18.1	39	10.6	42	10.9	107	24.7	150	34.4	192	48.6	164	43.7	160	43.7	260	61.0
Unspecified	23	6.5	12	3.3	23	6.0	48	11.1	78	17.9	106	26.8	138	36.8	136	37.1	179	42.0
Total: All Mechanisms	473	133.6	371	101.2	474	123.6	1,447	333.8	1,917	439.4	1,955	494.8	1,797	478.7	1,791	488.8	2,403	563.4

NOTES: Data based on ICD-9-CM codes. Age-specific rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATION RATES: FEMALES

NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES
MECHANISM BY INTENT, PENNSYLVANIA RESIDENTS, 2011

Injury Mechanism	Ages 45-49		Ages 50-54		Ages 55-59		Ages 60-64		Ages 65-69		Ages 70-74		Ages 75-79		Ages 80-84		Ages 85+	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Fall	818	173.8	1,297	257.9	1,661	359.5	2,089	510.5	2,421	807.5	2,876	1,207.3	4,342	2,124.5	6,999	3,736.3	14,695	6,794.8
→ On same level	249	52.9	421	83.7	617	133.5	705	172.3	854	284.8	957	401.7	1,465	716.8	2,300	1,227.8	4,557	2,107.1
→ One level to another	240	51.0	380	75.6	456	98.7	518	126.6	535	178.4	588	246.8	841	411.5	1,219	650.7	2,298	1,062.6
→ Unspecified	329	69.9	496	98.6	588	127.3	866	211.6	1,032	344.2	1,331	558.7	2,036	996.2	3,480	1,857.7	7,840	3,625.1
Poisoning	990	210.3	912	181.4	608	131.6	396	96.8	247	82.4	216	90.7	190	93.0	192	102.5	215	99.4
→ Drug	925	196.5	852	169.4	563	121.8	371	90.7	232	77.4	204	85.6	173	84.6	175	93.4	201	92.9
→ Non-Drug	65	13.8	60	11.9	45	9.7	25	6.1	15	5.0	12	5.0	17	8.3	17	9.1	14	6.5
Motor Vehicle Traffic	273	58.0	305	60.7	254	55.0	257	62.8	191	63.7	215	90.3	193	94.4	215	114.8	212	98.0
→ MVT Occupant	191	40.6	215	42.8	198	42.9	200	48.9	157	52.4	169	70.9	154	75.4	184	98.2	181	83.7
→ MVT Motorcyclist	37	7.9	32	6.4	13	2.8	9	NSR	2	NSR	1	NSR	1	NSR	0	NSR	0	NSR
→ MVT Pedal Cyclist	2	NSR	1	NSR	0	NSR	1	NSR	0	NSR	1	NSR	0	NSR	0	NSR	0	NSR
→ MVT Pedestrian	25	5.3	31	6.2	22	4.8	33	8.1	16	5.3	29	12.2	21	10.3	17	9.1	18	8.3
→ MVT Other	2	NSR	0	NSR	1	NSR	1	NSR	1	0.3	0	NSR	1	NSR	0	NSR	0	NSR
→ MVT Unspecified	16	3.4	26	5.2	20	4.3	13	3.2	15	5.0	15	6.3	16	7.8	14	7.5	13	6.0
All Pedal Cyclist	17	3.6	16	3.2	14	3.0	8	NSR	7	NSR	4	1.7	2	NSR	2	NSR	0	NSR
All Pedestrian	0	NSR	5	NSR	2	NSR	3	NSR	1	NSR	1	NSR	1	NSR	4	NSR	4	NSR
Other Transport	2	NSR	1	NSR	0	NSR	2	NSR	1	NSR	0	NSR	1	NSR	0	NSR	1	NSR
Firearm	9	NSR	7	NSR	2	NSR	2	NSR	0	NSR	0	NSR	0	NSR	1	NSR	0	NSR
Drowning	2	NSR	0	NSR	1	NSR	1	NSR	0	NSR	0	NSR	1	NSR	1	NSR	2	NSR
Suffocation	29	6.2	51	10.1	55	11.9	51	12.5	68	22.7	73	30.6	87	42.6	128	68.3	210	97.1
Fire/Flames	14	3.0	26	5.2	19	4.1	20	4.9	12	4.0	12	5.0	13	6.4	13	6.9	20	9.2
Hot Object/Scald	25	5.3	26	5.2	23	5.0	30	7.3	17	5.7	20	8.4	12	5.9	20	10.7	32	14.8
Cut/Pierce	79	16.8	75	14.9	41	8.9	23	5.6	19	6.3	18	7.6	12	5.9	14	7.5	19	8.8
Struck By/Against	68	14.4	72	14.3	81	17.5	62	15.2	50	16.7	49	20.6	85	41.6	99	52.8	203	93.9
Machinery	2	NSR	8	NSR	2	NSR	4	NSR	4	NSR	1	NSR	1	NSR	2	NSR	2	NSR
Overexertion	51	10.8	63	12.5	60	13.0	87	21.3	77	25.7	73	30.6	74	36.2	105	56.1	145	67.0
Nat/Env. Causes	120	25.5	147	29.2	174	37.7	102	24.9	114	38.0	92	38.6	93	45.5	132	70.5	209	96.6
→ Bites and Stings	95	20.2	113	22.5	130	28.1	68	16.6	76	25.3	58	24.3	50	24.5	57	30.4	70	32.4
Other Spec./NEC	293	62.3	347	69.0	307	66.4	307	75.0	314	104.7	309	129.7	405	198.2	449	239.7	739	341.7
Unspecified	256	54.4	285	56.7	336	72.7	379	92.6	375	125.1	419	175.9	506	247.6	636	339.5	1,174	542.8
Total: All Mechanisms	3,079	654.2	3,700	735.8	3,687	797.9	3,857	942.5	3,935	1,312.4	4,395	1,845.0	6,039	2,954.8	9,046	4,829.0	17,912	8,282.3

NOTES: Data based on ICD-9-CM codes. Age-specific rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATION RATES: WHITE MALES

NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES
MECHANISM BY INTENT, PENNSYLVANIA RESIDENTS, 2011

Injury Mechanism	Ages 0-4		Ages 5-9		Ages 10-14		Ages 15-19		Ages 20-24		Ages 25-29		Ages 30-34		Ages 35-39		Ages 40-44	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Fall	141	50.1	158	53.0	201	63.2	257	71.6	305	85.7	315	96.2	342	111.5	392	130.8	578	163.1
→ On same level	18	6.4	34	11.4	88	27.7	94	26.2	87	24.4	59	18.0	69	22.5	81	27.0	115	32.5
→ One level to another	97	34.5	102	34.2	68	21.4	90	25.1	142	39.9	166	50.7	167	54.5	174	58.1	250	70.6
→ Unspecified	26	9.2	22	7.4	45	14.2	73	20.3	76	21.3	90	27.5	106	34.6	137	45.7	213	60.1
Poisoning	51	18.1	10	3.4	21	6.6	334	93.0	642	180.3	619	189.0	562	183.3	493	164.6	513	144.8
→ Drug	39	13.9	6	NSR	14	4.4	311	86.6	600	168.5	581	177.4	511	166.6	432	144.2	452	127.6
→ Non-Drug	12	4.3	4	NSR	7	NSR	23	6.4	42	11.8	38	11.6	51	16.6	61	20.4	61	17.2
Motor Vehicle Traffic	25	8.9	52	17.4	82	25.8	446	124.2	669	187.9	449	137.1	341	111.2	311	103.8	375	105.8
→ MVT Occupant	17	6.0	21	7.0	22	6.9	331	92.2	469	131.7	287	87.6	218	71.1	184	61.4	222	62.6
→ MVT Motorcyclist	0	NSR	0	NSR	5	NSR	42	11.7	107	30.1	95	29.0	88	28.7	87	29.0	101	28.5
→ MVT Pedal Cyclist	1	NSR	10	3.4	20	6.3	13	3.6	13	3.7	11	3.4	7	NSR	5	NSR	7	NSR
→ MVT Pedestrian	6	NSR	20	6.7	33	10.4	37	10.3	32	9.0	31	9.5	15	4.9	16	5.3	22	6.2
→ MVT Other	1	NSR	0	NSR	1	NSR	6	NSR	2	NSR	2	0.6	2	NSR	1	NSR	4	NSR
→ MVT Unspecified	0	NSR	1	NSR	1	NSR	17	4.7	46	12.9	23	7.0	11	3.6	18	6.0	19	5.4
All Pedal Cyclist	4	NSR	27	9.1	72	22.7	31	8.6	25	7.0	21	6.4	20	6.5	25	8.3	23	6.5
All Pedestrian	1	NSR	3	NSR	2	NSR	2	NSR	4	NSR	4	NSR	2	NSR	2	NSR	4	NSR
Other Transport	1	NSR	0	NSR	0	NSR	2	NSR	1	NSR	1	NSR	3	NSR	2	NSR	4	NSR
Firearm	2	NSR	0	NSR	7	NSR	30	8.4	52	14.6	40	12.2	28	9.1	21	7.0	20	5.6
Drowning	15	5.3	3	NSR	2	NSR	2	NSR	2	NSR	1	NSR	0	NSR	0	NSR	1	NSR
Suffocation	6	NSR	4	NSR	2	NSR	11	3.1	27	7.6	20	6.1	17	5.5	22	7.3	30	8.5
Fire/Flames	14	5.0	6	NSR	19	6.0	19	5.3	26	7.3	35	10.7	22	7.2	31	10.3	17	4.8
Hot Object/Scald	51	18.1	5	NSR	10	3.1	9	NSR	20	5.6	22	6.7	25	8.2	23	7.7	34	9.6
Cut/Pierce	10	3.6	11	3.7	22	6.9	94	26.2	162	45.5	147	44.9	128	41.7	95	31.7	122	34.4
Struck By/Against	34	12.1	33	11.1	125	39.3	239	66.5	231	64.9	180	55.0	149	48.6	135	45.1	173	48.8
Machinery	5	NSR	7	NSR	8	NSR	20	5.6	13	3.7	30	9.2	22	7.2	24	8.0	38	10.7
Overexertion	1	NSR	1	NSR	11	3.5	31	8.6	28	7.9	28	8.5	27	8.8	43	14.4	46	13.0
Nat/Env. Causes	27	9.6	19	6.4	29	9.1	23	6.4	68	19.1	49	15.0	61	19.9	57	19.0	91	25.7
→ Bites and Stings	19	6.8	19	6.4	18	5.7	14	3.9	54	15.2	37	11.3	43	14.0	44	14.7	65	18.3
Other Spec./NEC	48	17.1	55	18.4	76	23.9	130	36.2	248	69.7	275	84.0	239	77.9	243	81.1	395	111.5
Unspecified	26	9.2	17	5.7	35	11.0	76	21.2	136	38.2	147	44.9	137	44.7	139	46.4	211	59.5
Total: All Mechanisms	467	166.0	429	143.8	800	251.7	1,871	520.9	2,744	770.7	2,444	746.2	2,200	717.4	2,114	705.6	2,745	774.7

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, 2011

Injury Mechanism	Ages 45-49		Ages 50-54		Ages 55-59		Ages 60-64		Ages 65-69		Ages 70-74		Ages 75-79		Ages 80-84		Ages 85+	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Fall	922	235.3	1,247	293.0	1,472	374.7	1,639	478.9	1,673	697.2	1,737	968.4	2,321	1,653.9	3,270	2,891.1	5,238	5,555.6
→ On same level	196	50.0	294	69.1	360	91.6	376	109.9	469	195.4	463	258.1	669	476.7	953	842.6	1,480	1,569.7
→ One level to another	402	102.6	464	109.0	515	131.1	538	157.2	467	194.6	434	242.0	560	399.0	620	548.2	933	989.6
→ Unspecified	324	82.7	489	114.9	597	152.0	725	211.8	737	307.1	840	468.3	1,092	778.1	1,697	1,500.4	2,825	2,996.3
Poisoning	666	170.0	639	150.1	466	118.6	282	82.4	180	75.0	121	67.5	118	84.1	93	82.2	107	113.5
→ Drug	601	153.4	563	132.3	403	102.6	248	72.5	144	60.0	107	59.7	98	69.8	80	70.7	80	84.9
→ Non-Drug	65	16.6	76	17.9	63	16.0	34	9.9	36	15.0	14	7.8	20	14.3	13	11.5	27	28.6
Motor Vehicle Traffic	425	108.5	448	105.2	397	101.0	335	97.9	203	84.6	212	118.2	186	132.5	153	135.3	136	144.2
→ MVT Occupant	206	52.6	243	57.1	218	55.5	178	52.0	138	57.5	150	83.6	144	102.6	126	111.4	115	122.0
→ MVT Motorcyclist	152	38.8	142	33.4	100	25.5	88	25.7	33	13.8	21	11.7	10	7.1	3	NSR	0	NSR
→ MVT Pedal Cyclist	14	3.6	8	NSR	12	3.1	5	NSR	6	NSR	1	NSR	3	NSR	2	NSR	1	NSR
→ MVT Pedestrian	30	7.7	27	6.3	43	10.9	40	11.7	13	5.4	25	13.9	14	10.0	14	12.4	7	NSR
→ MVT Other	4	NSR	3	NSR	2	NSR	3	NSR	1	NSR	3	NSR	1	NSR	1	NSR	1	NSR
→ MVT Unspecified	19	4.8	25	5.9	22	5.6	21	6.1	12	5.0	12	6.7	14	10.0	7	NSR	12	12.7
All Pedal Cyclist	32	8.2	50	11.7	30	7.6	34	9.9	19	7.9	11	6.1	5	NSR	6	NSR	6	NSR
All Pedestrian	3	NSR	4	NSR	4	NSR	3	NSR	5	NSR	3	NSR	3	NSR	1	NSR	4	NSR
Other Transport	5	NSR	1	NSR	5	NSR	1	NSR	1	NSR	0	NSR	1	NSR	0	NSR	2	NSR
Firearm	25	6.4	23	5.4	10	2.5	11	3.2	9	NSR	4	NSR	4	NSR	6	NSR	4	NSR
Drowning	2	NSR	0	NSR	2	NSR	1	NSR	2	NSR	4	NSR	1	NSR	2	NSR	0	NSR
Suffocation	30	7.7	31	7.3	67	17.1	64	18.7	67	27.9	91	50.7	103	73.4	95	84.0	135	143.2
Fire/Flames	41	10.5	48	11.3	41	10.4	35	10.2	25	10.4	15	8.4	9	NSR	14	12.4	14	14.8
Hot Object/Scald	24	6.1	40	9.4	37	9.4	31	9.1	22	9.2	16	8.9	19	13.5	15	13.3	9	NSR
Cut/Pierce	115	29.4	121	28.4	96	24.4	70	20.5	47	19.6	36	20.1	26	18.5	18	15.9	25	26.5
Struck By/Against	173	44.2	168	39.5	150	38.2	114	33.3	88	36.7	73	40.7	71	50.6	83	73.4	91	96.5
Machinery	35	8.9	57	13.4	43	10.9	43	12.6	11	4.6	25	13.9	8	NSR	18	15.9	16	17.0
Overexertion	54	13.8	65	15.3	87	22.1	64	18.7	46	19.2	33	18.4	36	25.7	36	31.8	41	43.5
Nat/Env. Causes	106	27.1	115	27.0	130	33.1	108	31.6	75	31.3	74	41.3	70	49.9	59	52.2	89	94.4
→ Bites and Stings	70	17.9	67	15.7	61	15.5	65	19.0	50	20.8	35	19.5	40	28.5	29	25.6	24	25.5
Other Spec./NEC	493	125.8	506	118.9	514	130.8	487	142.3	425	177.1	338	188.4	347	247.3	363	320.9	449	476.2
Unspecified	301	76.8	347	81.5	364	92.6	377	110.2	373	155.4	353	196.8	387	275.8	422	373.1	637	675.6
Total: All Mechanisms	3,514	896.9	3,985	936.2	3,976	1,012.0	3,741	1,093.1	3,304	1,376.8	3,177	1,771.3	3,744	2,667.8	4,689	4,145.7	7,028	7,454.2

