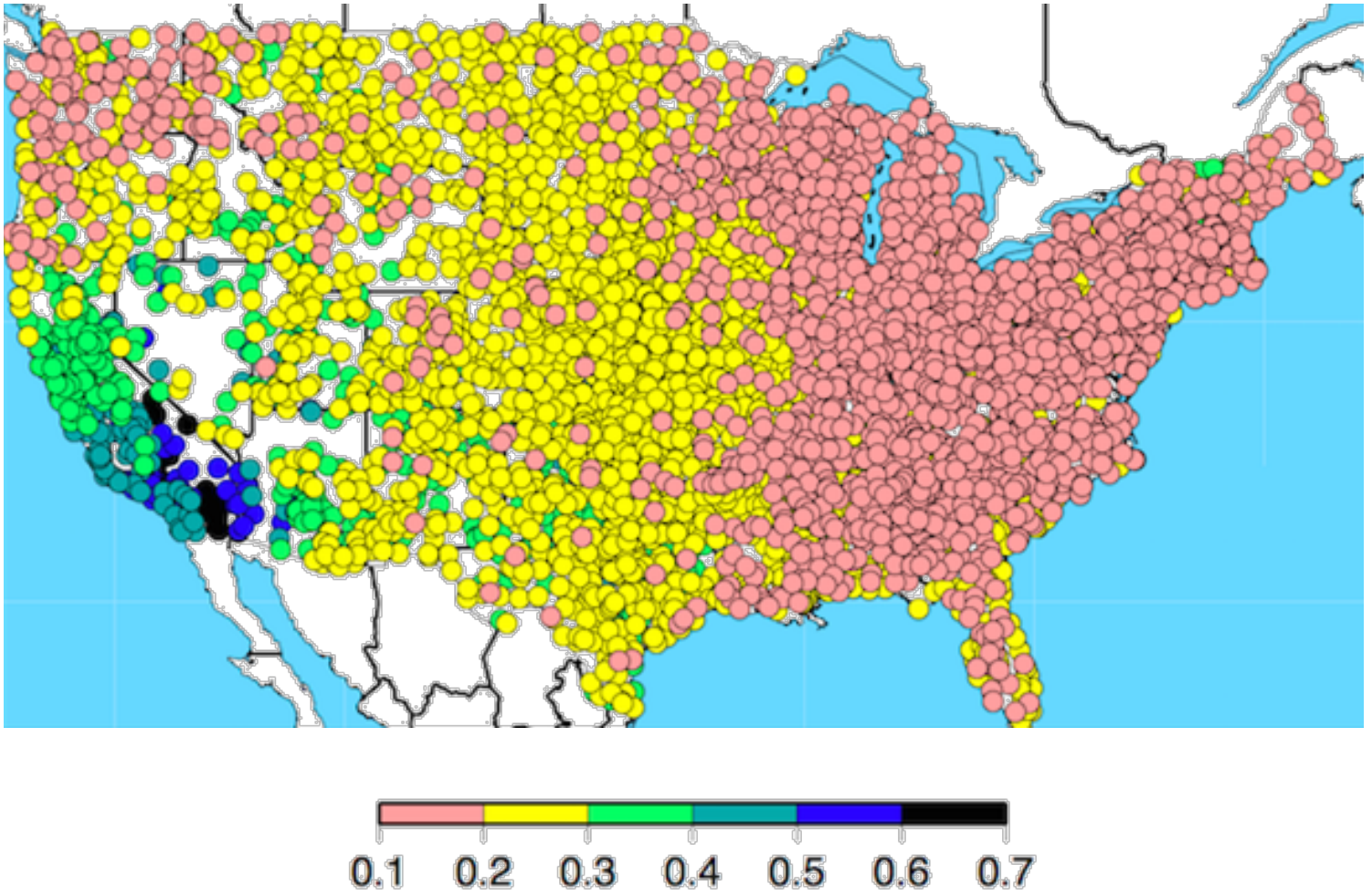
California Water Boards Response to Climate Change

- California's climate and unique hydrology
- Impacts of climate change
- Mitigation of greenhouse gas emissions
- Adaptation to impacts

