



# Water, Water Everywhere but....

Presentation to Orange County Water Summit  
Joel Kotkin, Distinguished Presidential Fellow, Chapman University  
Anaheim, California  
May 20, 2010

# The Key to the first Great City



“The Greeks boasted of their ‘useless’ art and Egypt’s legacy lay in idle pyramids , but what were these compared to the fourteen aqueducts that brought water to Rome?”

A Roman Historian

## Delhi in 16<sup>th</sup> and 17<sup>th</sup> Centuries



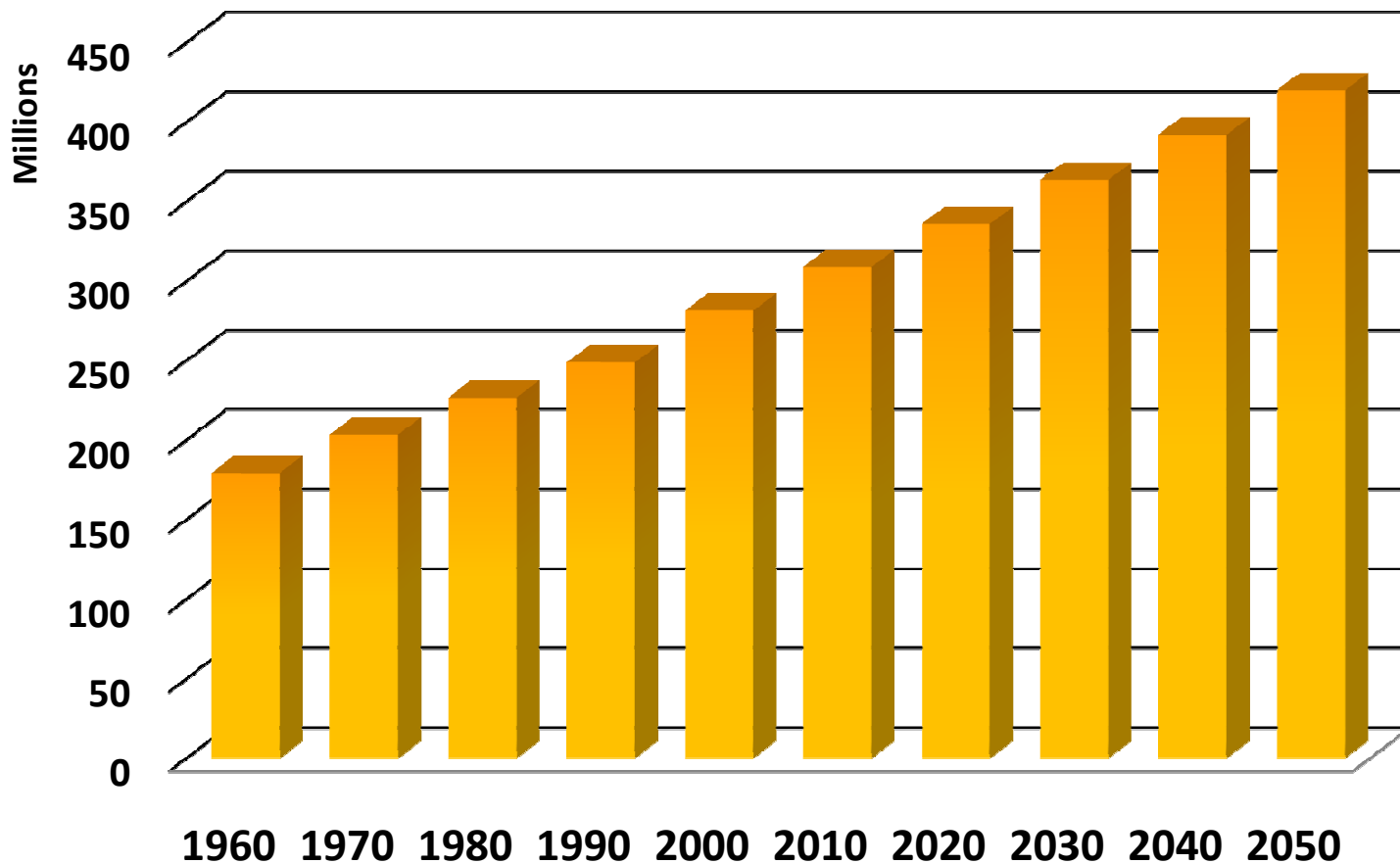
“... a Garden of Eden that is populated



## America's Talent: Laying Foundation of the Future

- National Road proposed by Jefferson (1806)
- Period of Canal Building (1800-1850)
- Construction of Railroads (1840-1900)
- Carnegie Libraries
- Interstate Highways (1930-1970)
- Airports, Telecommunications

