

# Task 2.9 - Data Storytelling with Presentations

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# Project Brief:Preparing for Influenza Season

Project Overview	Data Insights on Vulnerable	Influenza in America	Findings and Suggestions
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## Getting Ready for the Influenza Season

Covering the period 2009 - 2017 in anticipation for 2018

**Goal:**  
To help a medical staffing agency that provides temporary workers to clinics and hospitals as needed.

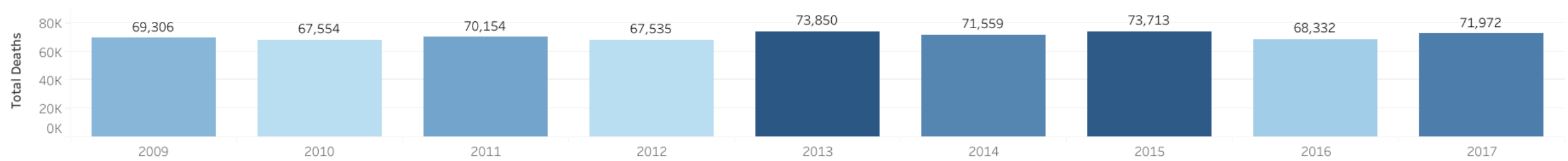


**Motivation:**  
The United States has an influenza season where more people than usual suffer from the flu. Some people, particularly those in vulnerable populations, develop severe complications and end up in the hospital. Hospitals and clinics need additional staff to treat these extra patients adequately. The medical staffing agency provides this temporary staff.

**Objective...**

### Annually, more than 67,000 individuals in the United States die succumb to Influenza

Cumulative Influenza-Related deaths in the USA between 2009 and 2017



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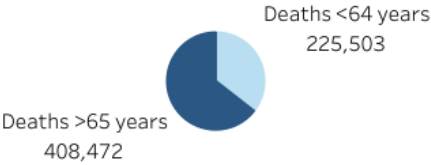
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Insights Derived from Influenza Fatalities Data

Hypothesis:

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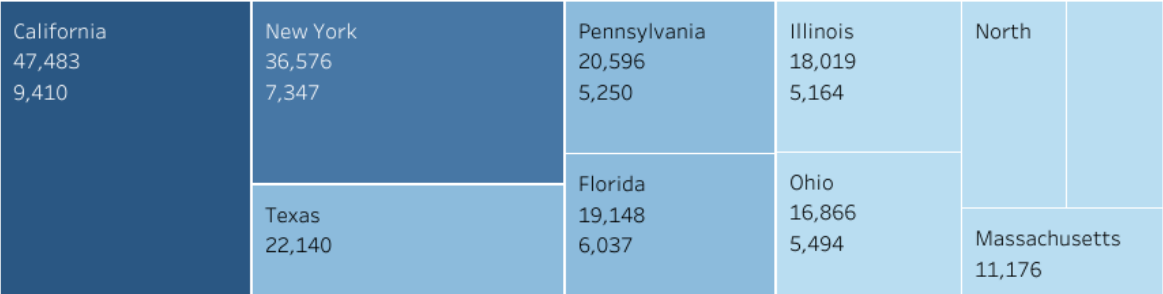
Influenza Fatalities among Individuals Aged 65 and Over, as well as Below, from 2009 to 2017



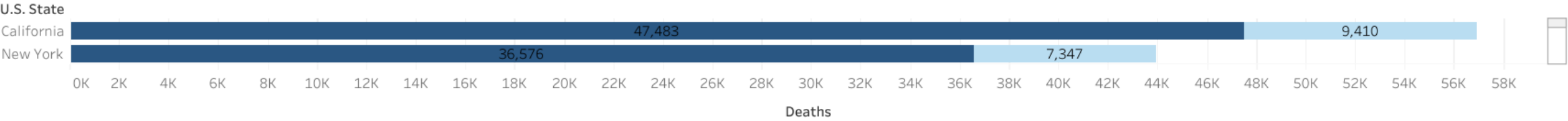
Year	
✓	2009
✓	2010
✓	2011
✓	2012
✓	2013
✓	2014
✓	2015
✓	2016
✓	2017

Population .. Death..  
Death

Top 10 Cumulative Statewide Fatalities from 2009 to 2017



Contrasting Cumulative Influenza Fatalities in States for Age Groups 65 Years and Over and Below from 2009 to 2017

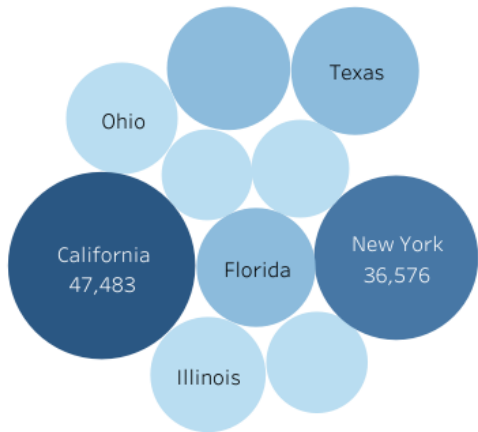


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Mortality in the United States Across Age Groups and Populations

