

# Climates Change.

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An abstract background featuring a dark, black upper half and a lighter, grey lower half. The boundary between them is a horizontal white line. In the upper half, there are several bright, white, diagonal light rays or streaks that originate from the right side and fan out towards the left, creating a sense of motion and depth. The text is overlaid on this background.

# Climates Change.

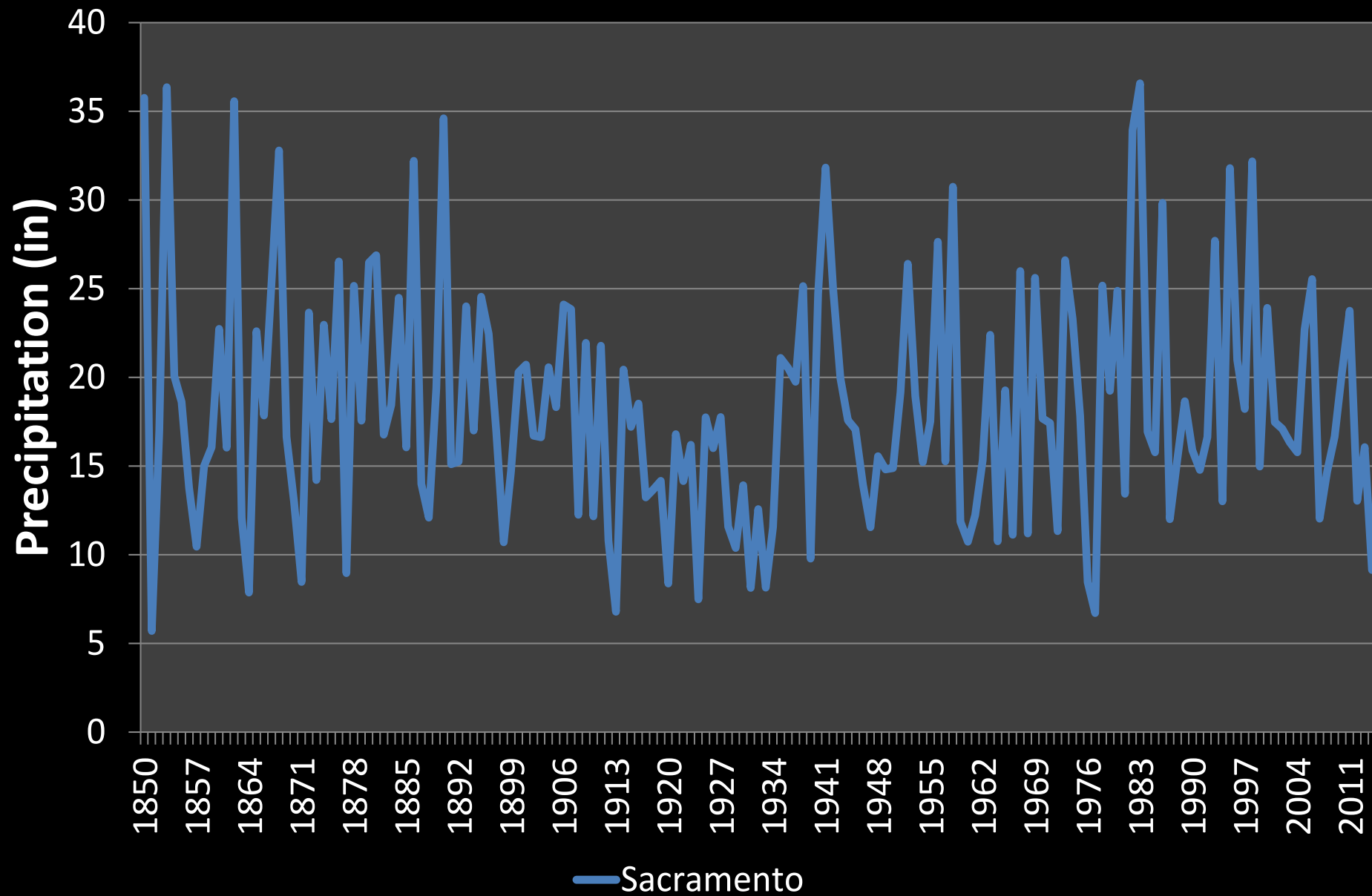
That's what climates do!



