

PREPARING FOR INFLUENZA SEASON

Introduction and
Project Overview

Who is in danger?

What states?

When is Influenza
Season?

Summary

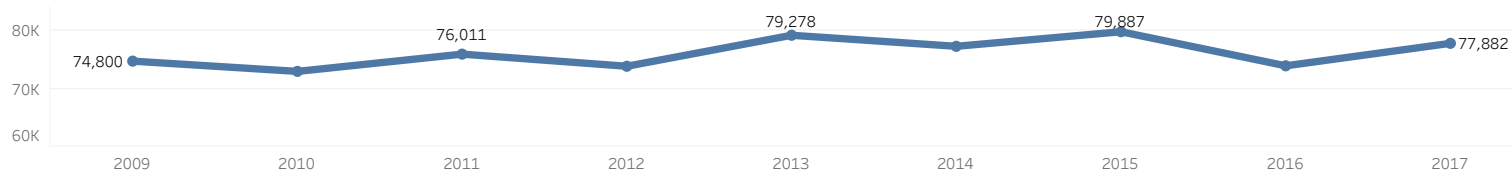
Project Overview

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 serious complications and end up in the hospital. Hospitals and clinics need additional staff to adequately treat these extra patients. The medical staffing agency provides this temporary staff.

Objective: Determine when to send staff, and how many, to each state.

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Total number of Influenza Deaths



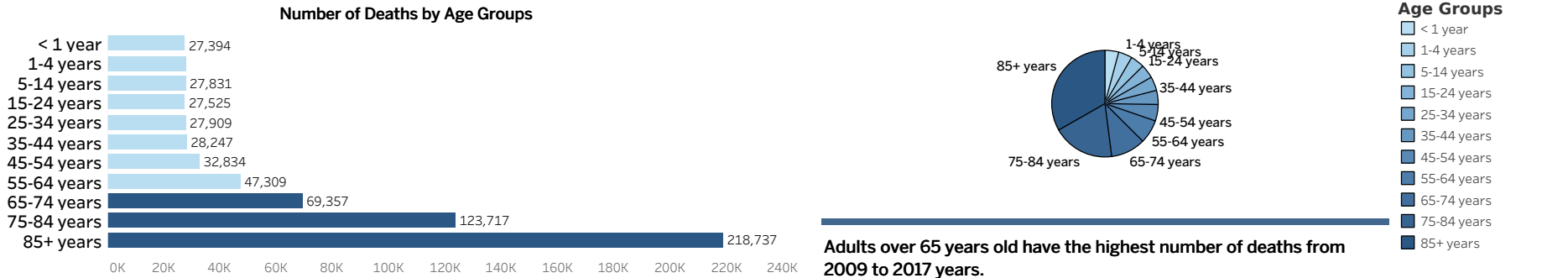
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What groups of the population are the most at risk?

Influenza - a contagious viral infection, often causing fever and aches.

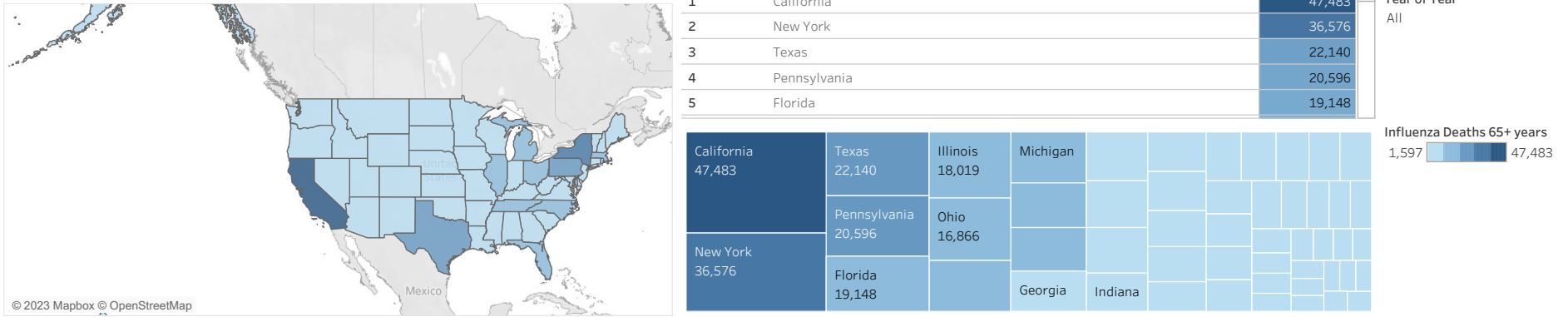
Vulnerable populations: patients likely to develop flu complications requiring additional care, as identified by the Centers for Disease Control and Prevention (CDC). These include adults **over 65 years**, children **under 5 years**, and pregnant women, as well as individuals with HIV/AIDs, cancer, heart disease, stroke, diabetes, asthma, and children with neurological disorders.