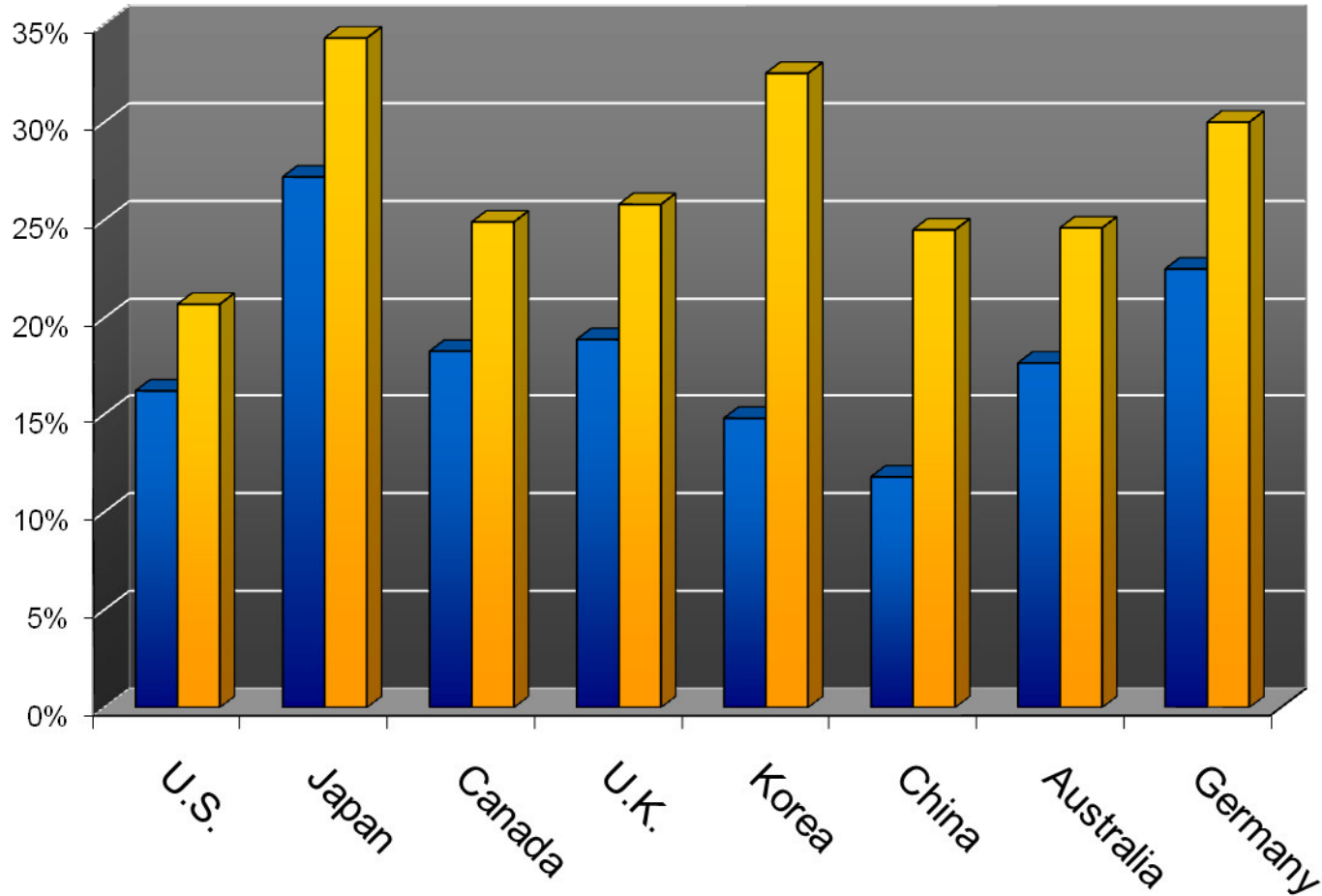
# More Crowding to Come: US Population Growth 1960-2050



