

# Injury Death Rates by State, Region, and County 2013-2015



Division of Injury and Violence Prevention

May 2017

# Injury Death Rates by County and Region

## Figure of Contents

<b>1. South Carolina .....</b>	<b>3</b>
1.1. All Injury .....	4
1.2. Intentional Injury .....	5
1.2.1. Homicide .....	6
1.2.2. Suicide .....	7
1.3. Unintentional Injury .....	8
1.3.1. Drowning.....	9
1.3.2. Falls .....	10
1.3.3. Firearms .....	11
1.3.4. Other Non-transport Accidents .....	12
1.3.5. Poisoning.....	13
1.3.6. Smoke and Fire.....	14
1.3.7. Transportation-Related.....	15
1.3.8. Motor Vehicle Crashes.....	16
<b>2. Low Country Region .....</b>	<b>17</b>
2.1. All Injury .....	18
2.2. Unintentional Injury .....	19
2.3. Intentional Injury .....	19
2.4. Homicide .....	20
2.5. Suicide .....	20
2.6. Drowning.....	21
2.7. Falls .....	21
2.8. Firearms .....	22
2.9. Other Non-transport Accidents .....	22
2.10. Poisoning.....	23
2.11. Smoke and Fire.....	23
2.12. Transportation-Related.....	24
2.13. Motor Vehicle Crashes.....	24
<b>3. Midlands Region .....</b>	<b>25</b>
3.1. All Injury .....	26
3.2. Unintentional Injury .....	27
3.3. Intentional Injury .....	27
3.4. Homicide .....	28
3.5. Suicide .....	28
3.6. Drowning.....	29
3.7. Falls .....	29
3.8. Firearms .....	30
3.9. Other Non-transport Accidents .....	30
3.10. Poisoning.....	31
3.11. Smoke and Fire.....	31

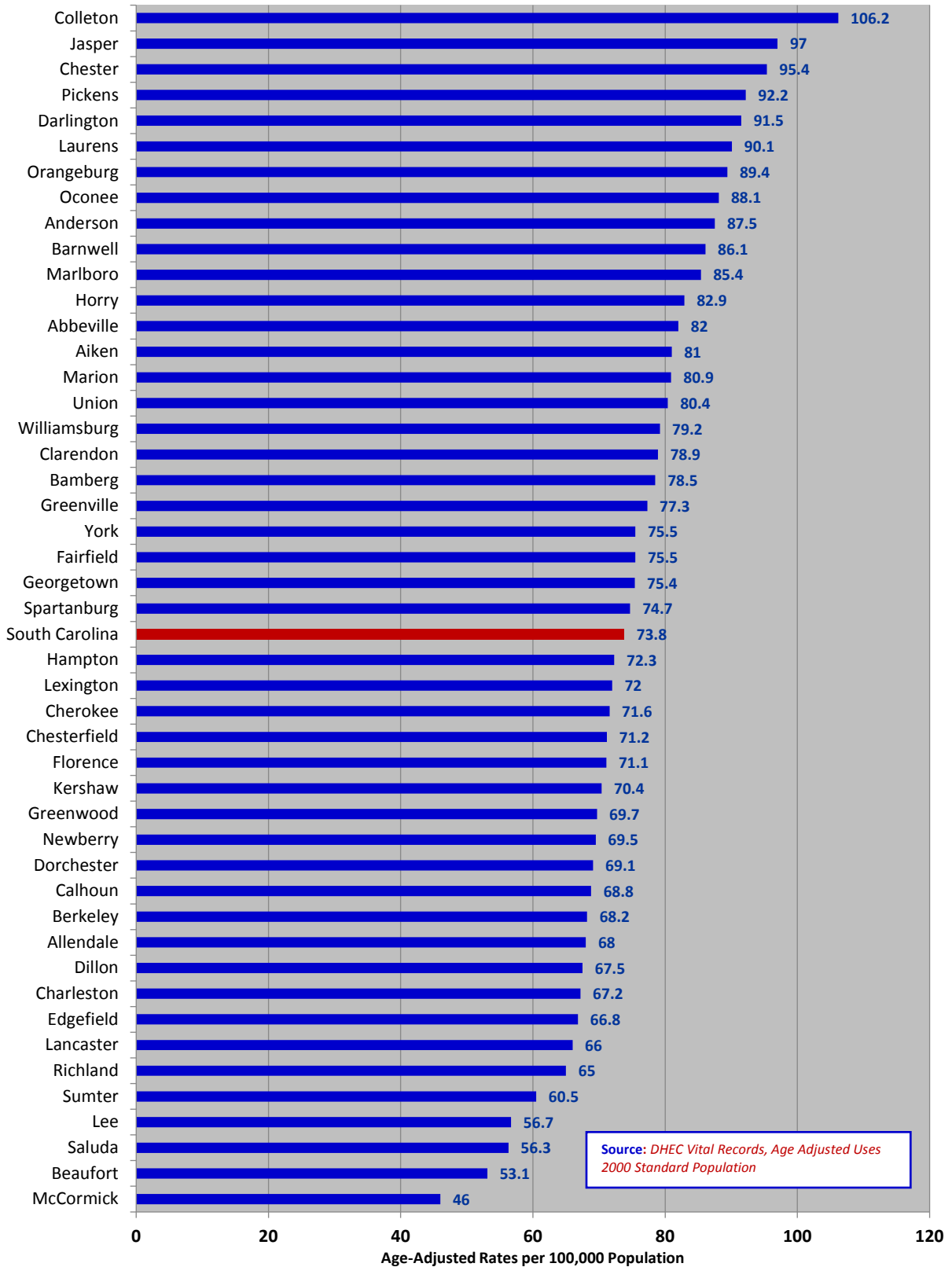
## Injury Death Rates by County and Region

3.12. Transportation-Related.....	32
3.13. Motor Vehicle Crashes.....	32
<b>4. Pee Dee Region.....</b>	<b>33</b>
4.1. All Injury .....	34
4.2. Unintentional Injury.....	35
4.3. Intentional Injury .....	35
4.4. Homicide .....	36
4.5. Suicide.....	36
4.6. Drowning.....	37
4.7. Falls .....	37
4.8. Firearms .....	38
4.9. Other Non-transport Accidents .....	38
4.10. Poisoning.....	39
4.11. Smoke and Fire.....	39
4.12. Transportation-Related.....	40
4.13. Motor Vehicle Crashes.....	40
<b>5. Upstate Region .....</b>	<b>41</b>
5.1. All Injury .....	42
5.2. Unintentional Injury.....	43
5.3. Intentional Injury .....	43
5.4. Homicide .....	44
5.5. Suicide.....	44
5.6. Drowning.....	45
5.7. Falls .....	45
5.8. Firearms .....	46
5.9. Other Non-transport Accidents .....	46
5.10. Poisoning.....	47
5.11. Smoke and Fire.....	47
5.12. Transportation-Related.....	48
5.13. Motor Vehicle Crashes.....	48
<b>6. Technical Notes .....</b>	<b>49</b>

# South Carolina

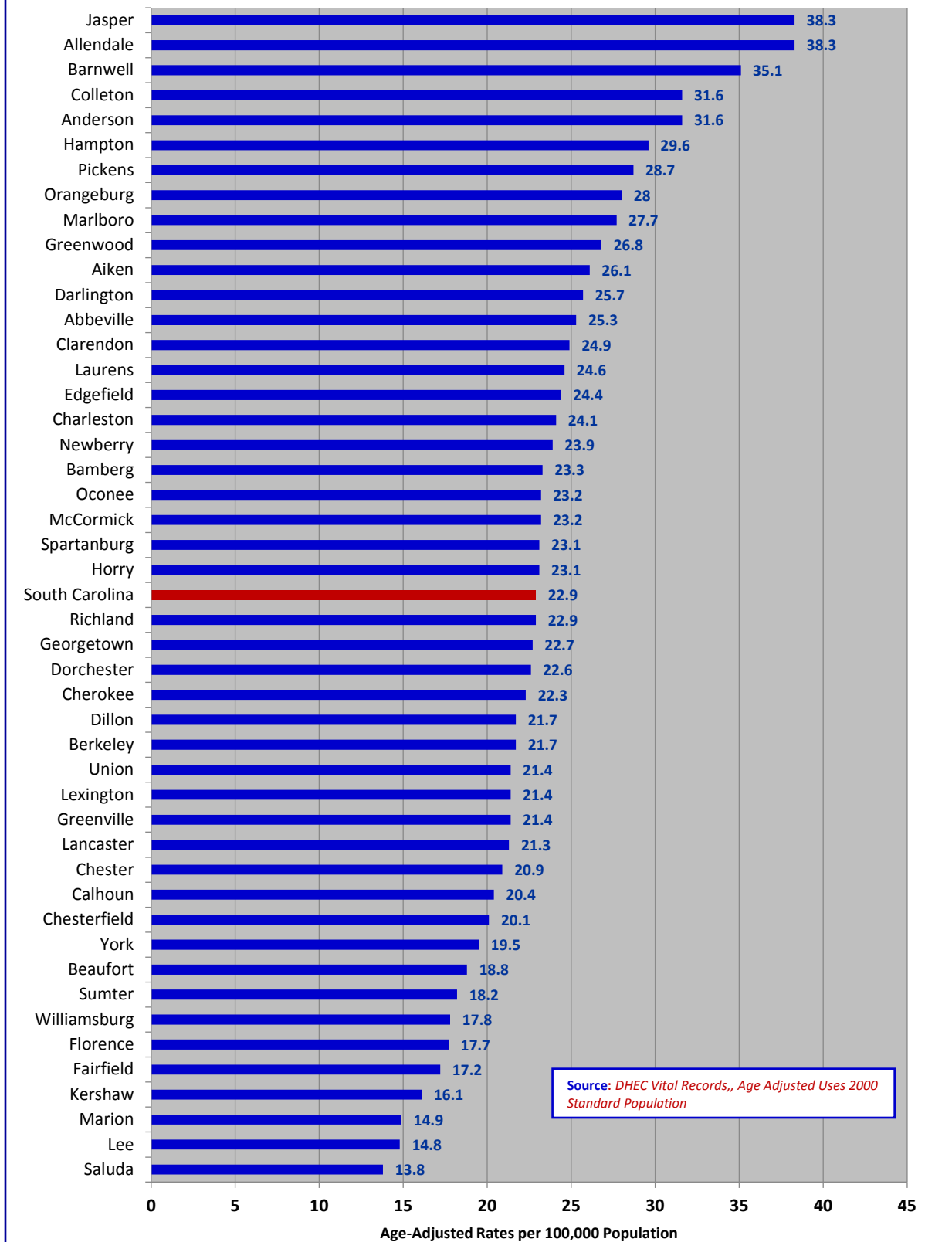
## Injury Death Rates by County and Region

**Figure 1.1.**  
**South Carolina: Rate of All Injury Deaths - 2013-2015**

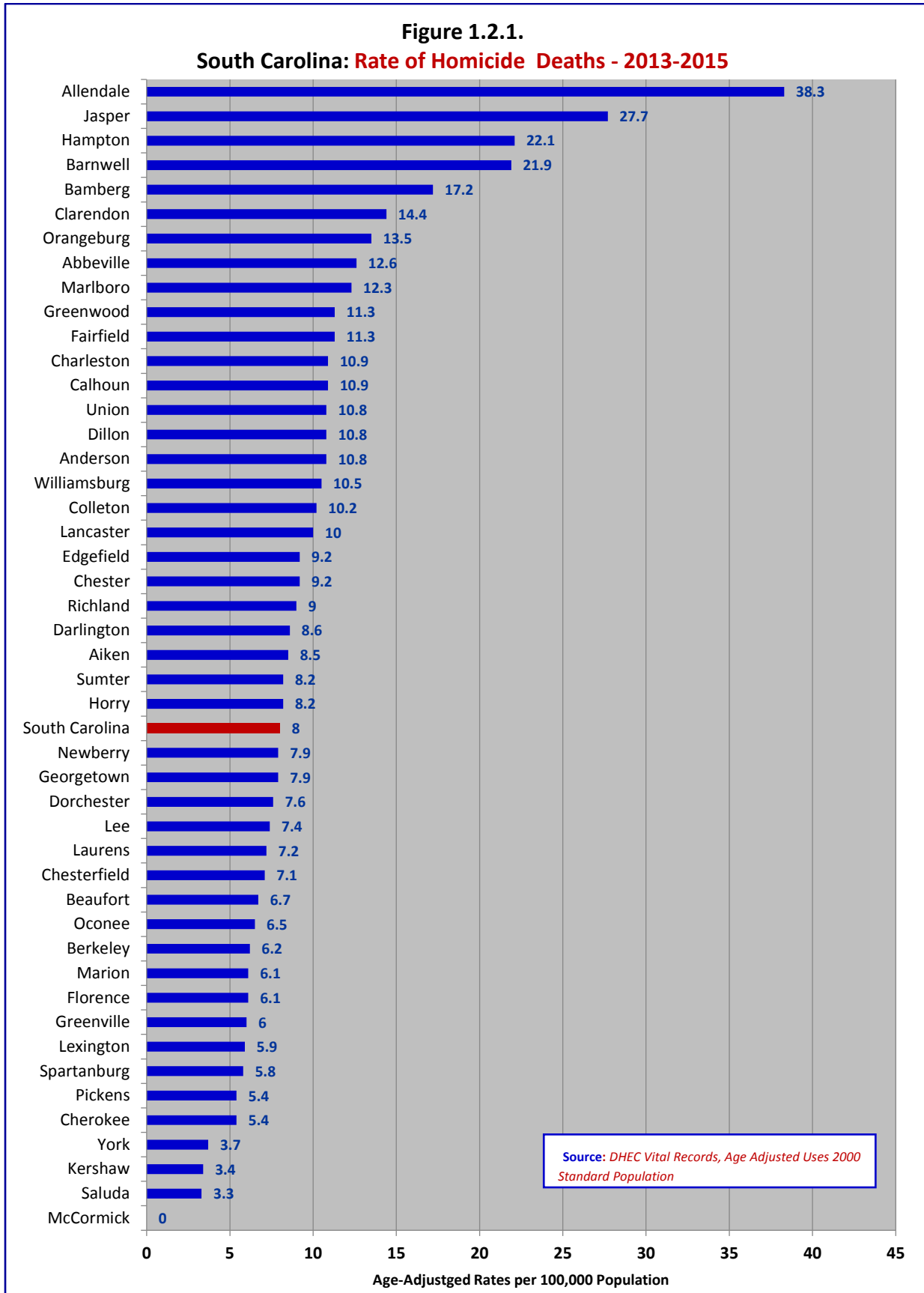


## Injury Death Rates by County and Region

**Figure 1.2.**  
**South Carolina: Rate of Intentional Injury Deaths - 2013-2015**

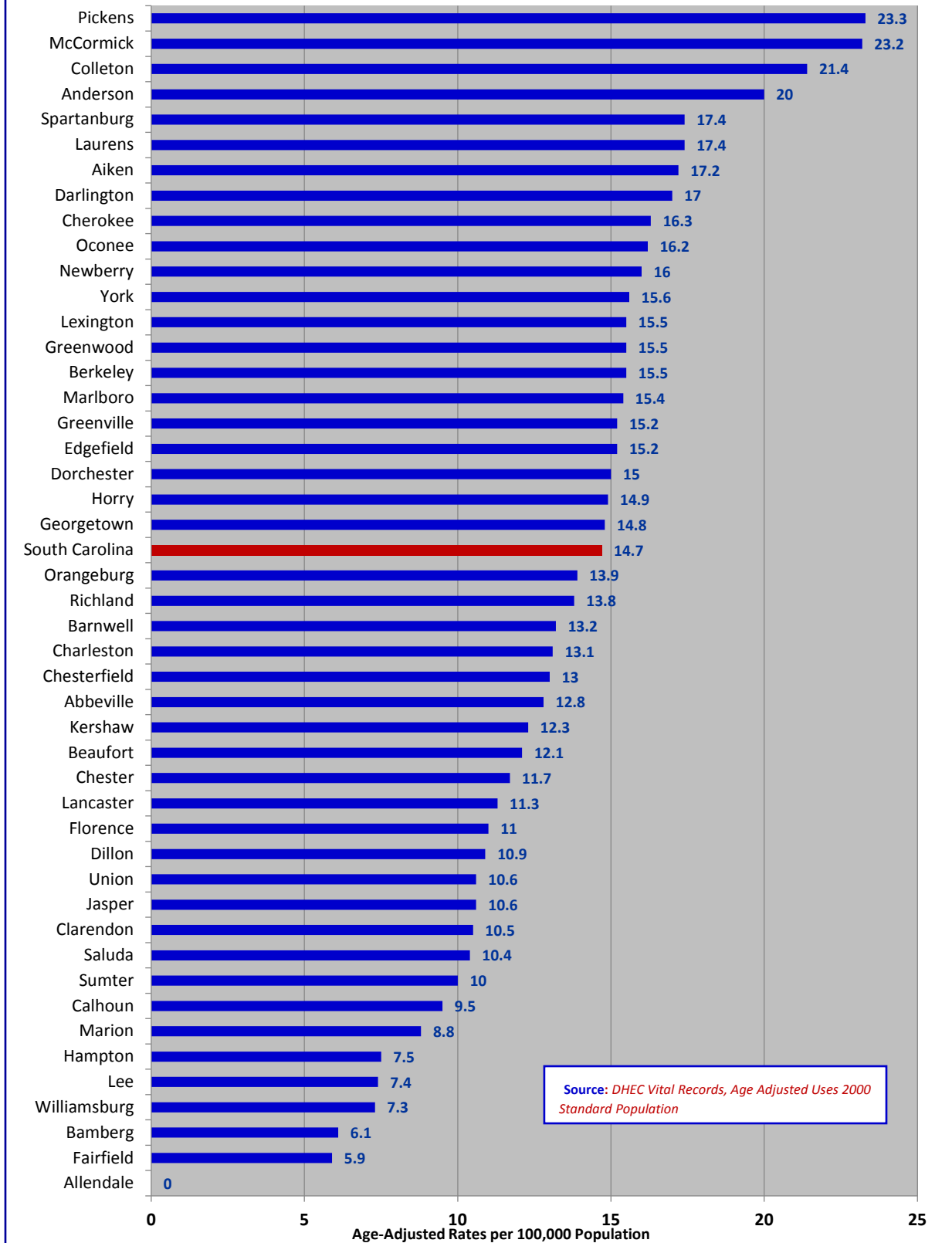


## Injury Death Rates by County and Region



## Injury Death Rates by County and Region

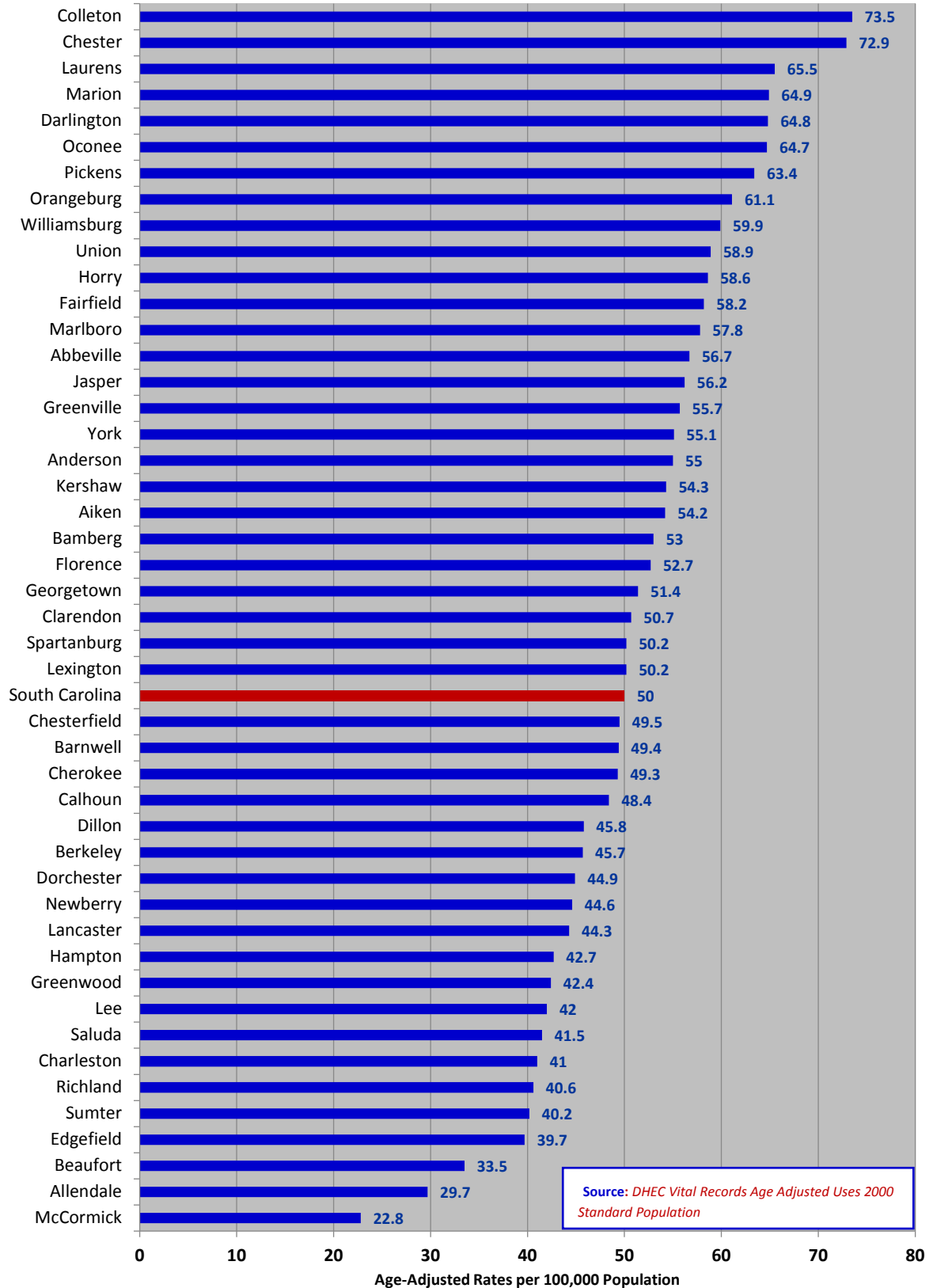
**Figure 1.2.2.**  
**South Carolina: Rate of Suicide Deaths - 2013-2015**





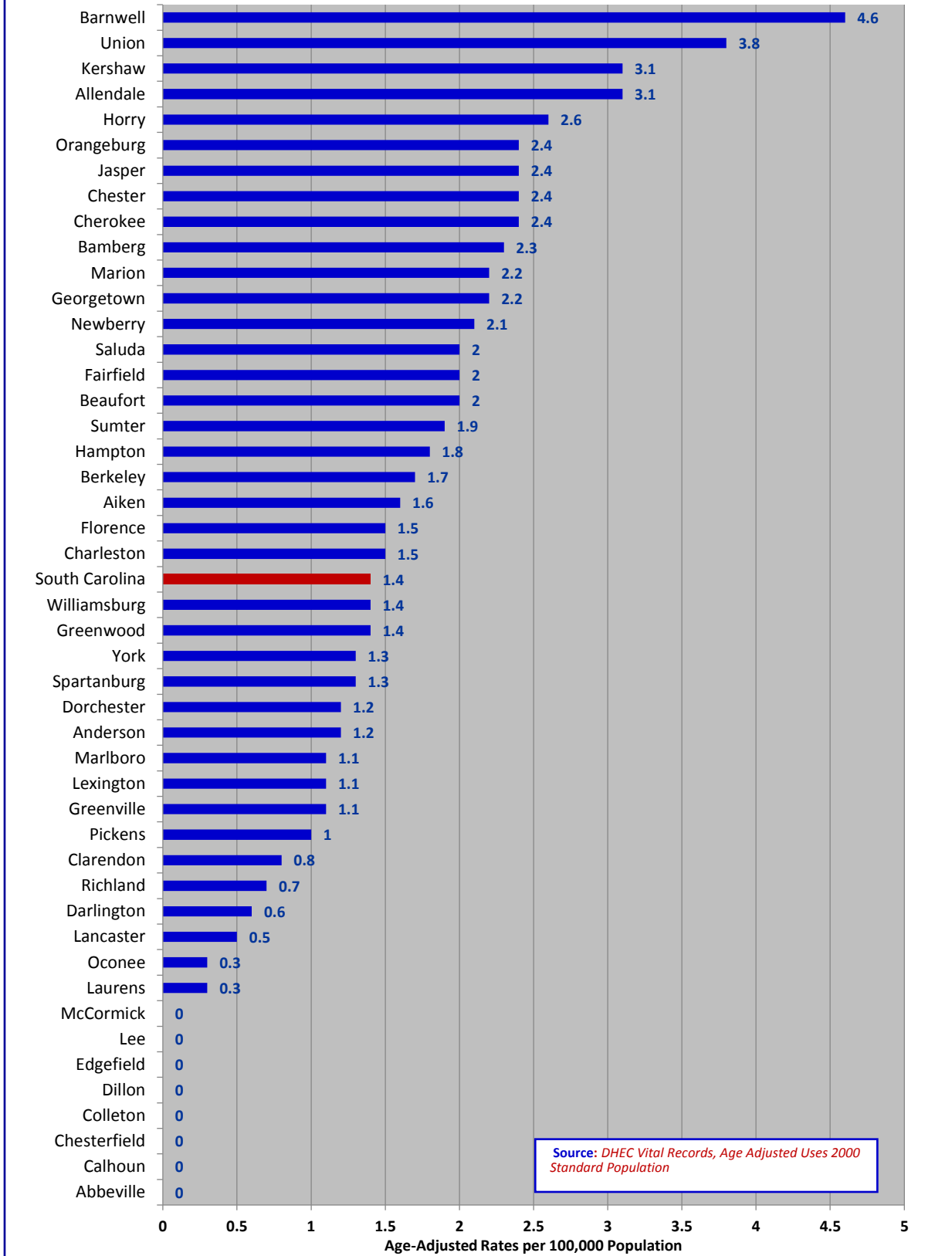
## Injury Death Rates by County and Region

