

# Utah's Long Term Population Projections

Prepared by  
The Governor's Office of  
Planning & Budget

February 2007

YOU'RE SURE THIS ISN'T THE LOCAL SECTION?

300 MILLION REACHED



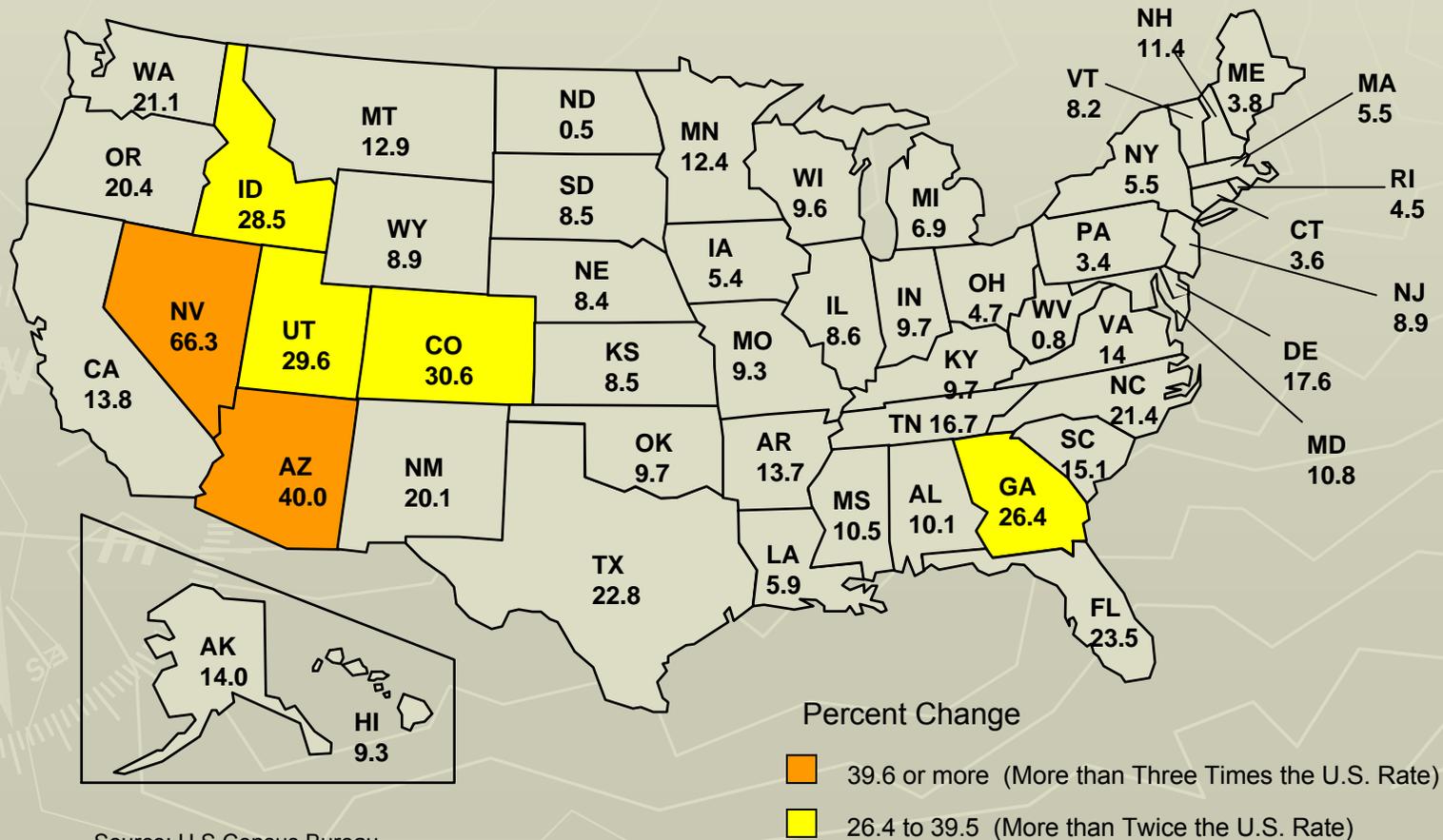
BRADY  