Source: Bureau of the Census, CensusScope

# Getting Older Slower

Population Over 65

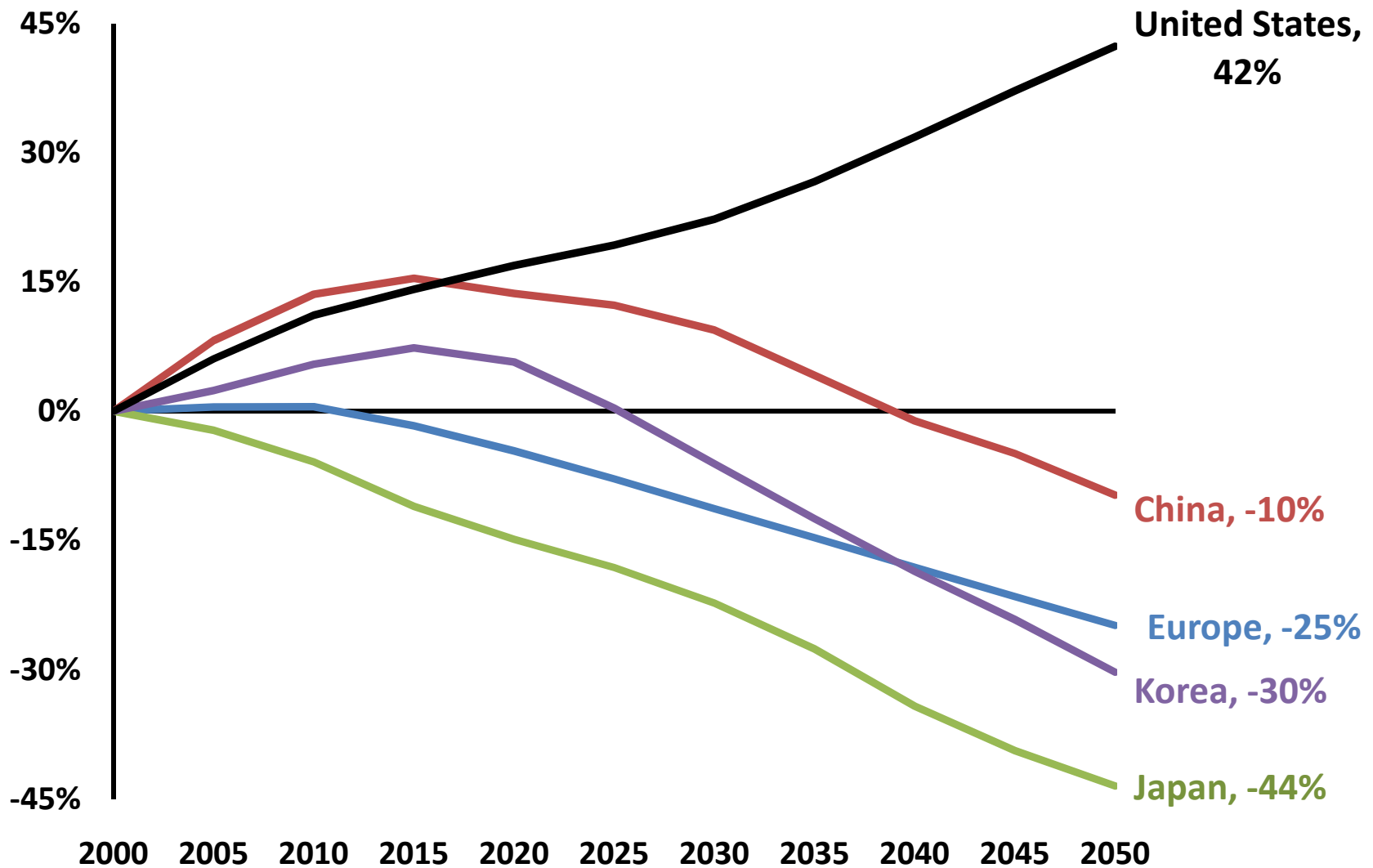


Source: CIA

■ 2020 ■ 2050

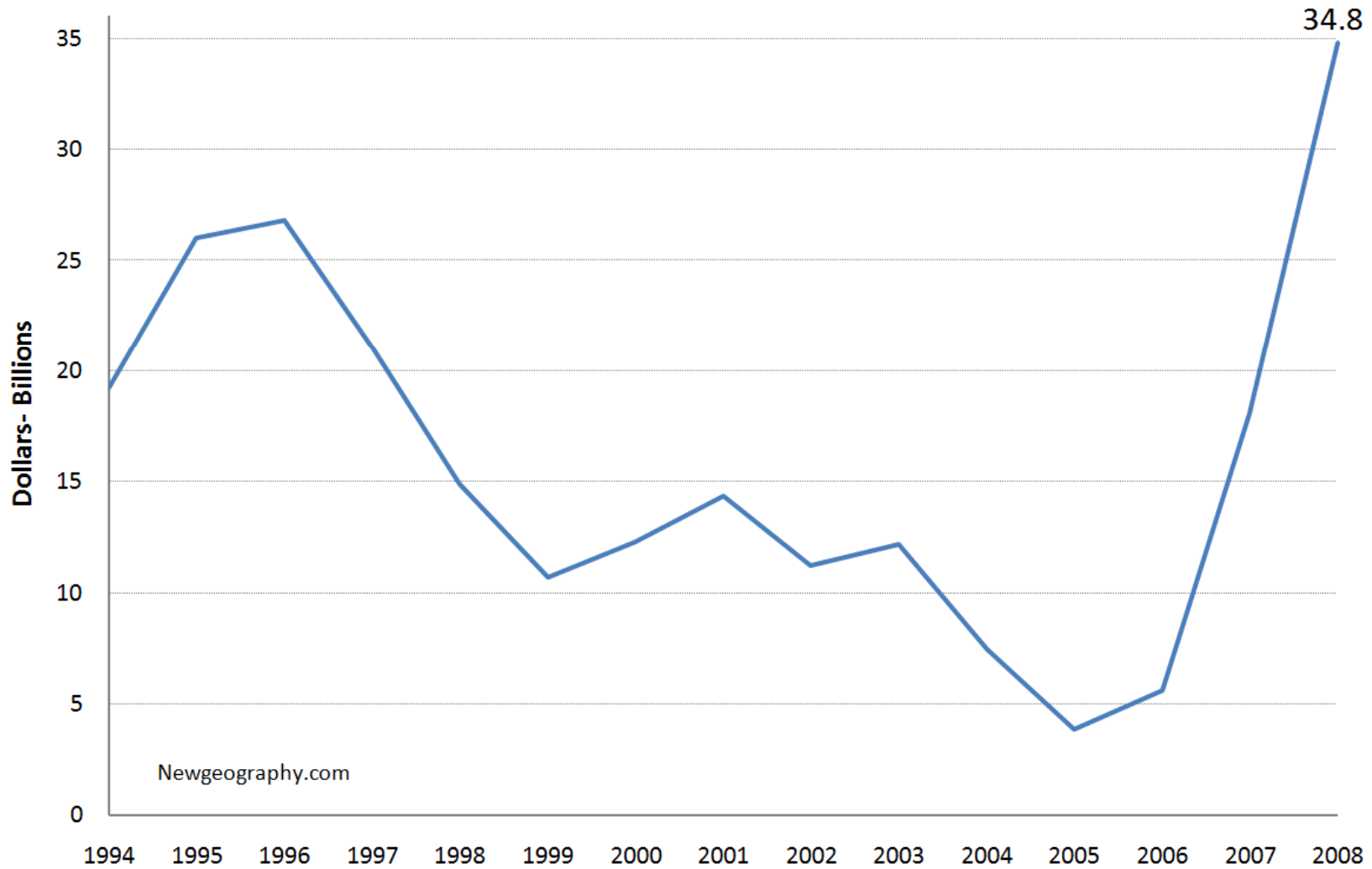