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, 2011

Injury Mechanism	Ages 0-4		Ages 5-9		Ages 10-14		Ages 15-19		Ages 20-24		Ages 25-29		Ages 30-34		Ages 35-39		Ages 40-44	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Fall	87	32.5	120	42.3	83	27.5	104	30.3	156	45.3	195	61.5	209	69.5	274	92.0	441	124.1
→ On same level	12	4.5	20	7.1	35	11.6	28	8.1	43	12.5	71	22.4	69	23.0	90	30.2	141	39.7
→ One level to another	55	20.5	84	29.6	33	10.9	52	15.1	58	16.8	57	18.0	75	25.0	92	30.9	134	37.7
→ Unspecified	20	7.5	16	5.6	15	5.0	24	7.0	55	16.0	67	21.1	65	21.6	92	30.9	166	46.7
Poisoning	28	10.5	6	NSR	56	18.5	428	124.6	594	172.4	628	198.1	551	183.4	539	181.0	637	179.3
→ Drug	23	8.6	5	NSR	54	17.9	410	119.3	570	165.4	601	189.6	527	175.4	510	171.3	601	169.1
→ Non-Drug	5	1.9	1	NSR	2	NSR	18	5.2	24	7.0	27	8.5	24	8.0	29	9.7	36	10.1
Motor Vehicle Traffic	26	9.7	40	14.1	41	13.6	299	87.0	375	108.8	272	85.8	189	62.9	211	70.9	222	62.5
→ MVT Occupant	19	7.1	26	9.2	25	8.3	261	76.0	316	91.7	234	73.8	153	50.9	162	54.4	162	45.6
→ MVT Motorcyclist	0	NSR	0	NSR	0	NSR	2	NSR	15	4.4	14	4.4	6	NSR	15	5.0	19	5.3
→ MVT Pedal Cyclist	2	NSR	2	NSR	1	NSR	1	NSR	5	NSR	0	NSR	2	NSR	0	NSR	0	NSR
→ MVT Pedestrian	5	NSR	12	4.2	15	5.0	25	7.3	16	4.6	11	3.5	16	5.3	16	5.4	20	5.6
→ MVT Other	0	NSR	0	NSR	0	NSR	0	NSR	2	NSR	0	0.0	0	NSR	0	NSR	1	NSR
→ MVT Unspecified	0	NSR	0	NSR	0	NSR	10	2.9	21	6.1	13	4.1	12	4.0	18	6.0	20	5.6
All Pedal Cyclist	1	NSR	12	4.2	15	5.0	4	NSR	9	NSR	8	NSR	5	NSR	9	NSR	5	NSR
All Pedestrian	1	NSR	0	NSR	0	NSR	0	NSR	3	NSR	2	NSR	1	NSR	0	NSR	0	NSR
Other Transport	0	NSR	0	NSR	0	NSR	3	NSR	0	NSR	2	NSR	1	NSR	1	NSR	1	NSR
Firearm	0	NSR	0	NSR	4	NSR	3	NSR	4	NSR	5	NSR	3	NSR	4	NSR	1	NSR
Drowning	3	NSR	0	NSR	1	NSR	0	NSR	1	NSR	0	NSR	1	NSR	0	NSR	1	NSR
Suffocation	5	NSR	6	NSR	0	NSR	8	NSR	11	3.2	9	NSR	7	NSR	10	3.4	26	7.3
Fire/Flames	5	NSR	4	NSR	4	NSR	6	NSR	4	NSR	17	5.4	17	5.7	11	3.7	17	4.8
Hot Object/Scald	28	10.5	6	NSR	1	NSR	3	NSR	10	2.9	13	4.1	19	6.3	11	3.7	15	4.2
Cut/Pierce	3	NSR	4	NSR	38	12.6	89	25.9	93	27.0	92	29.0	62	20.6	40	13.4	54	15.2
Struck By/Against	18	6.7	12	4.2	39	12.9	35	10.2	36	10.4	35	11.0	43	14.3	32	10.7	42	11.8
Machinery	3	NSR	0	NSR	0	NSR	1	NSR	1	NSR	3	NSR	2	NSR	1	NSR	0	NSR
Overexertion	0	NSR	2	NSR	4	NSR	14	4.1	17	4.9	25	7.9	22	7.3	20	6.7	33	9.3
Nat/Env. Causes	38	14.2	19	6.7	21	6.9	30	8.7	47	13.6	57	18.0	47	15.6	58	19.5	78	22.0
→ Bites and Stings	32	12.0	14	4.9	10	3.3	23	6.7	43	12.5	46	14.5	37	12.3	48	16.1	65	18.3
Other Spec./NEC	40	14.9	27	9.5	30	9.9	81	23.6	110	31.9	155	48.9	120	39.9	131	44.0	205	57.7
Unspecified	15	5.6	10	3.5	18	6.0	35	10.2	57	16.5	82	25.9	102	33.9	102	34.3	134	37.7
Total: All Mechanisms	304	113.6	280	98.8	374	123.8	1,186	345.2	1,558	452.2	1,618	510.5	1,422	473.2	1,467	492.7	1,946	547.7

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, 2011

Injury Mechanism	Ages 45-49		Ages 50-54		Ages 55-59		Ages 60-64		Ages 65-69		Ages 70-74		Ages 75-79		Ages 80-84		Ages 85+	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Fall	675	168.9	1,129	259.7	1,481	366.4	1,883	520.9	2,268	848.5	2,710	1,268.3	4,122	2,229.9	6,742	3,903.9	14,238	7,050.6
→ On same level	209	52.3	375	86.2	560	138.5	650	179.8	811	303.4	918	429.6	1,423	769.8	2,242	1,298.2	4,423	2,190.3
→ One level to another	196	49.0	328	75.4	395	97.7	463	128.1	484	181.1	551	257.9	775	419.3	1,143	661.8	2,201	1,089.9
→ Unspecified	270	67.5	426	98.0	526	130.1	770	213.0	973	364.0	1,241	580.8	1,924	1,040.8	3,357	1,943.9	7,614	3,770.4
Poisoning	808	202.1	723	166.3	485	120.0	347	96.0	211	78.9	187	87.5	164	88.7	172	99.6	199	98.5
→ Drug	756	189.1	675	155.2	443	109.6	326	90.2	198	74.1	177	82.8	148	80.1	157	90.9	186	92.1
→ Non-Drug	52	13.0	48	11.0	42	10.4	21	5.8	13	4.9	10	4.7	16	8.7	15	8.7	13	6.4
Motor Vehicle Traffic	238	59.5	262	60.3	220	54.4	235	65.0	171	64.0	208	97.3	180	97.4	208	120.4	209	103.5
→ MVT Occupant	167	41.8	186	42.8	175	43.3	186	51.4	141	52.8	164	76.8	146	79.0	179	103.6	179	88.6
→ MVT Motorcyclist	35	8.8	32	7.4	13	3.2	9	NSR	1	NSR	1	NSR	1	NSR	0	NSR	0	NSR
→ MVT Pedal Cyclist	1	NSR	1	NSR	0	NSR	0	NSR	0	NSR	1	NSR	0	NSR	0	NSR	0	NSR
→ MVT Pedestrian	18	4.5	20	4.6	14	3.5	27	7.5	14	5.2	29	13.6	18	9.7	16	9.3	17	8.4
→ MVT Other	2	NSR	0	NSR	1	NSR	1	NSR	1	NSR	0	NSR	1	NSR	0	NSR	0	NSR
→ MVT Unspecified	15	3.8	23	5.3	17	4.2	12	3.3	14	5.2	13	6.1	14	7.6	13	7.5	13	6.4
All Pedal Cyclist	16	4.0	16	3.7	13	3.2	7	NSR	7	NSR	4	NSR	2	NSR	2	NSR	0	NSR
All Pedestrian	0	NSR	5	NSR	2	NSR	3	NSR	0	NSR	1	NSR	1	NSR	4	NSR	4	NSR
Other Transport	2	NSR	1	NSR	0	NSR	2	NSR	1	NSR	0	NSR	1	NSR	0	NSR	1	NSR
Firearm	5	NSR	3	NSR	2	NSR	2	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Drowning	2	NSR	0	NSR	1	NSR	1	NSR	0	NSR	0	NSR	1	NSR	1	NSR	2	NSR
Suffocation	24	6.0	45	10.3	44	10.9	42	11.6	55	20.6	65	30.4	74	40.0	109	63.1	196	97.1
Fire/Flames	12	3.0	20	4.6	15	3.7	15	4.1	9	NSR	12	5.6	8	NSR	9	NSR	18	8.9
Hot Object/Scald	21	5.3	20	4.6	18	4.5	19	5.3	15	5.6	16	7.5	11	6.0	19	11.0	29	14.4
Cut/Pierce	69	17.3	66	15.2	33	8.2	21	5.8	15	5.6	17	8.0	12	6.5	14	8.1	18	8.9
Struck By/Against	56	14.0	58	13.3	64	15.8	50	13.8	44	16.5	47	22.0	79	42.7	97	56.2	198	98.0
Machinery	1	NSR	8	NSR	2	NSR	4	NSR	4	NSR	1	NSR	1	NSR	2	NSR	2	NSR
Overexertion	41	10.3	52	12.0	55	13.6	78	21.6	71	26.6	68	31.8	70	37.9	104	60.2	139	68.8
Nat/Env. Causes	108	27.0	130	29.9	158	39.1	95	26.3	107	40.0	83	38.8	90	48.7	120	69.5	179	88.6
→ Bites and Stings	85	21.3	106	24.4	120	29.7	67	18.5	74	27.7	56	26.2	50	27.0	55	31.8	70	34.7
Other Spec./NEC	236	59.0	282	64.9	251	62.1	271	75.0	280	104.8	281	131.5	375	202.9	425	246.1	697	345.2
Unspecified	185	46.3	217	49.9	277	68.5	332	91.8	331	123.8	361	169.0	465	251.6	598	346.3	1,116	552.6
Total: All Mechanisms	2,530	632.9	3,093	711.4	3,167	783.5	3,441	951.8	3,606	1,349.1	4,078	1,908.6	5,677	3,071.1	8,660	5,014.5	17,274	8,554.1

