

Taming Treacherous Data | DHSI 2019 | Day 2 AM | Deck 3

**Activity:**

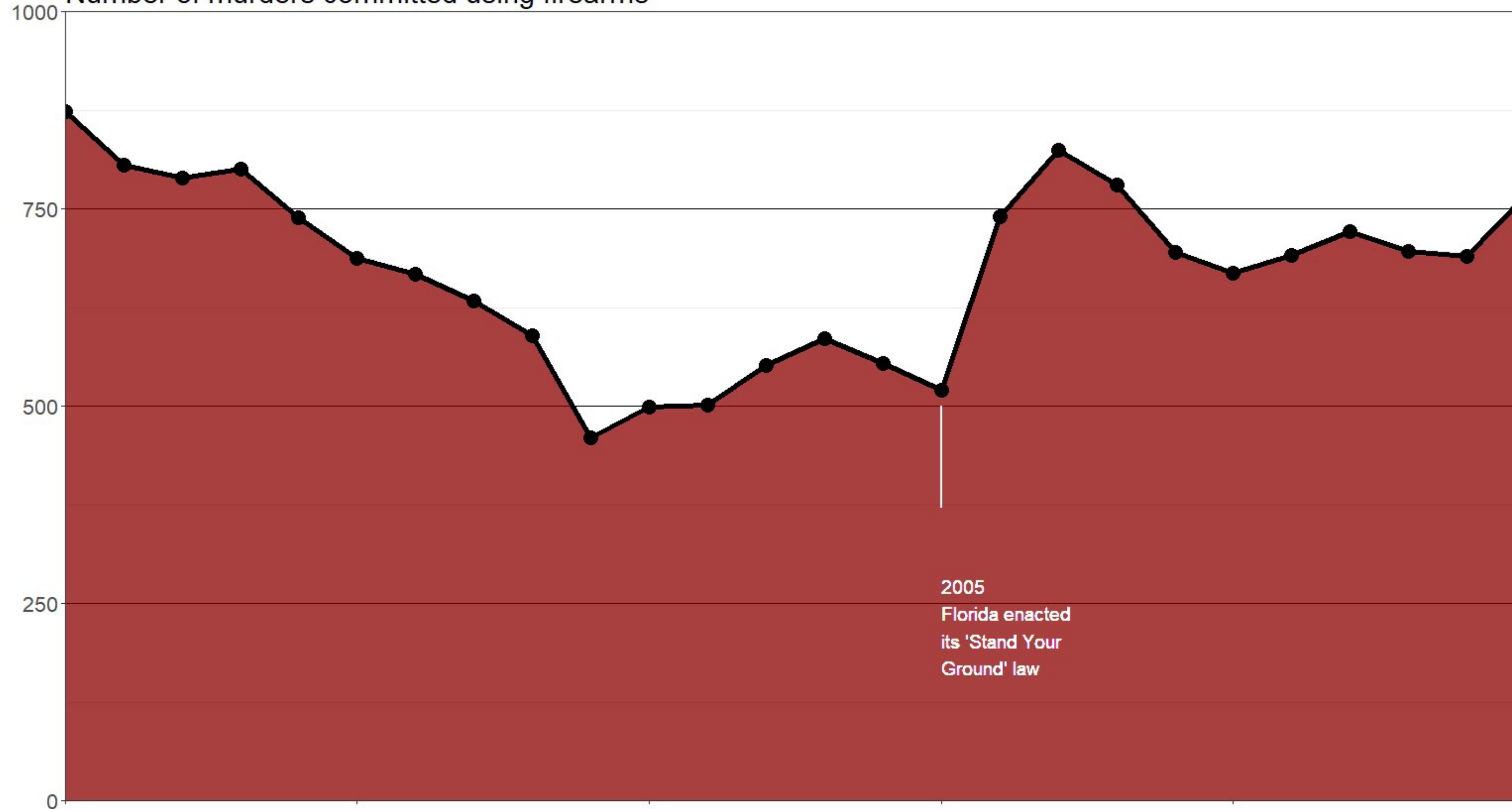
**Gun Deaths in Florida**

# Create a Line Chart

1. Open RStudio
2. Install ggplot package
3. Paste chart code
4. Change variables
5. Screenshot your final chart
6. Compare with class