**Figure 1.3.**  
**South Carolina: Rate of Unintentional Injury Deaths - 2013-2015**



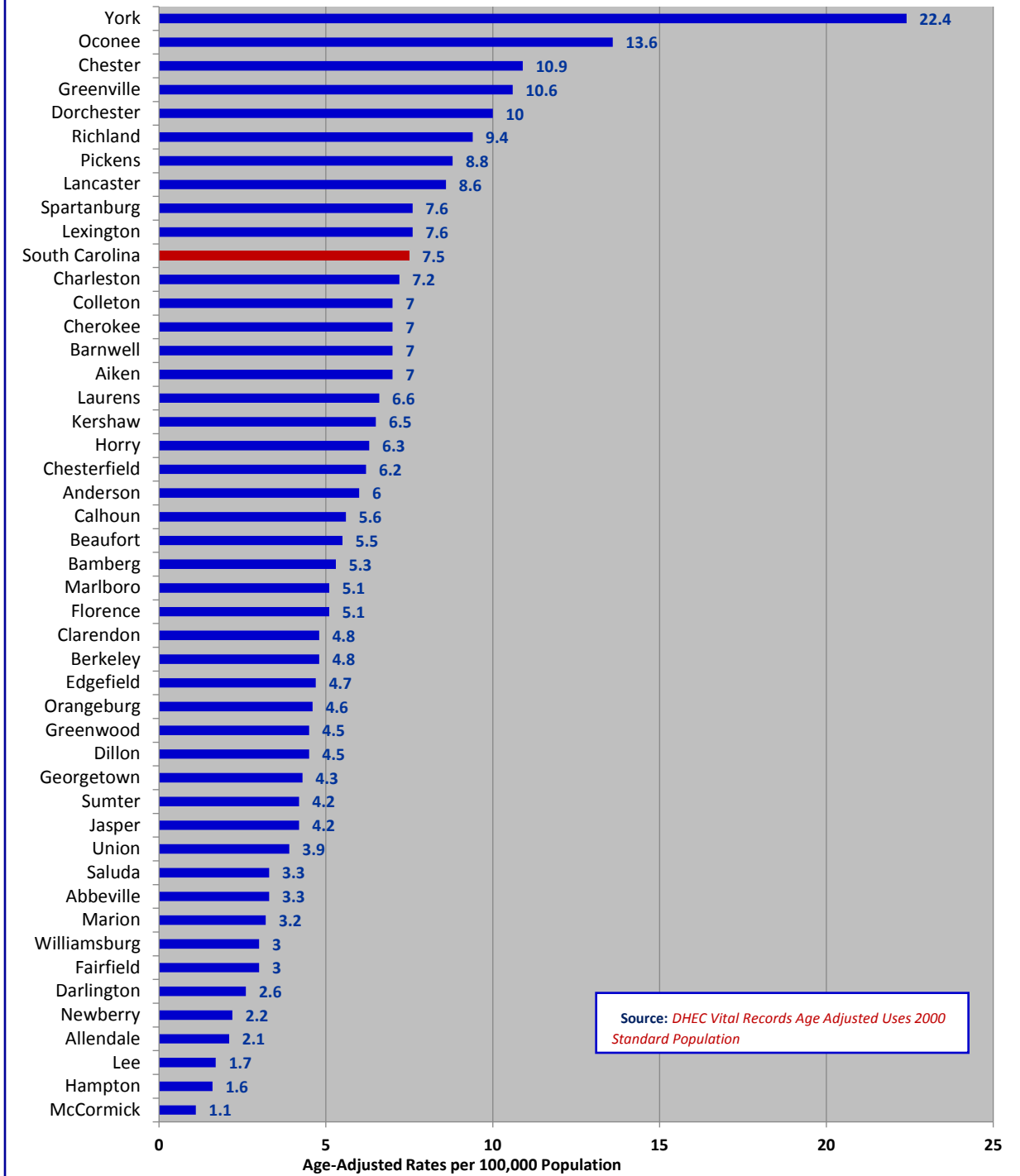
## Injury Death Rates by County and Region

**Figure 1.3.1.**  
**South Carolina: Rate of Drowning Deaths - 2013-2015**



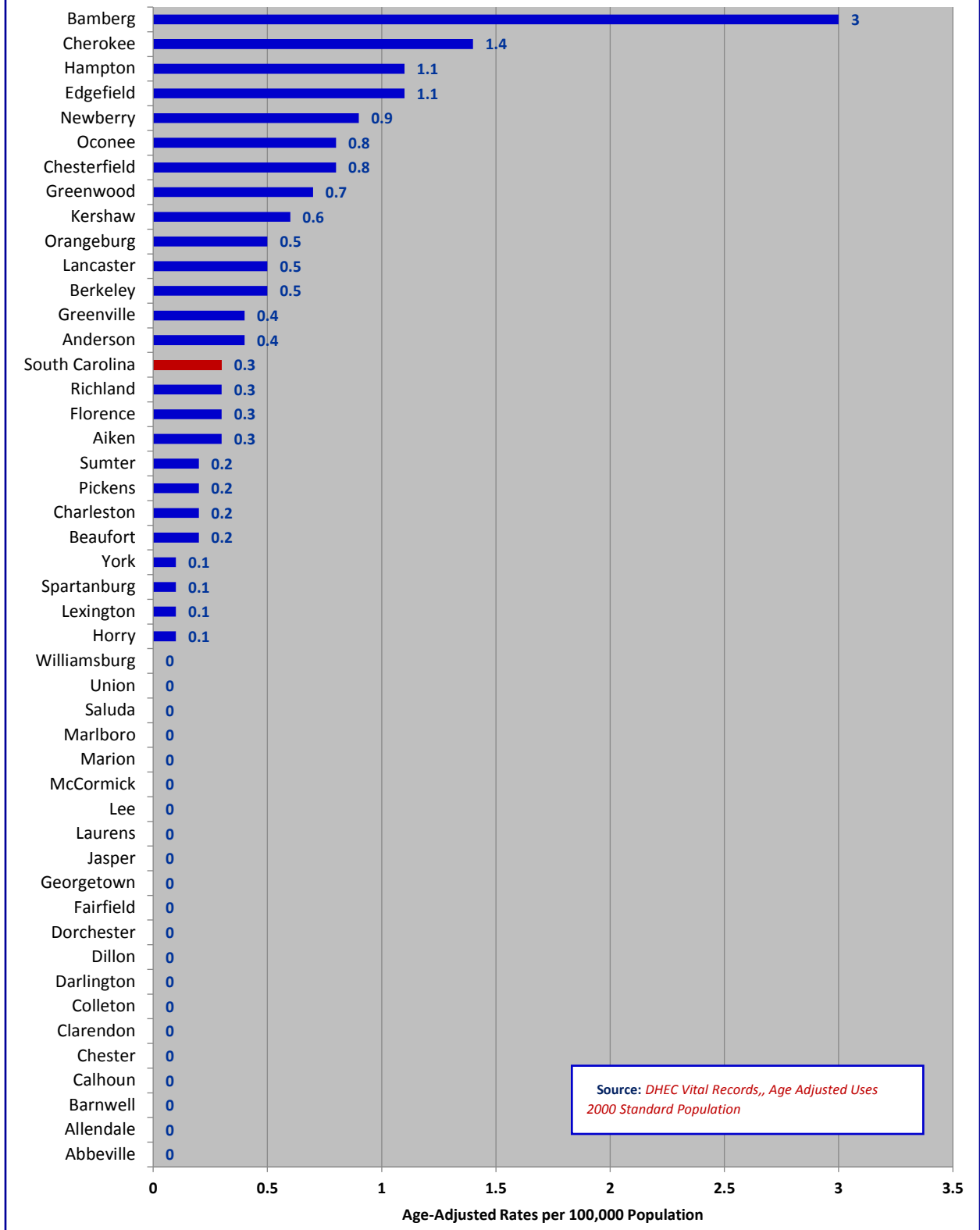
## Injury Death Rates by County and Region

**Figure 1.3.2.**  
**South Carolina: Rate of Falls Deaths - 2013-2015**



## Injury Death Rates by County and Region

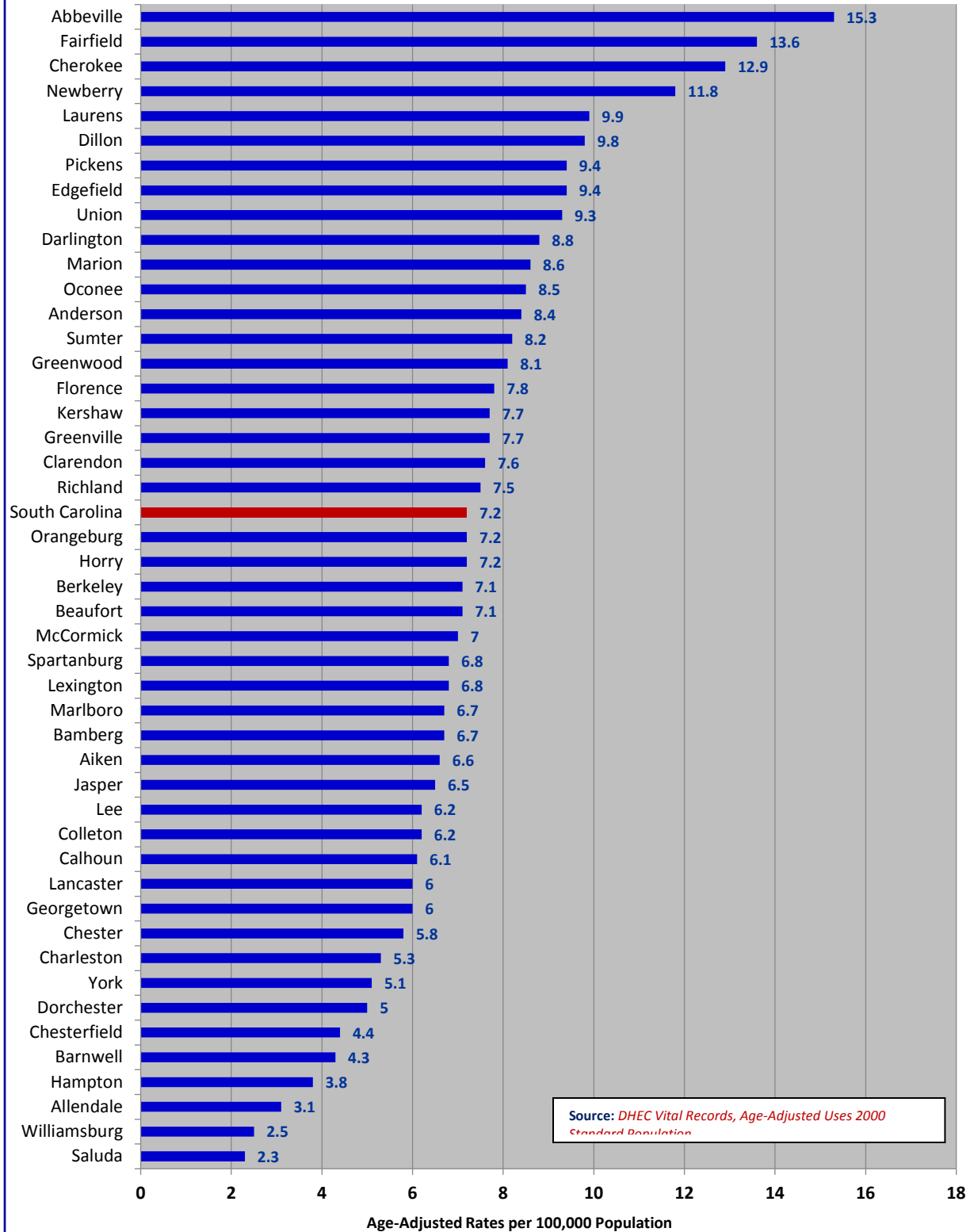
**Figure 1.3.3.**  
**South Carolina: Rate of Deaths Due to Accidental Firearm Discharge - 2013-2015**



Source: DHEC Vital Records,, Age Adjusted Uses  
 2000 Standard Population

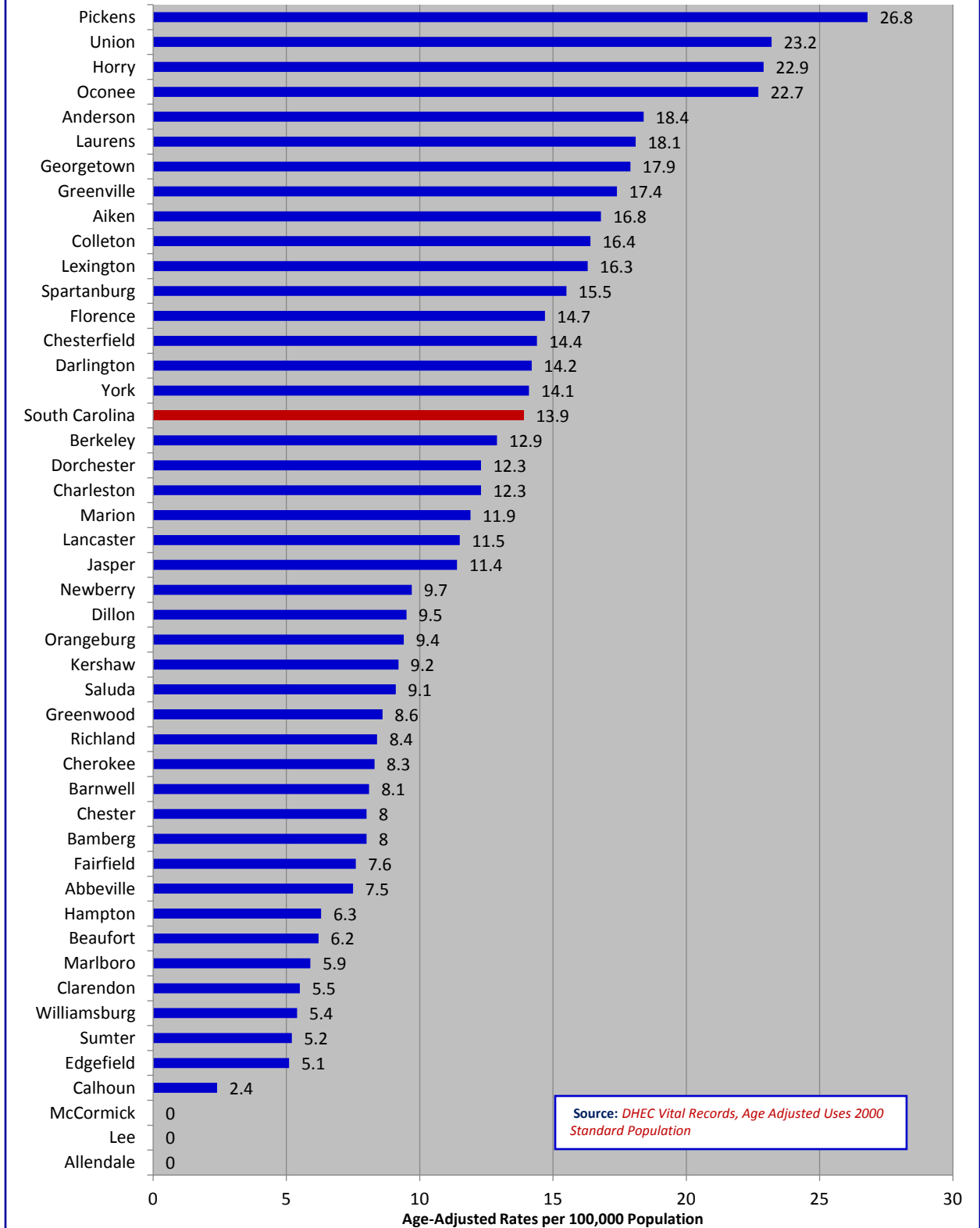
## Injury Death Rates by County and Region

**Figure 1.3.4.**  
**South Carolina: Rate of Deaths Due to Other Nontransport Accidents -**  
**2013-2015**



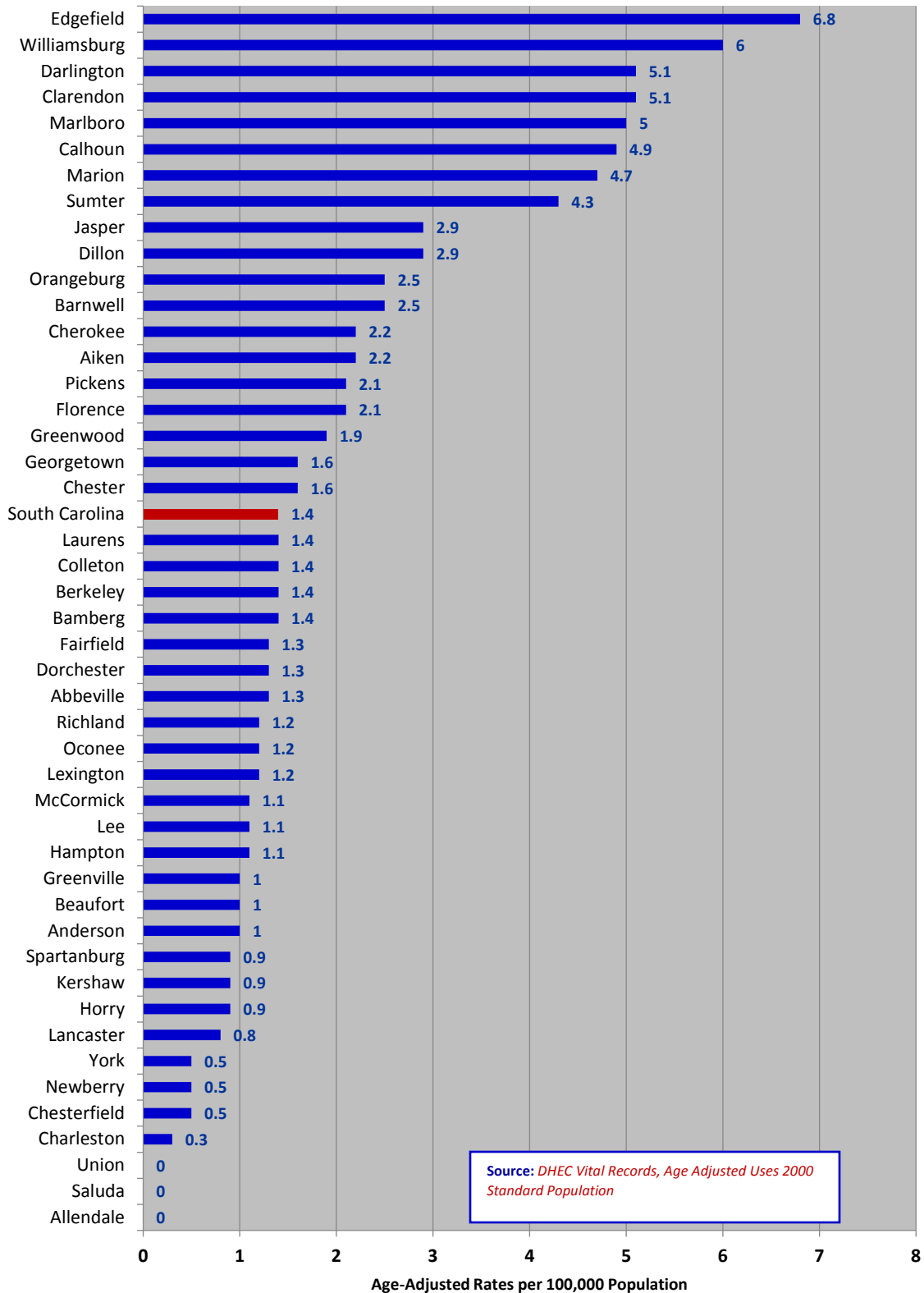
## Injury Death Rates by County and Region

**Figure 1.3.5.**  
**South Carolina: Rate of Accidental Poisoning Deaths - 2013-2015**



## Injury Death Rates by County and Region

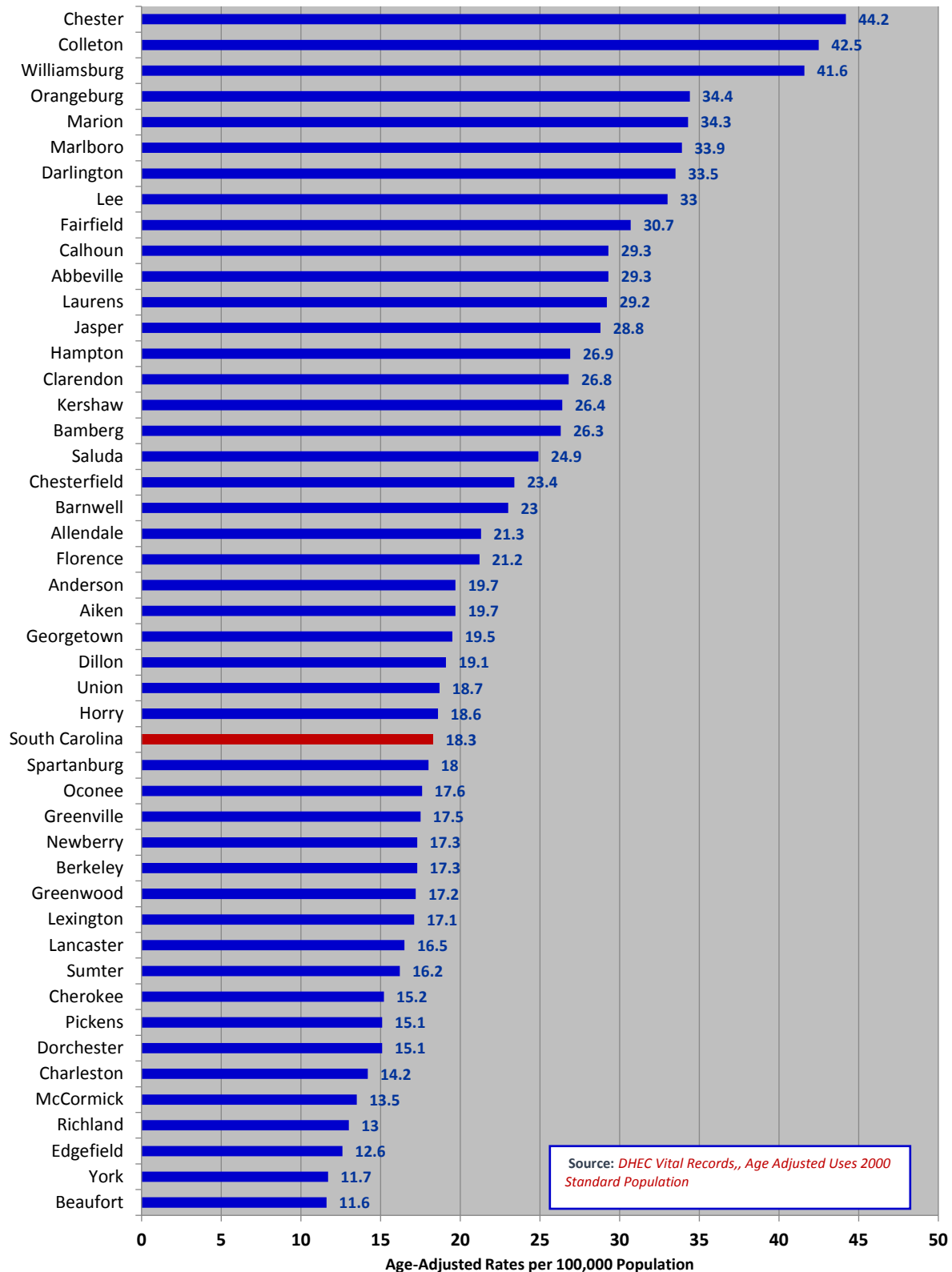
**Figure 1.3.6.**  
**South Carolina: Rate of Deaths Due to Smoke, Fire, or Flames -**  
**2013-2015**



Source: DHEC Vital Records, Age Adjusted Uses 2000 Standard Population

## Injury Death Rates by County and Region

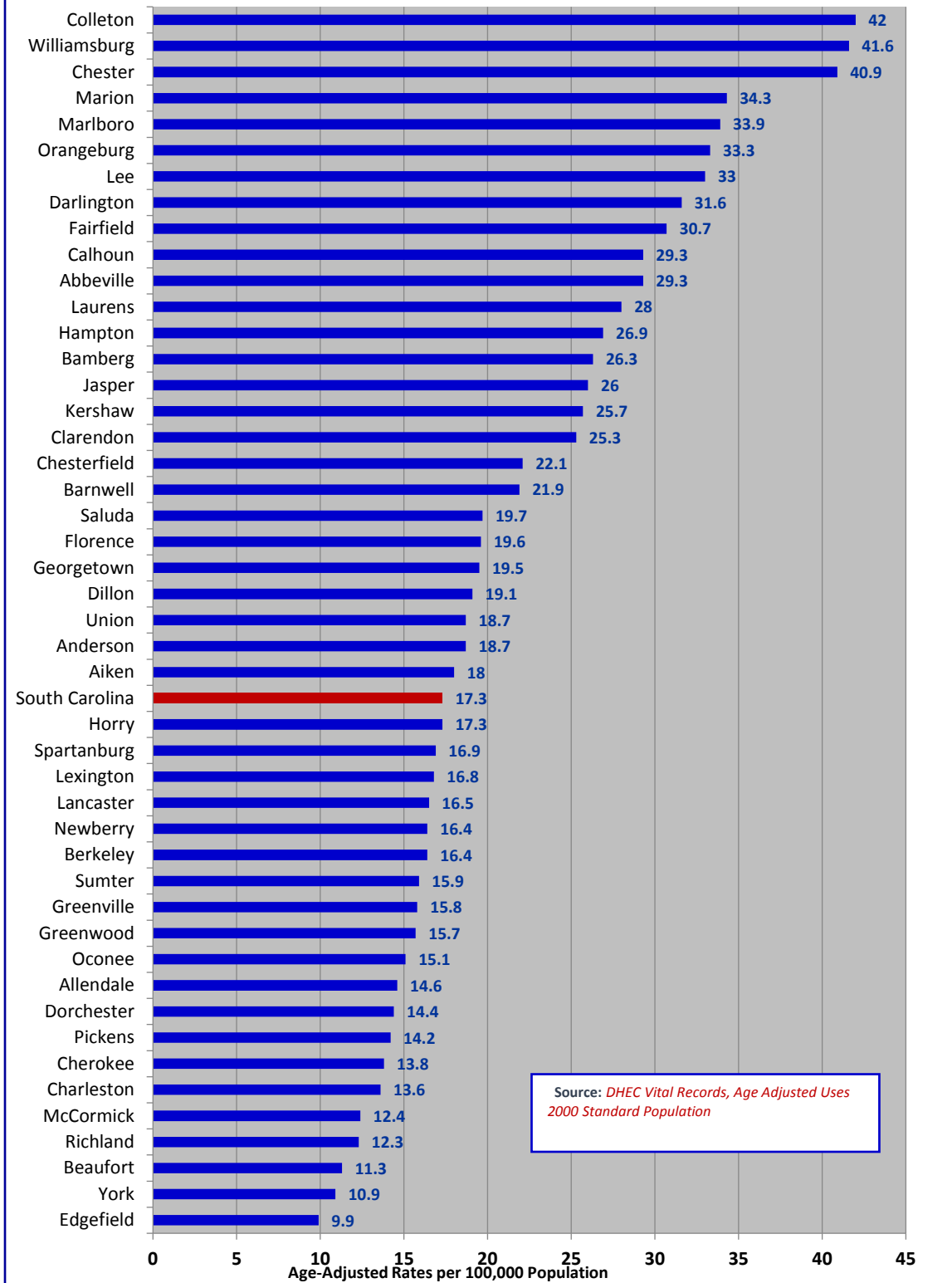
**Figure 1.3.7.**  
**South Carolina: Rate of Transportation-Related Deaths - 2013-2015**





## Injury Death Rates by County and Region

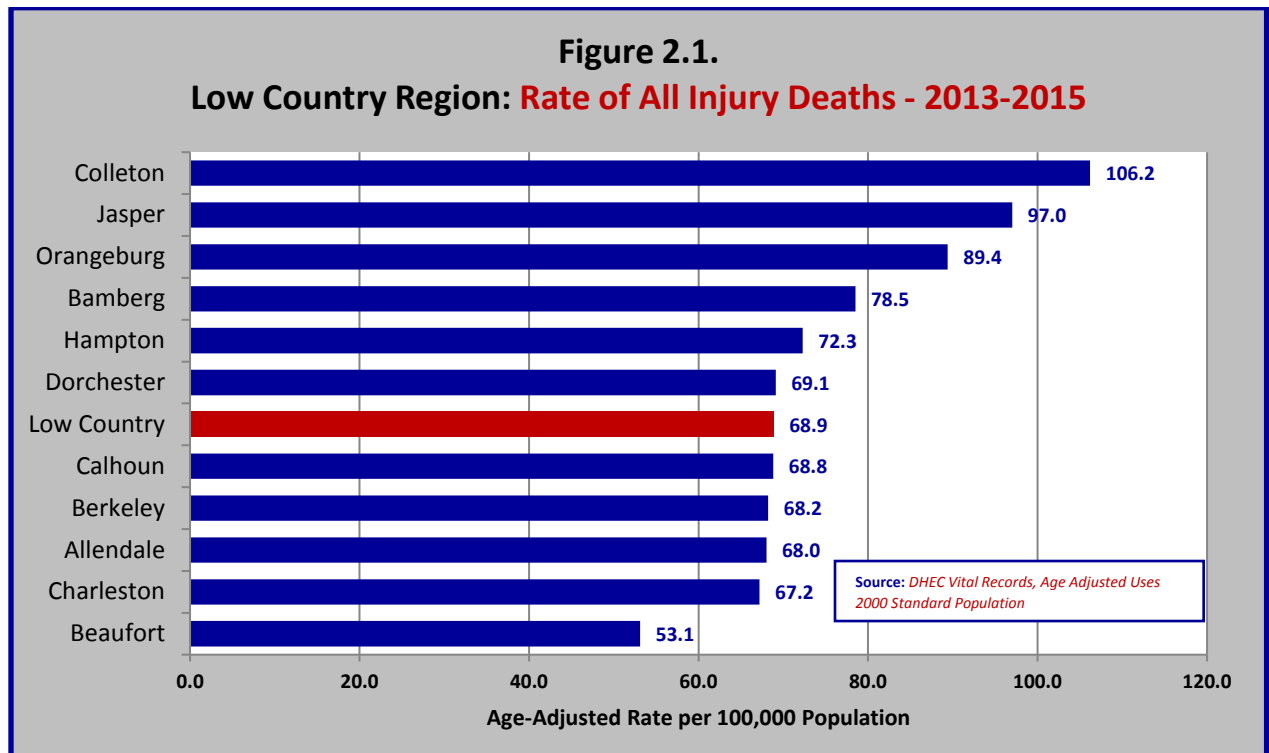
**Figure 1.3.8.**  
**South Carolina: Rate of Motor Vehicle Crash Deaths - 2013-2015**