NOTES: Data based on ICD-9-CM codes. Age-specific rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATION RATES: BLACK MALES

NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES
MECHANISM BY INTENT, PENNSYLVANIA RESIDENTS, 2011

Injury Mechanism	Ages 0-4		Ages 5-9		Ages 10-14		Ages 15-19		Ages 20-24		Ages 25-29		Ages 30-34		Ages 35-39		Ages 40-44	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Fall	63	114.6	43	80.5	42	73.6	48	71.6	61	94.8	65	132.1	58	127.2	90	214.8	140	304.8
→ On same level	8	NSR	5	NSR	11	19.3	18	26.9	17	26.4	7	NSR	15	32.9	25	59.7	26	56.6
→ One level to another	47	85.5	23	43.1	16	28.1	10	14.9	19	29.5	40	81.3	25	54.8	32	76.4	54	117.6
→ Unspecified	8	NSR	15	28.1	15	26.3	20	29.9	25	38.9	18	36.6	18	39.5	33	78.7	60	130.6
Poisoning	43	78.2	5	NSR	8	NSR	54	80.6	76	118.2	77	156.5	86	188.6	108	257.7	197	428.9
→ Drug	29	52.8	4	NSR	7	NSR	46	68.7	71	110.4	73	148.3	75	164.5	102	243.4	184	400.6
→ Non-Drug	14	25.5	1	NSR	1	NSR	8	NSR	5	NSR	4	NSR	11	24.1	6	NSR	13	28.3
Motor Vehicle Traffic	21	38.2	40	74.9	46	80.7	81	120.9	111	172.6	96	195.1	86	188.6	63	150.3	54	117.6
→ MVT Occupant	4	NSR	2	NSR	7	NSR	36	53.7	54	84.0	51	103.6	50	109.7	36	85.9	31	67.5
→ MVT Motorcyclist	0	NSR	0	NSR	4	NSR	9	NSR	21	32.6	18	36.6	19	41.7	17	40.6	11	23.9
→ MVT Pedal Cyclist	0	NSR	5	NSR	9	NSR	9	NSR	4	NSR	3	NSR	2	NSR	0	NSR	0	0.0
→ MVT Pedestrian	17	30.9	33	61.8	26	45.6	25	37.3	24	37.3	18	36.6	12	26.3	7	NSR	9	19.6
→ MVT Other	0	NSR	0	NSR	0	NSR	2	NSR	1	NSR	2	NSR	0	NSR	0	NSR	0	0.0
→ MVT Unspecified	0	NSR	0	NSR	0	NSR	0	NSR	7	NSR	4	NSR	3	NSR	3	NSR	3	6.5
All Pedal Cyclist	2	NSR	5	NSR	6	NSR	6	NSR	2	NSR	5	NSR	4	NSR	4	NSR	2	4.4
All Pedestrian	0	NSR	1	NSR	0	NSR	0	NSR	1	NSR	0	NSR	1	NSR	1	NSR	2	4.4
Other Transport	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	0.0
Firearm	0	NSR	1	NSR	13	22.8	199	297.0	269	418.2	156	317.0	92	201.8	54	128.9	47	102.3
Drowning	1	NSR	3	NSR	0	NSR	2	NSR	0	NSR	0	NSR	1	NSR	0	NSR	0	0.0
Suffocation	4	NSR	2	NSR	0	NSR	2	NSR	5	NSR	3	NSR	3	NSR	2	NSR	3	6.5
Fire/Flames	4	NSR	3	NSR	3	NSR	4	NSR	2	NSR	2	NSR	1	NSR	1	NSR	9	19.6
Hot Object/Scald	22	40.0	7	NSR	1	NSR	4	NSR	7	NSR	5	NSR	2	NSR	5	NSR	5	10.9
Cut/Pierce	3	NSR	12	22.5	10	17.5	37	55.2	86	133.7	43	87.4	30	65.8	37	88.3	27	58.8
Struck By/Against	9	NSR	14	26.2	47	82.4	100	149.3	102	158.6	83	168.7	62	136.0	53	126.5	60	130.6
Machinery	0	NSR	0	NSR	1	NSR	1	NSR	2	NSR	1	NSR	6	NSR	1	NSR	5	10.9
Overexertion	0	NSR	0	NSR	7	NSR	7	NSR	9	NSR	7	NSR	10	21.9	8	NSR	7	15.2
Nat/Env. Causes	19	34.6	8	NSR	10	17.5	6	NSR	9	NSR	11	22.4	12	26.3	14	33.4	10	21.8
→ Bites and Stings	13	23.6	6	NSR	8	NSR	3	NSR	6	NSR	8	NSR	8	NSR	9	NSR	5	10.9
Other Spec./NEC	31	56.4	28	52.4	31	54.4	62	92.5	97	150.8	111	225.5	104	228.1	96	229.1	117	254.7
Unspecified	8	NSR	3	NSR	9	NSR	35	52.2	55	85.5	51	103.6	54	118.4	50	119.3	81	176.4
Total: All Mechanisms	230	418.4	178	333.3	237	415.6	657	980.6	901	1,400.8	722	1,467.1	614	1,346.6	592	1,412.7	767	1,669.9

NOTES: Data based on ICD-9-CM codes. Age-specific rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATION RATES: BLACK MALES

NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES
MECHANISM BY INTENT, PENNSYLVANIA RESIDENTS, 2011

Injury Mechanism	Ages 45-49		Ages 50-54		Ages 55-59		Ages 60-64		Ages 65-69		Ages 70-74		Ages 75-79		Ages 80-84		Ages 85+	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Fall	200	424.0	205	448.1	223	594.8	240	830.1	176	963.8	166	1,261.9	151	1,582.8	138	2,254.2	125	2,641.0
→ On same level	39	82.7	44	96.2	40	106.7	51	176.4	35	191.7	37	281.3	32	335.4	35	571.7	29	612.7
→ One level to another	71	150.5	69	150.8	67	178.7	69	238.7	44	241.0	51	387.7	35	366.9	37	604.4	34	718.4
→ Unspecified	90	190.8	92	201.1	116	309.4	120	415.1	97	531.2	78	592.9	84	880.5	66	1,078.1	62	1,310.0
Poisoning	284	602.0	306	668.9	209	557.5	123	425.4	46	251.9	22	167.2	20	209.6	6	NSR	6	NSR
→ Drug	266	563.9	283	618.6	182	485.5	109	377.0	39	213.6	20	152.0	18	188.7	5	NSR	5	NSR
→ Non-Drug	18	38.2	23	50.3	27	72.0	14	48.4	7	NSR	2	NSR	2	NSR	1	NSR	1	NSR
Motor Vehicle Traffic	64	135.7	61	133.3	54	144.0	35	121.1	13	71.2	13	98.8	10	104.8	4	NSR	5	NSR
→ MVT Occupant	30	63.6	34	74.3	24	64.0	20	69.2	6	NSR	8	NSR	9	NSR	2	NSR	1	NSR
→ MVT Motorcyclist	11	23.3	3	NSR	6	NSR	5	NSR	0	NSR	1	NSR	0	NSR	0	NSR	0	NSR
→ MVT Pedal Cyclist	3	NSR	2	NSR	1	NSR	1	NSR	1	NSR	0	NSR	1	NSR	0	NSR	0	NSR
→ MVT Pedestrian	16	33.9	15	32.8	16	42.7	6	NSR	4	NSR	3	NSR	0	NSR	1	NSR	4	NSR
→ MVT Other	1	NSR	1	NSR	2	NSR	1	NSR	1	NSR	1	NSR	0	NSR	0	NSR	0	NSR
→ MVT Unspecified	3	NSR	6	NSR	5	NSR	2	NSR	1	NSR	0	NSR	0	NSR	1	NSR	0	NSR
All Pedal Cyclist	12	25.4	2	NSR	4	NSR	3	NSR	1	NSR	1	NSR	0	NSR	0	NSR	0	NSR
All Pedestrian	0	NSR	0	NSR	1	NSR	0	NSR	1	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Other Transport	0	NSR	0	NSR	0	NSR	0	NSR	1	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Firearm	20	42.4	12	26.2	9	NSR	2	NSR	1	NSR	0	NSR	1	NSR	0	NSR	6	NSR
Drowning	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	1	NSR
Suffocation	8	NSR	11	24.0	7	NSR	6	NSR	10	54.8	11	83.6	13	136.3	7	NSR	9	NSR
Fire/Flames	3	NSR	8	NSR	9	NSR	4	NSR	5	NSR	2	NSR	3	NSR	1	NSR	4	NSR
Hot Object/Scald	6	NSR	8	NSR	6	NSR	5	NSR	2	NSR	2	NSR	3	NSR	3	NSR	4	NSR
Cut/Pierce	40	84.8	35	76.5	17	45.3	9	NSR	3	NSR	1	NSR	0	NSR	1	NSR	2	NSR
Struck By/Against	86	182.3	69	150.8	47	125.4	22	76.1	9	NSR	3	NSR	7	NSR	0	NSR	4	NSR
Machinery	3	NSR	1	NSR	3	NSR	2	NSR	1	NSR	1	NSR	0	NSR	0	NSR	1	NSR
Overexertion	13	27.6	11	24.0	8	NSR	5	NSR	4	NSR	3	NSR	1	NSR	1	NSR	1	NSR
Nat/Env. Causes	23	48.8	35	76.5	21	56.0	14	48.4	11	60.2	11	83.6	8	NSR	14	228.7	11	232.4
→ Bites and Stings	9	NSR	14	30.6	5	NSR	3	NSR	0	NSR	0	NSR	1	NSR	2	NSR	2	NSR
Other Spec./NEC	154	326.5	157	343.2	103	274.7	61	211.0	62	339.5	42	319.3	36	377.4	17	277.7	31	655.0
Unspecified	82	173.8	105	229.5	100	266.7	66	228.3	60	328.6	38	288.9	33	345.9	31	506.4	26	549.3
Total: All Mechanisms	1,000	2,119.9	1,029	2,249.3	822	2,192.6	597	2,064.9	407	2,228.8	316	2,402.1	287	3,008.4	224	3,658.9	236	4,986.3

NOTES: Data based on ICD-9-CM codes. Age-specific rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATION RATES: BLACK FEMALES

NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES
MECHANISM BY INTENT, PENNSYLVANIA RESIDENTS, 2011

Injury Mechanism	Ages 0-4		Ages 5-9		Ages 10-14		Ages 15-19		Ages 20-24		Ages 25-29		Ages 30-34		Ages 35-39		Ages 40-44	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Fall	43	80.4	26	49.8	14	25.8	20	31.6	60	93.3	68	132.4	68	138.1	63	138.5	110	218.9
→ On same level	2	NSR	8	NSR	10	18.4	4	NSR	11	17.1	15	29.2	19	38.6	28	61.5	28	55.7
→ One level to another	29	54.2	13	24.9	2	NSR	8	NSR	20	31.1	27	52.6	22	44.7	17	37.4	36	71.6
→ Unspecified	12	22.4	5	NSR	2	NSR	8	NSR	29	45.1	26	50.6	27	54.8	18	39.6	46	91.5
Poisoning	33	61.7	7	NSR	21	38.7	93	147.0	103	160.1	78	151.8	109	221.3	108	237.4	134	266.7
→ Drug	27	50.5	6	NSR	18	33.1	86	135.9	92	143.0	70	136.3	106	215.2	105	230.8	126	250.7
→ Non-Drug	6	NSR	1	NSR	3	NSR	7	NSR	11	17.1	8	NSR	3	NSR	3	NSR	8	NSR
Motor Vehicle Traffic	8	NSR	17	32.6	18	33.1	34	53.7	58	90.2	63	122.6	35	71.1	45	98.9	43	85.6
→ MVT Occupant	3	NSR	4	NSR	7	NSR	19	30.0	45	70.0	41	79.8	26	52.8	31	68.1	30	59.7
→ MVT Motorcyclist	0	NSR	0	NSR	1	NSR	0	NSR	2	NSR	7	NSR	1	NSR	6	NSR	2	NSR
→ MVT Pedal Cyclist	0	NSR	2	NSR	1	NSR	0	NSR	1	NSR	0	NSR	0	NSR	0	NSR	0	NSR
→ MVT Pedestrian	5	NSR	11	21.1	9	NSR	15	23.7	5	NSR	7	NSR	6	NSR	5	NSR	7	NSR
→ MVT Other	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	1	NSR
→ MVT Unspecified	0	NSR	0	NSR	0	NSR	0	NSR	5	NSR	8	NSR	2	NSR	3	NSR	3	NSR
All Pedal Cyclist	0	NSR	2	NSR	3	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	1	NSR
All Pedestrian	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Other Transport	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Firearm	1	NSR	2	NSR	1	NSR	19	30.0	13	20.2	8	NSR	6	NSR	4	NSR	5	NSR
Drowning	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	1	NSR	0	NSR	0	NSR	0	NSR
Suffocation	4	NSR	2	NSR	0	NSR	3	NSR	0	NSR	0	NSR	4	NSR	2	NSR	7	NSR
Fire/Flames	3	NSR	2	NSR	0	NSR	3	NSR	1	NSR	3	NSR	4	NSR	1	NSR	9	NSR
Hot Object/Scald	27	50.5	5	NSR	4	NSR	1	NSR	2	NSR	4	NSR	5	NSR	5	NSR	10	19.9
Cut/Pierce	3	NSR	0	NSR	11	20.3	19	30.0	18	28.0	15	29.2	20	40.6	7	NSR	11	21.9
Struck By/Against	8	NSR	5	NSR	7	NSR	20	31.6	21	32.7	22	42.8	21	42.6	14	30.8	9	NSR
Machinery	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	1	NSR	0	NSR	0	NSR
Overexertion	0	NSR	1	NSR	1	NSR	4	NSR	9	NSR	6	NSR	7	NSR	2	NSR	5	NSR
Nat/Env. Causes	7	NSR	7	NSR	3	NSR	5	NSR	11	17.1	7	NSR	13	26.4	9	NSR	11	21.9
→ Bites and Stings	6	NSR	7	NSR	3	NSR	5	NSR	7	NSR	7	NSR	10	20.3	8	NSR	9	NSR
Other Spec./NEC	24	44.9	12	23.0	12	22.1	26	41.1	40	62.2	37	72.0	44	89.3	29	63.7	55	109.4
Unspecified	8	NSR	2	NSR	5	NSR	13	20.5	21	32.7	24	46.7	36	73.1	34	74.7	45	89.5
Total: All Mechanisms	169	315.9	91	174.5	100	184.1	261	412.5	359	558.2	337	656.0	375	761.5	324	712.2	457	909.4