**Limited data**

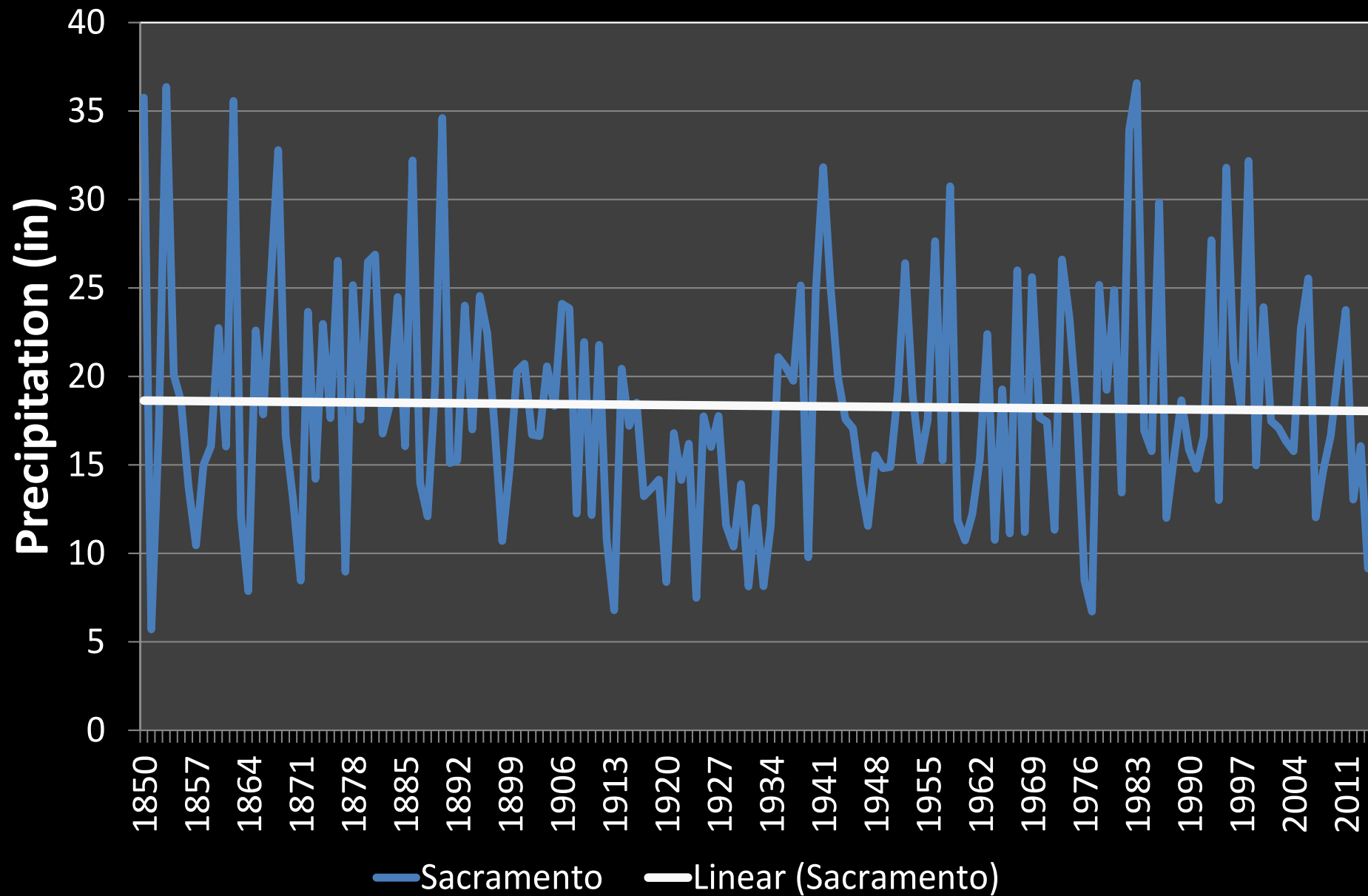
# Annual Precipitation - Sacramento, CA

## 1850-2014