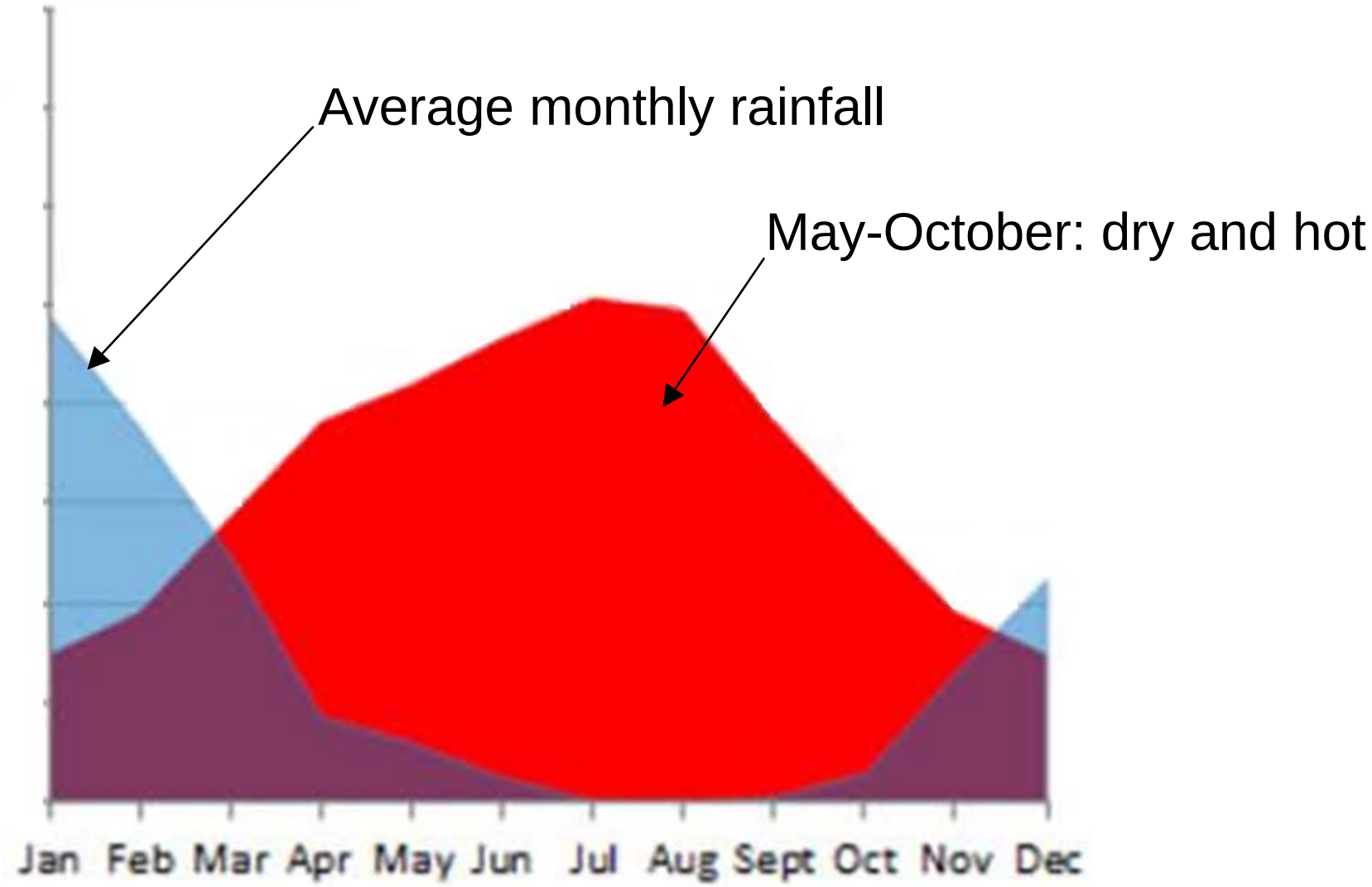
CALIFORNIA
Water Boards
STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

Precipitation is Variable

(Coefficient of Variation, Total Precipitation 1951-2008)