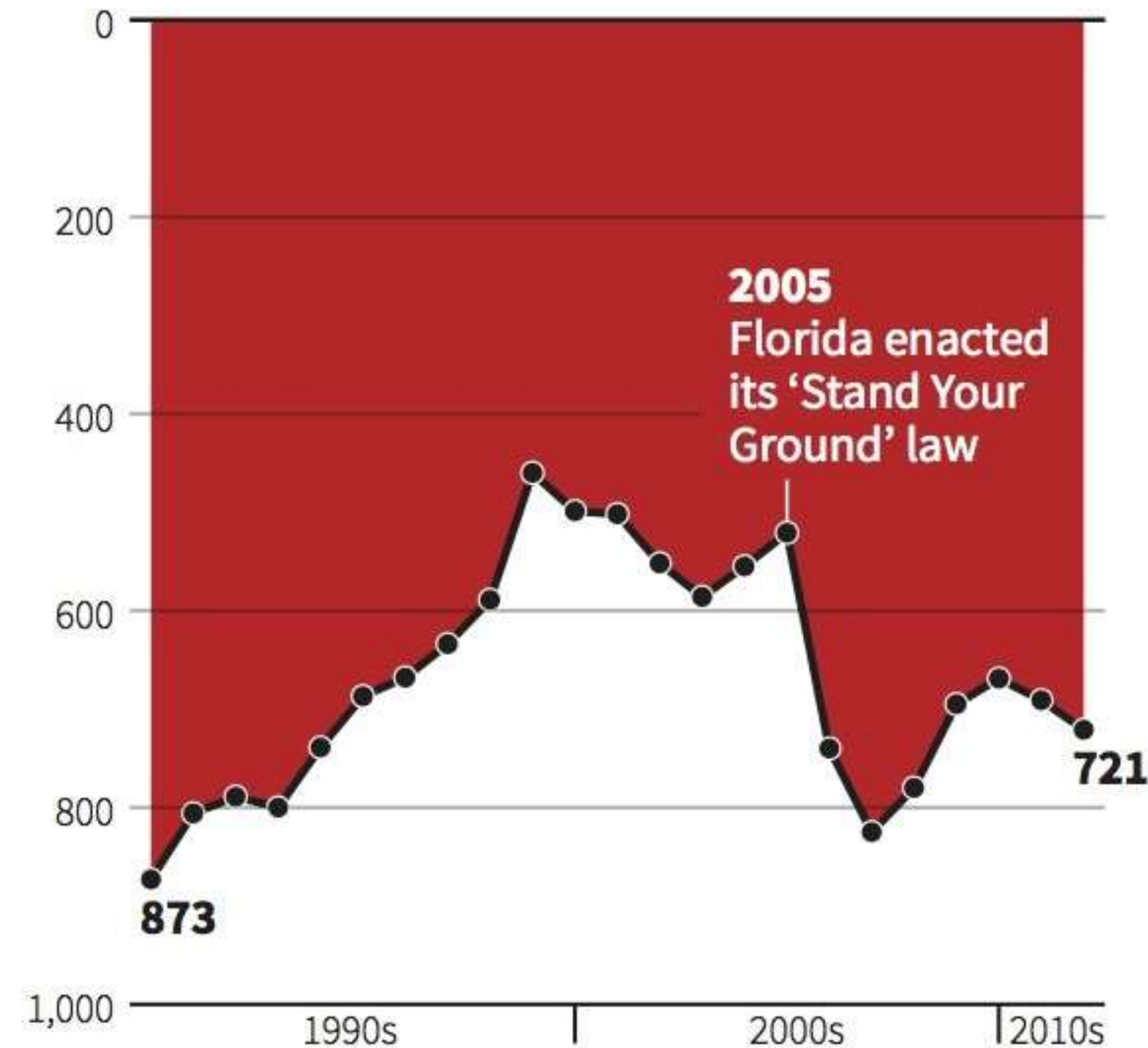
# Gun Deaths in Florida

Number of murders committed using firearms



# Gun deaths in Florida

Number of murders committed using firearms



Source: Florida Department of Law Enforcement

C. Chan 16/02/2014

REUTERS

Designer:  
CH Chan





**John Self** @john\_self · Apr 15

@ChristineHHChan Hi, just quick question about this chart from Feb 14:  
[graphics.thomsonreuters.com/14/02/US-FLORI...](http://graphics.thomsonreuters.com/14/02/US-FLORI...) Why invert the y-axis? Seems counterintuitive!

↩ Reply ↻ Retweet ★ Favorite ... More



**Christine Chan**  
@ChristineHHChan



Following

@john\_self Thanks for the feedback. I prefer to show deaths in negative terms (inverted). It's a preference really, can be shown either way.