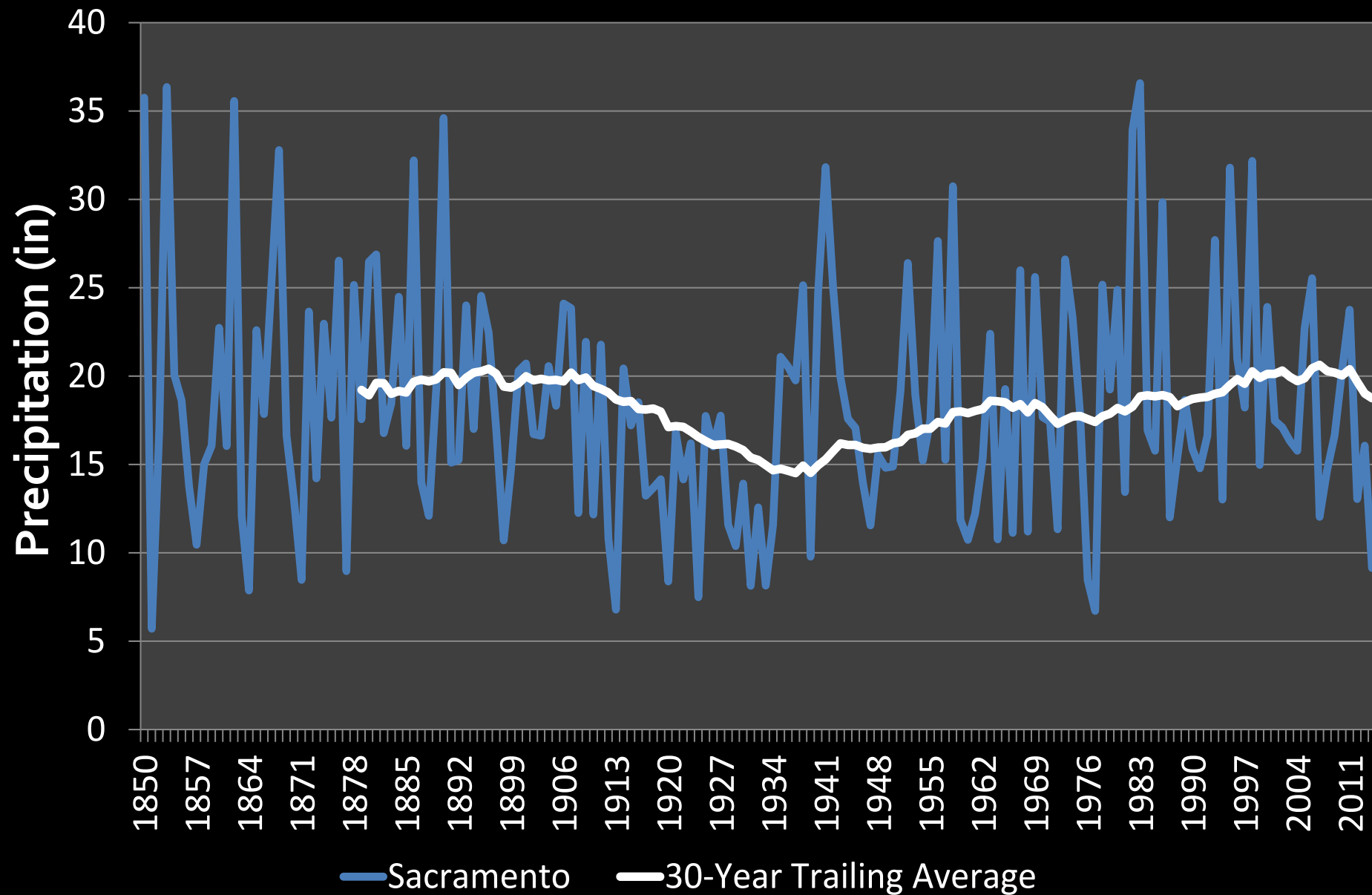
# Annual Precipitation - Sacramento, CA

## 1850-2014



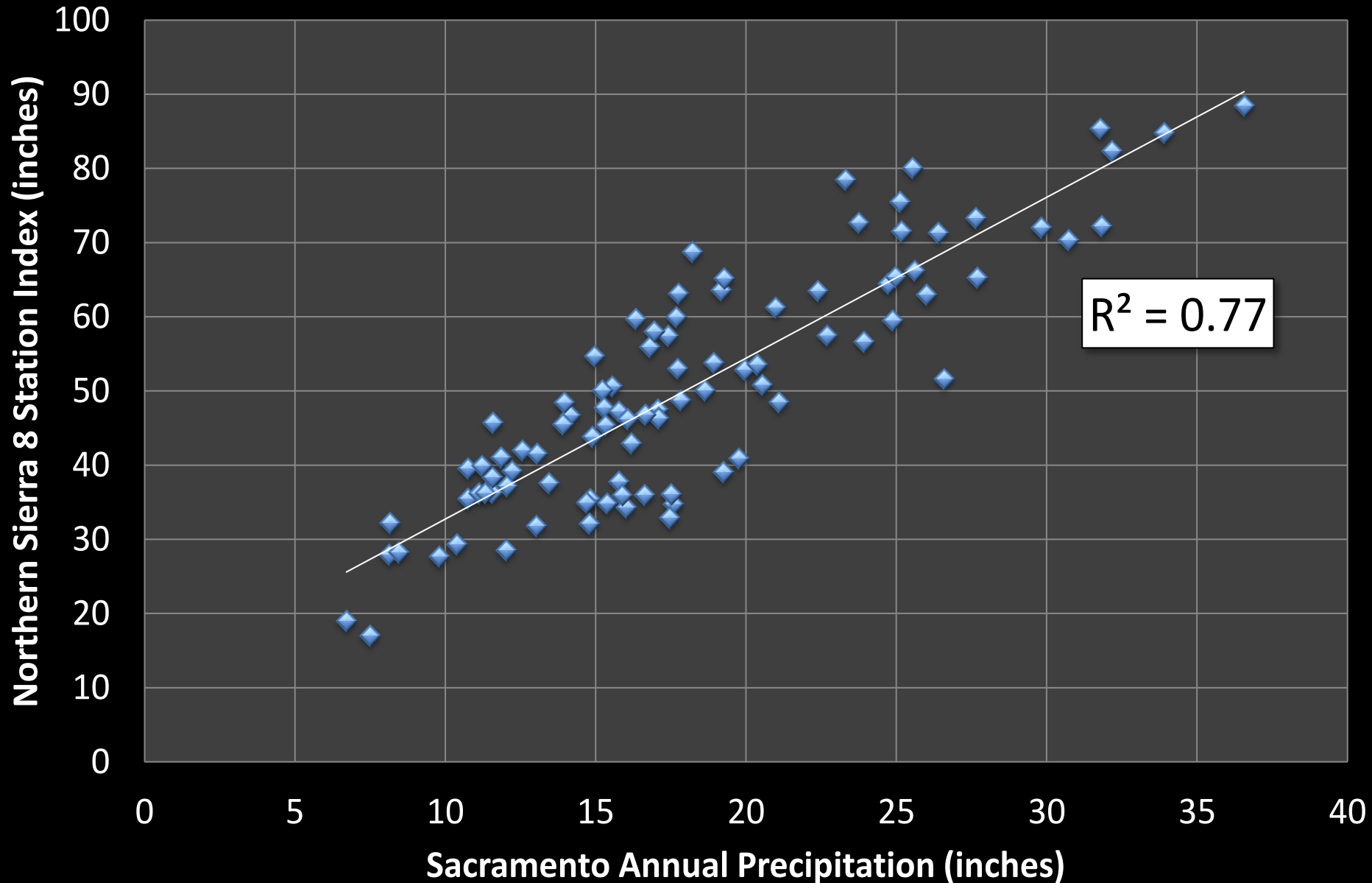