# Labor Force Growth

## Growth in Age 15-64



# Our Chief Export Opportunity

## US Agricultural Trade Balance

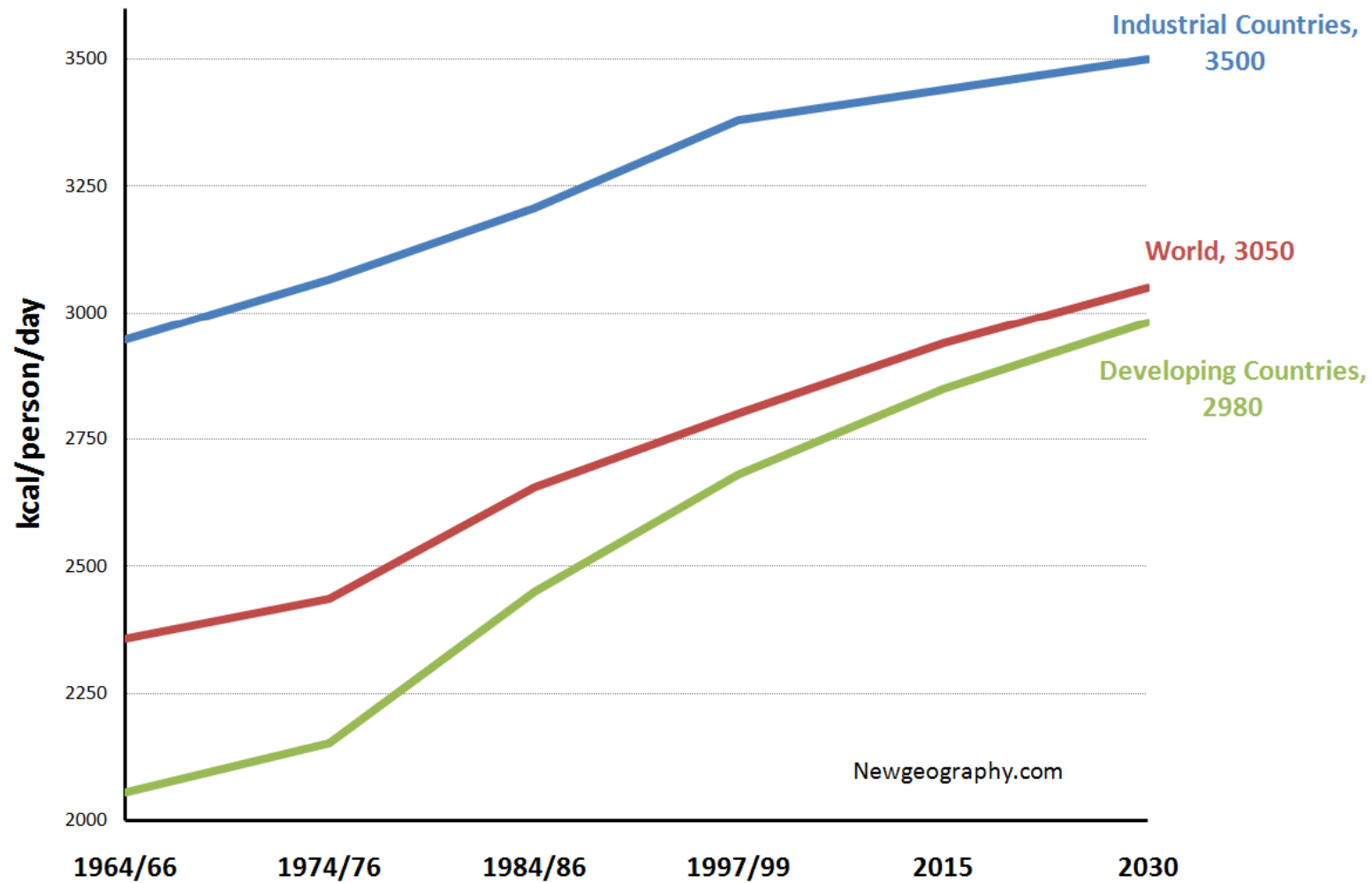


Newgeography.com

USDA ERS

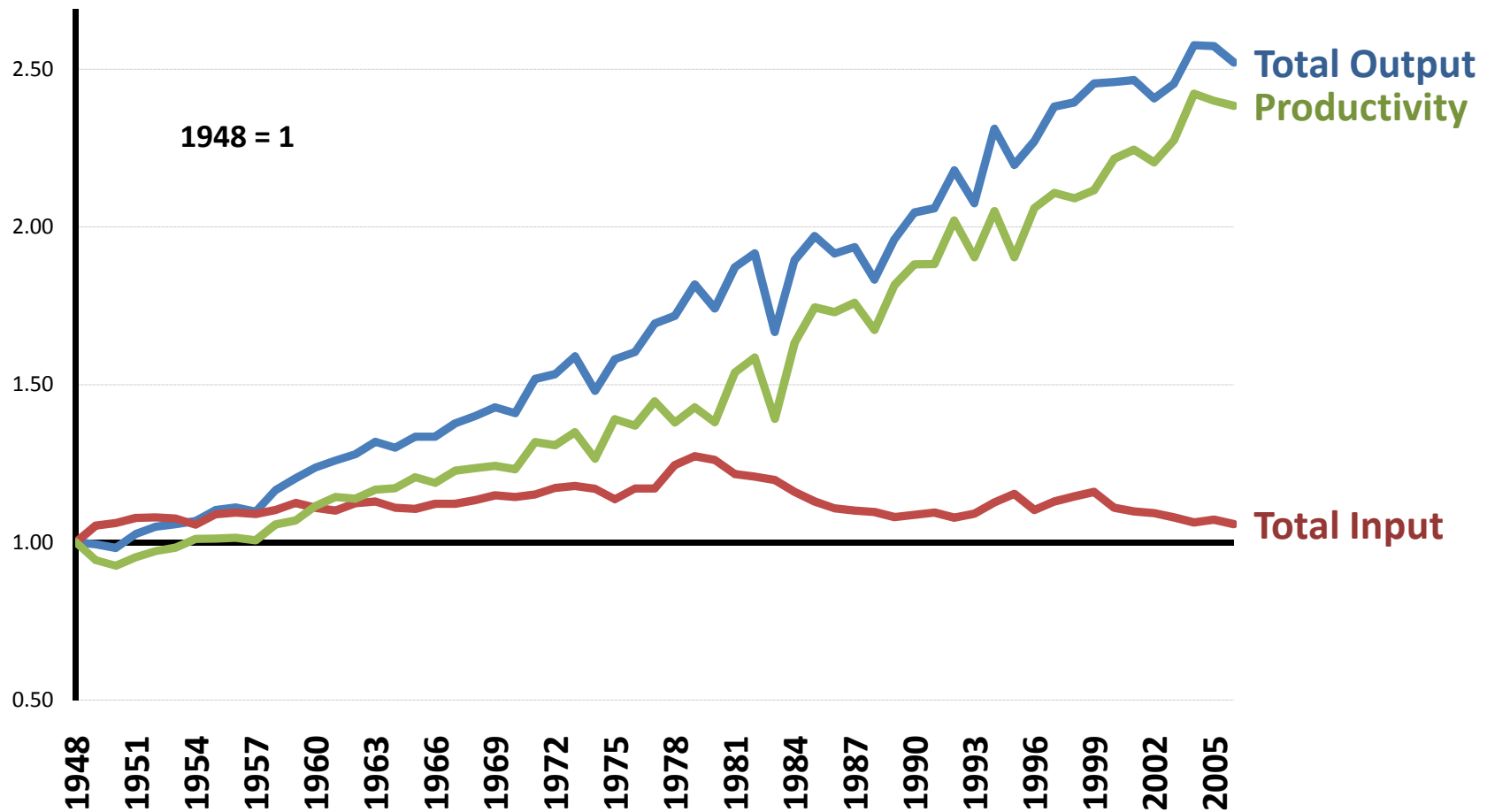
# America's Opportunity

Per Capita Food