NOTES: Data based on ICD-9-CM codes. Age-specific rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

INJURY HOSPITALIZATION RATES: BLACK FEMALES

NUMBER OF INJURY HOSPITALIZATIONS AND AGE-SPECIFIC HOSPITALIZATION RATES
MECHANISM BY INTENT, PENNSYLVANIA RESIDENTS, 2011

Injury Mechanism	Ages 45-49		Ages 50-54		Ages 55-59		Ages 60-64		Ages 65-69		Ages 70-74		Ages 75-79		Ages 80-84		Ages 85+	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Fall	143	273.9	168	324.9	180	409.5	206	566.5	153	611.5	166	859.8	220	1,375.5	257	2,093.7	457	3,686.7
→ On same level	40	76.6	46	89.0	57	129.7	55	151.3	43	171.9	39	202.0	42	262.6	58	472.5	134	1,081.0
→ One level to another	44	84.3	52	100.6	61	138.8	55	151.3	51	203.8	37	191.6	66	412.7	76	619.1	97	782.5
→ Unspecified	59	113.0	70	135.4	62	141.0	96	264.0	59	235.8	90	466.2	112	700.3	123	1,002.0	226	1,823.2
Poisoning	182	348.7	189	365.5	123	279.8	49	134.8	36	143.9	29	150.2	26	162.6	20	162.9	16	129.1
→ Drug	169	323.7	177	342.3	120	273.0	45	123.8	34	135.9	27	139.8	25	156.3	18	146.6	15	121.0
→ Non-Drug	13	24.9	12	23.2	3	NSR	4	NSR	2	NSR	2	NSR	1	NSR	2	NSR	1	NSR
Motor Vehicle Traffic	35	67.0	43	83.2	34	77.3	22	60.5	20	79.9	7	NSR	13	81.3	7	NSR	3	NSR
→ MVT Occupant	24	46.0	29	56.1	23	52.3	14	38.5	16	63.9	5	NSR	8	NSR	5	NSR	2	NSR
→ MVT Motorcyclist	2	NSR	0	NSR	0	NSR	0	NSR	1	NSR	0	NSR	0	NSR	0	NSR	0	NSR
→ MVT Pedal Cyclist	1	NSR	0	NSR	0	NSR	1	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR
→ MVT Pedestrian	7	NSR	11	21.3	8	NSR	6	NSR	2	NSR	0	NSR	3	NSR	1	NSR	1	NSR
→ MVT Other	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR
→ MVT Unspecified	1	NSR	3	NSR	3	NSR	1	NSR	1	NSR	2	NSR	2	NSR	1	NSR	0	NSR
All Pedal Cyclist	1	NSR	0	NSR	1	NSR	1	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR
All Pedestrian	0	NSR	0	NSR	0	NSR	0	NSR	1	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Other Transport	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Firearm	4	NSR	4	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	1	NSR	0	NSR
Drowning	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Suffocation	5	NSR	6	NSR	11	25.0	9	NSR	13	NSR	8	NSR	13	81.3	19	154.8	14	112.9
Fire/Flames	2	NSR	6	NSR	4	NSR	5	NSR	3	NSR	0	NSR	5	NSR	4	NSR	2	NSR
Hot Object/Scald	4	NSR	6	NSR	5	NSR	11	30.3	2	NSR	4	NSR	1	NSR	1	NSR	3	NSR
Cut/Pierce	10	19.2	9	NSR	8	NSR	2	NSR	4	NSR	1	NSR	0	NSR	0	NSR	1	NSR
Struck By/Against	12	23.0	14	27.1	17	38.7	12	33.0	6	NSR	2	NSR	6	NSR	2	NSR	5	NSR
Machinery	1	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR	0	NSR
Overexertion	10	19.2	11	21.3	5	NSR	9	NSR	6	NSR	5	NSR	4	NSR	1	NSR	6	NSR
Nat/Env. Causes	12	23.0	17	32.9	16	36.4	7	NSR	7	NSR	9	NSR	3	NSR	12	97.8	30	242.0
→ Bites and Stings	10	19.2	7	NSR	10	22.7	1	NSR	2	NSR	2	NSR	0	NSR	2	NSR	0	NSR
Other Spec./NEC	57	109.2	65	125.7	56	127.4	36	99.0	34	135.9	28	145.0	30	187.6	24	195.5	42	338.8
Unspecified	71	136.0	68	131.5	59	134.2	47	129.3	44	175.9	58	300.4	41	256.3	38	309.6	58	467.9
Total: All Mechanisms	549	1,051.7	607	1,174.0	520	1,182.9	416	1,144.0	329	1,314.9	317	1,641.9	362	2,263.3	386	3,144.6	638	5,146.8

NOTES: Data based on ICD-9-CM codes. Age-specific rates based on less than 10 events are unreliable and were not calculated. See Technical Notes.

Technical Notes

INJURY DEATHS

Data Source

Pennsylvania's Certificate of Death is the source document for the injury mortality data contained in this report. A copy of this certificate is available upon request. Death certificates are usually completed by hospital personnel, physicians and funeral directors.

There is a cut-off date of March 1 of the following year for compiling annual mortality files, e.g., the cut-off date for 2011 death certificates was March 1, 2012. Data pertaining to a 2011 death for which a certificate was filed after the March 1, 2012 deadline may not be 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 Division of Health Informatics may differ slightly from the data that appear in this report.

Deaths of Pennsylvania residents that occurred in another state are included in this report if copies of certificates were obtained by the cut-off date. The inclusion of these data are made possible by an agreement among all registration areas in the United States for resident exchange of copies of death certificates.

Data Quality

The Bureau of Health Statistics and Registries maintains query and field programs for improving the quality of data collected on death certificates.

A query program is a system used to follow back with hospital personnel, funeral directors and physicians concerning incomplete or conflicting information reported on the certificate. The follow-back contact is usually done by telephone and is based on both manual and computer editing procedures. The field program attempts to improve death certificate information by educating the participants in the death registration system of the uses and importance of mortality data. The field program completes this mission by conducting seminars with various associations representing the types of persons mentioned above. In addition to regularly scheduled seminars, the field representatives make site visits when problems with registration relating to a particular area or institution are discovered.

The National Center for Health Statistics (NCHS) monitors Pennsylvania's coding of statistical data on death certificates. A 0.5 percent sample of death records coded and submitted monthly by the state is used as a quality control mechanism by NCHS. NCHS codes these sample records independently and then conducts an item-by-item computer match of codes entered by the state and NCHS. NCHS has established a 2 percent upper limit for coding differences involving any one data item of these sample records, with the exception of cause of death. A 5.0 percent limit is established for that item due to the complexity of the cause of death coding process.

Data Confidentiality

The confidentiality of death certificates is strictly maintained by the Bureau of Health Statistics and Registries. All published and special reports of vital statistics contain only aggregated data. Individually identifiable information is only released, as provided for in Act 66, Vital Statistics Law of 1953, for health research purposes and to government agencies in pursuance of their official duties upon completion, review and approval of an application for access to protected data. Certified copies are also released to family members or legal representatives for determination of personal or property rights.

Injury Cause Definitions

Underlying cause of death is classified according to the tenth revision of the International Classification of Diseases (ICD-10). Current injury coding definitions are based on the "*ICD-10 Framework for Injury Mortality Data – External Cause"*, published by the National Center for Health Statistics. The list below shows the cause of death and corresponding ICD-10 codes used to classify resident deaths in this report.

INJURY CAUSE	ICD-10 CODES
All Fatal Injuries	V01-Y36, Y85-Y87, Y89, U01-U03
Unintentional Injuries	V01-X59, Y85-Y86
Motor Vehicle Traffic	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
Unintentional Falls	W00-W19
Poisoning	X40-X49, X60-X69, X85-X90, Y10-Y19, Y35.2, U01 (.6,.7)
Firearm-related	W32-W34, X72-X74, X93-X95, Y22-Y24, Y35.0, U01.4
Suicide	X60-X84, Y87.0, U03
Homicide	X85-X99, Y00-Y09, Y87.1, U01-U02

Leading Causes of Injury Death: ICD-10 Codes

These are the injury definitions used in the rankings for leading causes of death.