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FAVORITES

6

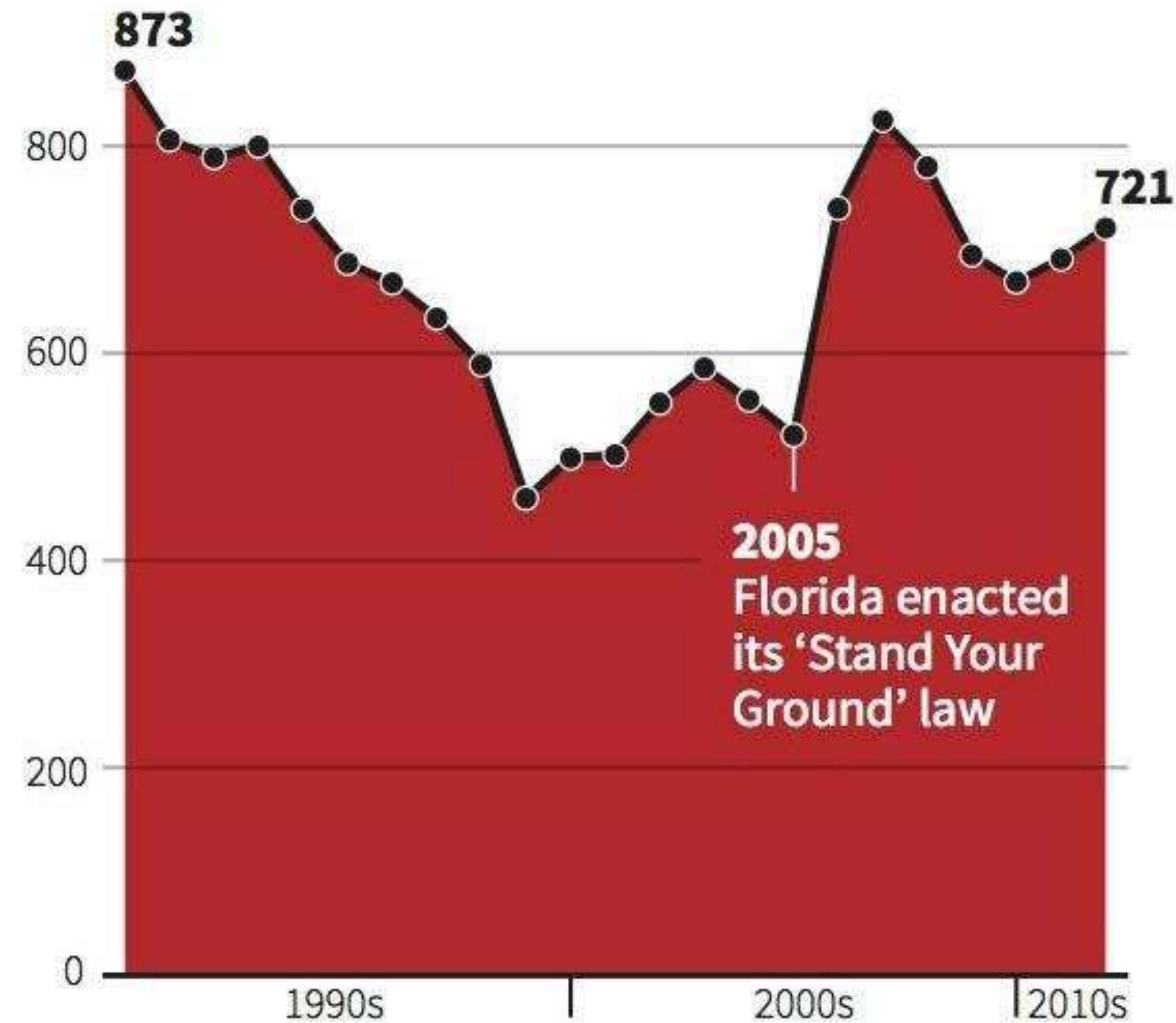


3:30 AM - 15 Apr 2014



# Gun deaths in Florida

Number of murders committed using firearms

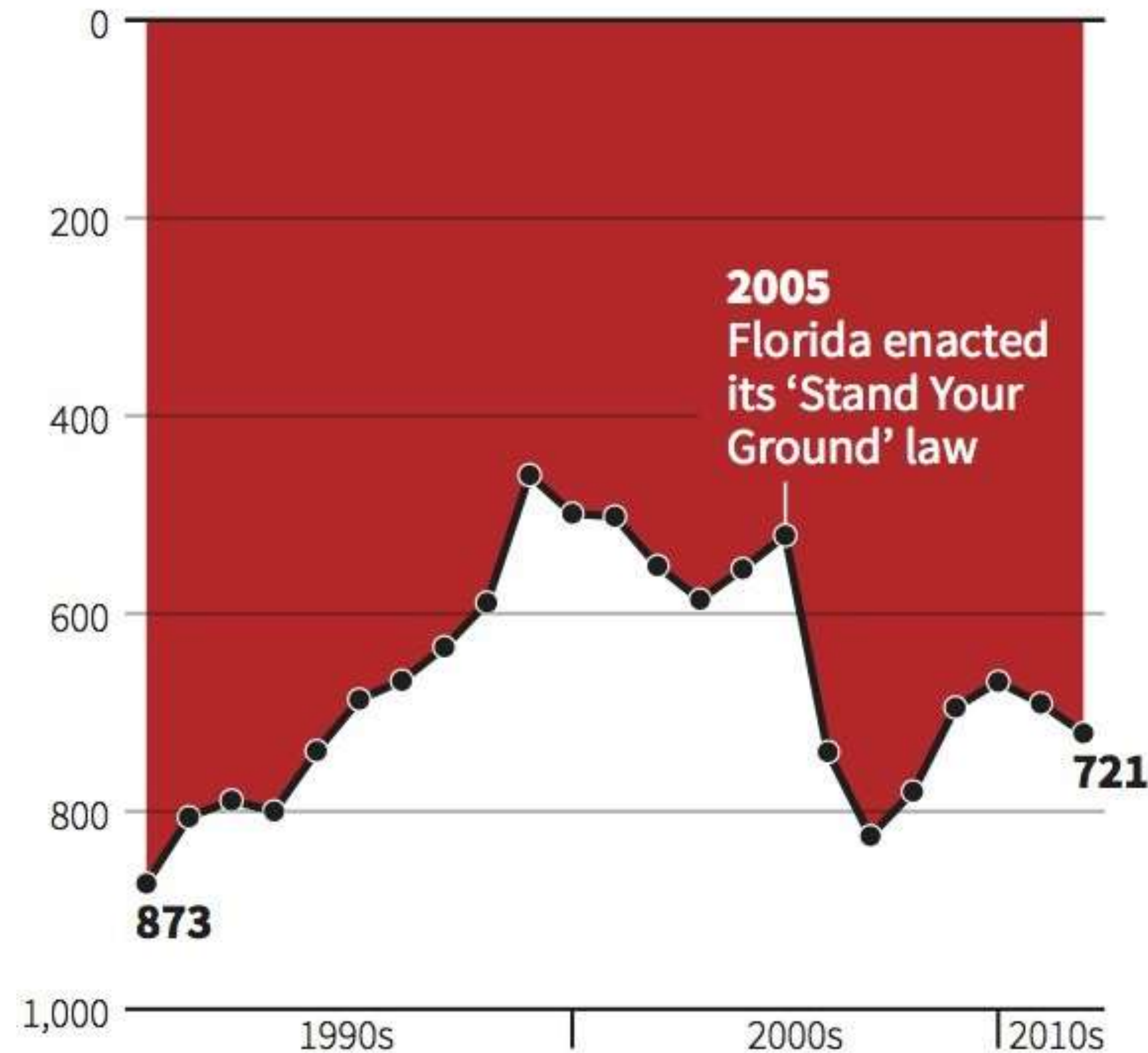


Source: Florida Department of Law Enforcement

Designer:  