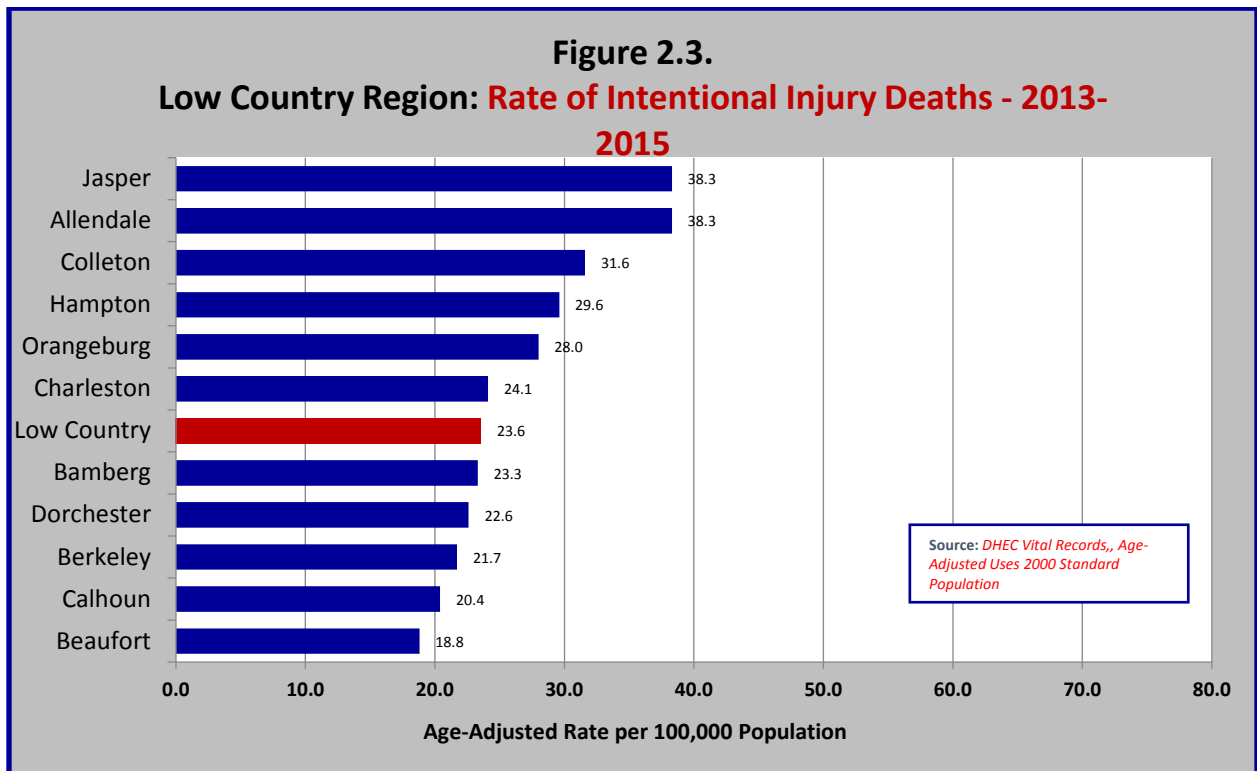
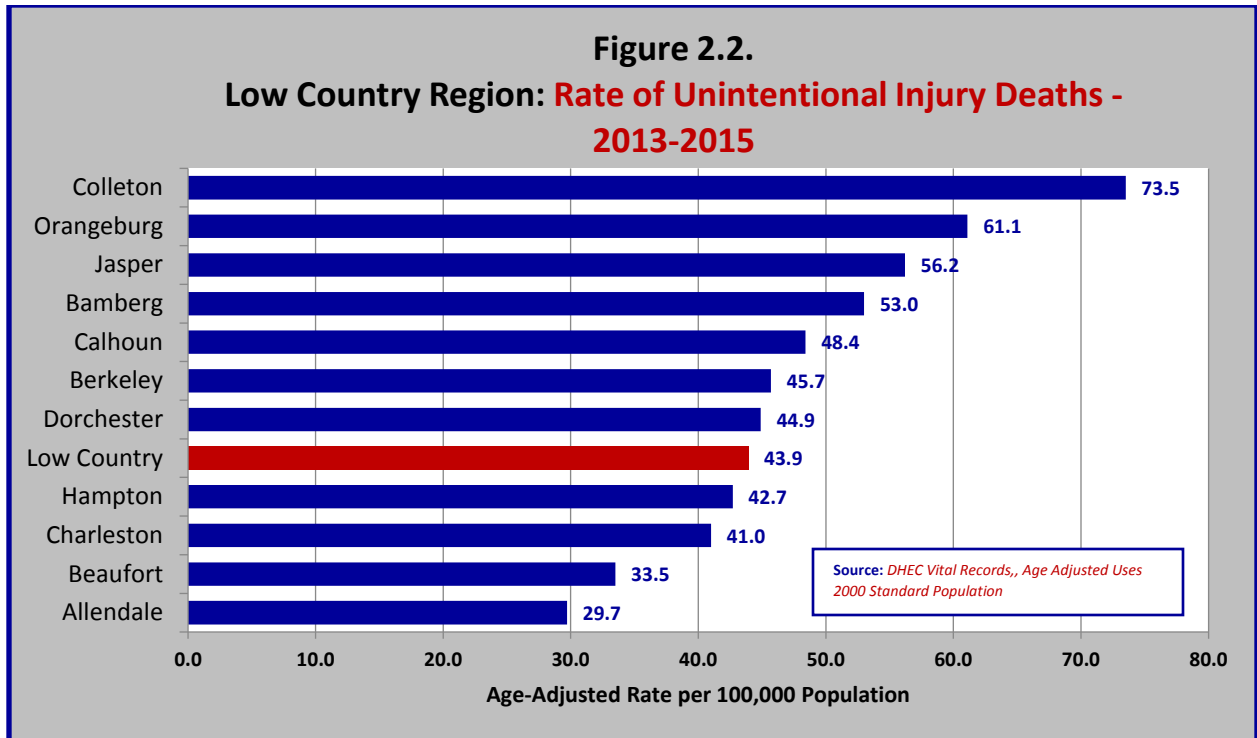
# Low Country Region

## Injury Death Rates by County and Region

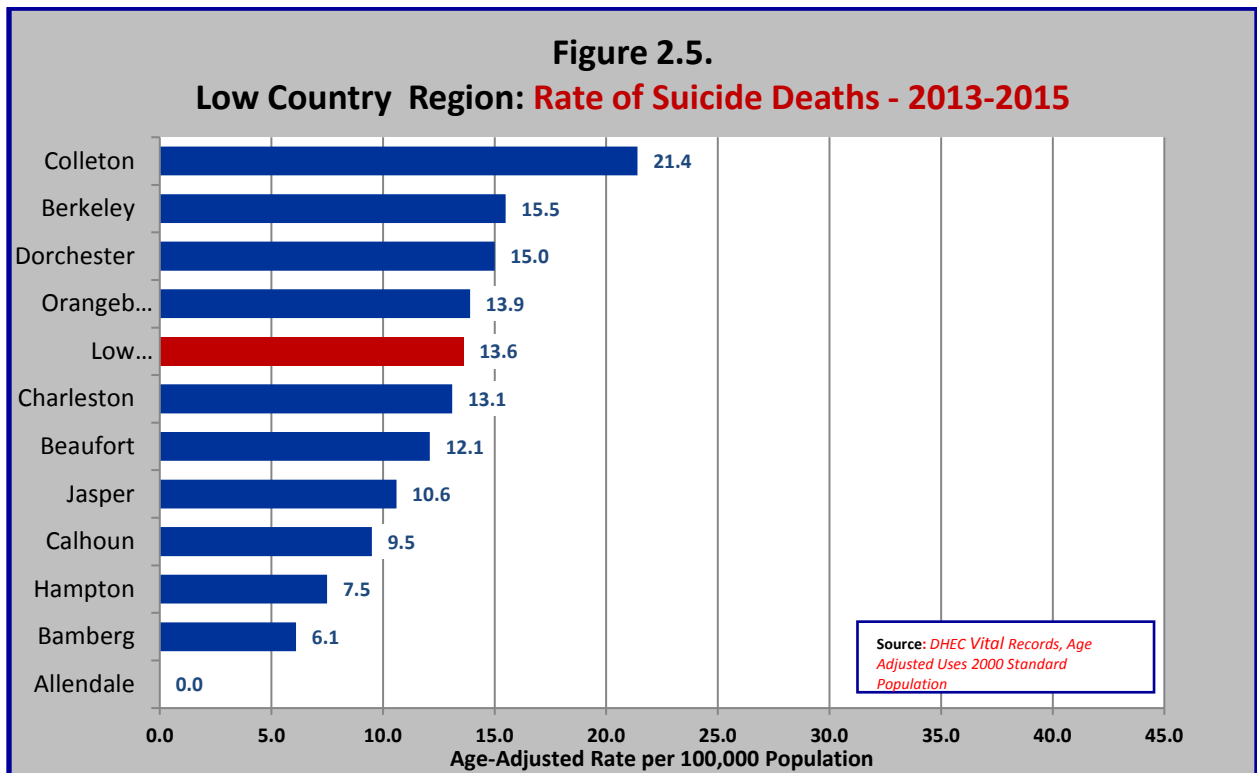
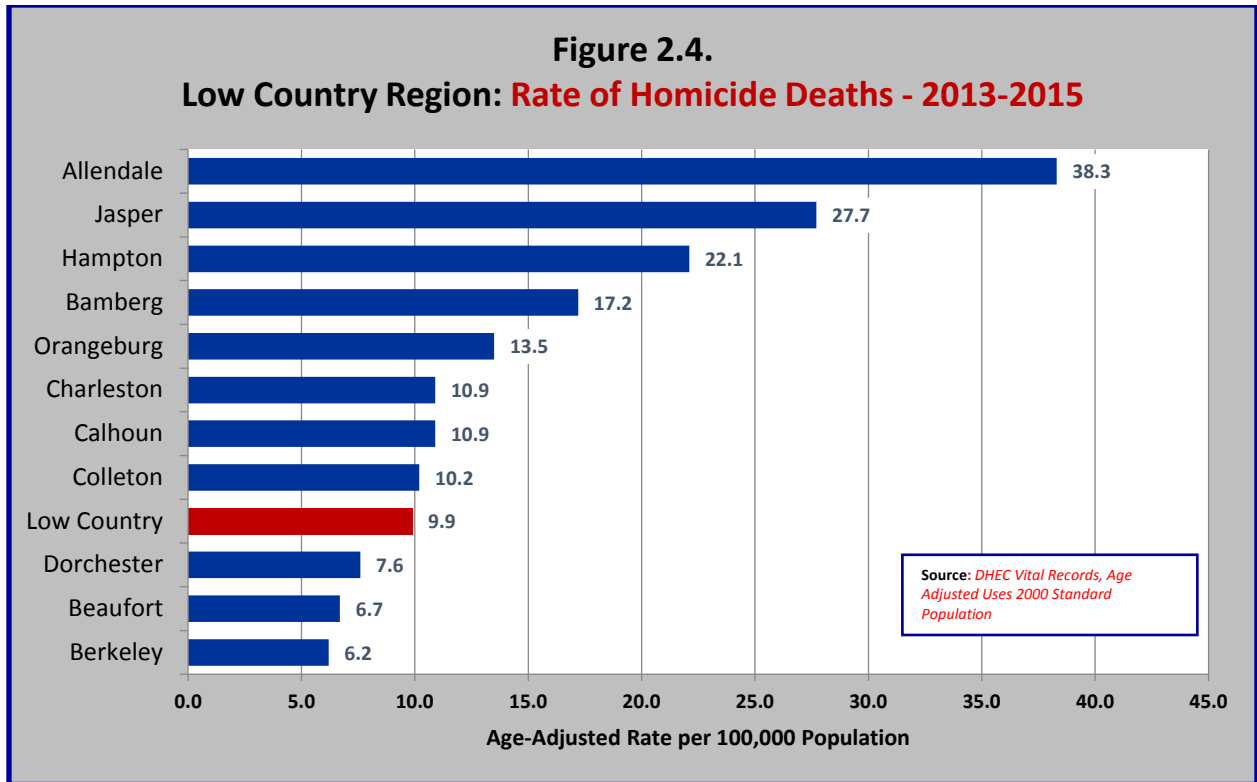
Injury is one of the leading causes of death in individuals under the age of 45. This section includes graphs reflecting mortality rates for selected causes of injury for the Low Country Region and each county in the region. The graphs are arranged by counties with the highest to lowest death rates for each type of injury, thus pinpointing the highest-risk counties and how they compare to regional rates. Included are graphs for all injury, unintentional injury (accidents), intentional injury, homicide, and suicide. Mortality rates for accidental deaths include drowning, falls, firearms, poisoning, smoke and fire, all transportation-related injuries, motor vehicle crashes and other non-transport accidents. Please refer to the technical notes at the end of the document for details on the definitions of each type of injury.



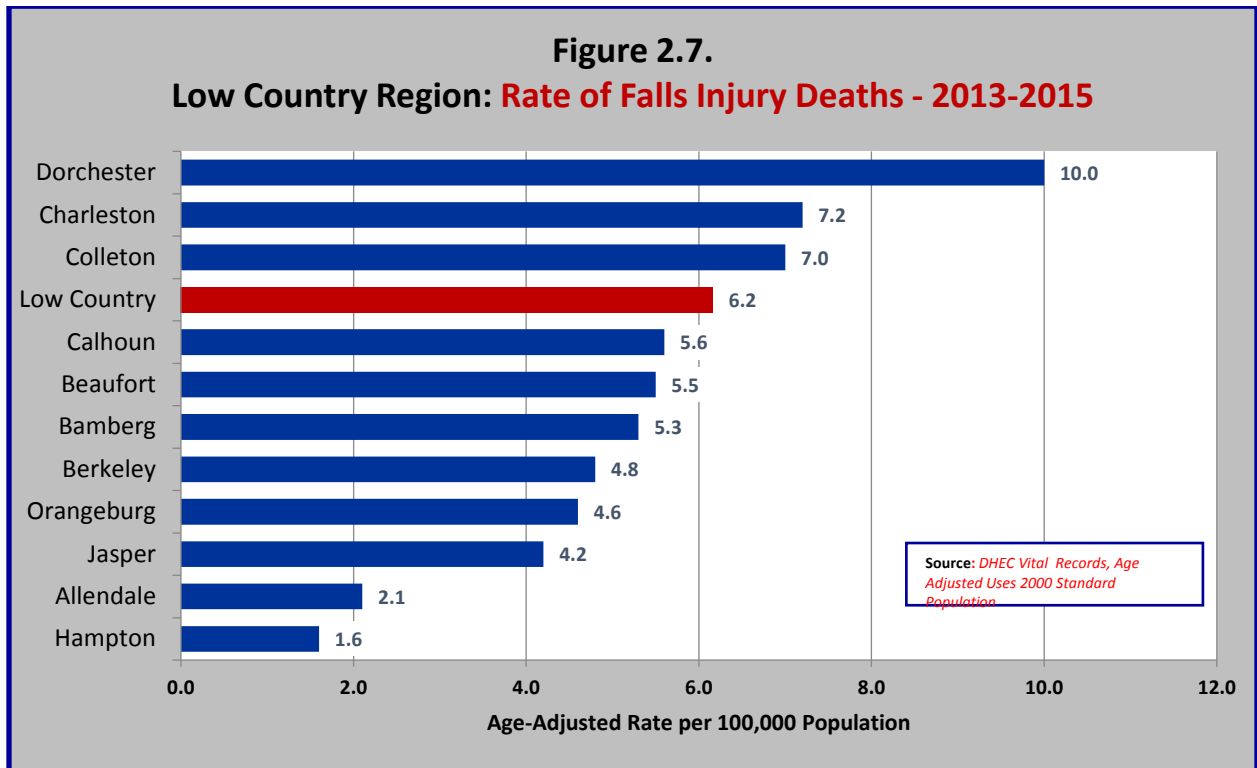
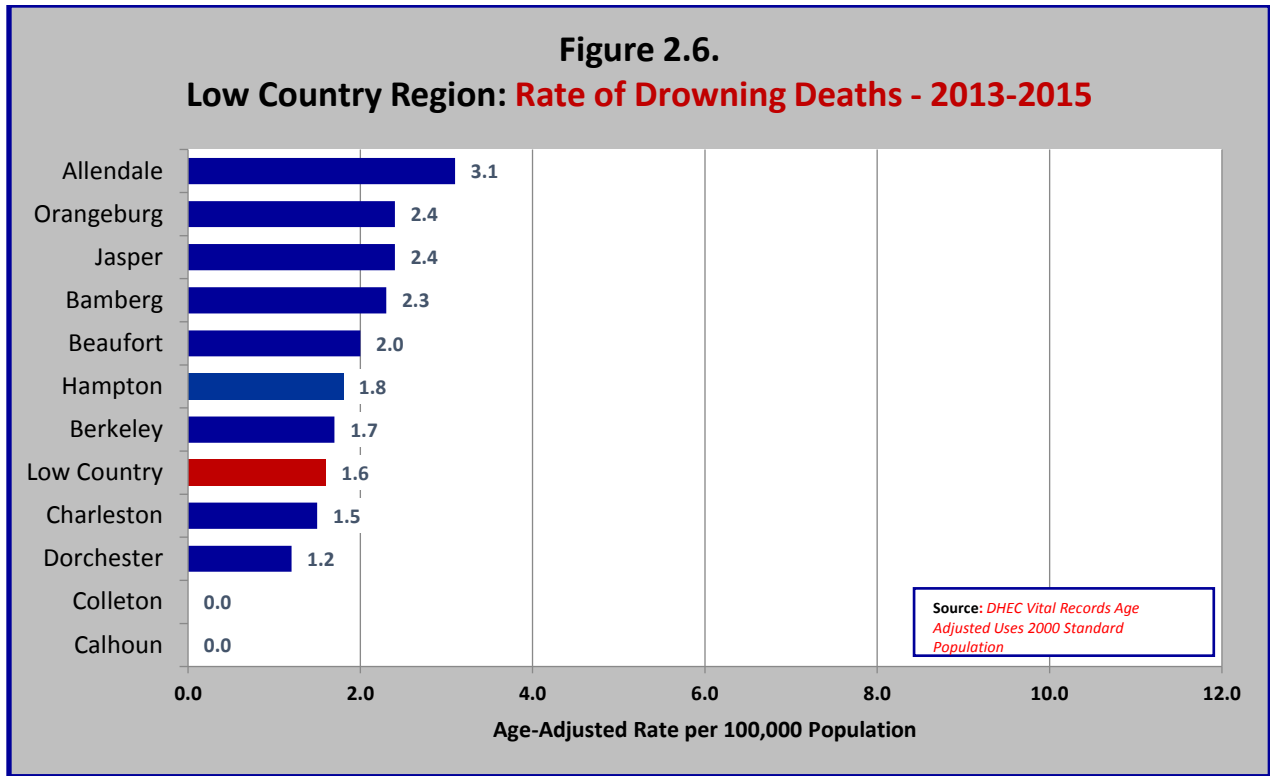
## Injury Death Rates by County and Region



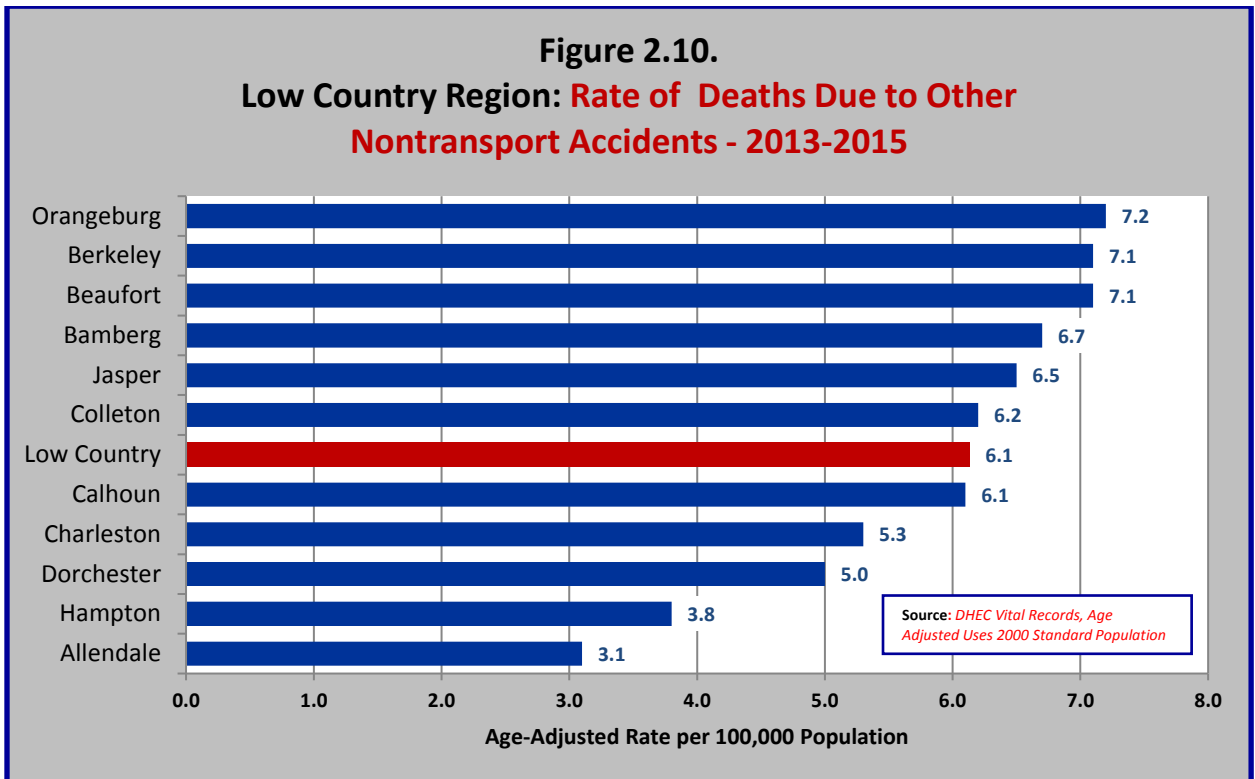
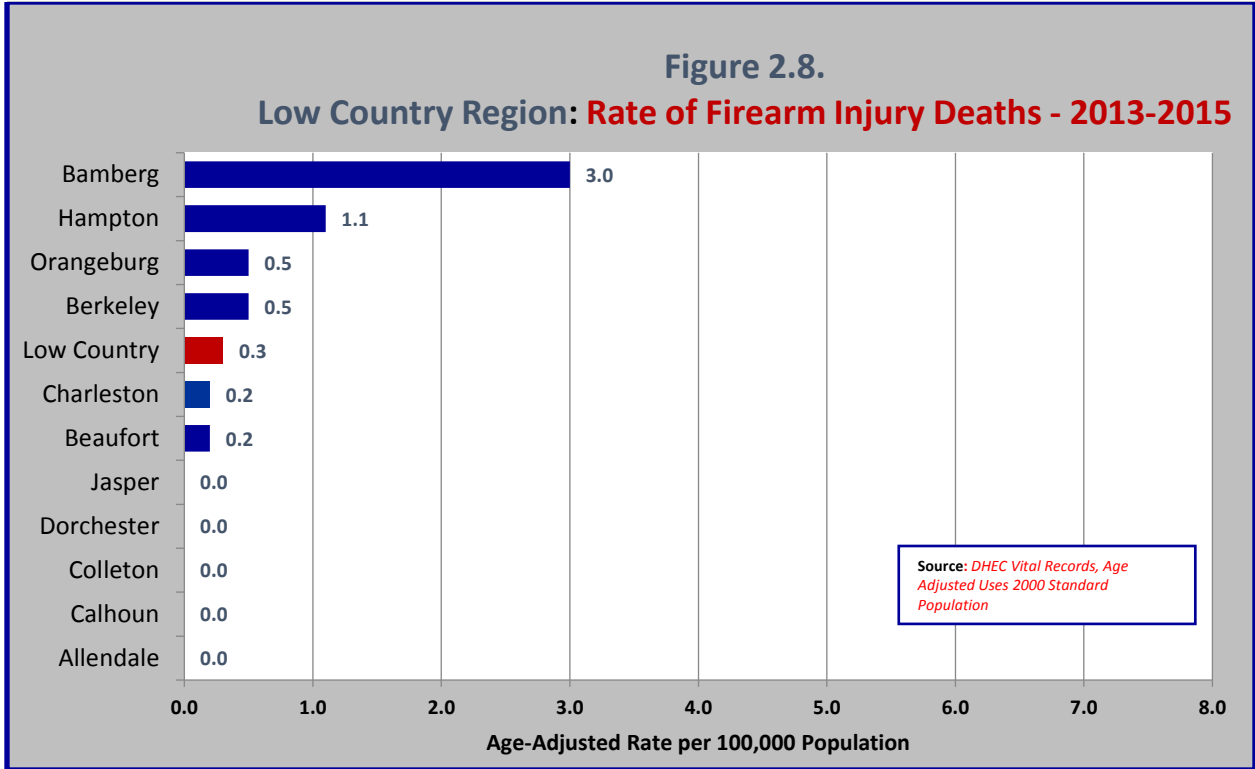
## Injury Death Rates by County and Region