Top 10 Cumulative Fatalities per State Based on Vulnerable Age Groups



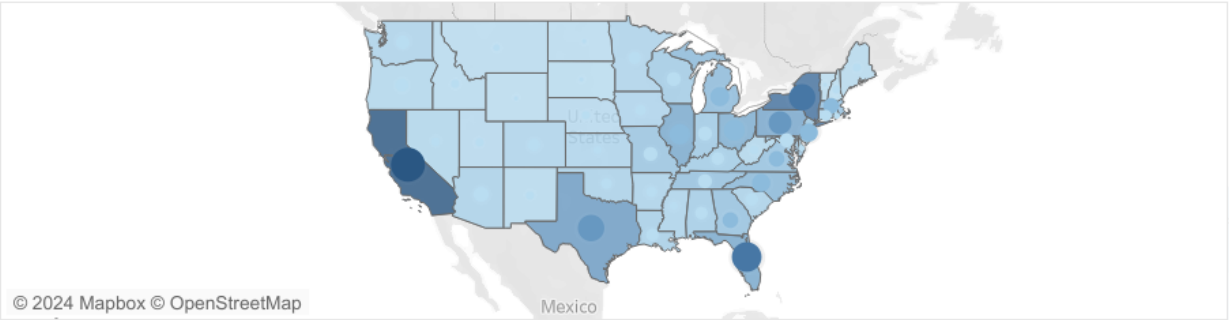
Population >65 years

- 103,201
- 2,000,000
- 4,000,000



Population and Influenza Fatalities in States

Age Group: 65 Years and Older



Observing the data, heightened vulnerability among those aged 65 and older is evident in states like California, New York, Texas, Pennsylvania, and Florida.

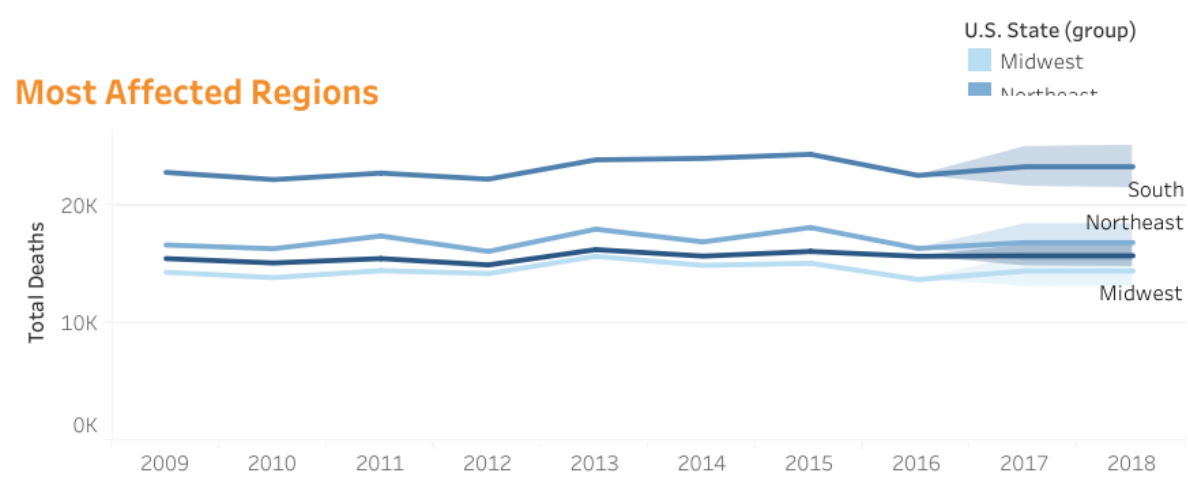
California, Texas, Florida, and New York have the largest 65+ populations and the most significant number of influenza deaths within this age group. North Dakota, Vermont, Delaware..

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## Findings and Suggestions

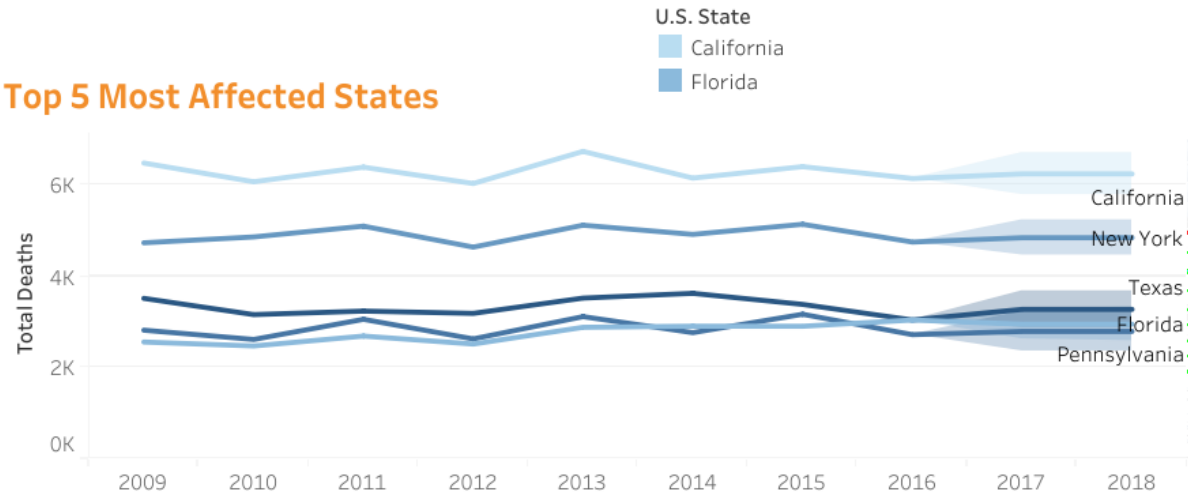
### Most Affected Regions



### Insights

- 1. Individuals aged 65 and above exhibit heightened susceptibility to mortality attributed to Influenza.
- 2. States characterized by larger populations demonstrate elevated mortality rates within the aforementioned vulnerable age cohorts.
- ..

### Top 5 Most Affected States



### Recommendations:

Deploy additional medical personnel strategically to coastal regions in the United States, specifically focusing on California, Florida, Texas, New York, and Pennsylvania. This deployment should be synchronized with the peak periods of influenza prevalence in these top five states throughout the year. Such a targeted approach e..