PA Fedewa

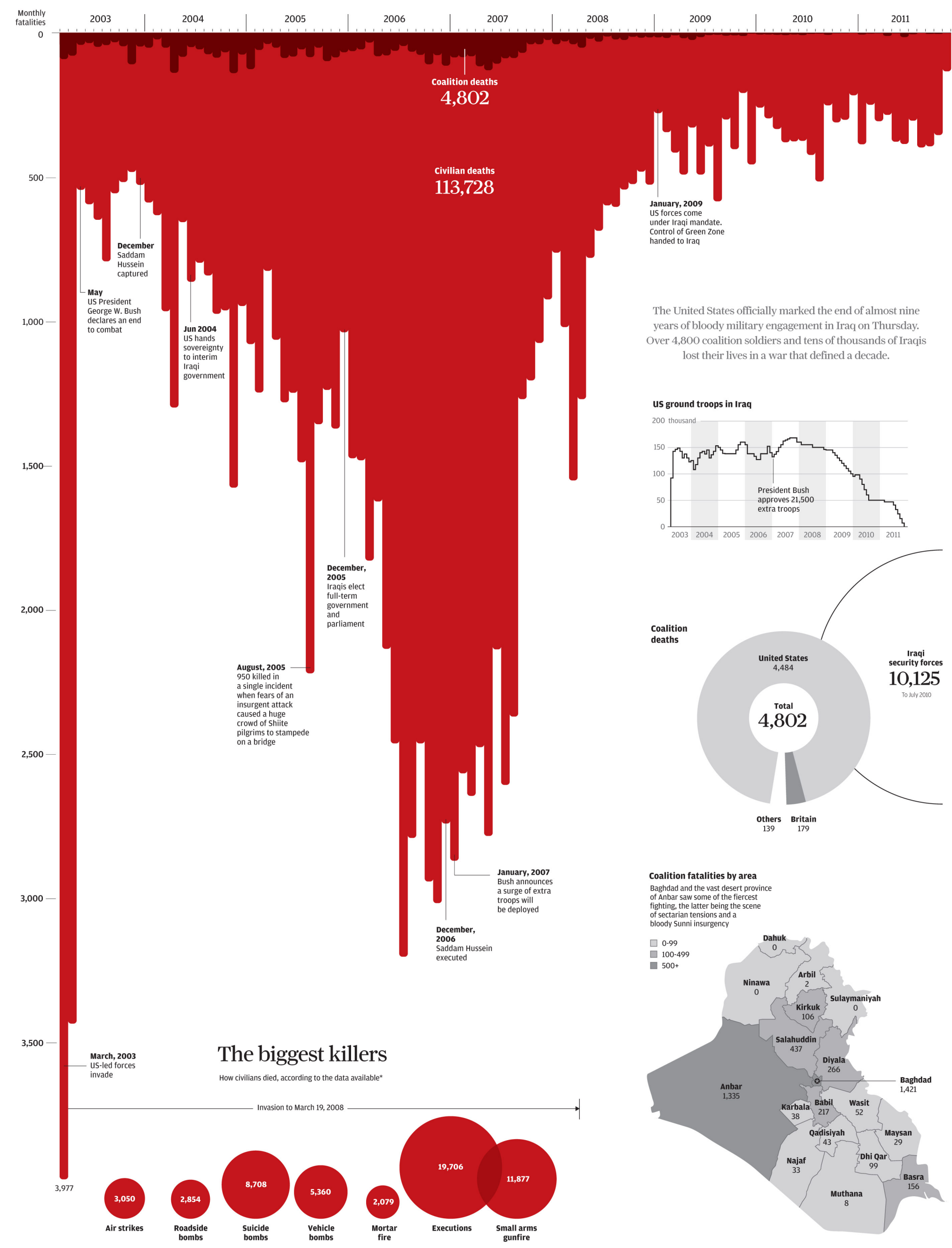
# Gun deaths in Florida

Number of murders committed using firearms



Source: Florida Department of Law Enforcement

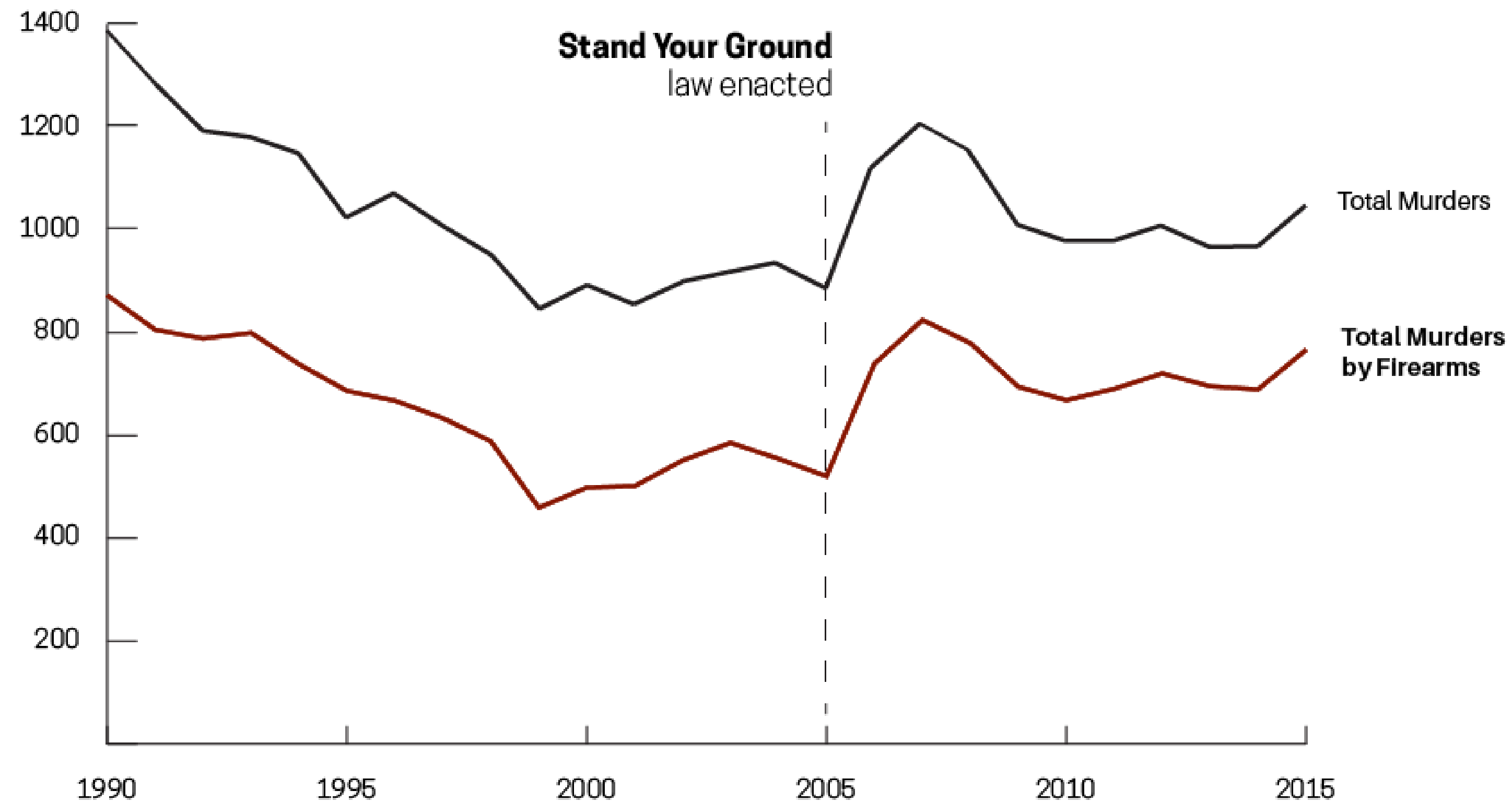
# Iraq's bloody toll



Designer:  
S Scarr



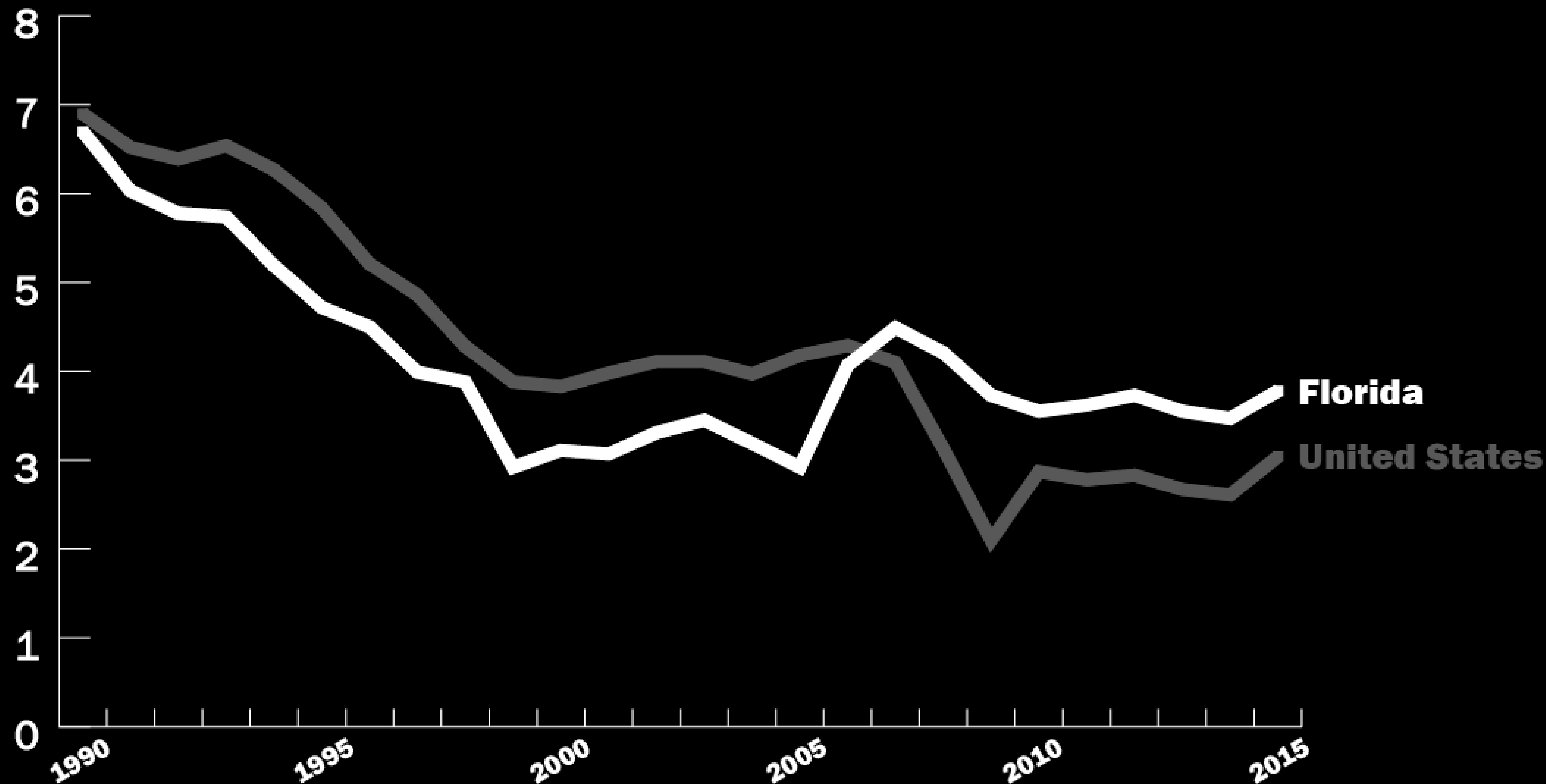
# DEATH BY **FIREARMS** IN FLORIDA



## What is Stand Your Ground?

This law establishes a right to defend one's self or others against threats or perceived threats, even to the point of applying lethal force, regardless of whether safely retreating from the situation might have been possible.