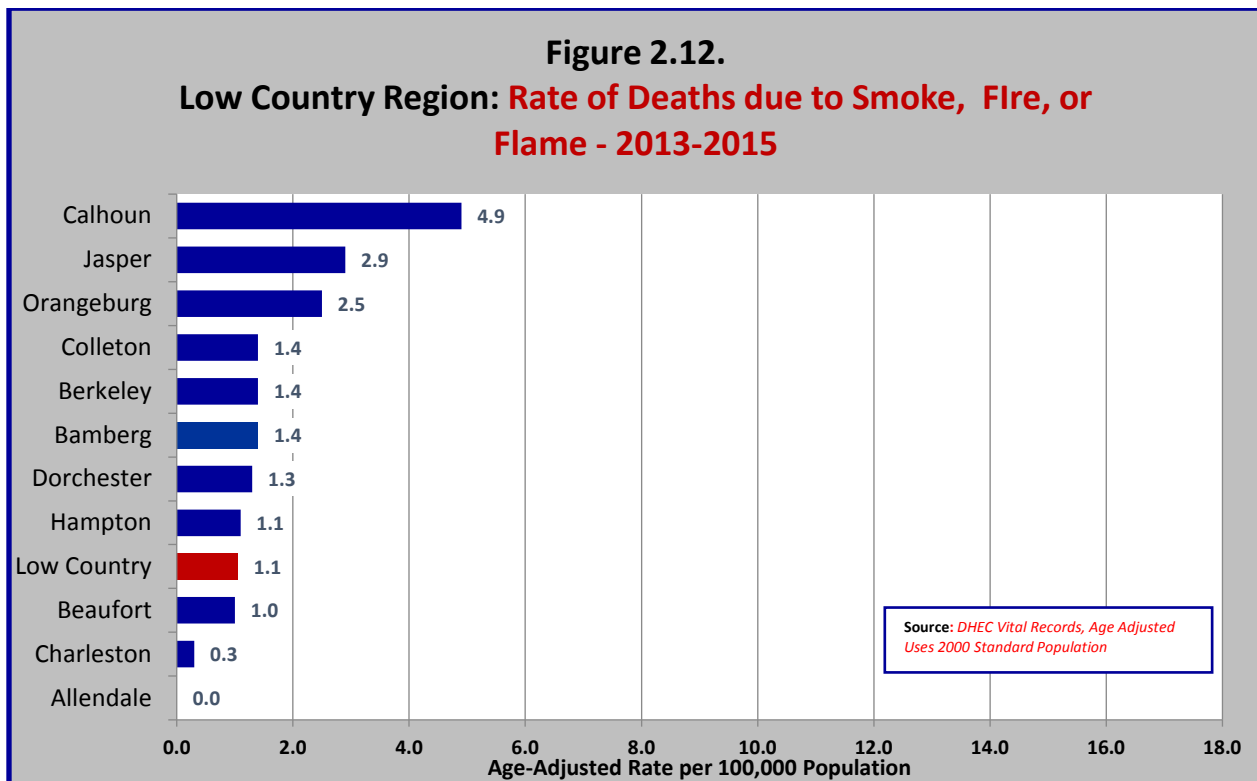
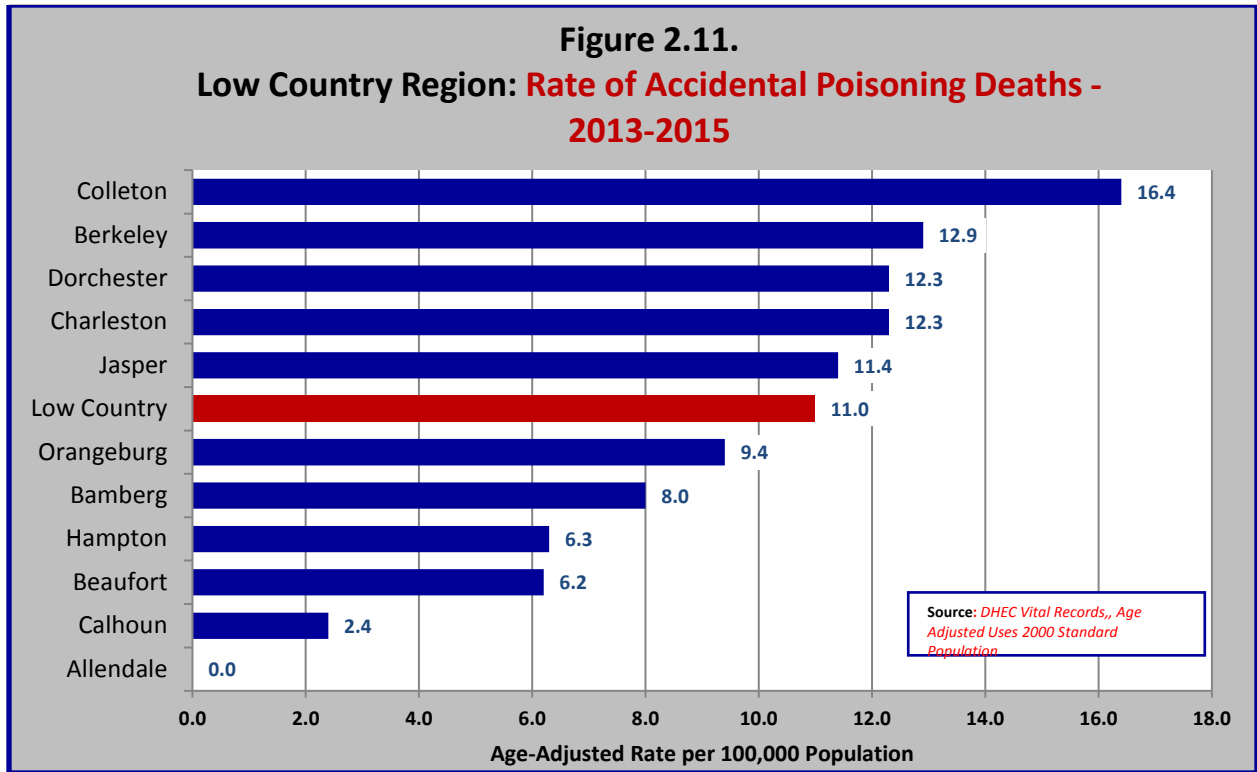
## Injury Death Rates by County and Region



## Injury Death Rates by County and Region



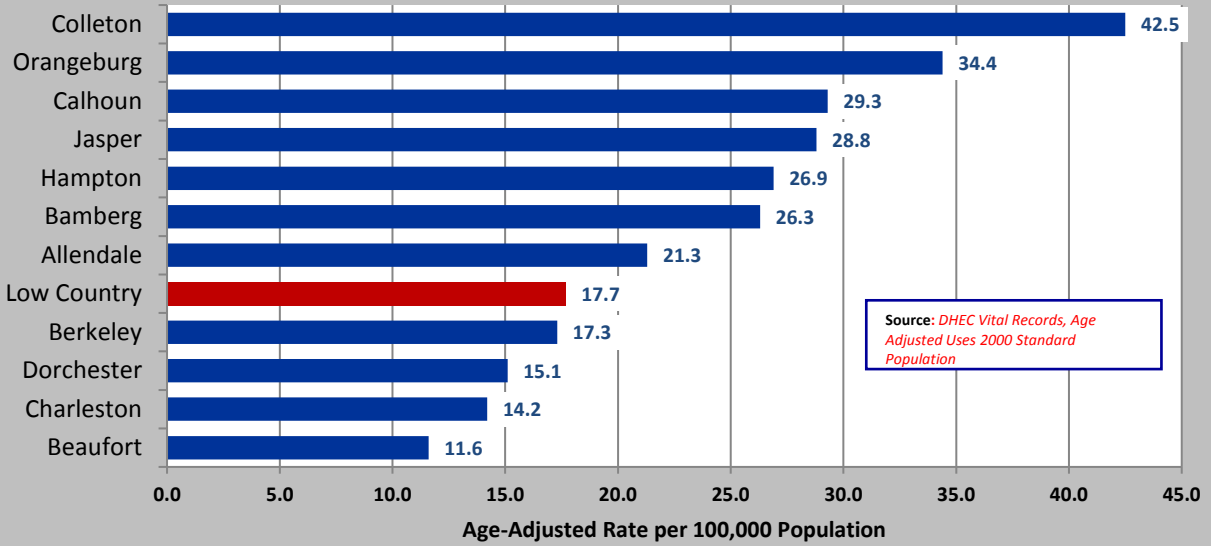
## Injury Death Rates by County and Region



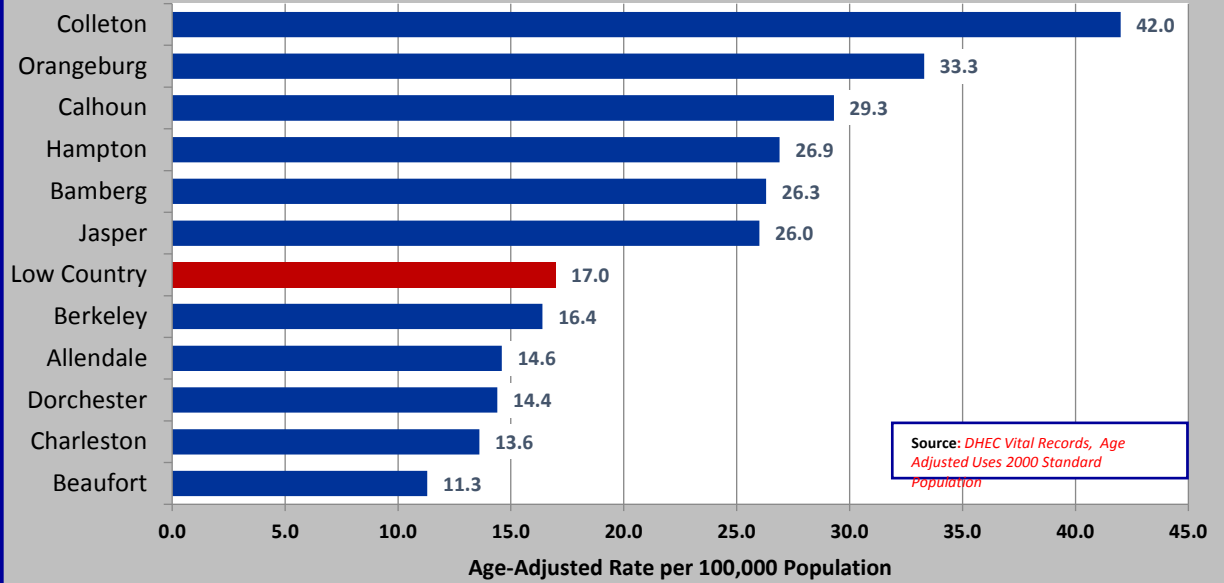


## Injury Death Rates by County and Region

**Figure 2.13.**  
**Low Country Region: Rate of Transportation-Related Injury Deaths - 2013-2015**



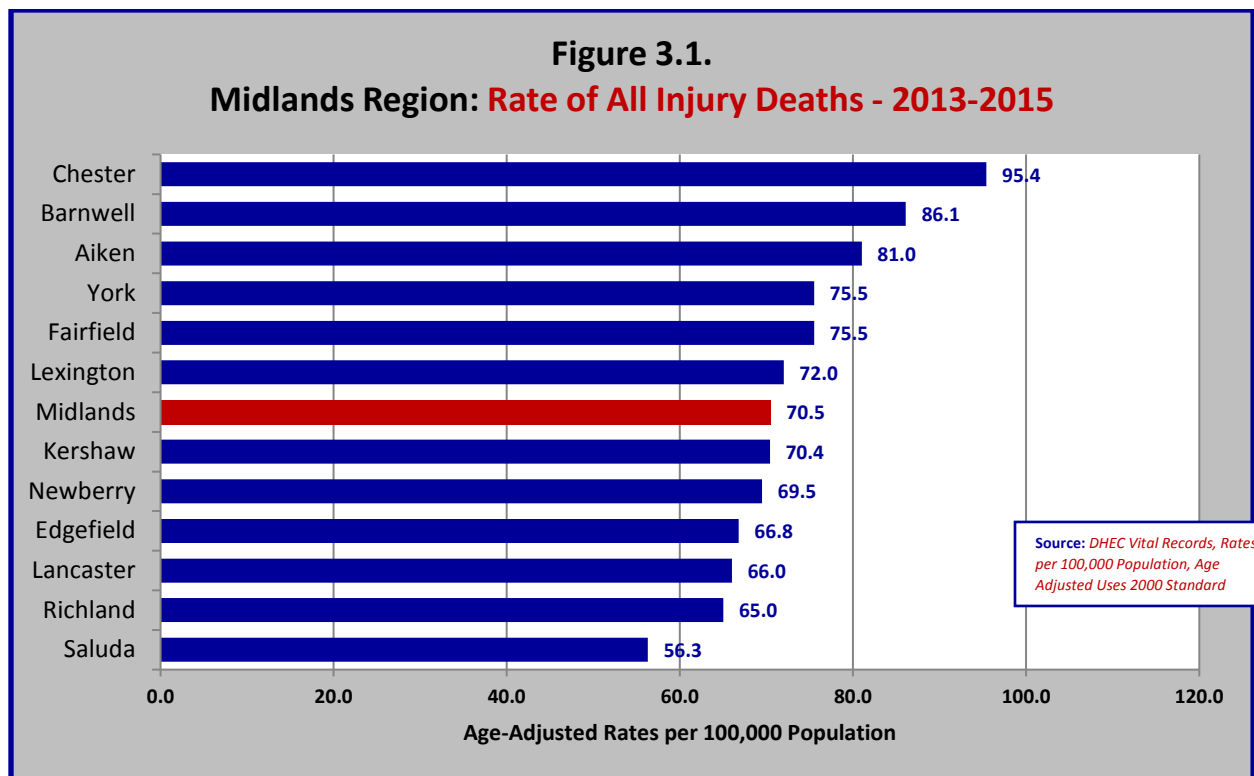
**Figure 2.14.**  
**Low Country Region: Rate of Deaths Due to Motor Vehicle Crashes- 2013-2015**



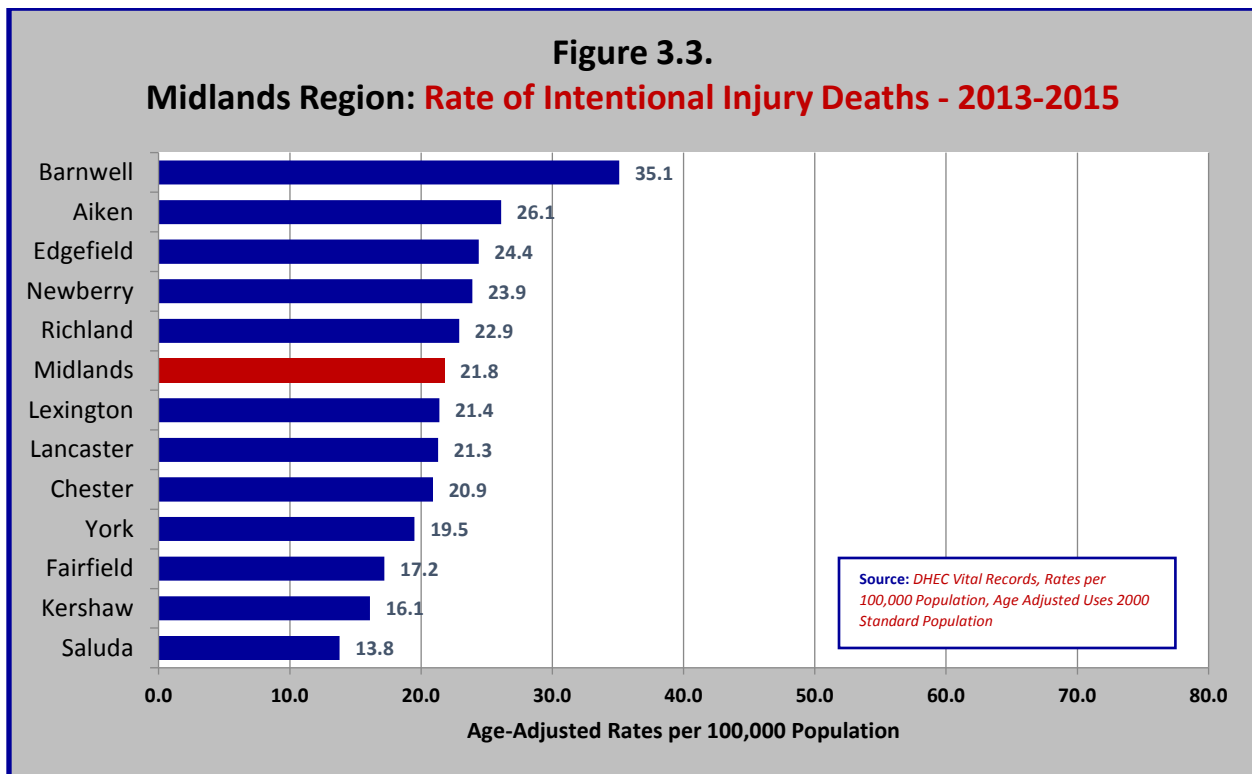
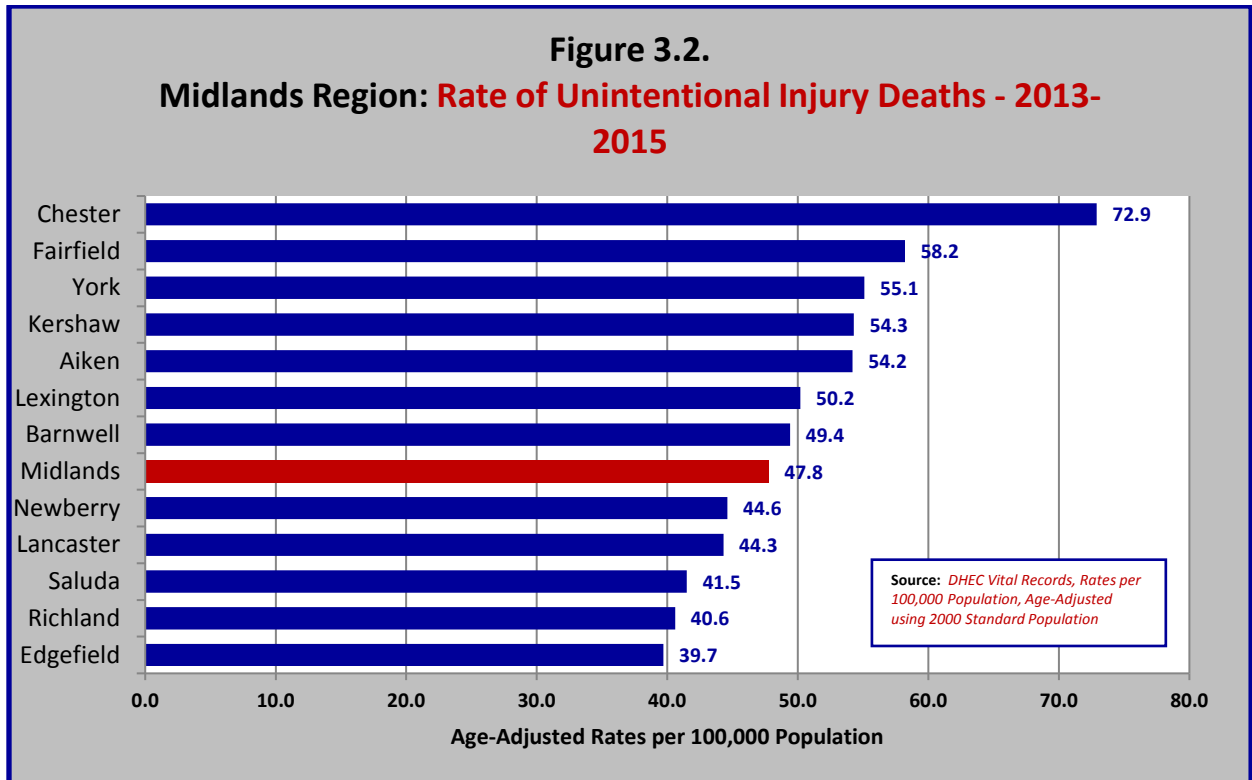
# Midlands Region

## Injury Death Rates by County and Region

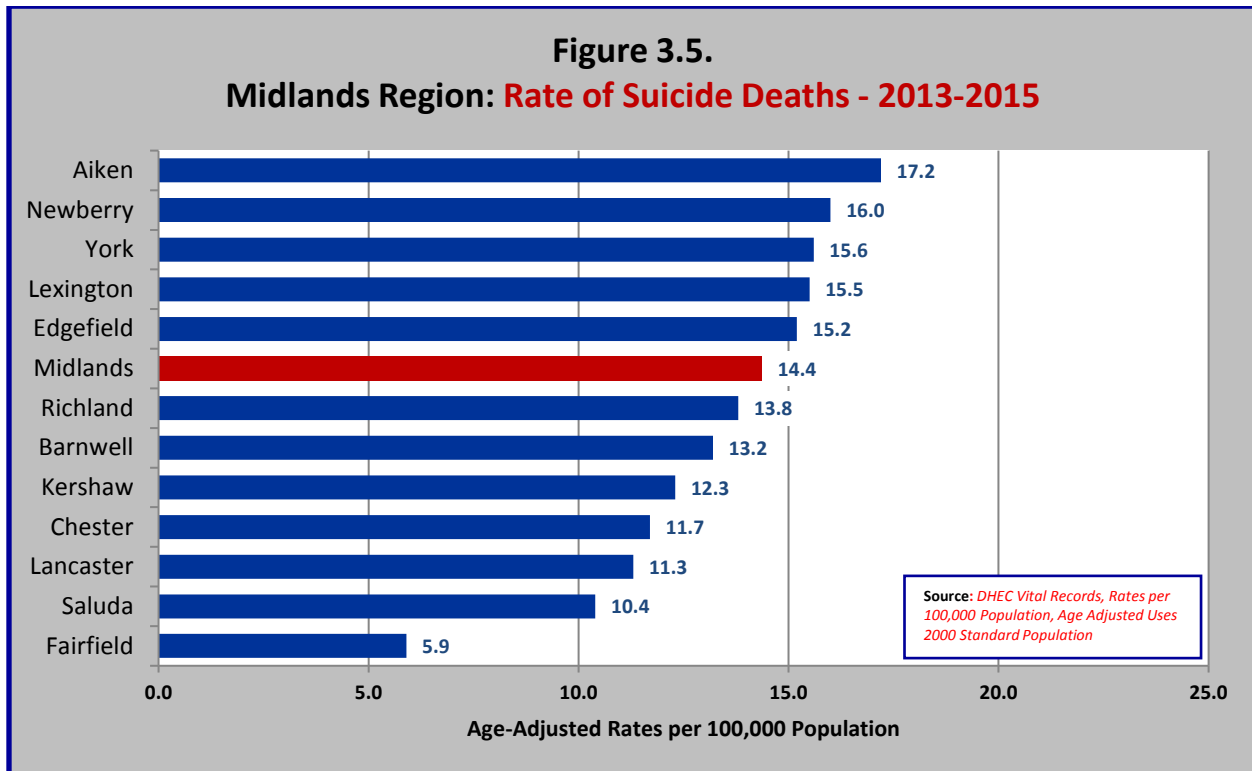
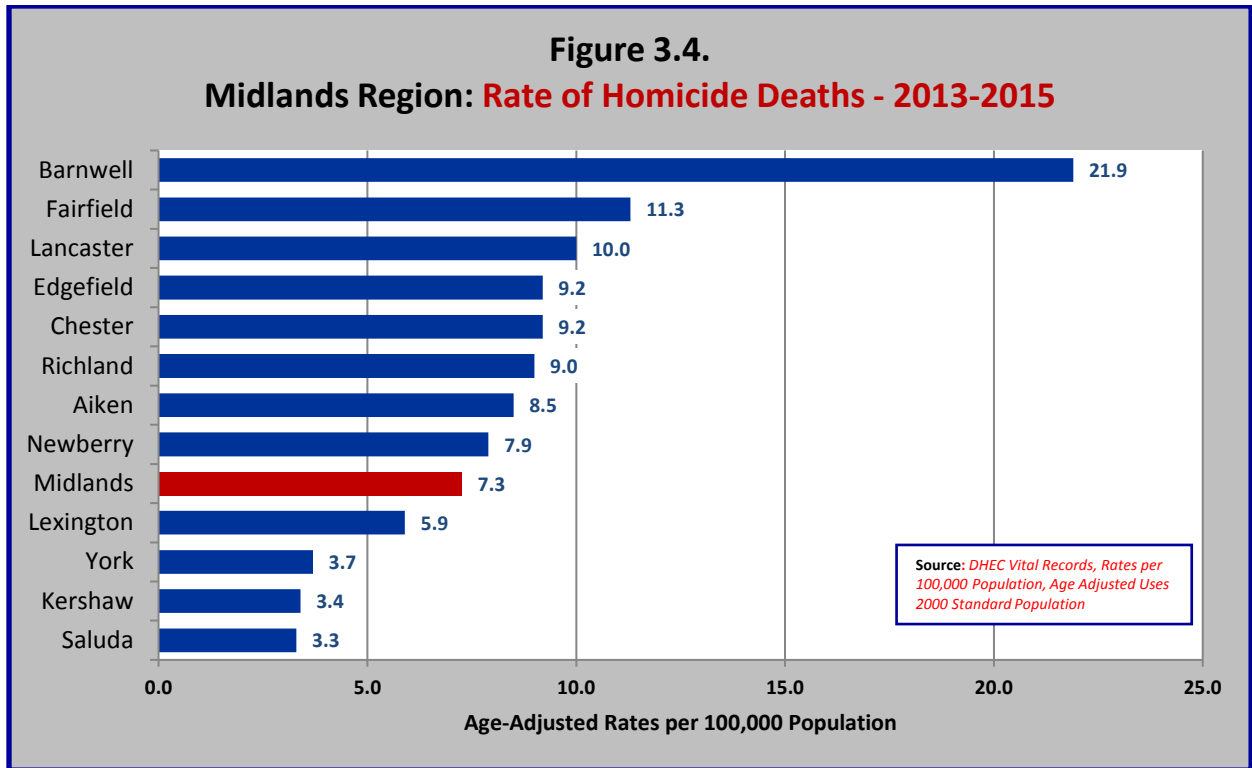
Injury is one of the leading causes of death in individuals under the age of 45. This section includes graphs reflecting mortality rates for selected causes of injury for the Midlands Region and each county in the region. The graphs are arranged by counties with the highest to lowest death rates for each type of injury, thus pinpointing the highest-risk counties and how they compare to regional rates. Included are graphs for all injury, unintentional injury (accidents), intentional injury, homicide, and suicide. Mortality rates for accidental deaths include drowning, falls, firearms, poisoning, smoke and fire, all transportation-related injuries, motor vehicle crashes and other non-transport accidents. Please refer to the technical notes at the end of the document for details on the definitions of each type of injury.