Consumption- Historical, with Projections to 2030



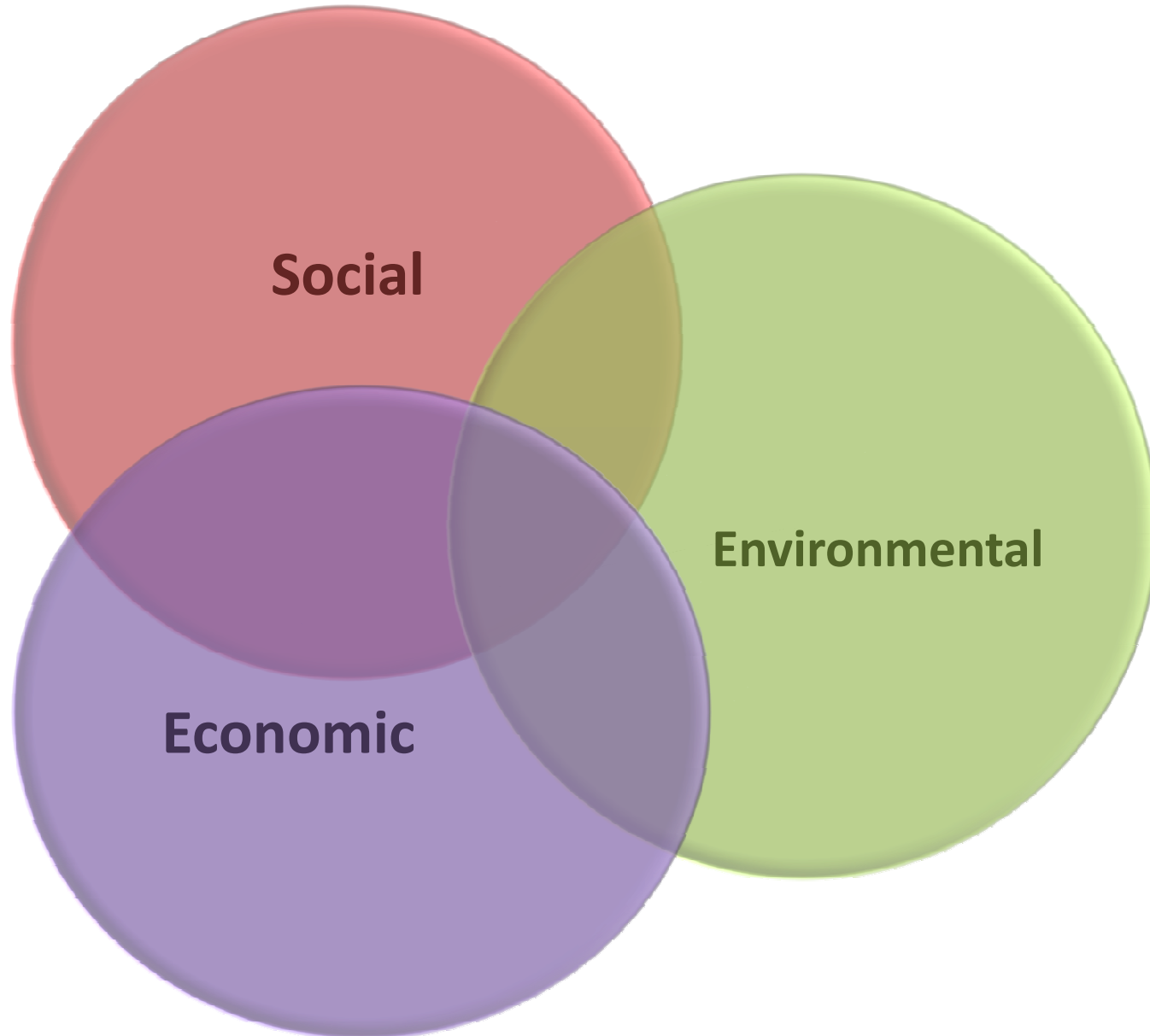
# More efficient, greater output

U.S. Agricultural output, input and total factor productivity, 1948-2006





# Redefining Sustainability



# Wishful Thinking?



**“a scenario where  
there is no more  
agriculture in  
California.”**

**Energy Secretary  
Steven Chu**

# If they don't build it, maybe we'll run out of water.

"You will never see another federal dam"