# Firearm Homicide Rate Per 100,000 Residents (1990-2015)

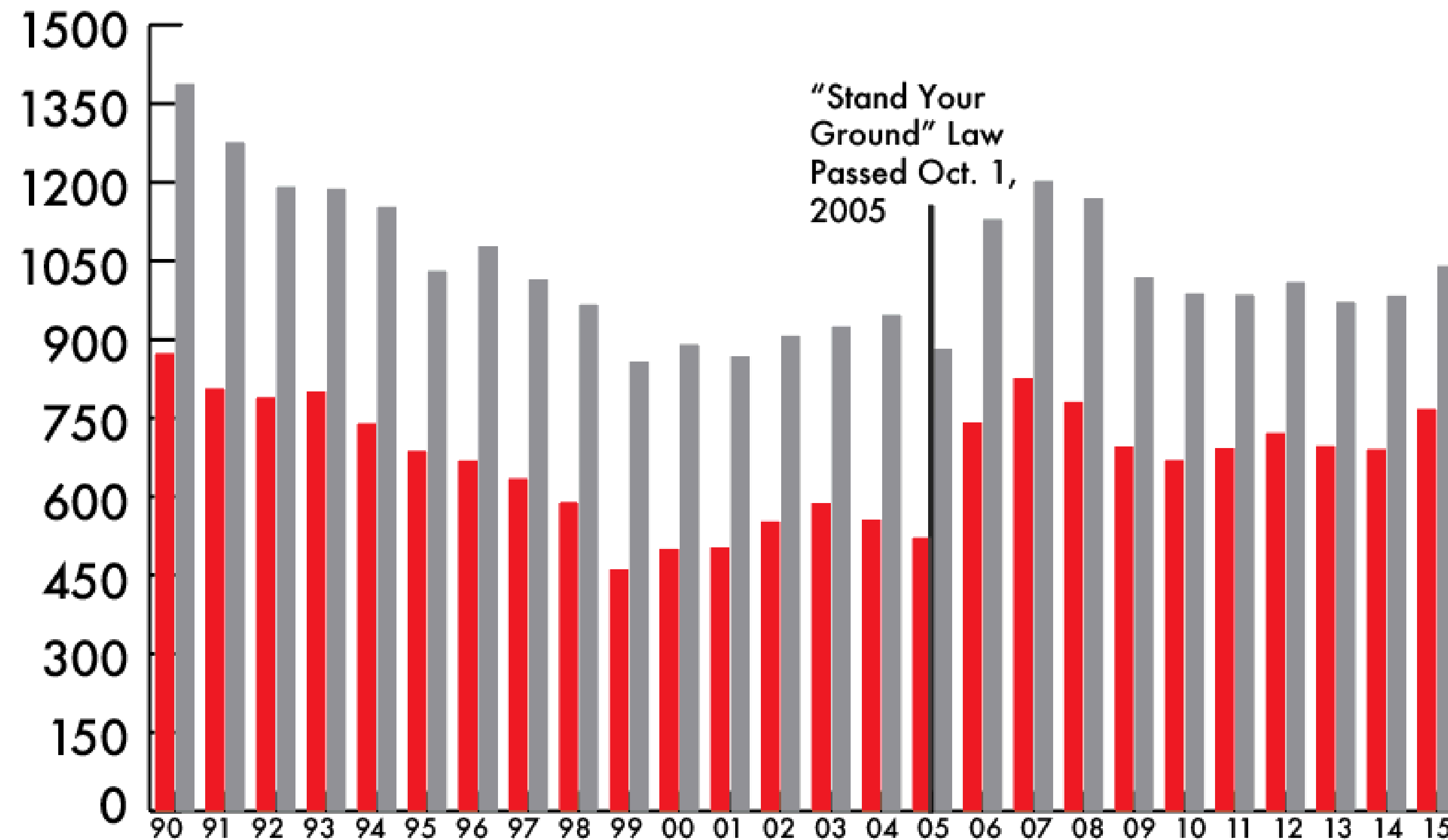


Source: FBI, US Census Bureau, Florida Department of Law Enforcement

# Florida Murders by Firearm

## 1990-2015

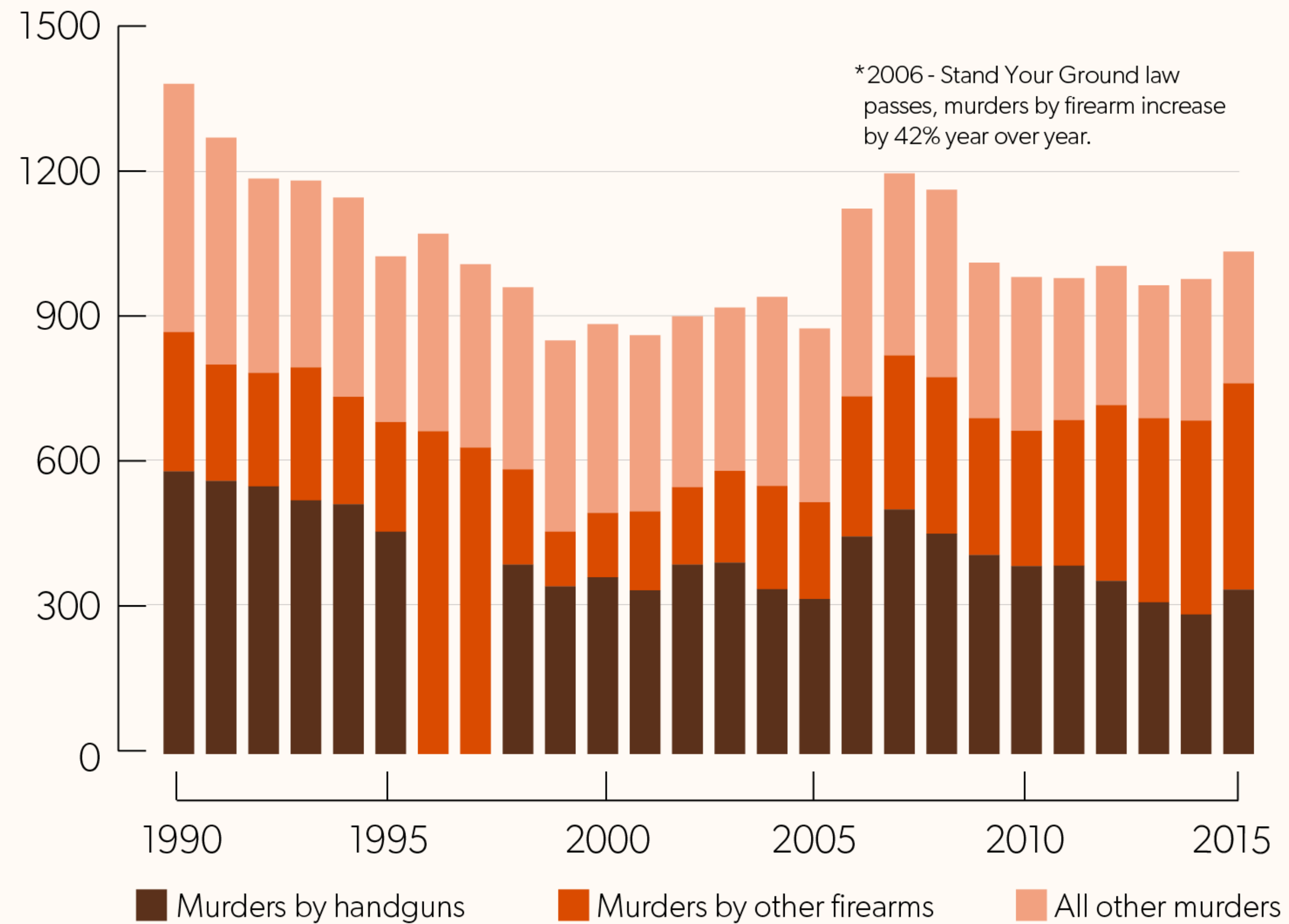
**Murders by firearm** account for a significant percentage of the total number of murders in the state