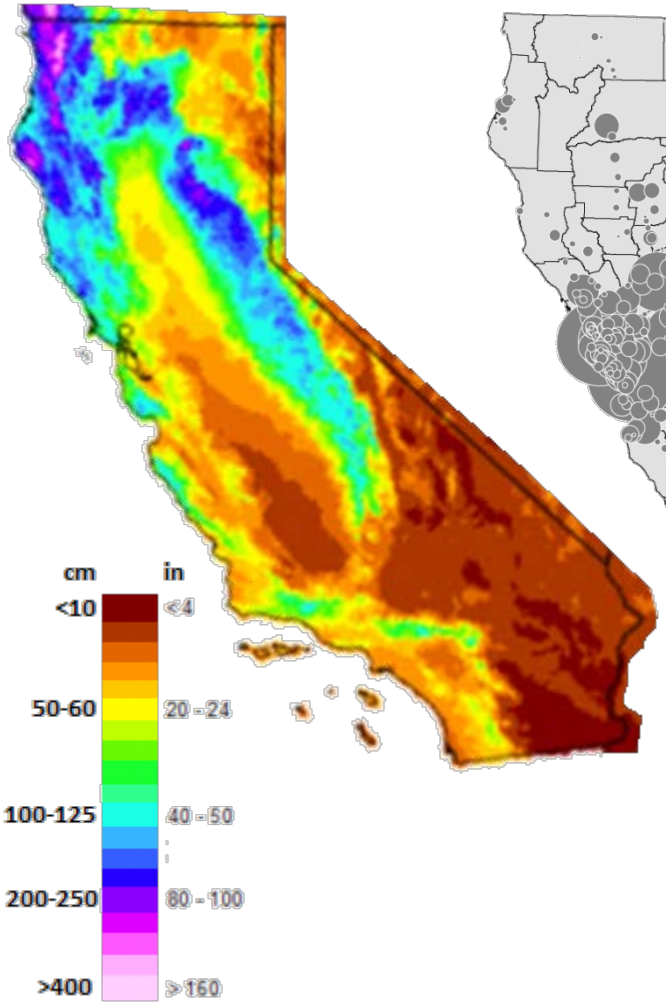
Dry/Hot and Wet Seasons



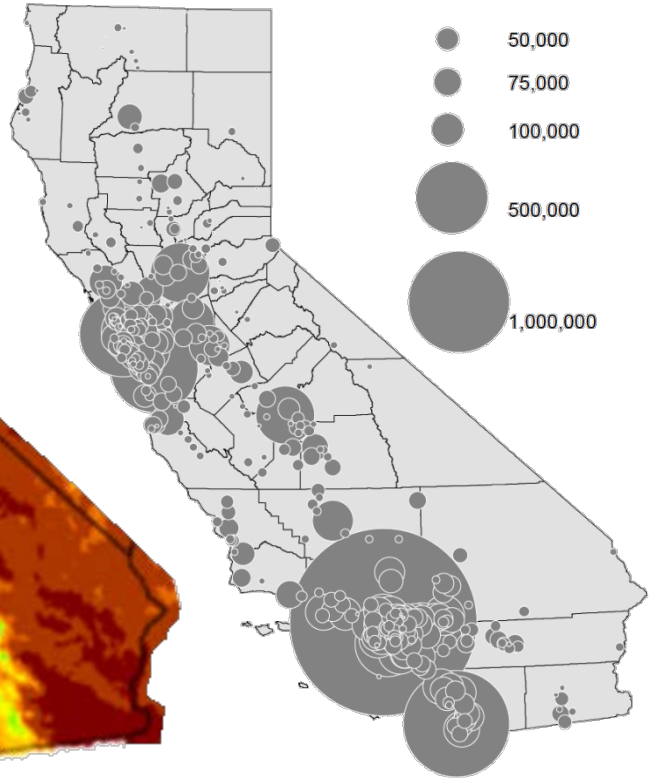
Mismatch of Supply and Demand

(in space and in time)