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Where is the largest number of vulnerable populations?

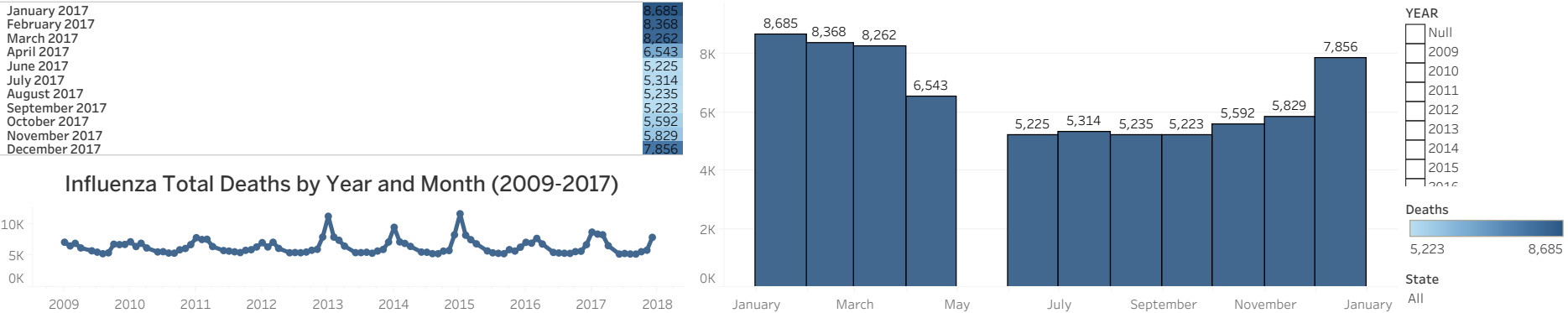


California and New York are the states with the highest number of people 65 years old and over.

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Introduction and Project Overview	Who is in danger?	What states?	When is Influenza Season?	Summary
-----------------------------------	-------------------	--------------	---------------------------	---------

When is Influenza Season?



The highest number of flu cases occurs annually from December to April.

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Introduction and Project Overview	Who is in danger?	What states?	When is Influenza Season?	Summary
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Recommendations

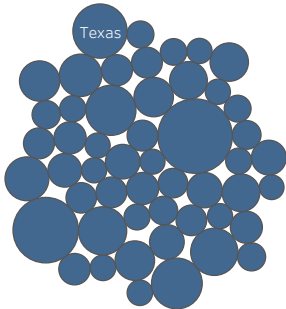
To support a staffing plan I would like to conclude and determine the timing and spatial distribution of medical personnel throughout the United States.

Influenza occurs seasonally and it starts and ends around the same time every year. This time is **from December to April**.

Some states deviate in terms of indicators from the majority of such cases. I propose considering them individually using interactive visualization.

States with large vulnerable populations.

High-need states: California, New York, Texas, Pennsylvania, Florida, Illi..



Deaths
6,332 to 57,642