UNINTENTIONAL INJURY

Falls – W00-W19

Poisoning – X60-X69

MVT – V02-V04 (.1, .9), V09.2, V12-V14 (.3-.9), V19 (.4-.6), V20-V28 (.3-.9), V29 (.4-.9), V30-V79 (.4-.9), V80 (.3-.5), V81.1, V82.1, V83-V86 (.0-.3), V87 (.0-.8), V89.2

Transport – V00-V99 (*all remaining) except for V90, V92

Firearm – W32-W34

Drowning – W65-W74, V90, V92

Suffocation – W75-W84

Fire/Flames – X00-X09

Burn/Scald – X10-X19

Cut/Pierce – W25-W29, W45

Struck By – W20-W22, W50-W52

Bite/Sting – W53-W59, X20-X27, X29

Overexertion – X50

SUICIDE (SELF-INFLICTED INJURY)

Poisoning – X60-X69

Firearm – X72-X74

Hanging – X70

Cut/Pierce – X78

HOMICIDE (ASSAULT INJURY)

Firearm – X93-X95, U01.4

Cut/Pierce – X99

Struck By – Y00, Y04

INJURY OF UNDETERMINED INTENT

Poisoning – Y10-Y19

INJURY HOSPITALIZATIONS

Source of Data

The Pennsylvania Health Care Cost Containment Council (PHC4) is the source for all injury hospitalization data in this report. This data, which includes hospital charge and treatment information, is collected on a quarterly basis and is then verified by PHC4 staff. Please see the PHC4 website www.phc4.org for more information.

The hospitalization injury data set used in this report is a subset of the entire inpatient hospitalization data set received from PHC4. The following steps are used to create the hospitalization injury data set:

1. The total hospitalization data set, when received, is grouped by quarter. The four quarters are combined to get a data set for the entire year.
2. A list of facilities in operation for each of the four quarters, also from PHC4, is created. For this report, only specialty general acute care, long-term acute care and general acute care facilities are included.
3. The list of facilities is merged with the total hospitalization data set. Only hospitalizations of Pennsylvania residents treated at an acute facility are included.
4. The E-code field is searched. If invalid E-codes are found, the field is changed to a blank. If a location ecode (E849) is found, it is moved to a separate location field.
5. If there is no valid E-code in the E-code field, the primary and secondary diagnosis fields are searched for a valid E-code. The **first** valid E-code found in one of these diagnosis fields is moved to the E-code field.
6. All records with a valid E-code in the E-code field **or** a valid N-code in the primary diagnosis field are included in the hospitalization injury data set. See the chart below for inclusion and exclusion criteria for N-codes.

Include	Exclude
800–909.2	< 800
909.4,909.9	909.3, 909.5
910–994.9	995.0–995.4
995.5–995.59	995.6–995.7
995.80–995.85	995.86,995.89
	995.90–995.94
	996–999

Data Confidentiality

The confidentiality of hospitalization discharge records is maintained by PHC4. The release of individual identifying information by the Pennsylvania Department of Health is forbidden. Please contact PHC4 at www.phc4.org for more information.

Data Quality

The responsibility for hospital data quality testing and editing lies with PHC4. Please contact PHC4 at www.phc4.org for more information.

Some of the limitations to consider when interpreting hospitalization data include:

- The consistency with which E-codes are used and assigned may vary among hospitals.
- The variation in the specificity among E-codes and the use of non-specific E-codes.
- The 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.
- The possibility of double counting some cases because re-admissions and transfers were not removed. This could happen, for example, if a patient was admitted to a hospital and then transferred to a different hospital.
- Hospital coding errors are not always captured during the PHC4 editing process and may have resulted in a small number of coding errors being introduced in some fields.

Injury Cause Definitions

Hospitalization data are classified according to the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM). Current coding definitions are based on the "Consensus Recommendations for Using Hospital Discharge Data for Injury Surveillance", published by the Safe States Alliance (formerly STIPDA) in 2003. The list below shows the cause of hospitalization and corresponding ICD-9-CM external cause of injury codes (E-codes) used to classify injury hospitalizations in this report.

INJURY CAUSE	ICD-9-CM CODES
All Injuries	See '*Source of Data'* above. Full PHC4 dataset included.
Unintentional Injuries	E800-E869, E880-E929
Motor Vehicle Traffic	E810-E819
Unintentional Falls	E880-E886, E888
Poisoning	E850-E869, E950-E952, E962, E972, E980-E982, E979 (.6, .7)
Self-Poisoning	E950-E952
All Self-Inflicted	E950-E959
All Assault	E960-E969, E979, E999.1

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

These are the injury definitions used in the rankings for leading causes of hospitalization.

UNINTENTIONAL INJURY

Falls – E880-E886, E880

Poisoning – E850-E858, E860-E869

MVT Occupant – E810-E819 (.0-.1)

MVT Motorcycle – E810-E819 (.2-.3)

Pedal Cycle – E800-E807 (.3), E810-E825 (.6), E826-E829 (.1), E826.9

Pedestrian – E800-E807 (.2), E810-E825 (.7), E826-E829 (.0)

Transport – E800-E807 (*), E810-E825 (*), E826-E829 (*), E831, E833-E848 (*all remaining)

Firearm – E922 (.0-.3, .8-.9)

Drowning – E830, E832, E910

Suffocation – E911-E913

Fire/Flames – E890-E899

Burn/Scald – E924

Cut/Pierce – E920

Struck By – E916-E917

Bite/Sting – E905 (.0-.6, .9), E906 (.0-.5, .9)

Overexertion – E927

SELF-INFLICTED INJURY

Poisoning – E950-E952

Firearm – E955 (.0-.4)

Hanging – E953.0

Cut/Pierce – E956

ASSAULT INJURY

Firearm – E965 (.0-.4), E9794

Cut/Pierce – E966

Struck By – E960.0, E968.2

INJURY OF UNDETERMINED INTENT

Poisoning – E980-E982

POPULATION NUMBERS

Source of Data

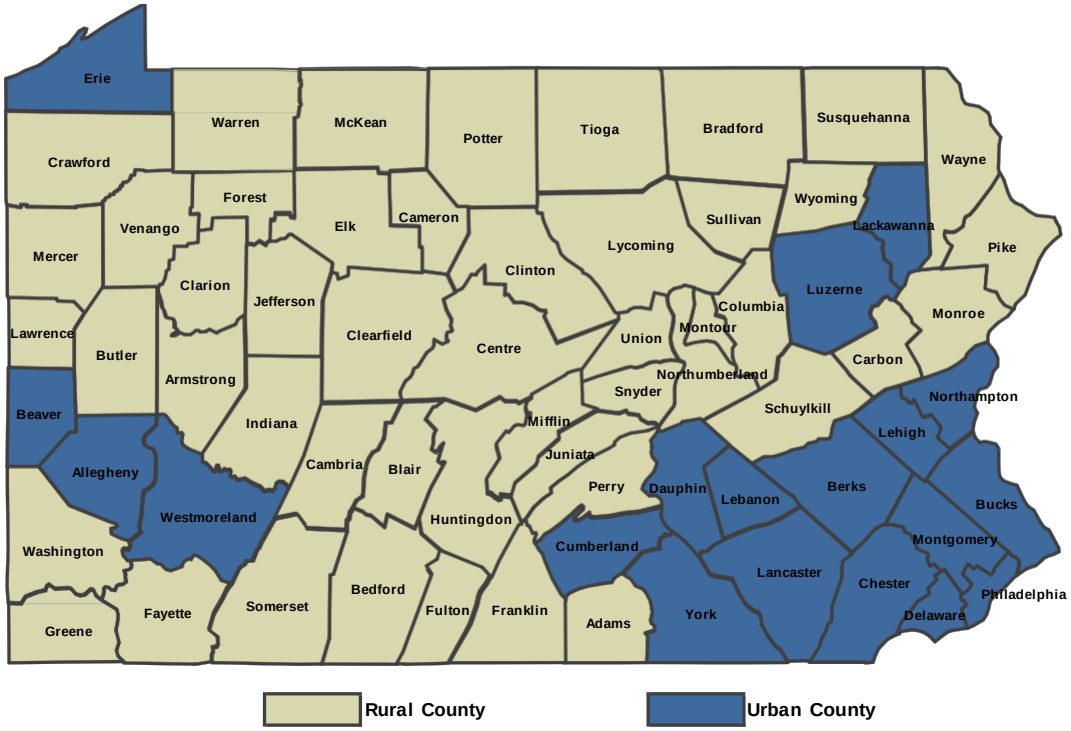
Population estimates for the years 2007-2011 used to compute rates were produced jointly by the United States Bureau of the Census and the State Data Center of the Pennsylvania State University at Harrisburg under the Federal-State Cooperative Program for Local Population Estimates. They are generated 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 Enterprise Data Dissemination Informatics Exchange (EDDIE) system, which can be accessed through the Pennsylvania Department of Health, Bureau of Health Statistics website at www.health.state.pa.us/stats/.