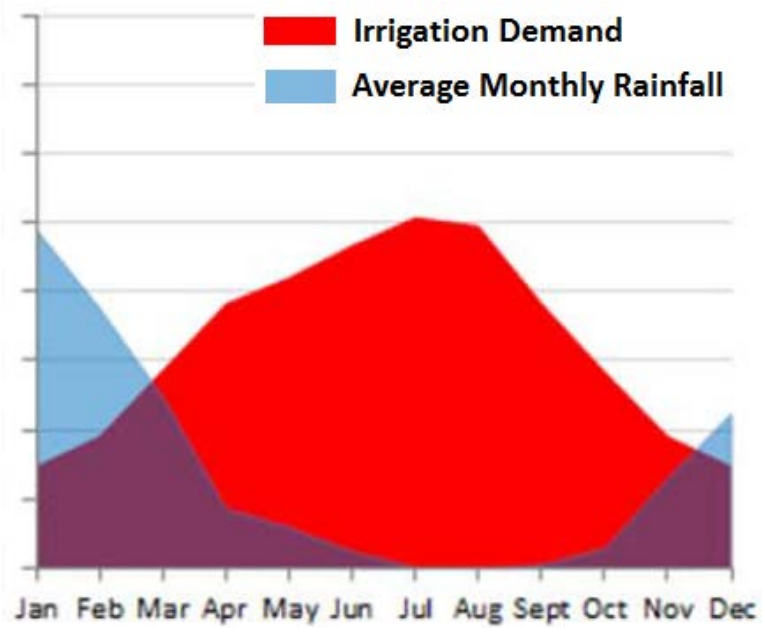
Precipitation



Population



Seasonal Demand



Water Delivery Infrastructure

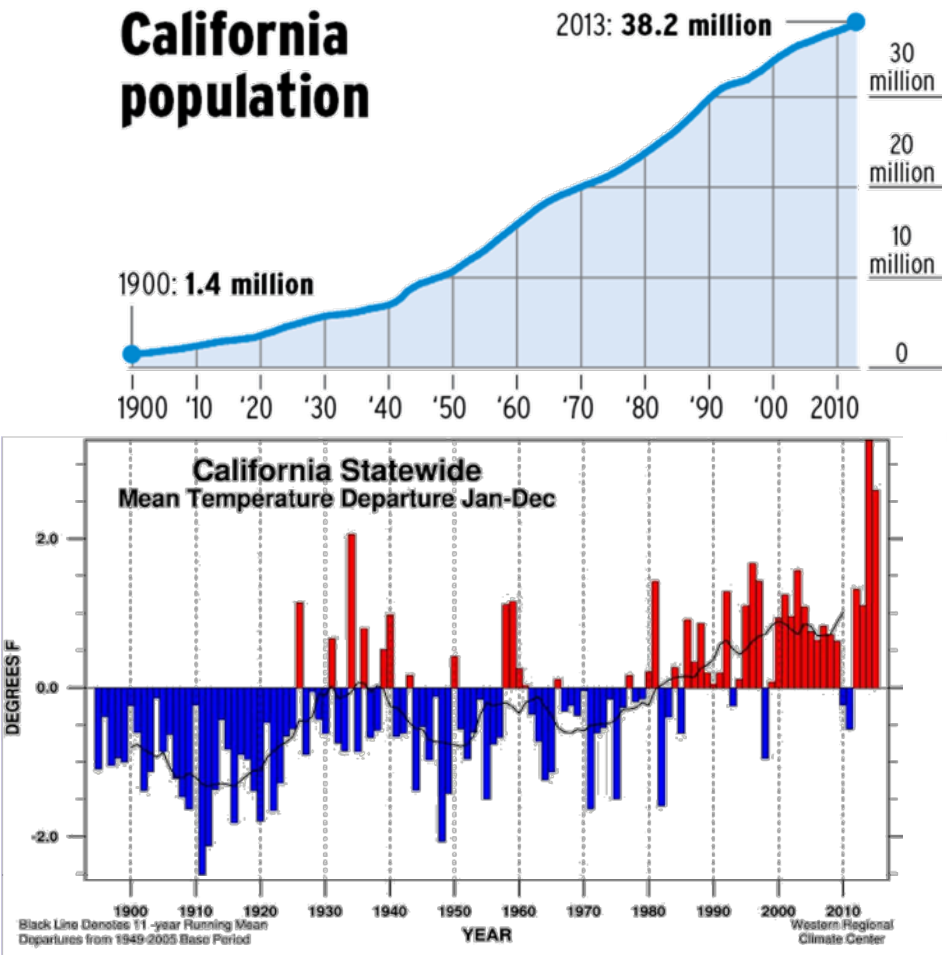
Reliance on Snowpack

Reservoirs for flood protection and water storage

Lake Levels 2011 and 2014

Photo Credit: San Diego Metro

Unprecedented Conditions



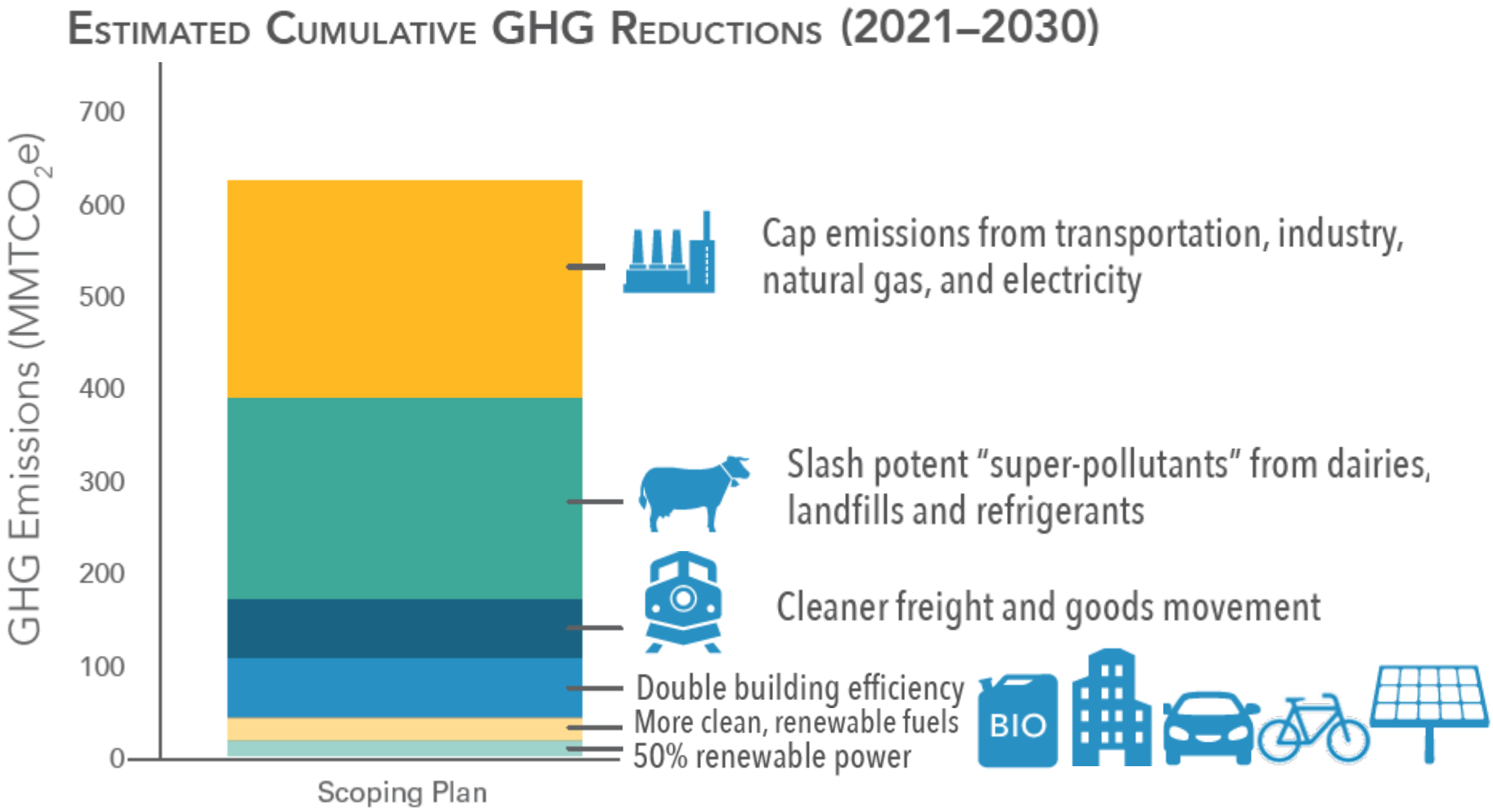
- Communities running out of drinking water
- Land fallowed, diminished crop yield
- Jobs lost
- Fish and wildlife impacts
- Increased wildfires (ecological, air, land, and water impacts)

IMPACTS OF CLIMATE CHANGE

CALIFORNIA
is already experiencing
the impacts of
CLIMATE CHANGE

IN 2015 THE DROUGHT COST THE AGRICULTURE INDUSTRY IN THE CENTRAL VALLEY AN ESTIMATED $2.7 BILLION & 20,000 JOBS

Mitigate Greenhouse Gas Emissions



Increase Resilience Of Water

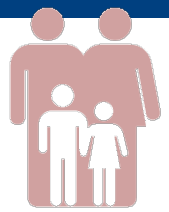
Conserve and use water efficiently

Diversify water supply

Manage groundwater for sustainability

Support healthy soils

Restore and protect forest health and ecosystems



Protect vulnerable populations