# Annual Precipitation - Sacramento, CA

## 1850-2014



**But,  
it's only Sacramento.**

# Northern Sierra 8 Sta. Index vs Sacramento Annual Precip. 1921-2013



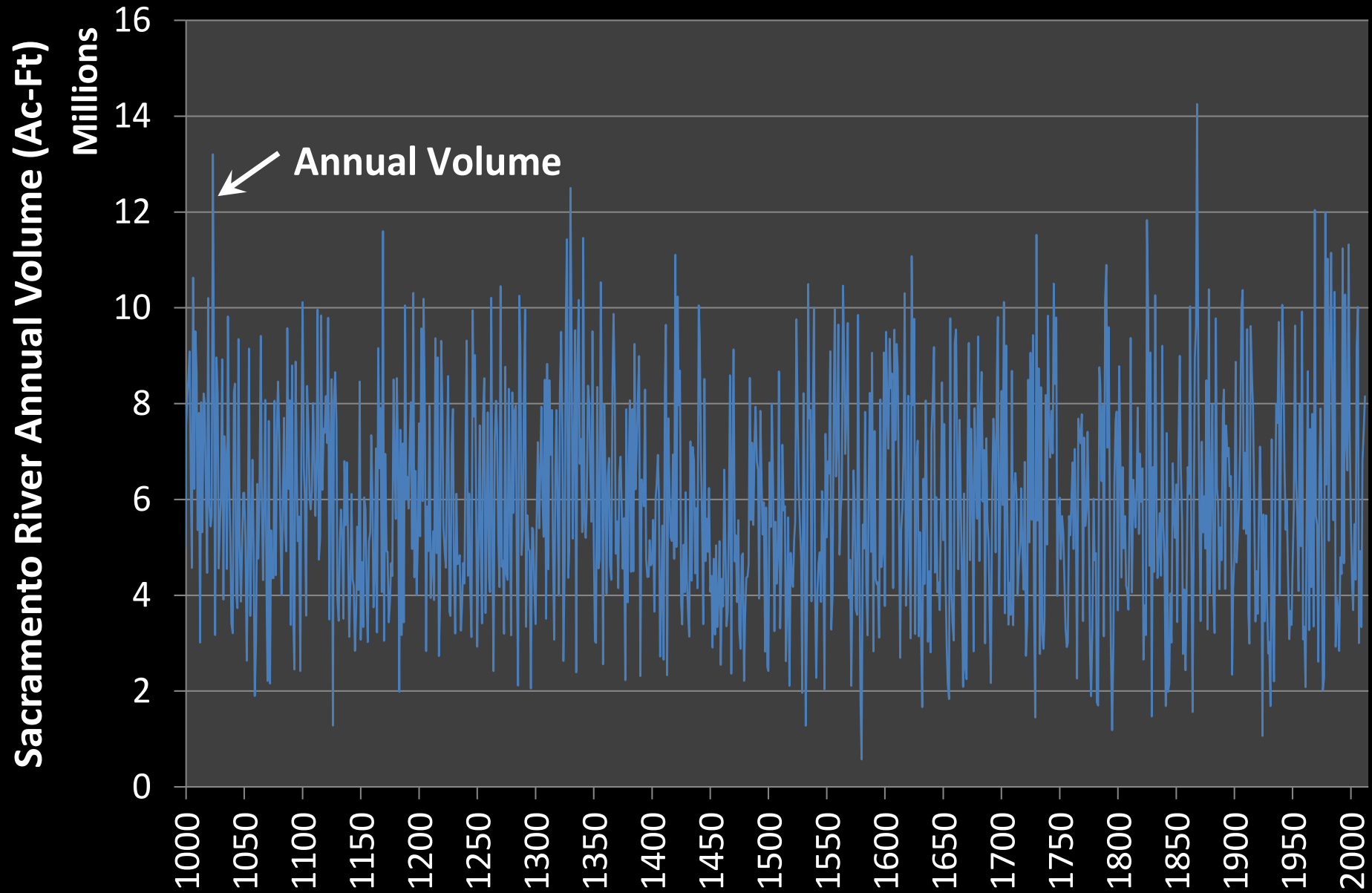