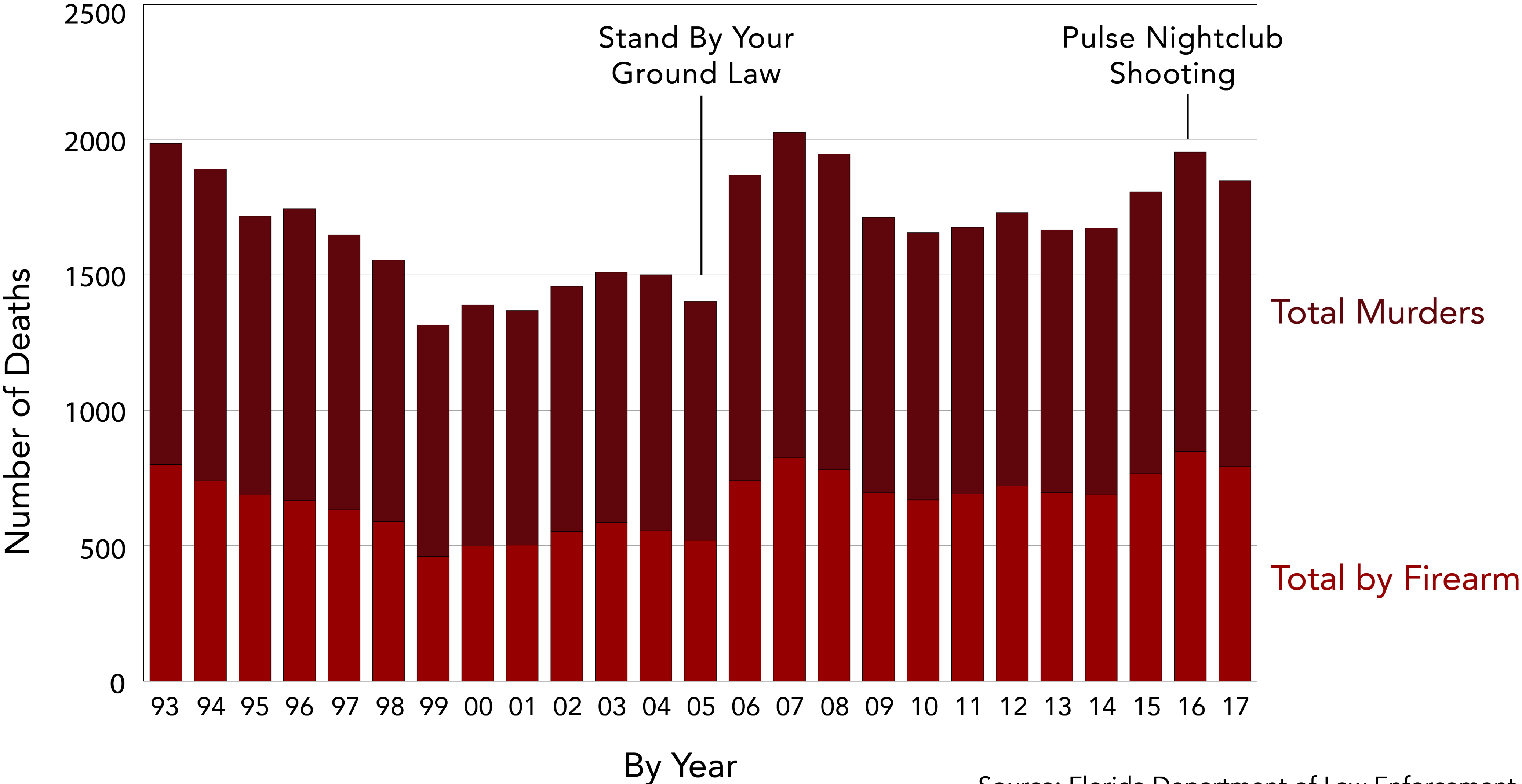
# Murders in Florida

## 1990 - 2015



\*Data in 1996 and 1997 did not differentiate between handguns and other firearms.

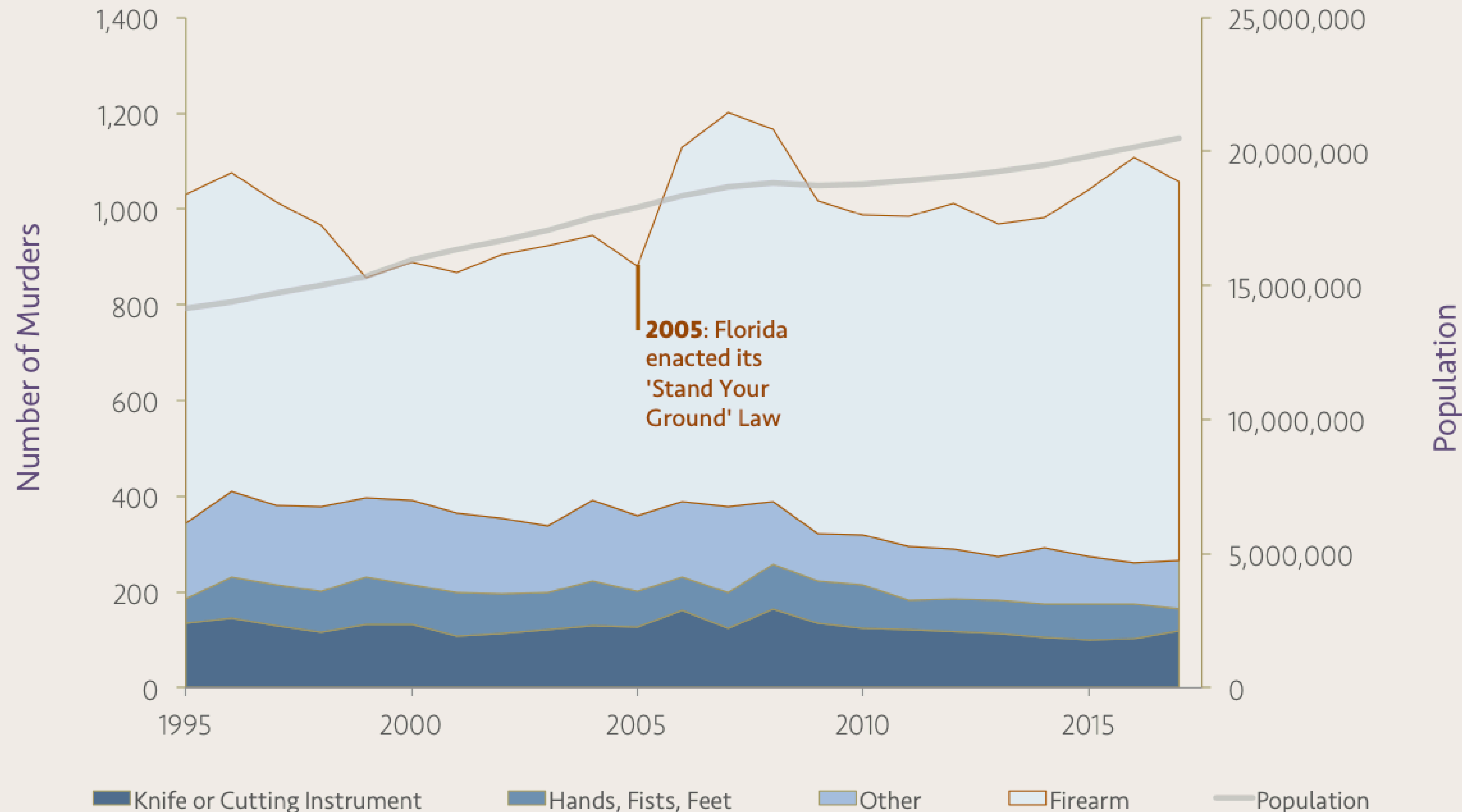
# Firearm Deaths in Florida [1993-2017]



Source: Florida Department of Law Enforcement

# Murder in Florida

Share of total murders committed with different types of weapons, presented with population growth for reference.



Data shows an **increase of nearly 250 murders by firearm** per year after Florida enacted its 'Stand Your Ground' Law. This increase is not accounted for by population growth or an overall increase in murders.

**Author:** Chelsea Canon, University of Nevada, Reno

**Definition:** "The Florida Uniform Crime Reports Program defines murder and nonnegligent manslaughter as the willful (nonnegligent) killing of one human being by another. Any death due to a fight, argument, quarrel, assault, or which occurs during the commission of a crime or by premeditated design is included in this category."

**Data Source:** Florida Department of Law Enforcement Report: "Murder by Weapon Type, 1995-2017," <http://www.fdle.state.fl.us/FSAC/Data-Statistics/UCR-Offense-Data.aspx>