- U.S. Department of the Interior Deputy Assistant Secretary Deanna Archuleta, 2010



# California Groundwater Reserves

**Estimated Reserves**

**850,000,000**

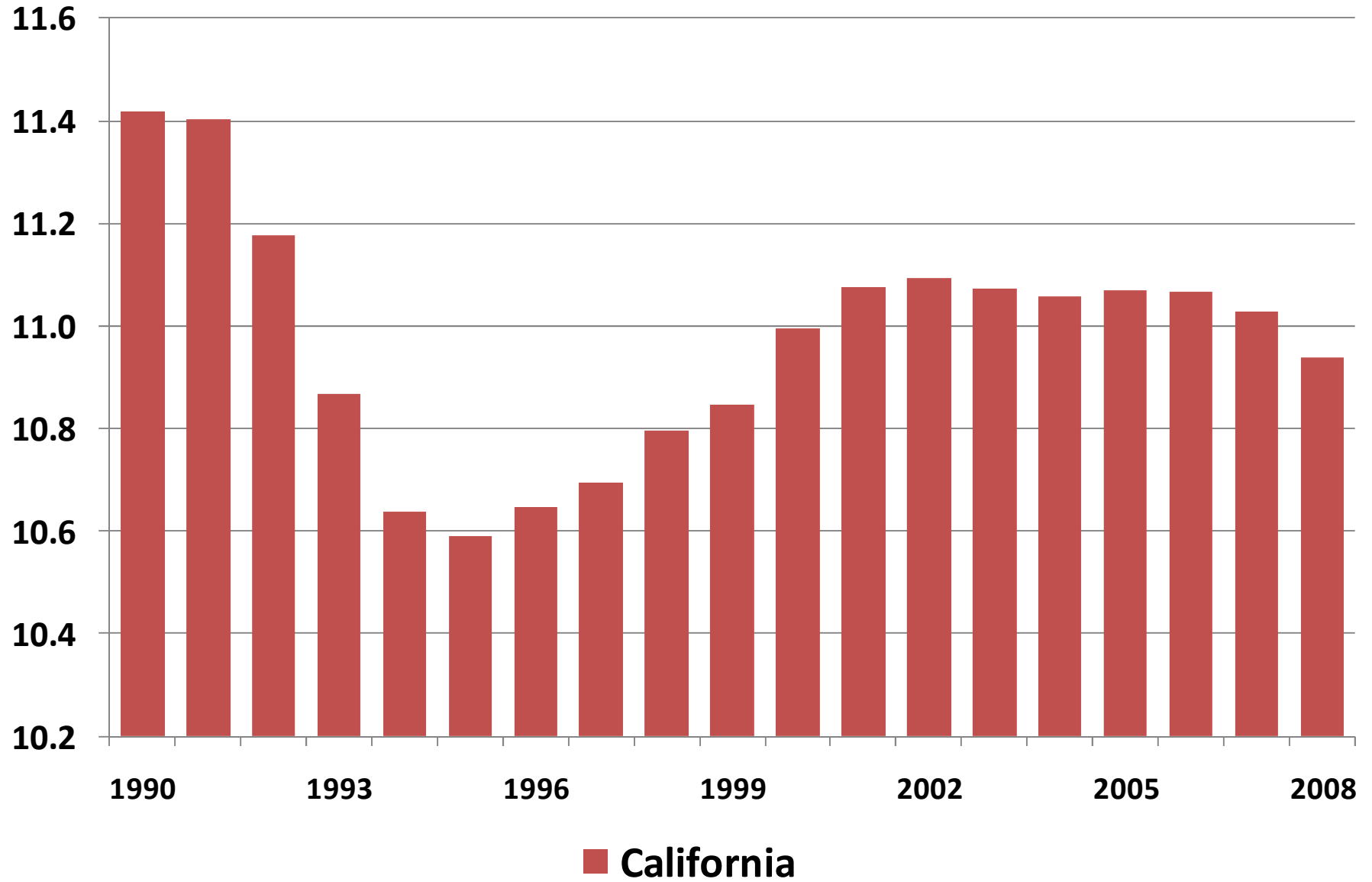
**Accessible Reserves**

**340,000,000**

**Net Annual Groundwater Extraction -1,300,000**

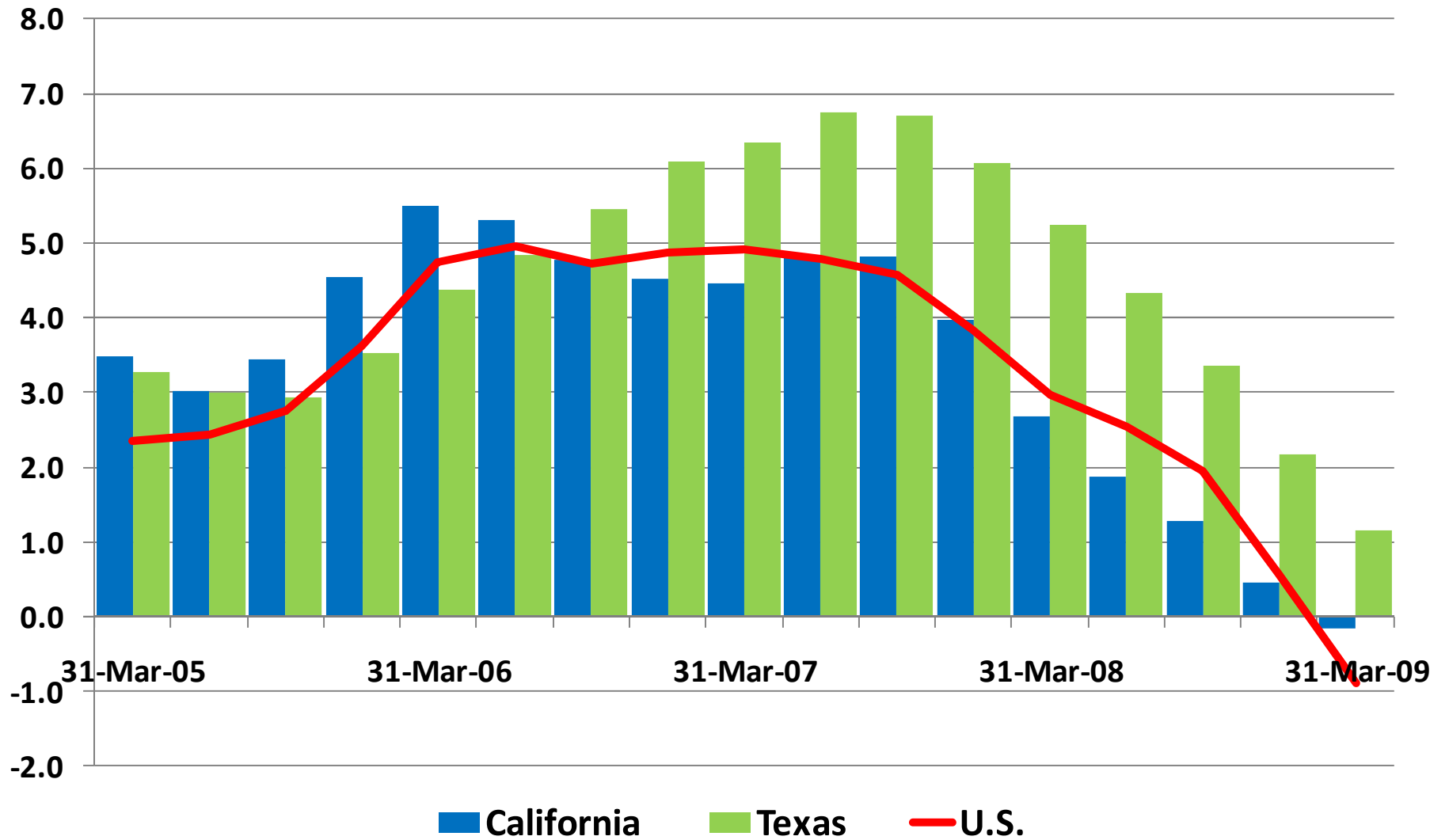
**California has 262 years of  
Groundwater reserve  
At current extraction  
Levels.**