Urban/Rural Definitions

Definitions of urban and rural used in this report are taken from the Center for Rural Pennsylvania, 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 284 persons per square mile (the population density of Pennsylvania as of the 2010 Census), then the county is classified as urban. If a county has a population density less than 284 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

Definitions

AGE-SPECIFIC RATE -

Number of events for a specified age group per 100,000 population of that age.

AGE-ADJUSTED RATE (DIRECT METHOD) -

Age-specific rates for a selected population are applied to a standard population (in this report the 2000 United States standard million population was used) to calculate what rate **would be expected** if the selected population had the same age distribution as the standard population. The total of these expected events divided by the total of the standard population and multiplied by 100,000 yields the age-adjusted rate per 100,000.

It is important to use the same standard population in the computation of each age-adjusted rate to allow comparability among age-adjusted rates. Age-adjusted rates are artificial measurements and should never be compared with any other type of rate or be used to calculate the actual number of events. The age distribution for the 2000 United States standard million population, used in calculating rates for this report, is shown below:

2000 US STANDARD POPULATION

All Ages	274,634
0-4	18,987
5-9	19,920
10-14	20,057
15-19	19,820
20-24	18,257
25-29	17,722
30-34	19,511
35-39	22,180
40-44	22,479
45-49	19,806
50-54	17,224
55-59	13,307
60-64	10,654
65-69	9,410
70-74	8,726
75-79	7,415
80-84	4,900
85+	4,259

Reliability of Rates

Rates based on a random sample of a population are subject to error due to sampling variability. Yet rates based on full population counts (as in this report) are also estimates subject to error. An observed death rate can be thought of as a sample or estimate of the true or underlying death rate. This idea of an "underlying" death rate is an abstract concept, since the observed rate did actually occur, but it is this underlying rate that health policies should seek to address rather than annual rates, which may fluctuate dramatically.

Variation of a rate is directly related to the number of events used to calculate the rate. The smaller the number of events used in the calculation of a rate, the higher the variability of the rate will be. Rates based on small numbers of events, as well as rates for a geographic area or demographic group with very small population, should be of particular concern and be used cautiously.

When few events or small populations are evident in calculating/studying rates, multiple-year summary rates, referred to as average annual rates, will sometimes provide a much better perspective or measurement of an outcome. Expanding the period of time studied enlarges the absolute numbers and adds more credence to a statement regarding a rate. The next section details the method used in this report to calculate average annual rates.

It is also common practice among data users familiar with health statistics to calculate what is called a standard error (SE) of a rate. This statistic defines a rate's variability and can be used to calculate a confidence interval (CI) to determine the actual variance of a rate 95 percent of the time. Standard error and confidence intervals are discussed in the section 'Comparing Age-Adjusted Rates'.

Calculating Average Annual Rates

The average annual rate is a ratio of the number of events of interest in an at-risk population over a multi-year period, divided by the sum of populations at-risk each year. Note: the denominator does **not** reflect an estimate of the actual population for the multi-year period, as individuals who lived in the same county for more than one year would be counted more than once. Rather, the number reflects units of time spent in residence.

Use the following formula to compute average annual rate:

$$\frac{\sum_{i=1}^{n} k_i}{\sum_{i=1}^{n} p_i} \times 100{,}000 = \text{Rate per } 100{,}000 \quad \text{per year}$$

Where:

k_i = number of events of interest for the ith year of the multi-year period
p_i= population estimate (or Census count) in the ith year of the multi-year period
n= number of years in the multi-year period

Example: Calculating Average Annual Rates

Below is the data for deaths due to unintentional falls in Allegheny County for all persons age 80-84 for the years 2006-2008. Let's use this data to calculate an average annual death rate for this multi-year period.

UNINTENTIONAL FALLS DEATHS, 2006-2008

County	Year	Age	Count	Population
Allegheny	2006	80-84	13	34,461
Allegheny	2007	80-84	16	34,088
Allegheny	2008	80-84	29	33,507

First compute the numerator. The number of deaths, or count, is the event of interest. Because there are three years in the multi-year period, n=3.

$$\sum_{i=1}^{3} k_i = k_1 + k_2 + k_3 = 13 + 16 + 29 = 58$$

Next compute the denominator. It is the sum of the annual population estimates.

$$\sum_{i=1}^{3} p_i = p_1 + p_2 + p_3 = 34{,}461 + 34{,}088 + 33{,}507 = 102{,}056$$

Finally put these values into the formula to compute the average annual death rate.

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

Comparing Age-Adjusted Rates

As mentioned above, a first step in comparing rates is the computation of a standard error (SE), defining the rate's variability. The usual formula given for computing the standard error of an age-adjusted rate (Chiang, 1961) is very complex and not often understood or used by the average health data user. However, the standard error can be approximated with the following less complex formula (Keyfitz, 1966):

$$\mathbf{SE = R / \sqrt{N}}$$

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:

$$\mathbf{R \pm (1.96 \times SE)}$$

Following this formula for the rate in this example produces a value of $14.7 \pm (1.96 \times 0.15)$, which is equal to 14.7 ± 0.30. By subtracting and adding 0.30 to the original rate of 14.7, a range is produced. This range (14.4 –15.0) is the estimated 95 percent confidence interval for the rate. One could then state with 95 percent certainty that the actual age-adjusted rate of poisoning deaths for the state during 2004-2008 was between 14.4 and 15.0.

To compare a particular county's age-adjusted poisoning death rate for 2004-2008 with the state's corresponding rate, one repeats the steps shown above to obtain a 95 percent CI for that county's rate. If the CIs for the state and county rates do not overlap, then the two rates are considered to be significantly different at the 95 percent confidence level.

Note: Confidence limits in this report are only shown rounded to the nearest tenth. Yet significance tests use the CIs before they are rounded in order to determine significance. Therefore, it is possible for a county's upper or lower confidence limit (rounded) to appear equal to the state's upper or lower confidence limit and have the county rate still be significantly different from the state rate. Comparison of confidence limits is an approximate method.

Example: Comparing Age-Adjusted Rates

As an example, the following table shows the total counts, age-adjusted rates and confidence intervals for poisoning deaths in Pennsylvania, as well as Blair, Cambria and Huntingdon Counties for 2004-2008.

POISONING DEATHS, PA 2004-2008

County	Count	Rate	CI
Pennsylvania	8,954	14.7	14.4-15.0
Blair	97	16.2	12.9-19.4
Cambria	182	26.0	22.2-29.8
Huntingdon	20	8.4	4.7-12.1

Both Blair and Cambria counties had poisoning death rates above the state rate. However, upon closer examination, we see that the state rate fell within the CI for Blair County. Therefore, we can say (with 95 percent confidence) that there was no significant difference between the poisoning death rates in Blair County and Pennsylvania. On the other hand, Cambria County's CI did **not** contain the value of the state rate. Thus, we can say that Cambria County's poisoning death rate was significantly higher than the state's rate for the period of 2004-2008. By similar logic, we can say that Huntingdon County's poisoning death rate was significantly lower than the state's rate for 2004-2008.

This example points to an important result that the user should note. The smaller the number of events upon which the rate is based, the larger the SE and range of the CI will be. This clearly demonstrates the greater variability (and lower reliability) of rates based on smaller numbers. As a general rule, <u>age-adjusted rates based on fewer than 20 events are considered "not statistically reliable" (NSR) and are not recommended for comparative use or in determining significance.</u> 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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