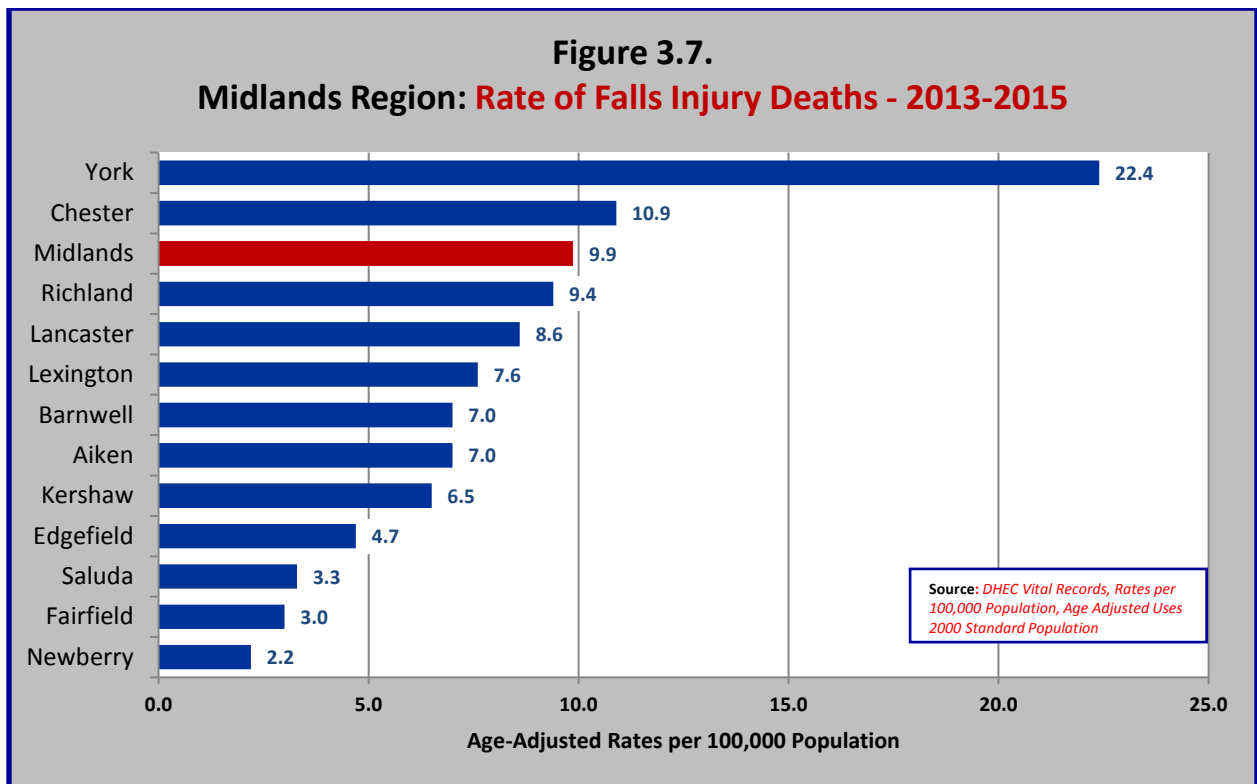
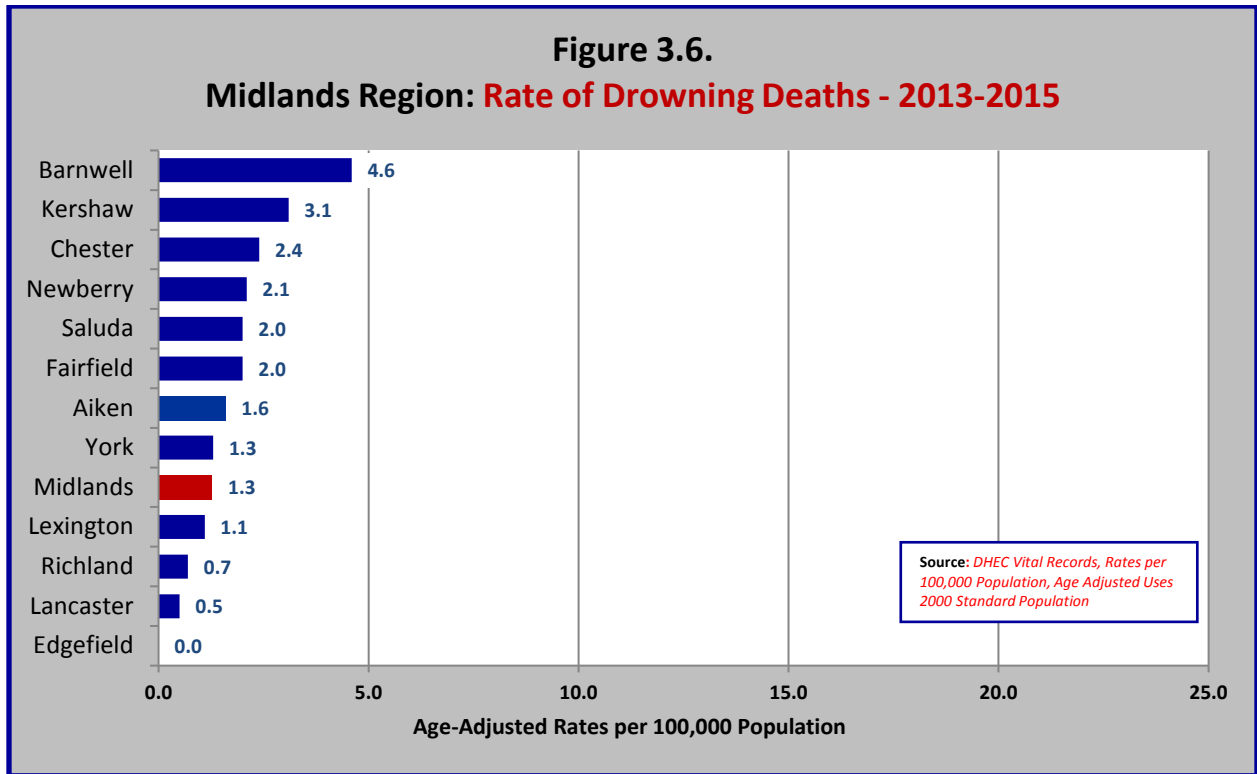
## Injury Death Rates by County and Region



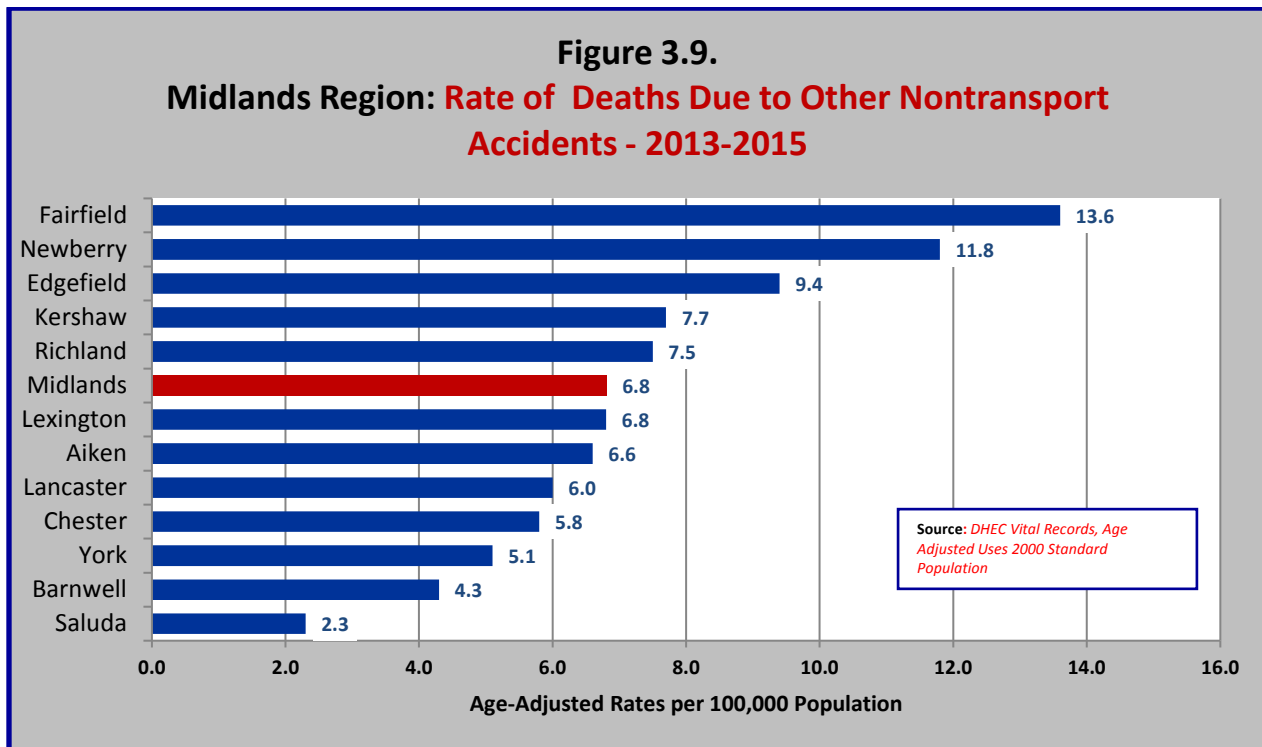
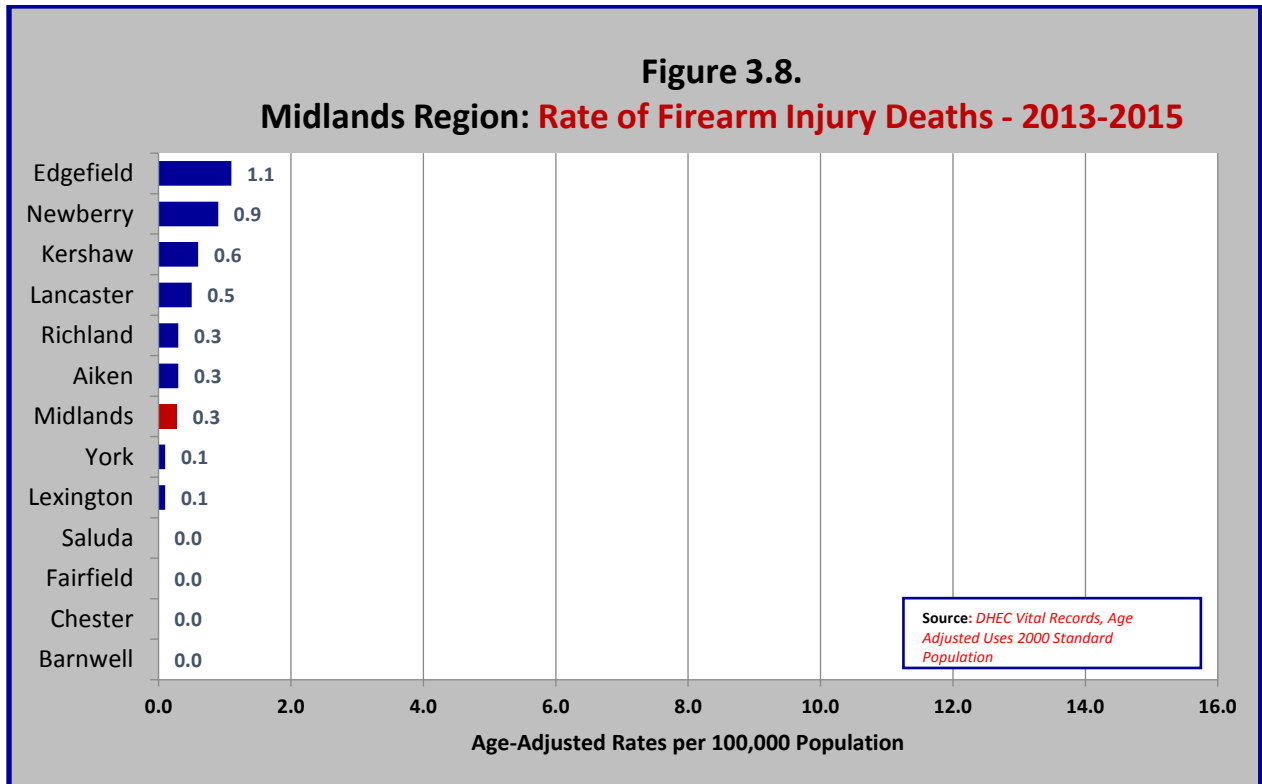
## Injury Death Rates by County and Region



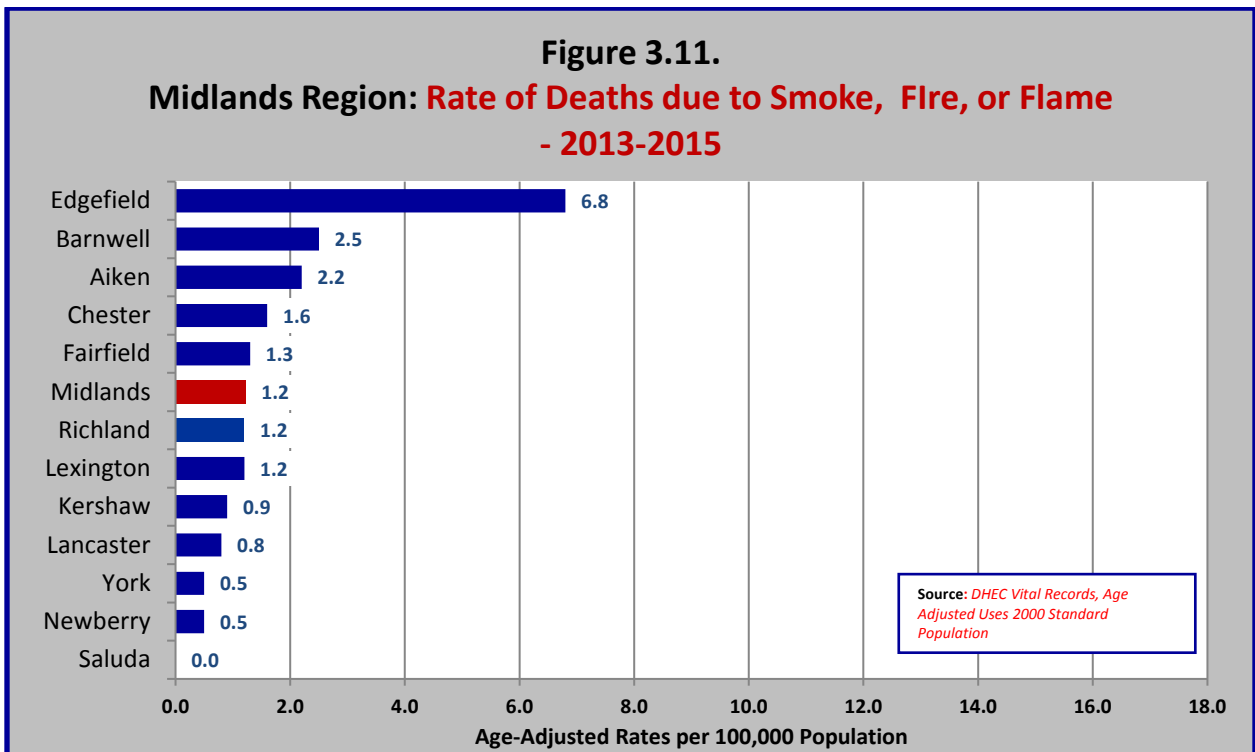
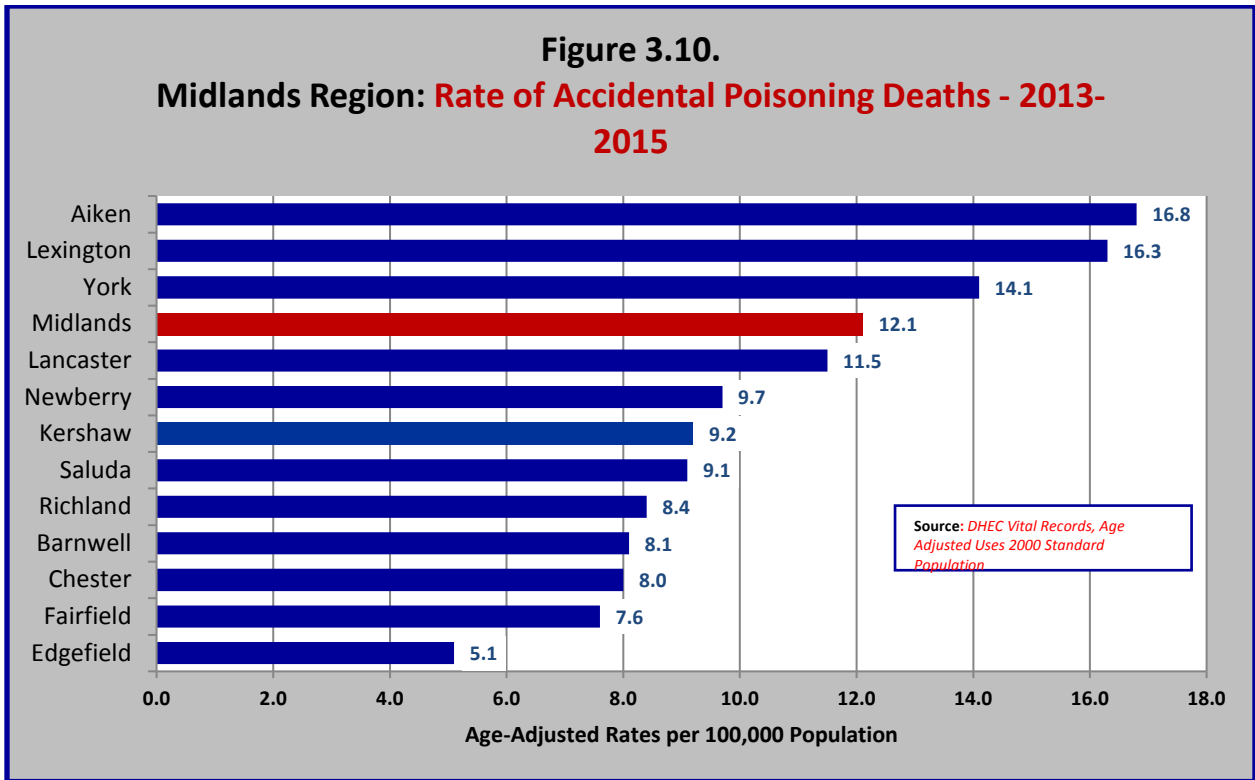
## Injury Death Rates by County and Region



## Injury Death Rates by County and Region

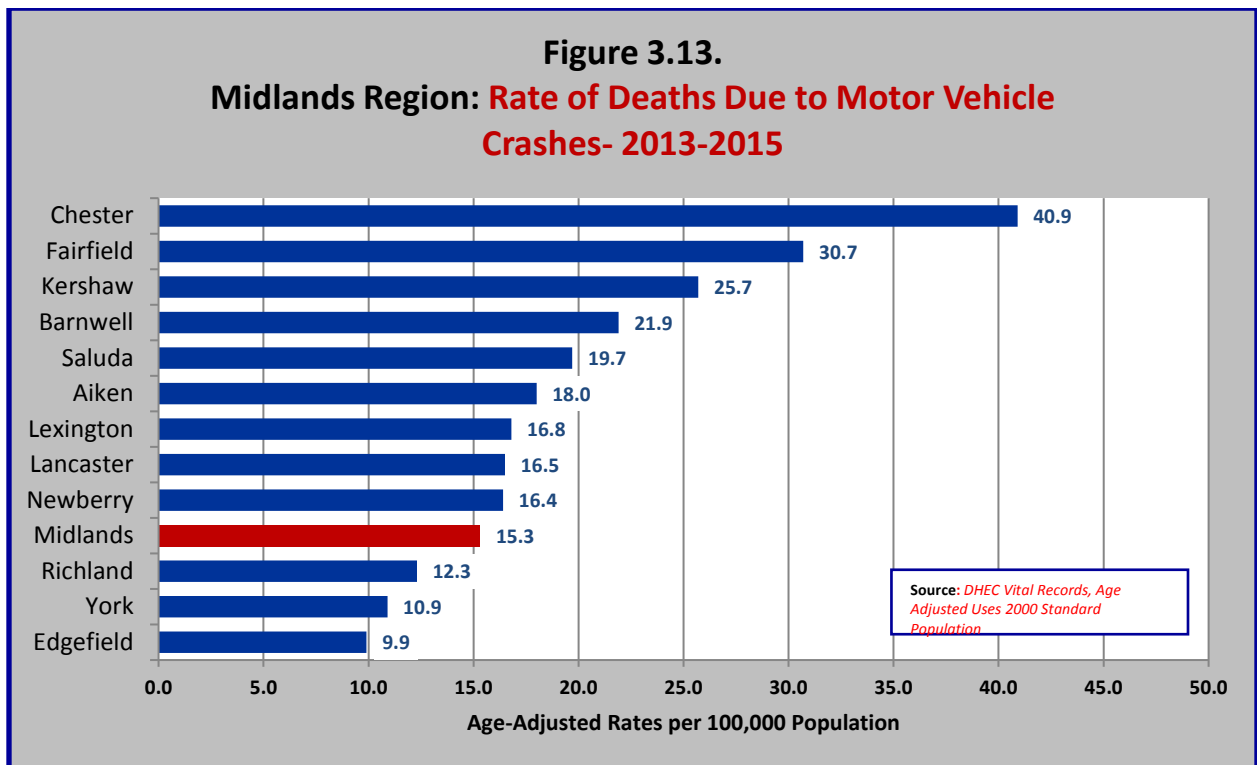
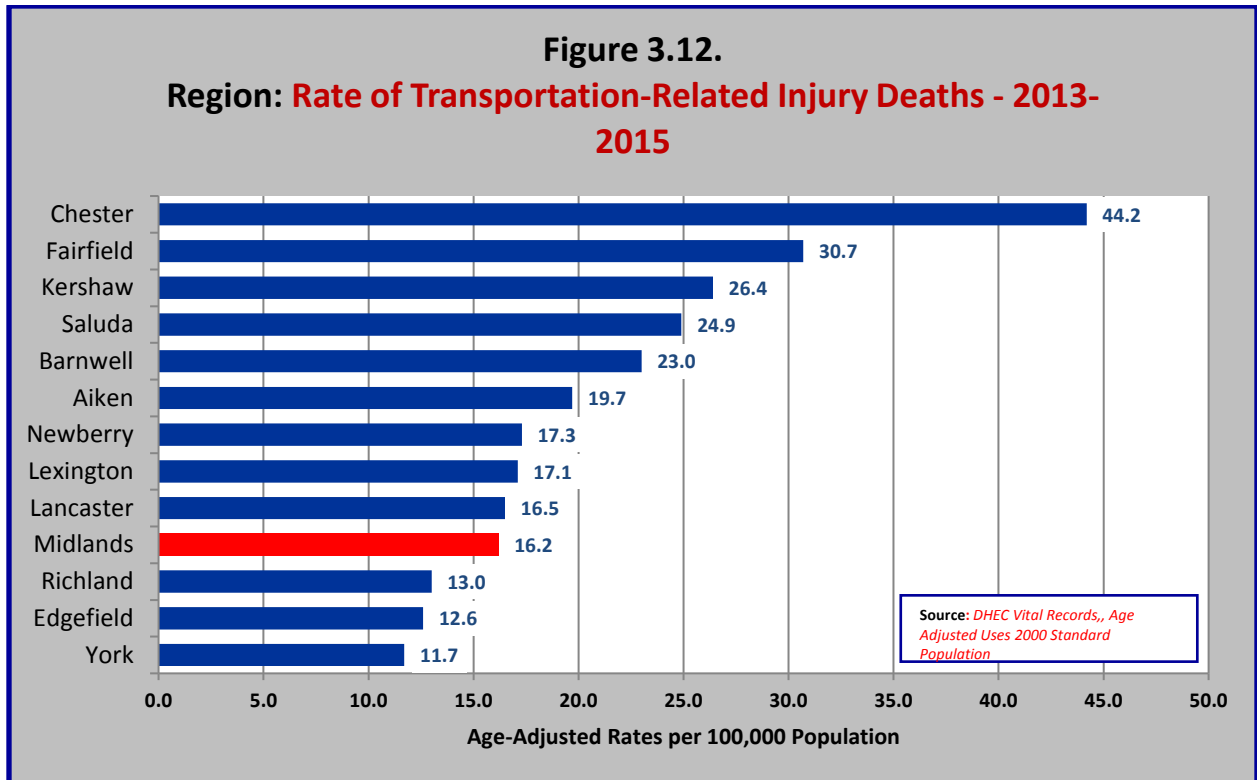


## Injury Death Rates by County and Region





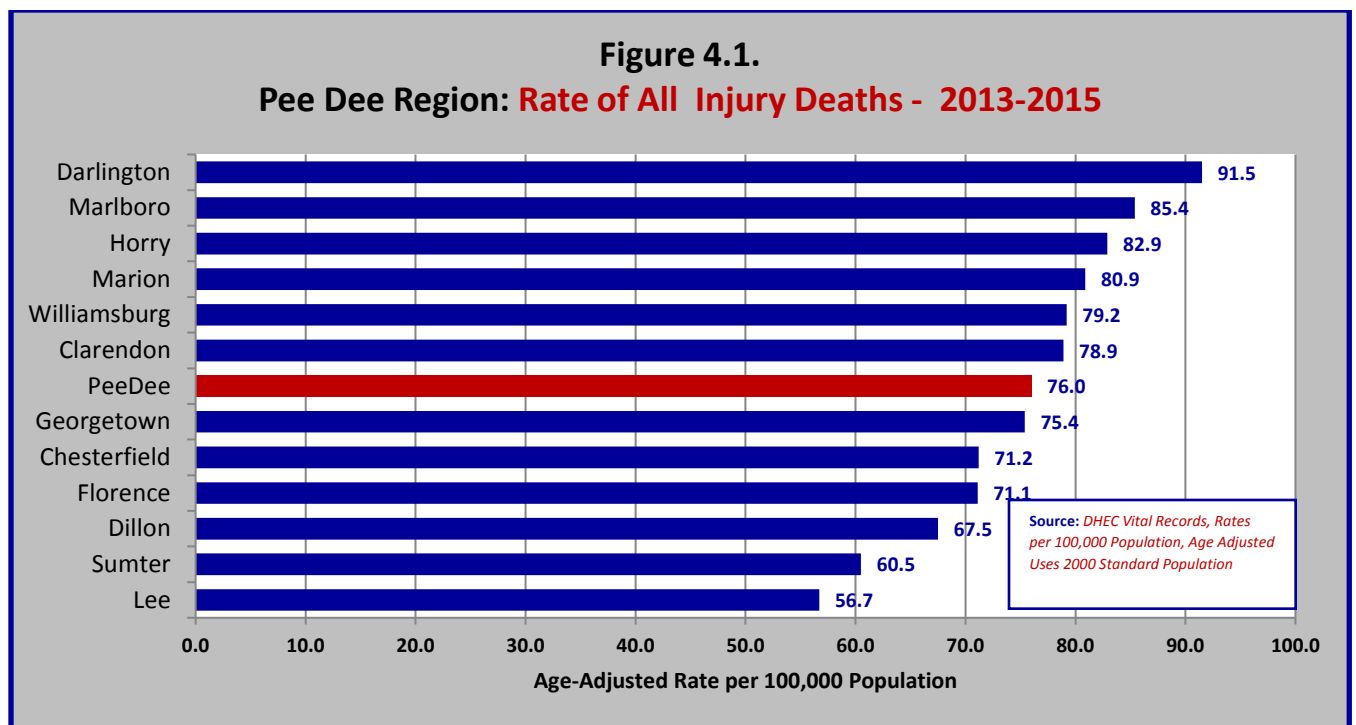
## Injury Death Rates by County and Region