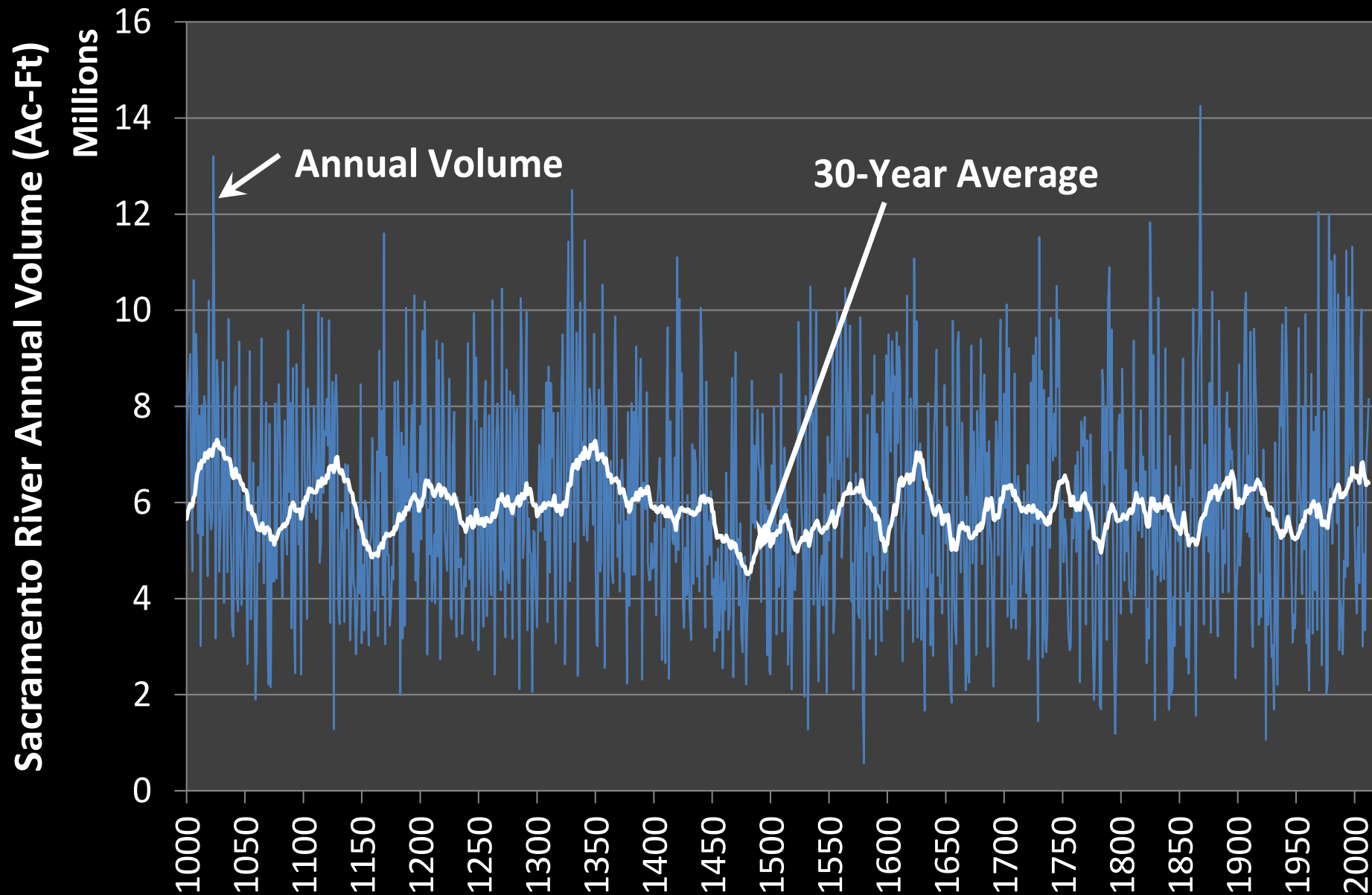
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**Trees tell a climate story.**