# Share of United States Non-Farm Jobs

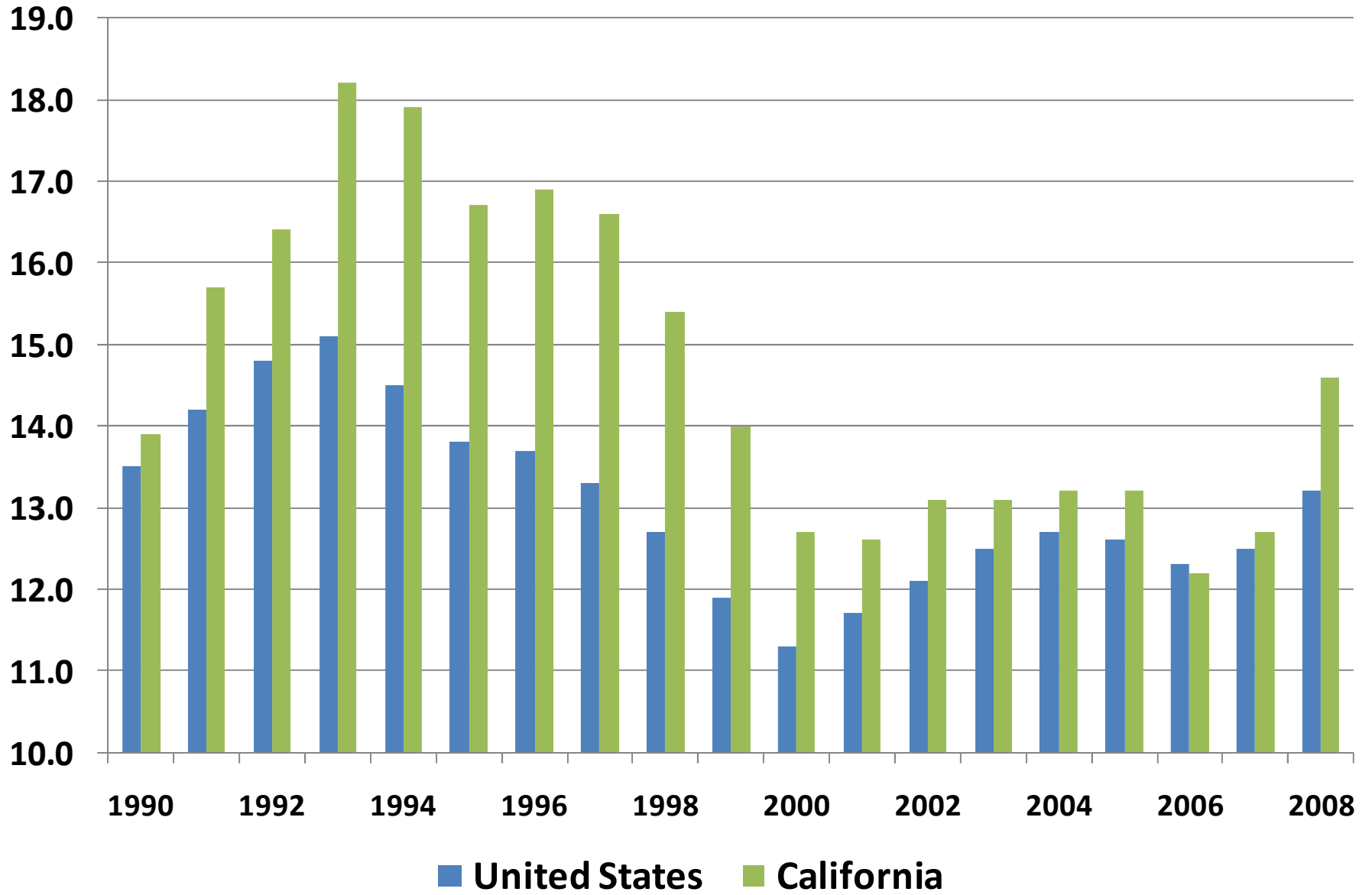


# Median Family Income

*Year-over-year growth rates*

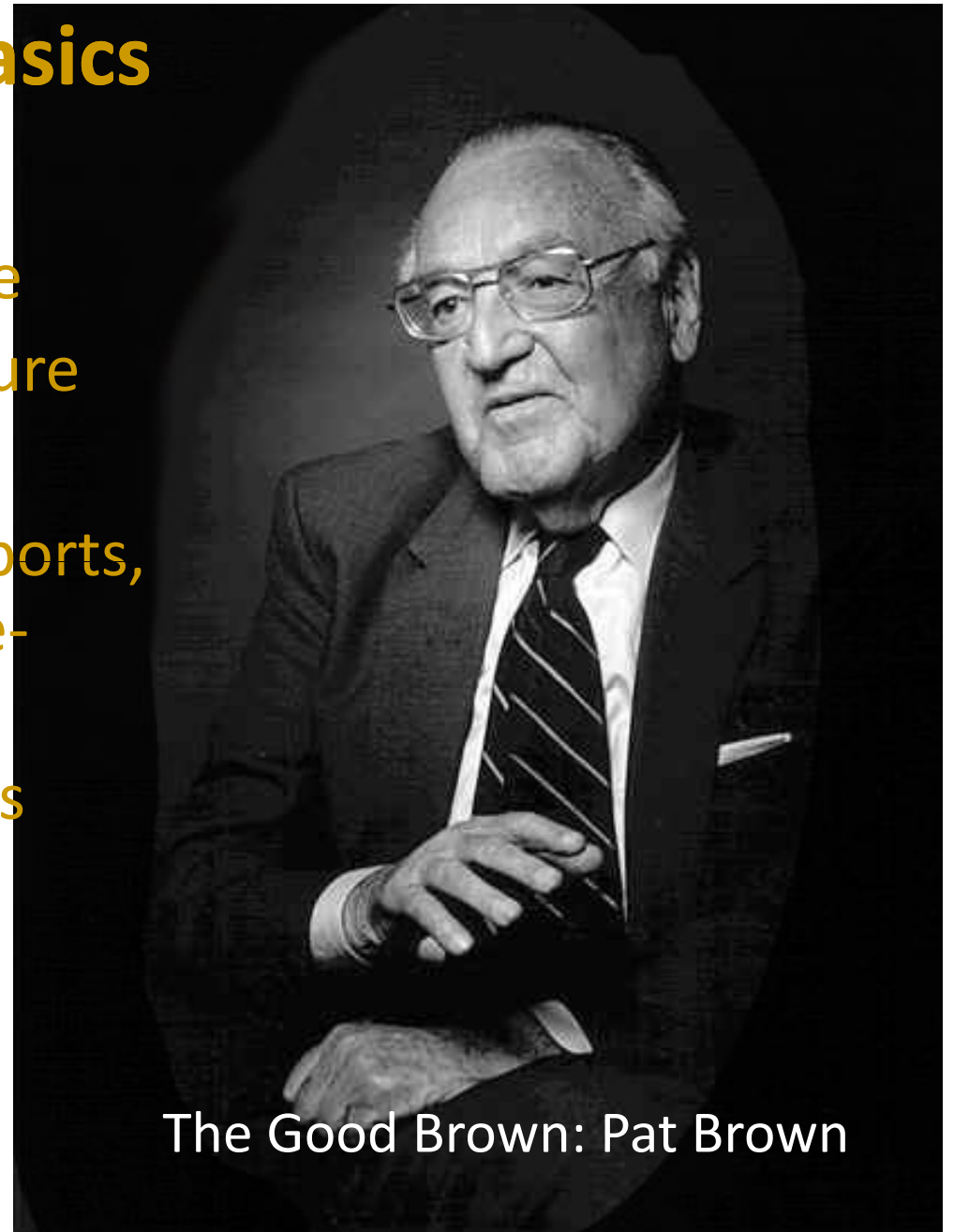


# Poverty Rates



# California Back to Basics

- In 1960 20 percent of state Budget went to infrastructure
- Today Less than 3 percent
- California schools, roads, ports, water and power once pre-eminent, now fading
- Solution: A return to basics oriented government



The Good Brown: Pat Brown

# The Political Challenge: Get Beyond the Partisan Agenda



“There is no  
Republican or  
Democratic way to  
clean streets.”



New York Mayor Fiorello LaGuardia