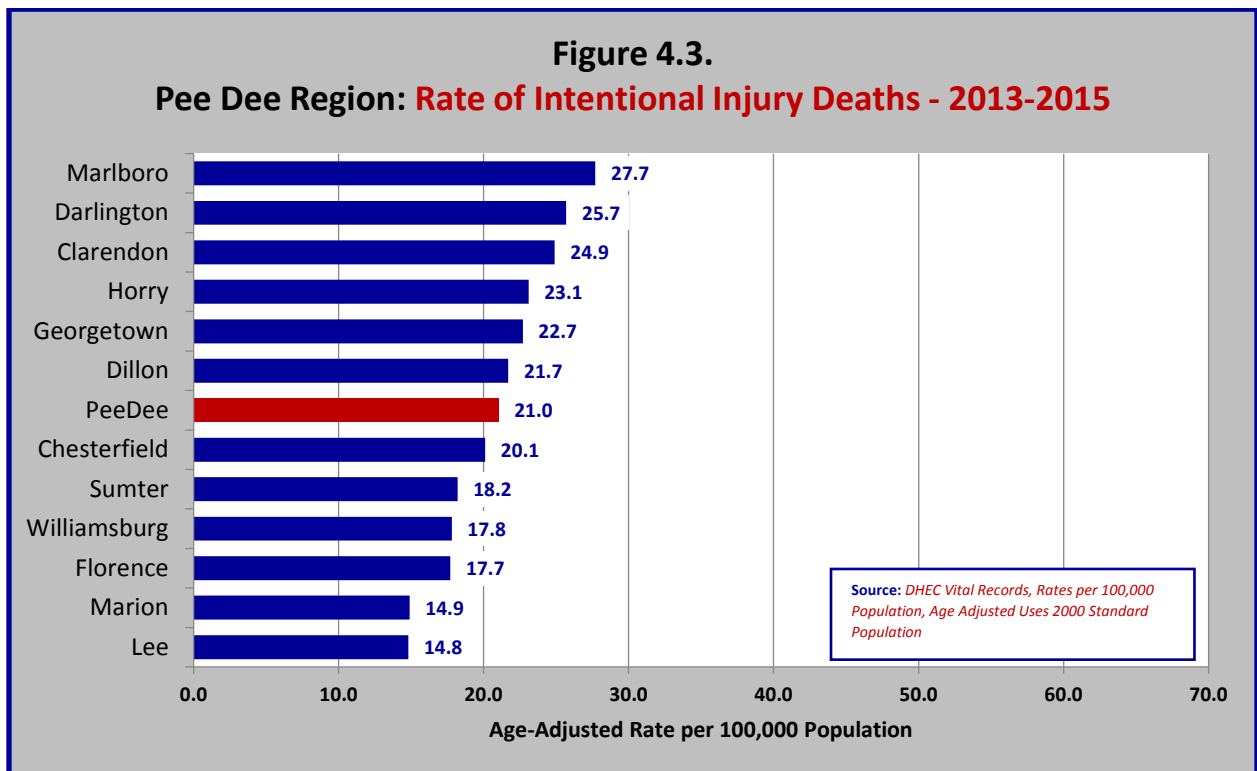
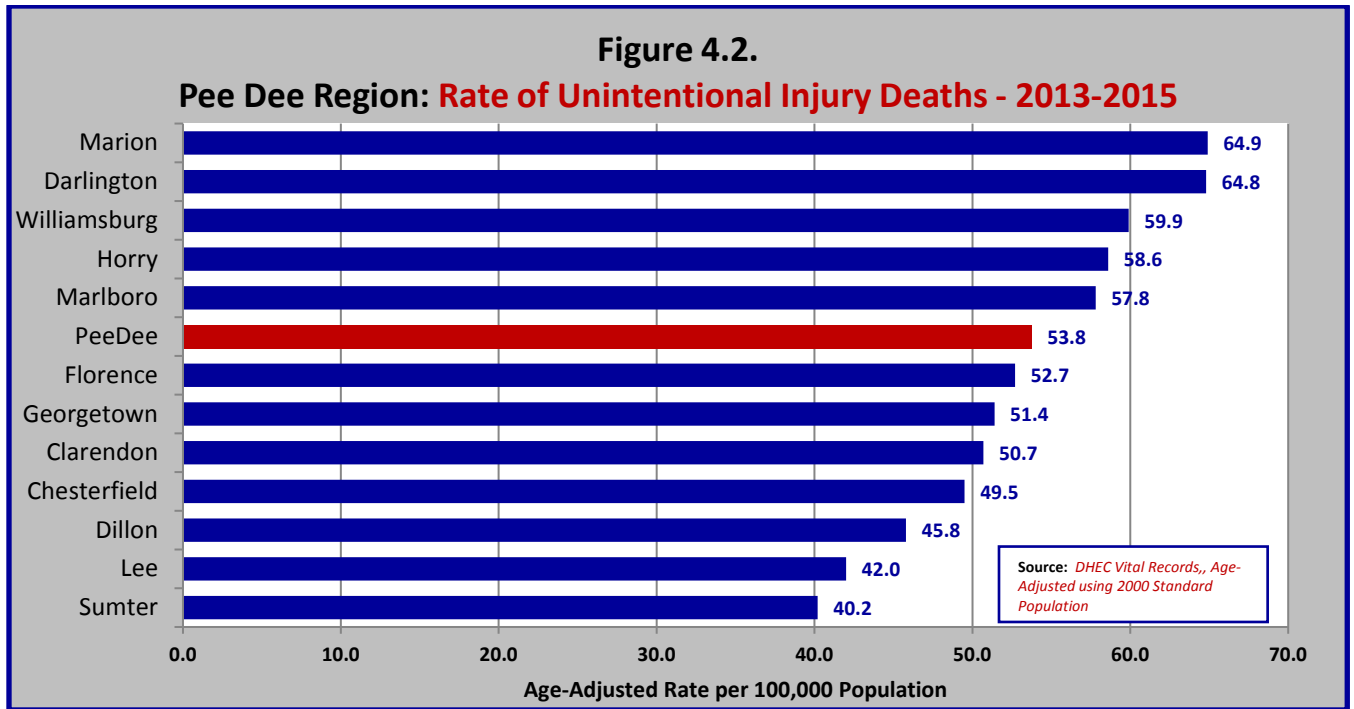
# Pee Dee Region

## Injury Death Rates by County and Region

Injury is one of the leading causes of death in individuals under the age of 45. This section includes graphs reflecting mortality rates for selected causes of injury for the Pee Dee Region and each county in the region. The graphs are arranged by counties with the highest to lowest death rates for each type of injury, thus pinpointing the highest-risk counties and how they compare to regional rates. Included are graphs for all injury, unintentional injury (accidents), intentional injury, homicide, and suicide. Mortality rates for accidental deaths include drowning, falls, firearms, poisoning, smoke and fire, all transportation-related injuries, motor vehicle crashes and other non-transport accidents. Please refer to the technical notes at the end of the document for details on the definitions of each type of injury.

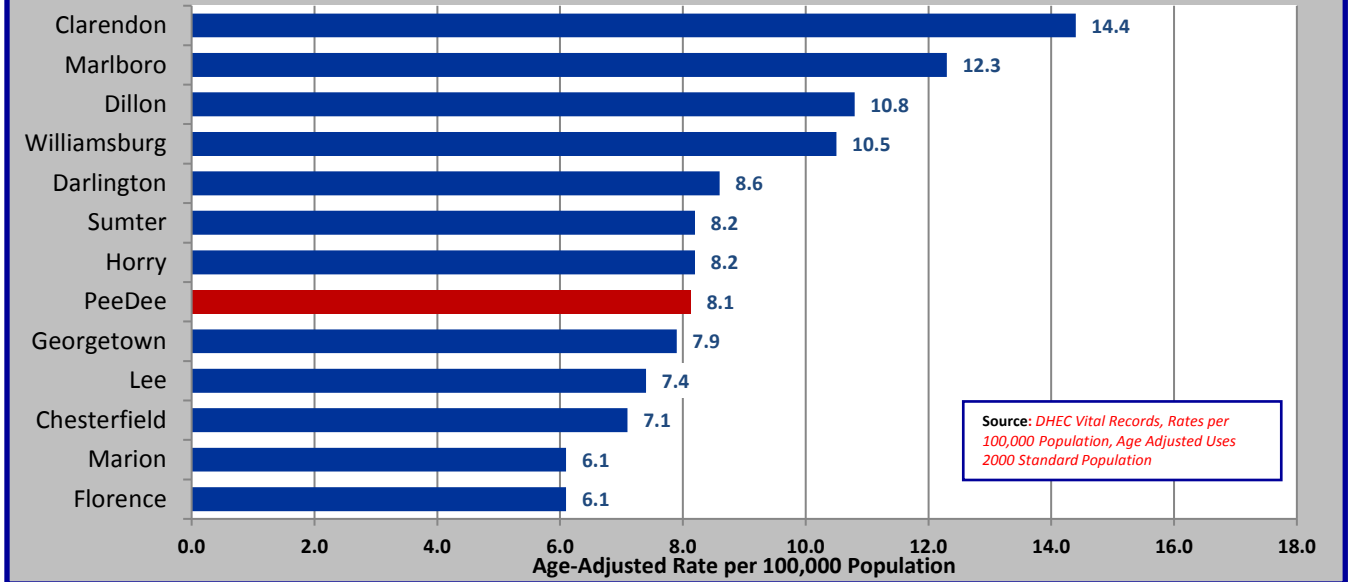


## Injury Death Rates by County and Region

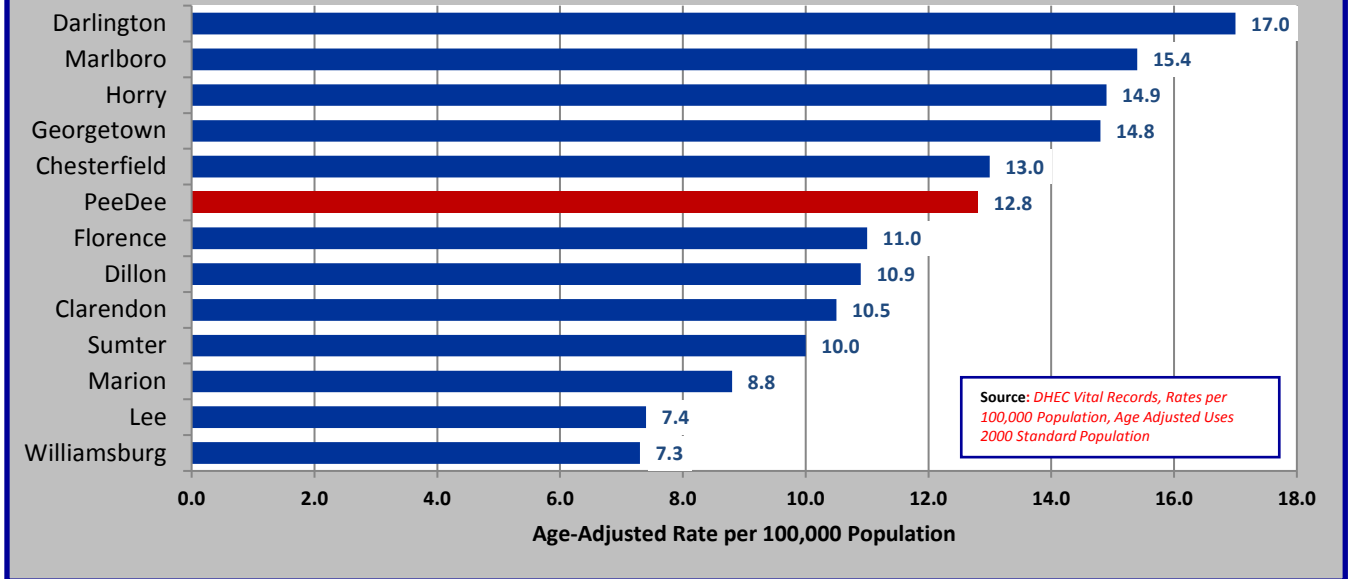


## Injury Death Rates by County and Region

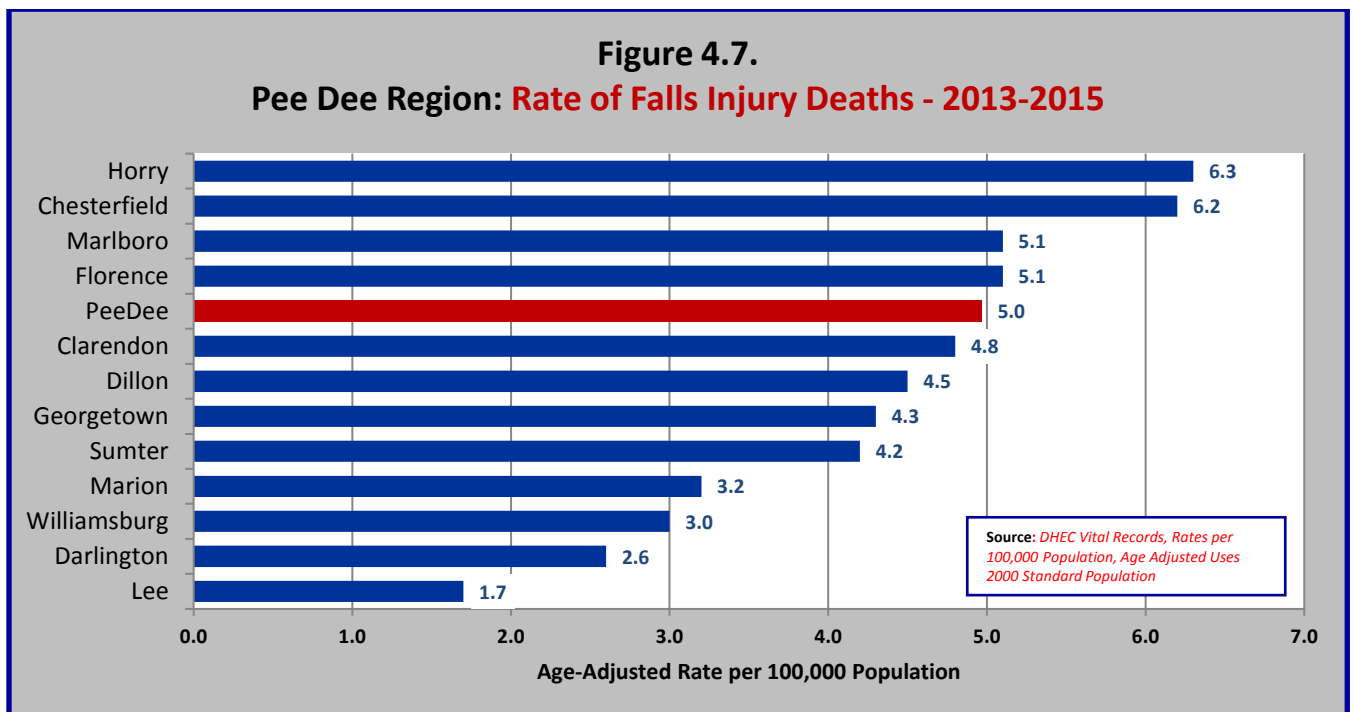
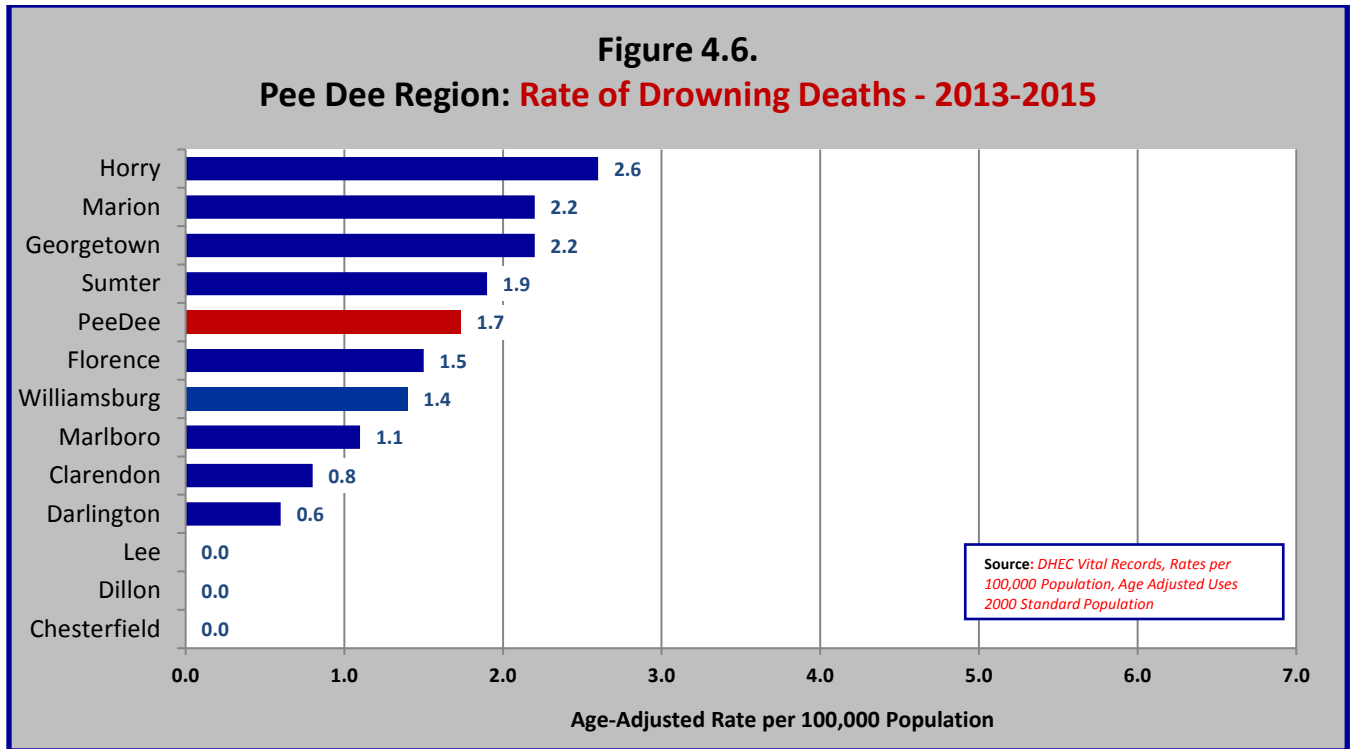
**Figure 4.4.**  
**Pee Dee Region: Rate of Homicide Deaths - 2013-2015**



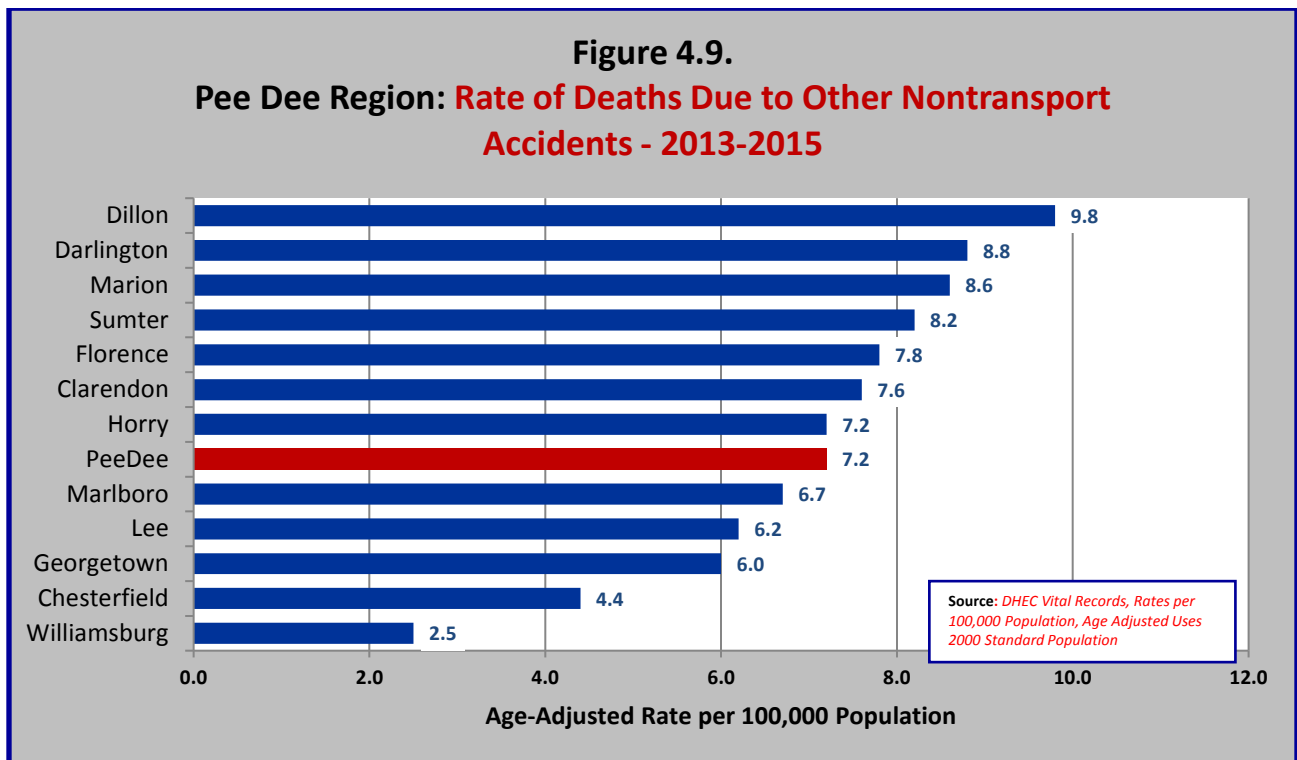
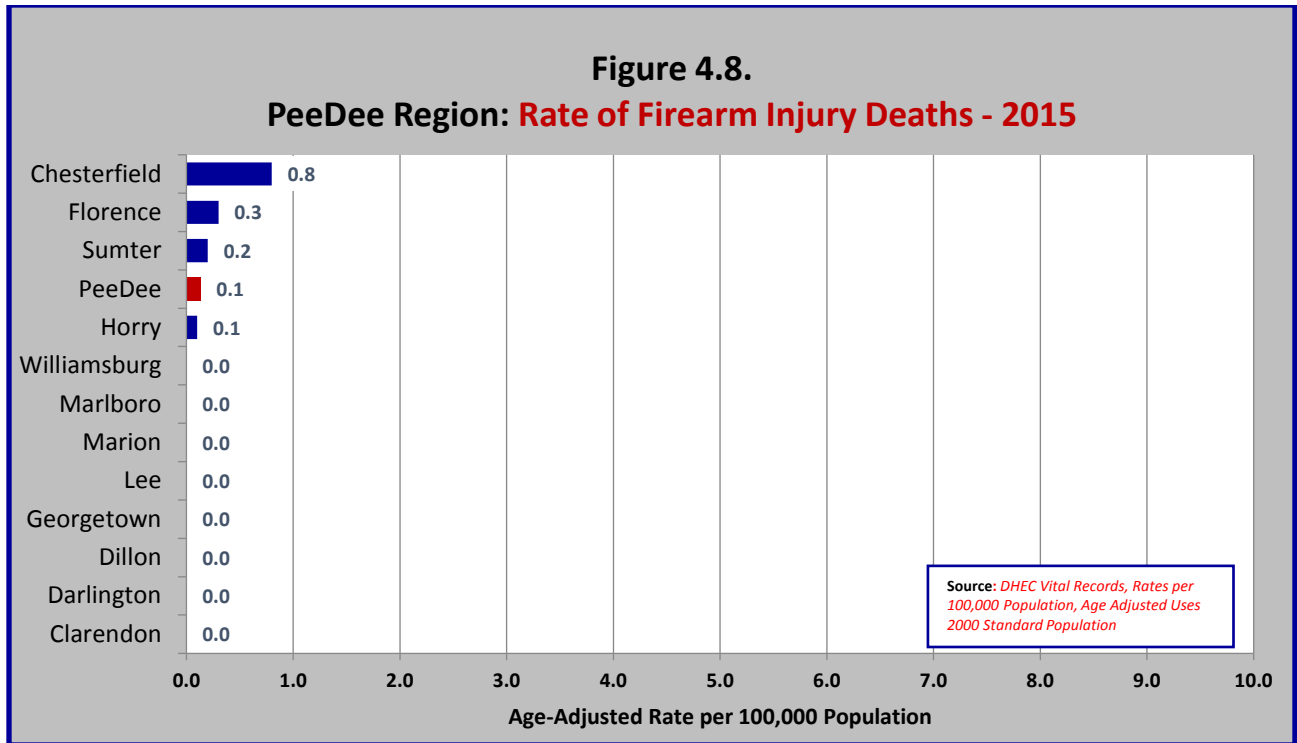
**Figure 4.5.**  
**Pee Dee Region: Rate of Suicide Deaths - 2013-2015**



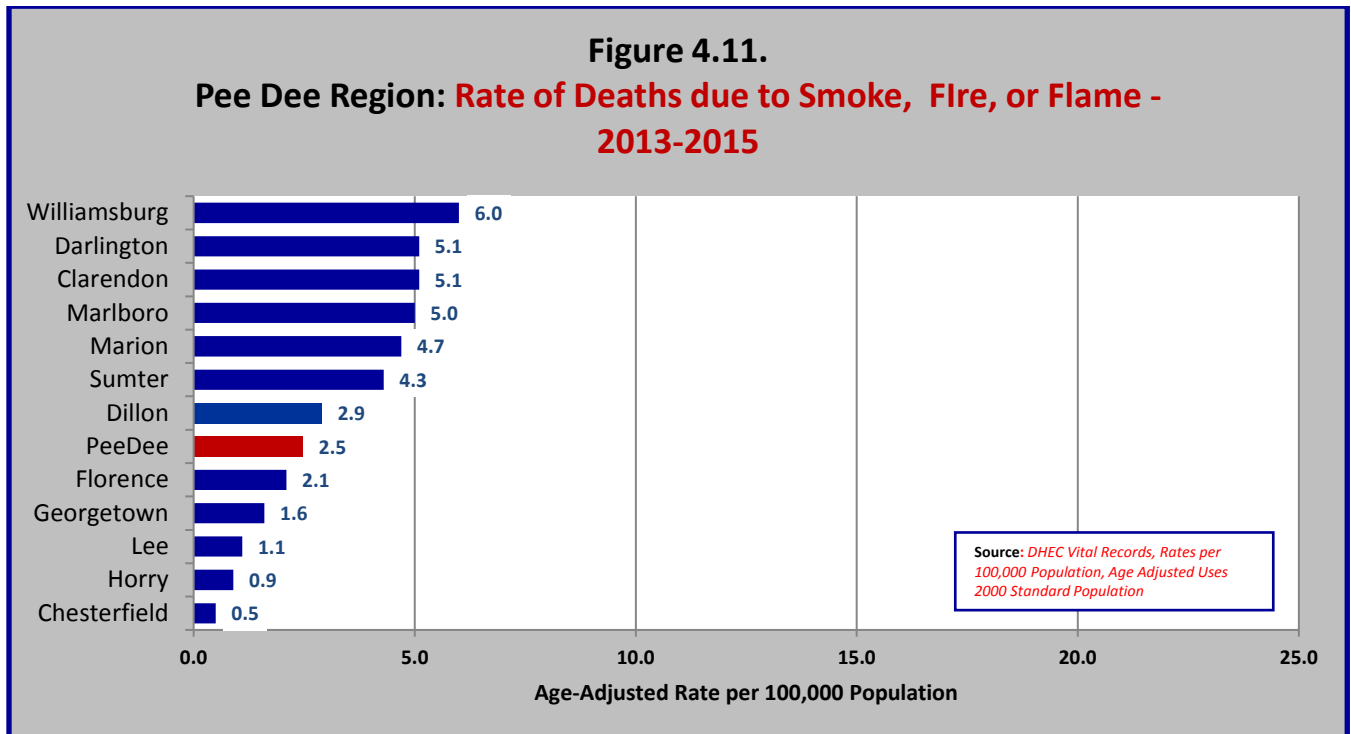
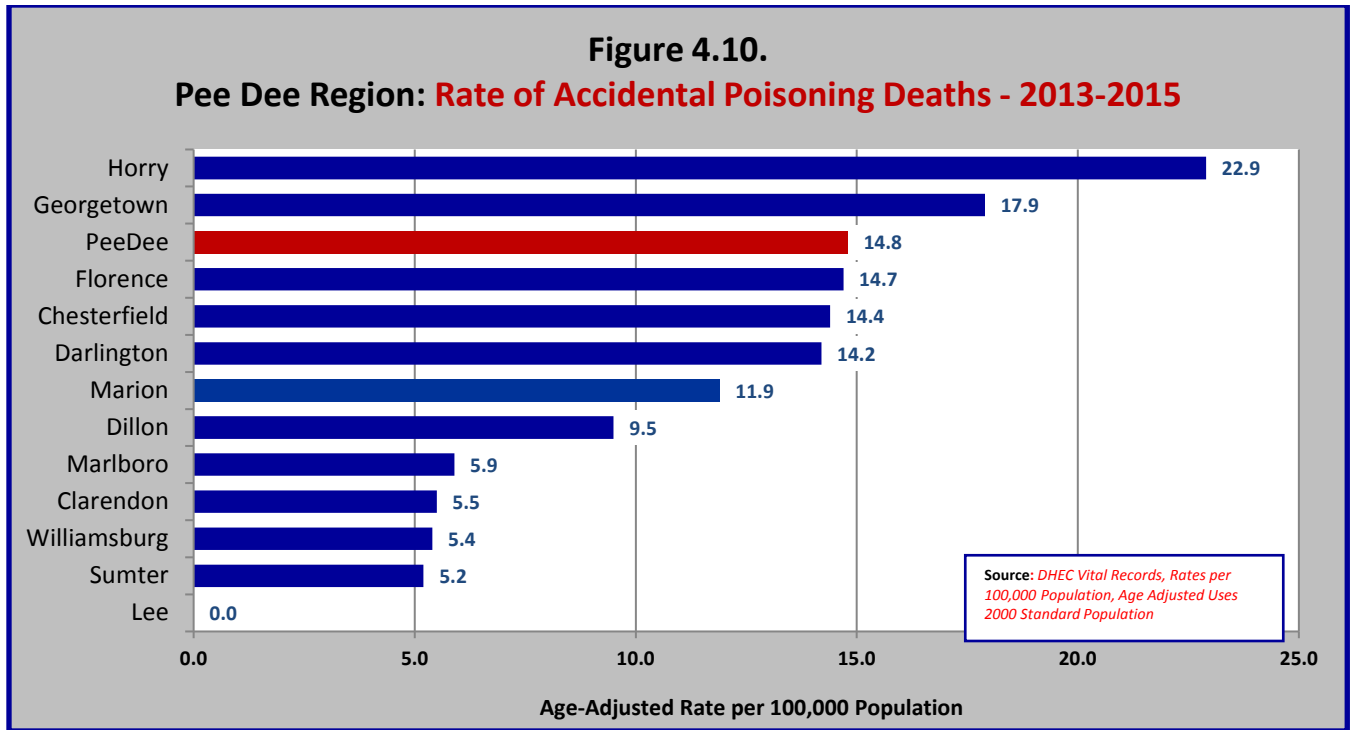
## Injury Death Rates by County and Region