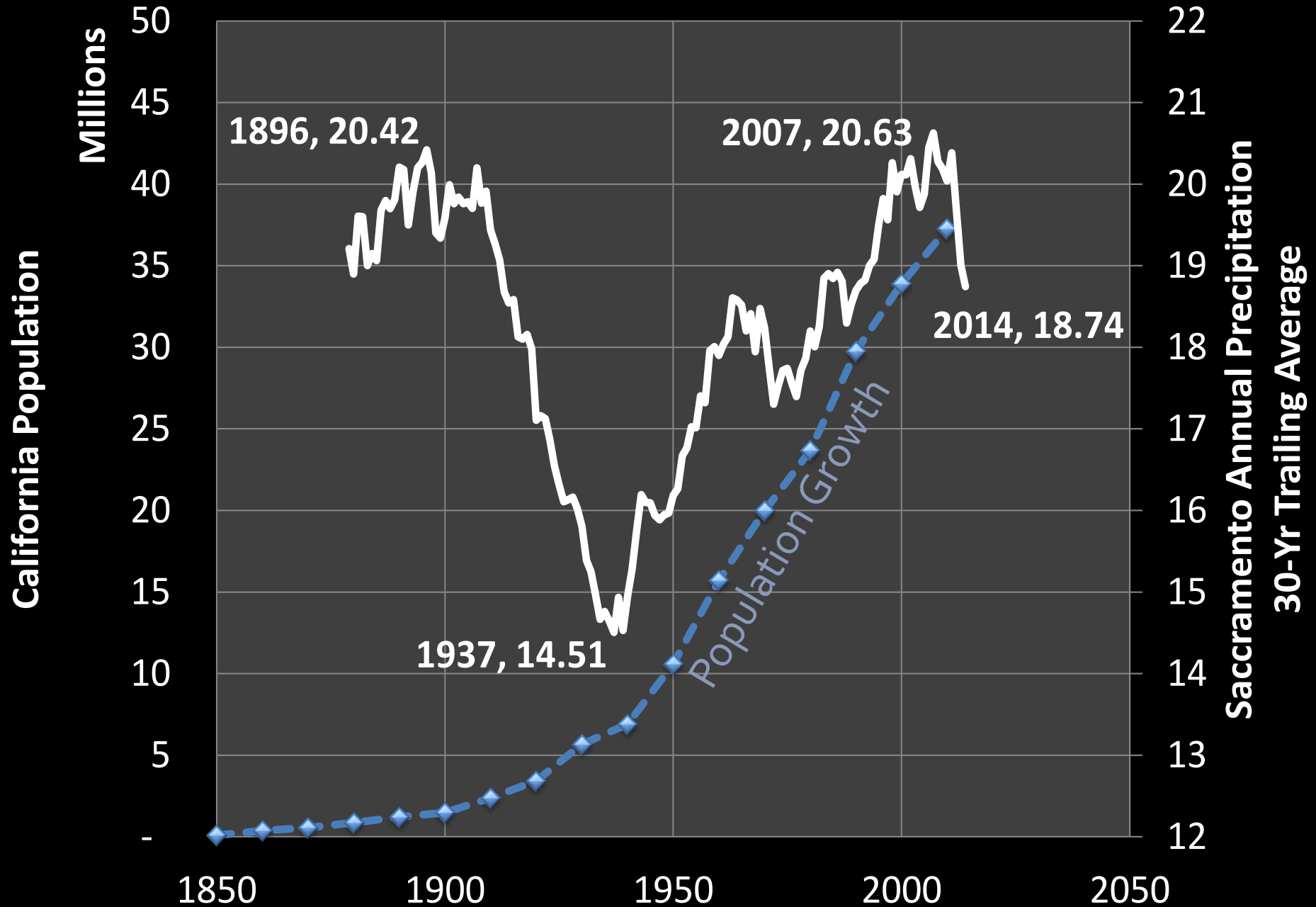
# Sacramento River Reconstructed Annual Flow Volume



# Sacramento River Reconstructed Annual Flow Volume



# Precipitation and Population Trends



# Take-Away Ideas

- Extreme Variability
- Rapid Transitions
- Infrastructure Planning
- In Another Downward Trend?



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**Questions?**

# Long-Term Precipitation vs. Sacramento River Volume