## Injury Death Rates by County and Region

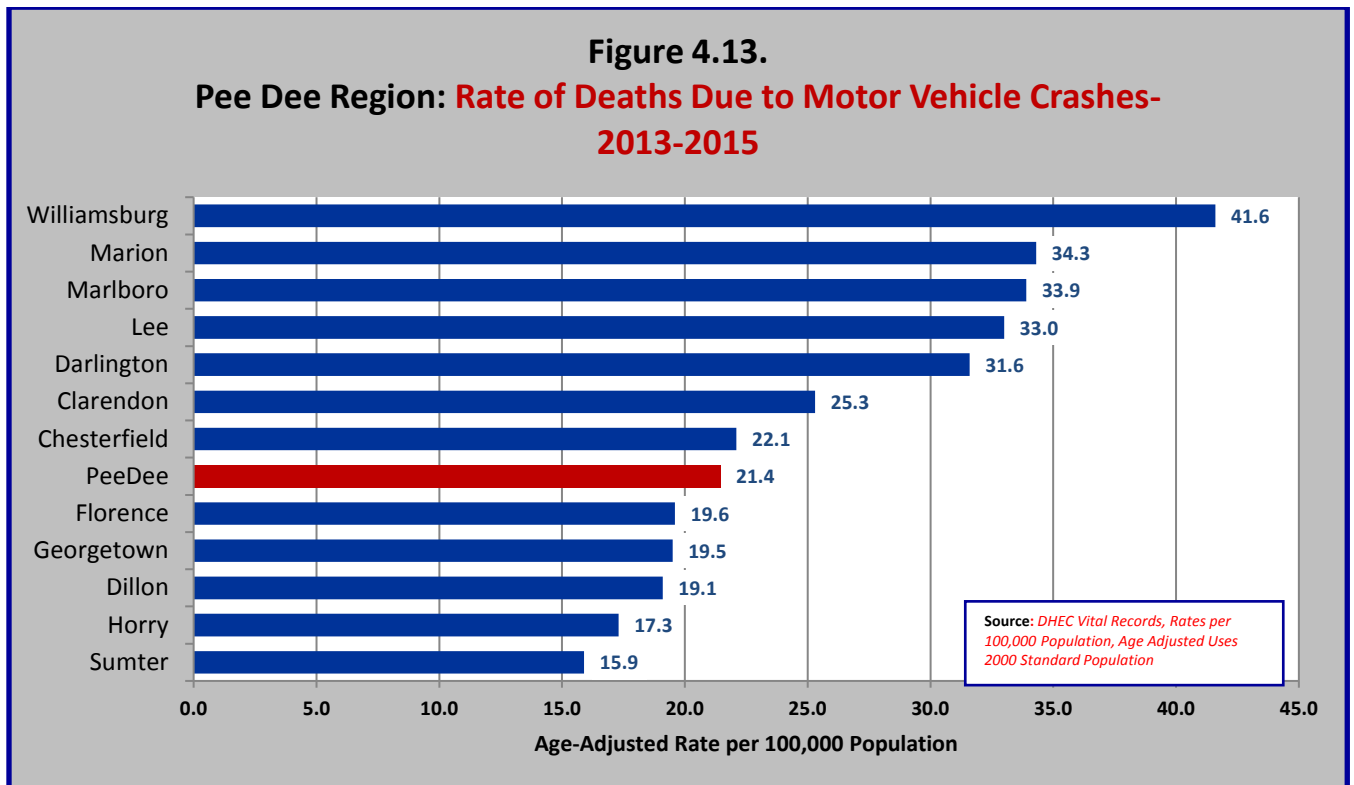
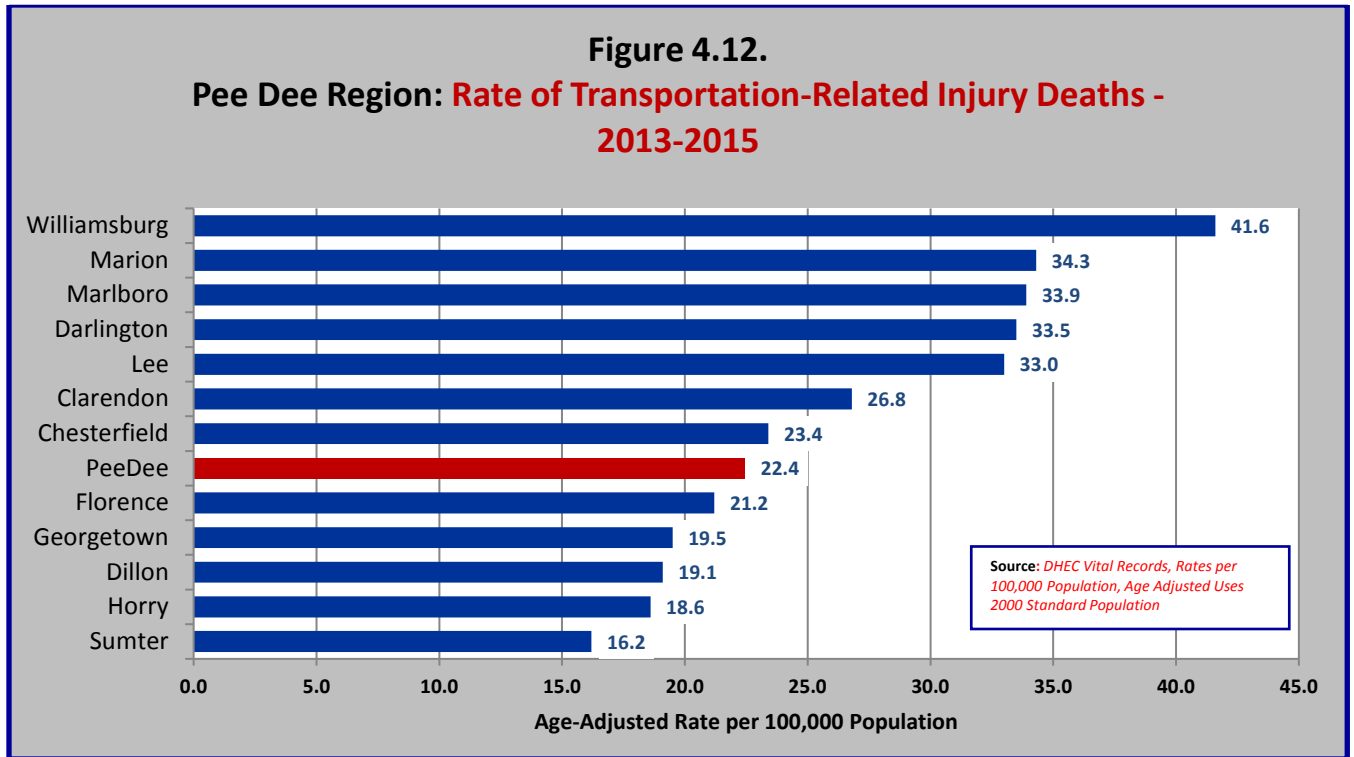


## Injury Death Rates by County and Region





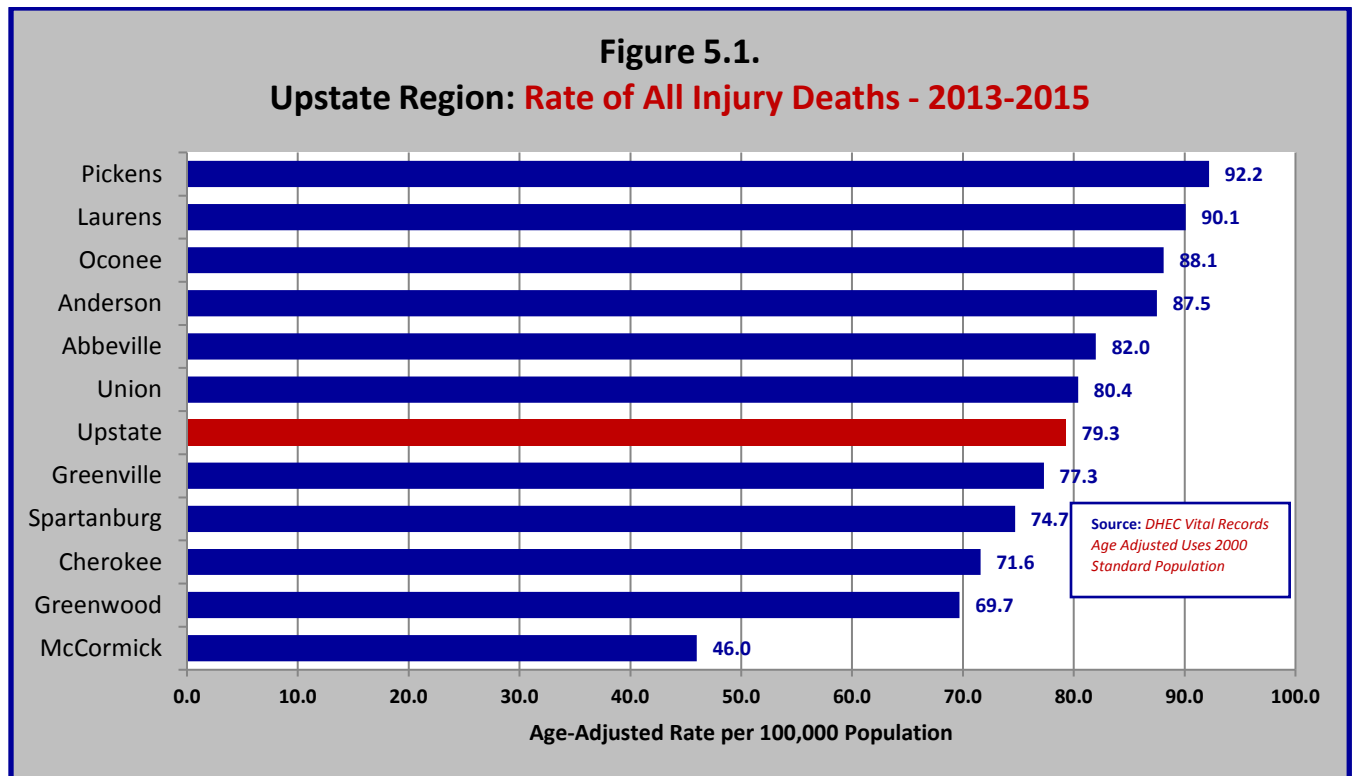
## Injury Death Rates by County and Region



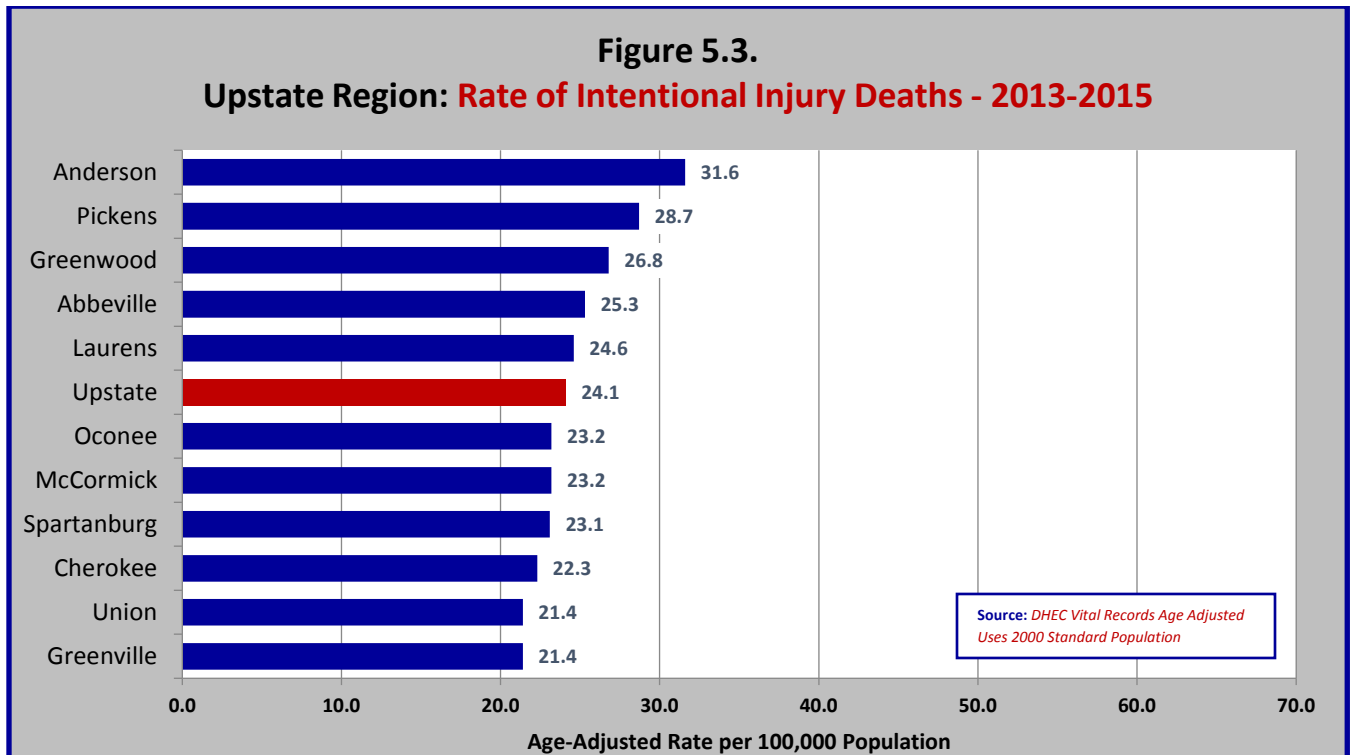
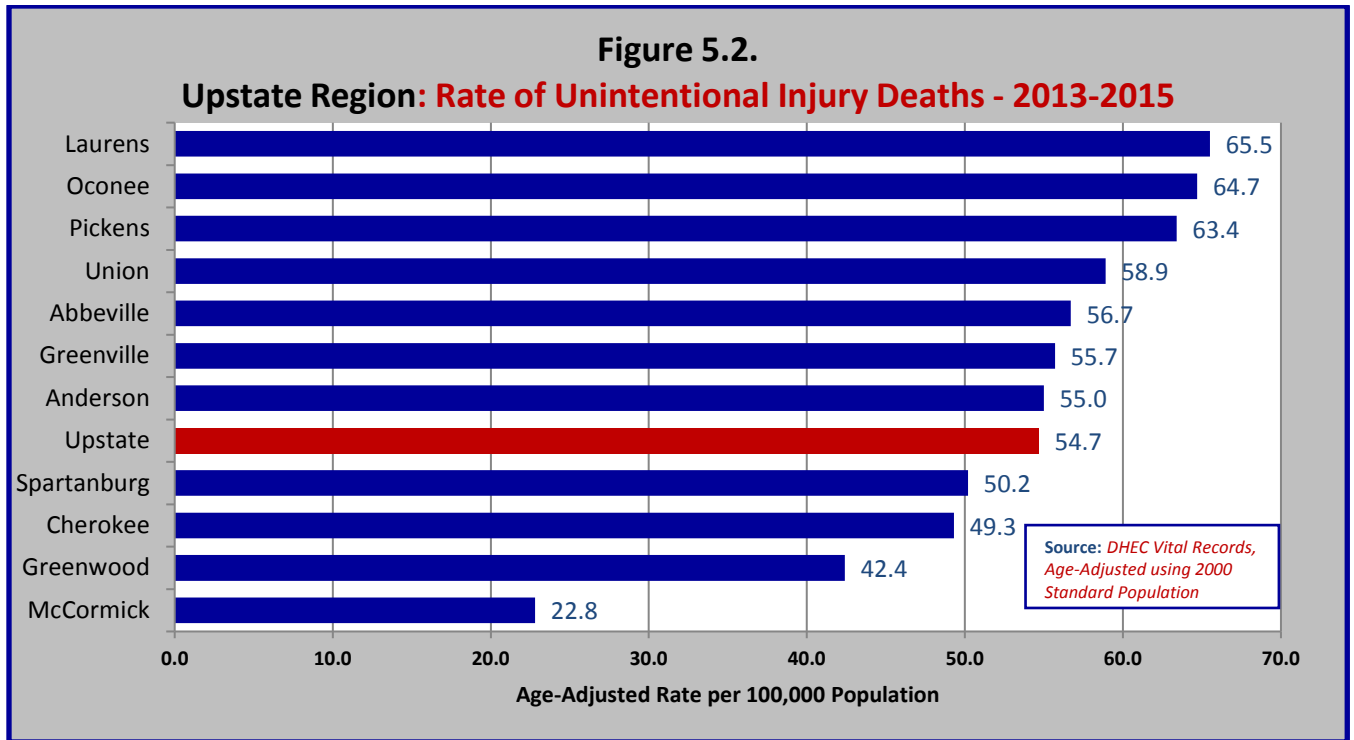
# Upstate Region

## Injury Death Rates by County and Region

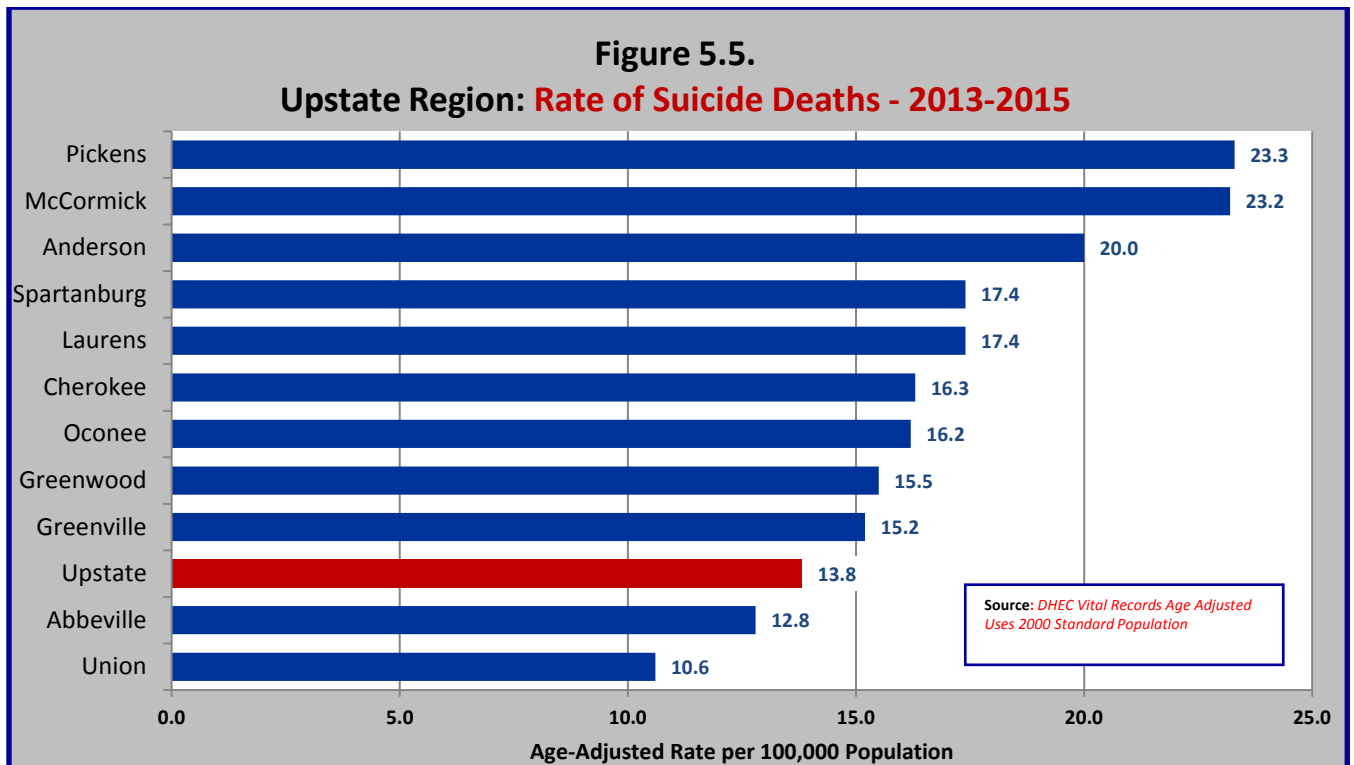
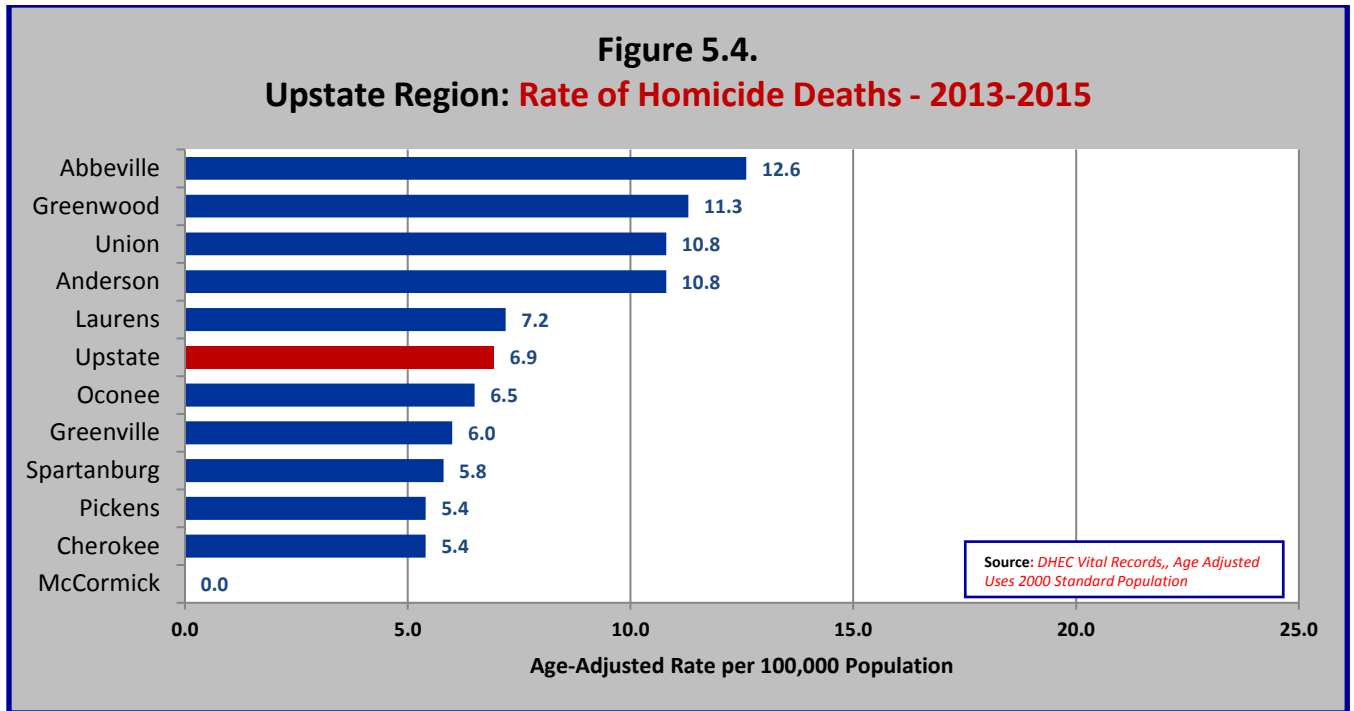
Injury is one of the leading causes of death in individuals under the age of 45. This section includes graphs reflecting mortality rates for selected causes of injury for the Upstate Region and each county in the region. The graphs are arranged by counties with the highest to lowest death rates for each type of injury, thus pinpointing the highest-risk counties and how they compare to regional rates. Included are graphs for all injury, unintentional injury (accidents), intentional injury, homicide, and suicide. Mortality rates for accidental deaths include drowning, falls, firearms, poisoning, smoke and fire, all transportation-related injuries, motor vehicle crashes and other non-transport accidents. Please refer to the technical notes at the end of the document for details on the definitions of each type of injury.



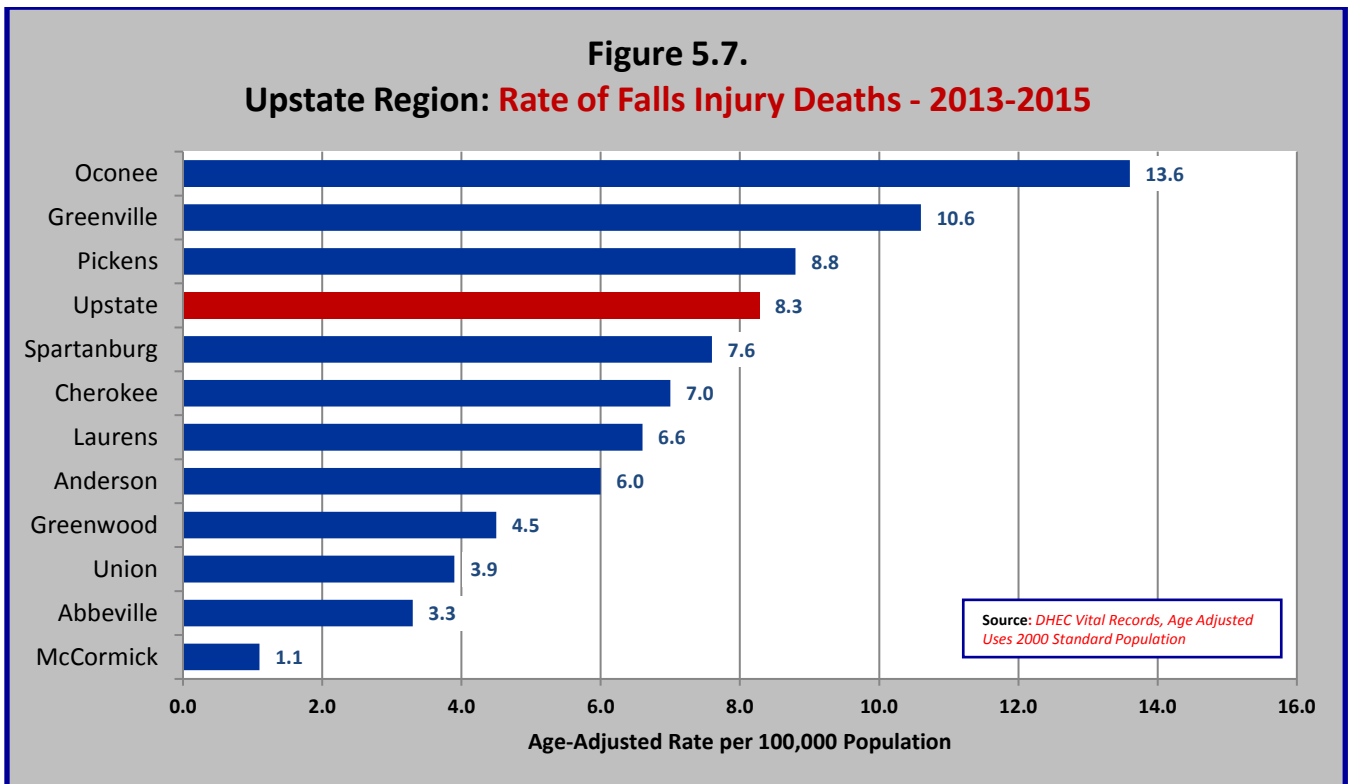
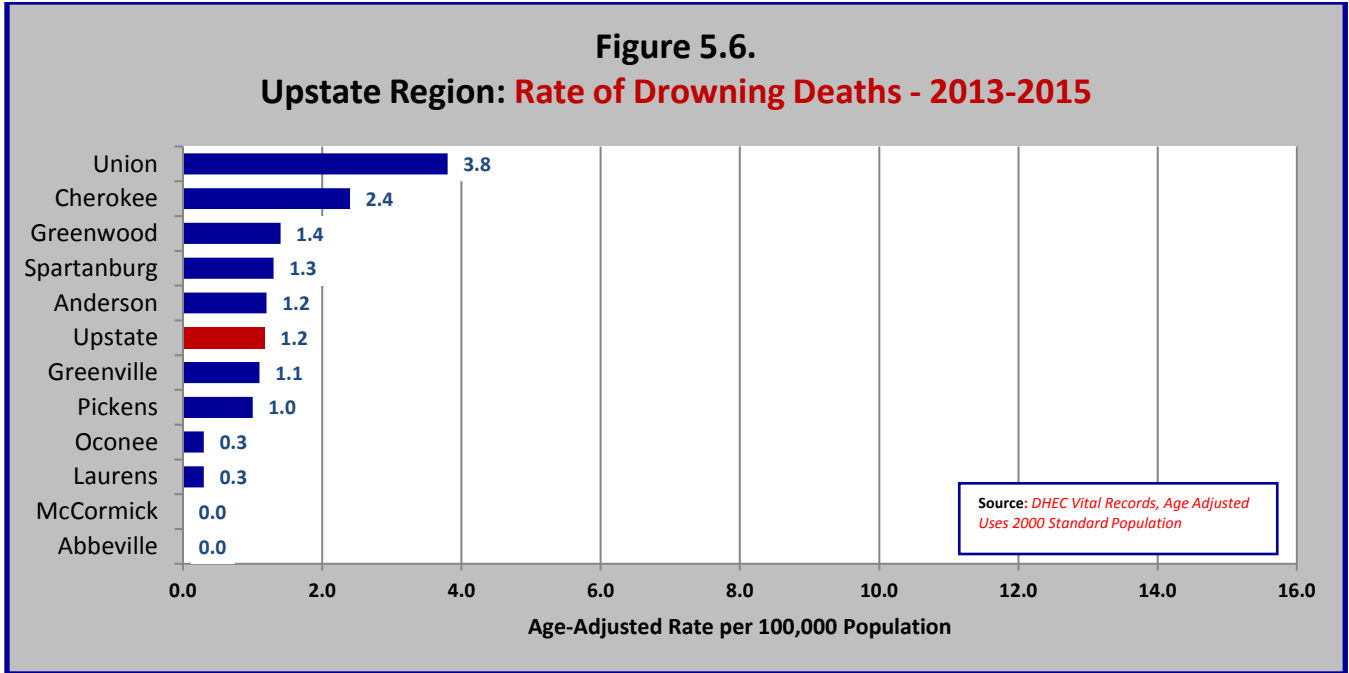
## Injury Death Rates by County and Region



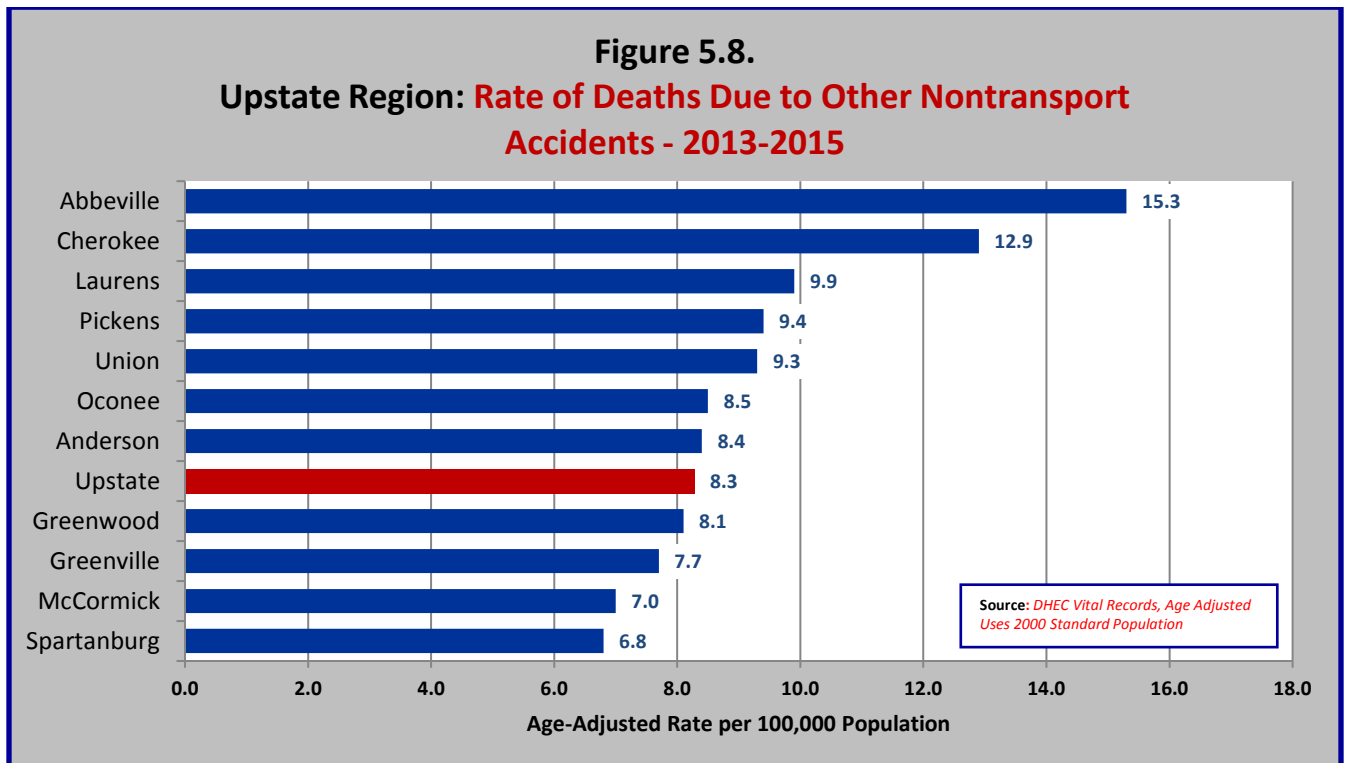
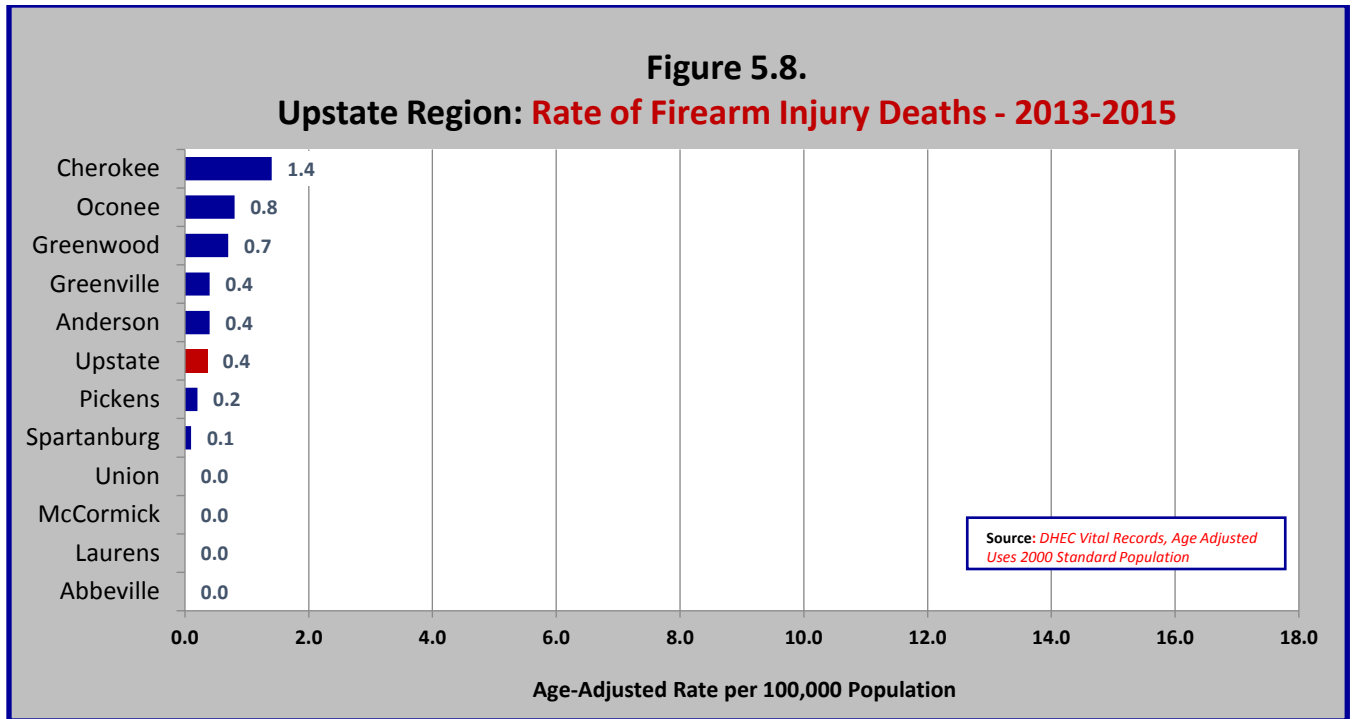
## Injury Death Rates by County and Region



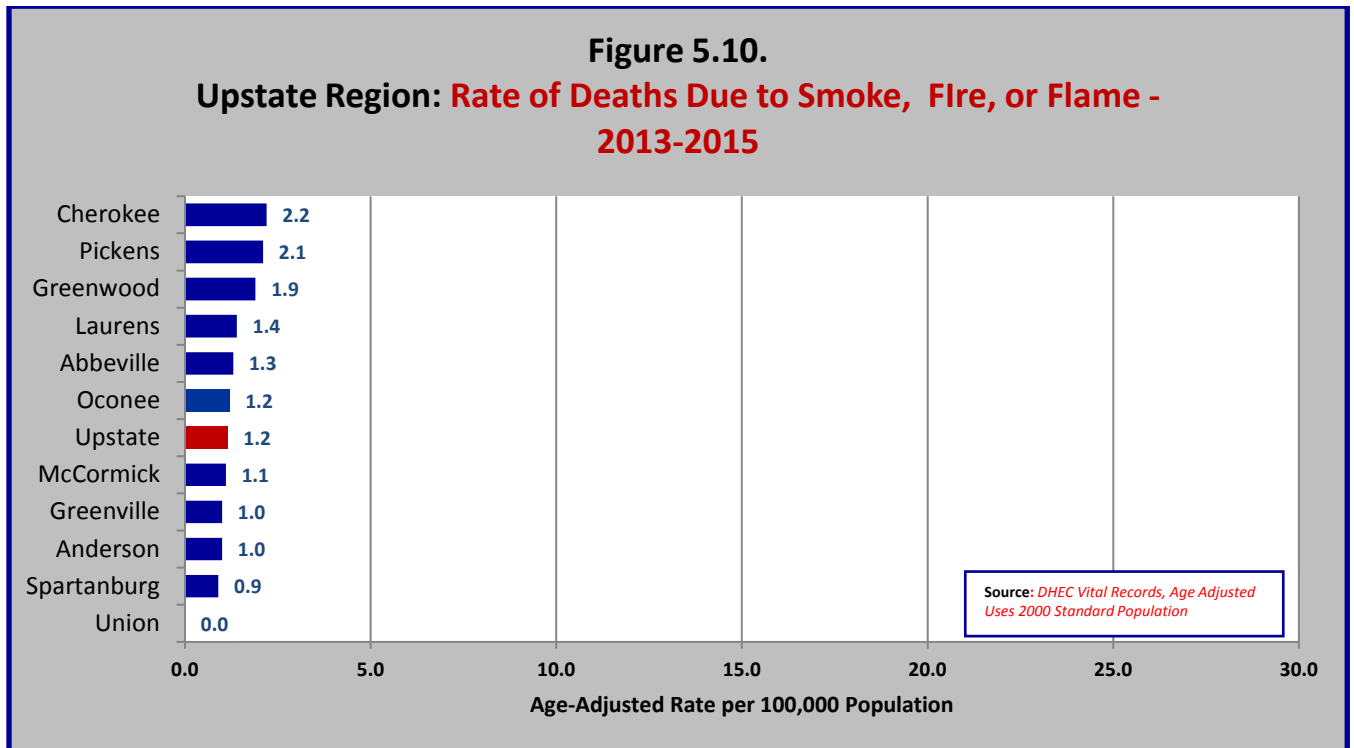
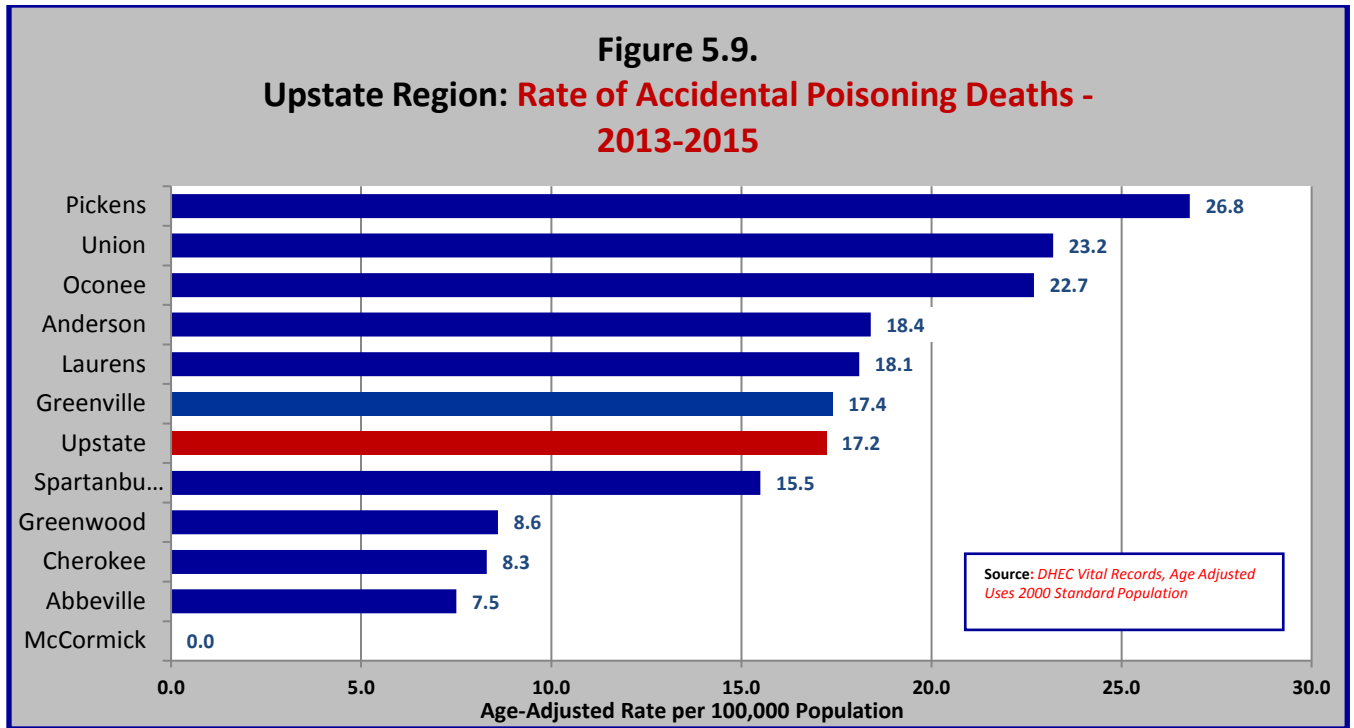
## Injury Death Rates by County and Region



## Injury Death Rates by County and Region

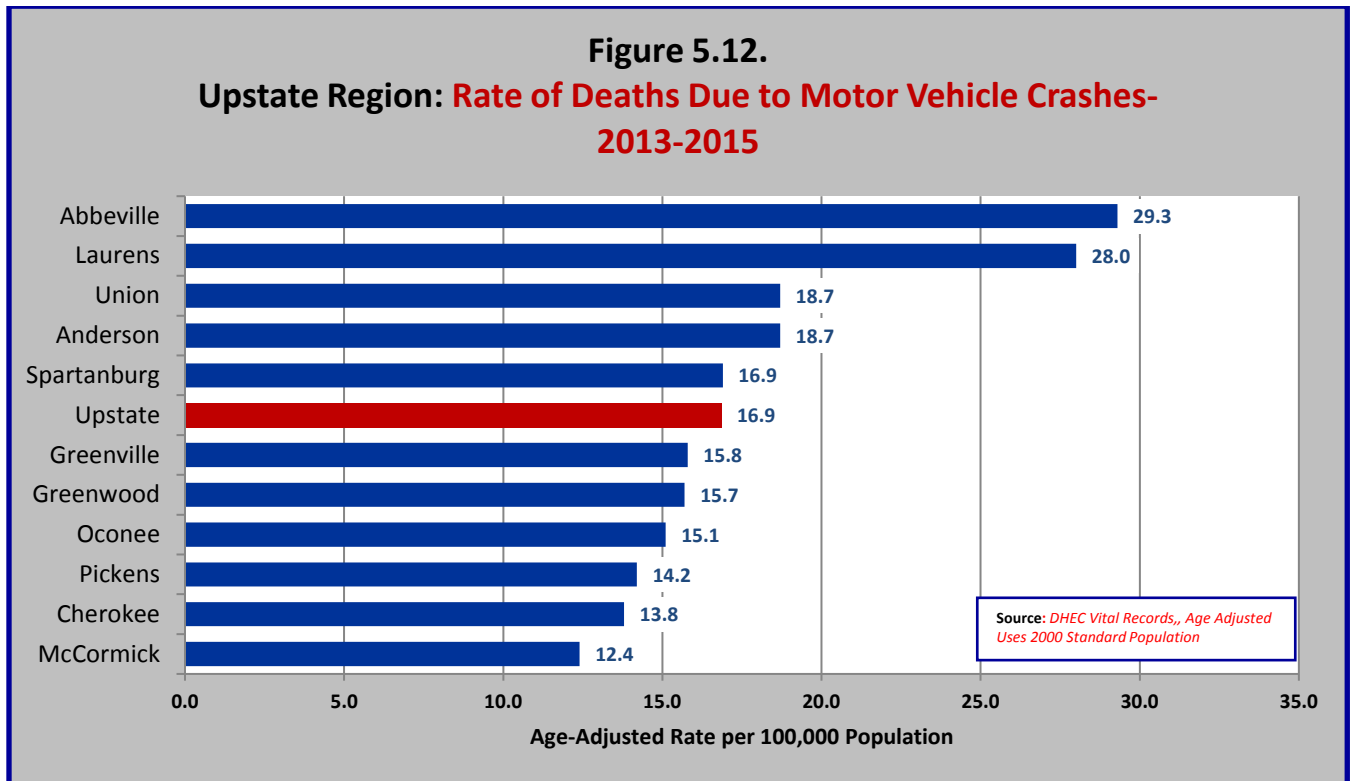
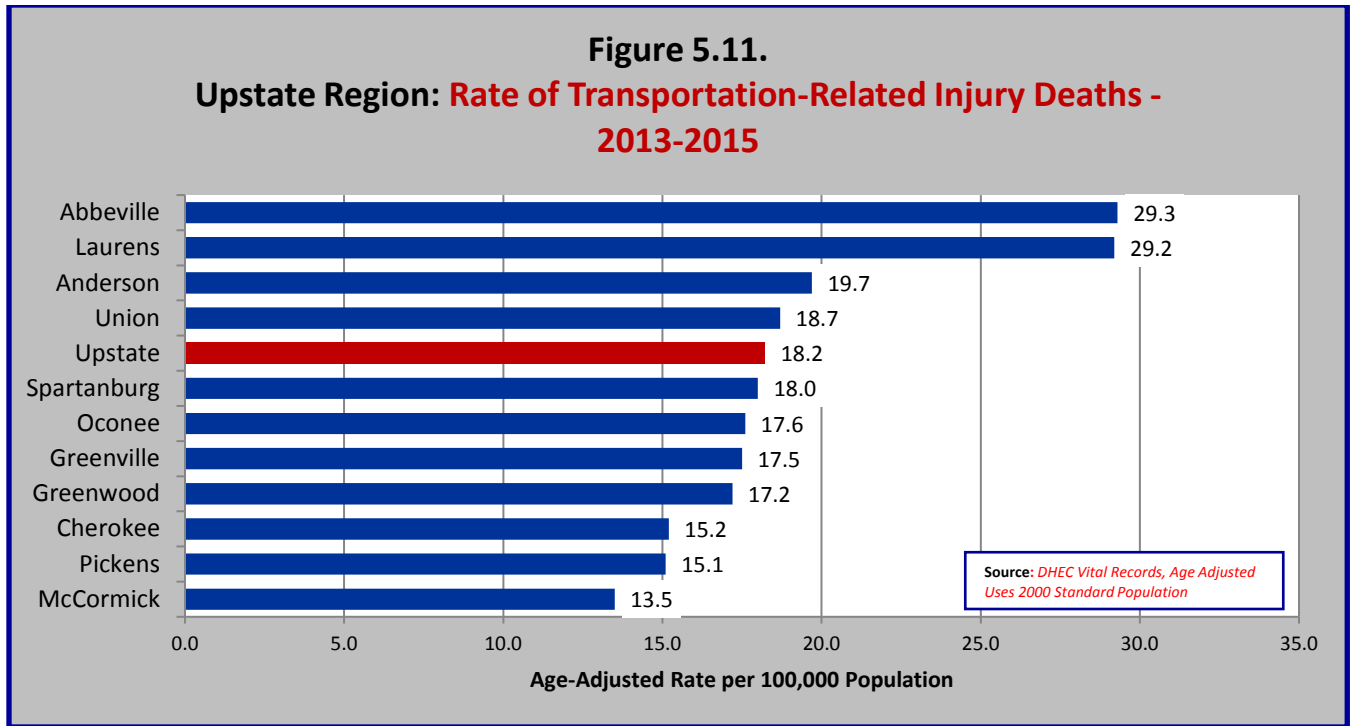


## Injury Death Rates by County and Region





## Injury Death Rates by County and Region



## Injury Death Rates by County and Region

### Technical Notes

Injury-related death statistics found in this report are determined from SC DHEC Office of Public Health Statistics and Information Services (PHSIS) Death Certificate Data. Deaths are classified based on the underlying cause of death and are coded using ICD10 codes. The definitions for causes of injury deaths can be found here <http://scangis.dhec.sc.gov/scan/bdp/defn/death2tablelist.aspx> and are listed here.

#### Definitions of Causes of Injury

**All Injury.** This includes ICD-10 codes V01-Y36, Y85-Y87, Y89, U01-U03. There are two dimensions of the external causes of injury: intent (manner) and the mechanism (cause) by which the injury occurred. Injuries are grouped according to the intent which in turn divided into groups by causes.

**Unintentional injury** is defined by ICD-10 codes V01-X59, Y85-Y86 and are also called accidents.

**Intentional injuries** include intentional self-harm or suicide, assault or homicide, legal interventions and operations of war. This is defined by ICD10 codes X60-X84, Y87.0.

**Suicide or attempted suicide:** is defined as self-inflicted injuries, which leads to death or harm, by any means. This includes ICD-10 codes X60-X84, and Y87.0 and includes by discharge of firearms (X72-X74) and by other and unspecified means and their sequelae (X60-X71, X75-X84, Y87.0).

**Homicides, attempted homicides or assaults:** are injuries inflicted by another person with intent to injure or kill (homicide), by any means. Assaults are defined as injuries inflicted by another person with intent to injure or kill (homicide), by any means. Medically, assault is defined by ICD-9 codes E960-E969 and ICD-10 codes X55-Y09, and Y87.1. **Assault (homicide)** includes by discharge of firearms (X93-X95) and by other and unspecified means and their sequelae (X85-X92, X96-Y09, Y87.1).

**Drowning/submersion:** includes death by drowning or injury by submersion in watercraft accidents, while swimming or just wading in water. It also includes drowning/submersion in bathtubs. This includes ICD-9 codes E830, E832, E910, E954, E964, E984, and ICD-10 codes W65–W74.

**Falls:** include falls on same level (slipping, tripping), and falls on different levels (stairs, bed, ladder). Falls are defined by ICD-9 codes E880-E886, E888 and ICD-10 codes W00-W19. Falls

**Firearms:** use of handguns, automatic weapons, hunting rifles, military firearms, and air guns. Accidental discharge of firearms are defined by ICD-9 codes E922 and ICD-10 codes W32-W34.

**Smoke/Fire/flame:** injuries due to smoke, and/or fire/flame include burning by fire; asphyxia or poisoning due to fire; secondary fires due to explosion; fall or jump from burning structure. This analysis includes burns by hot objects as well as fires and is defined by ICD-10 codes X00-X19.

**Poisoning:** includes by drugs (painkillers, tranquilizer, antibiotics, antipyretics, and antirheumatics), alcohols, food, cleansing agents, agricultural chemicals, corrosives, and gases. Poisoning diagnoses are defined by ICD-10 codes X40-X49.

## Injury Death Rates by County and Region

**All transportation-related accidents** include Motor vehicle accidents (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2) , Other land transport accidents (V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3, V89.9) , Water, air and space, and other and unspecified transport accidents and their sequelae (V90-V99, Y85). This includes train railway accidents, non-traffic MVC (*is any motor vehicle accident occurring entirely in any place other than a public highway*), other road vehicle crashes, (3 wheeled vehicles, ATV, steer cars, animal drawn vehicles). It also involves water, air and space transport crashes

**Motor vehicle crashes (MVC):** includes all motor vehicles, except motorcycles, which are involved in traffic crashes. The injured person in this group is an occupant of a motor vehicle (driver or passenger), or an unspecified individual who is involved in traffic MVC. Motor vehicle accidents are defined by ICD-10 codes [V02–V04](.1,.9), V09.2, [V12–V14](.3–.9), V19(.4–.6), [V20–V28](.3–.9), [V29–V79](.4–.9), V80(.3–.5), V81.1, V82.1, [V83–V86](.0–.3), V87(.0–.8), V89.2. Motor vehicle accidents (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2)

**Other and unspecified non-transport accidents** and their sequelae (W20-W31, W35-W64, W75-W99, X10-X39, X50-X59, Y86)

Death rates are age-adjusted and standardized using the U.S. 2000 census population. More detailed injury death data (i.e. numbers and rates of deaths by age group, race/ethnicity or gender) can be found at SCAN <http://scangis.dhec.sc.gov/scan/bdp/tables/death2table.aspx>.

For graphs found on the same page, the scale has been adjusted so both graphs have the same scale. The scale varies from page to page depending on the distribution of the data.