OF THE SYDNEY TRAVEL

# Background Data



# Utah is in the Center of the Fastest Growing Area of the Country

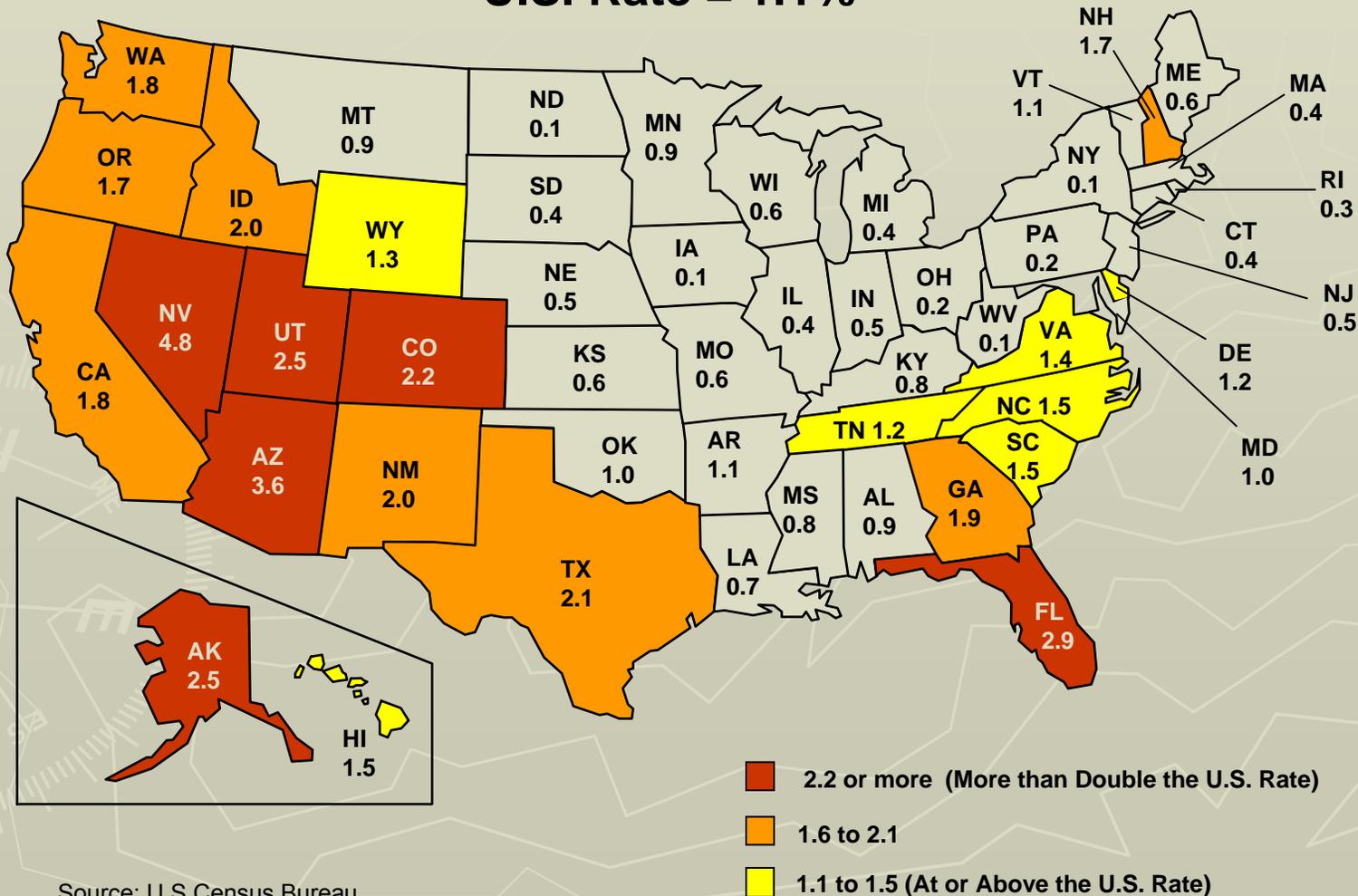
Percent Change in Population for States: 1990 to 2000  
U.S. Rate = 13.2%



Source: U.S. Census Bureau

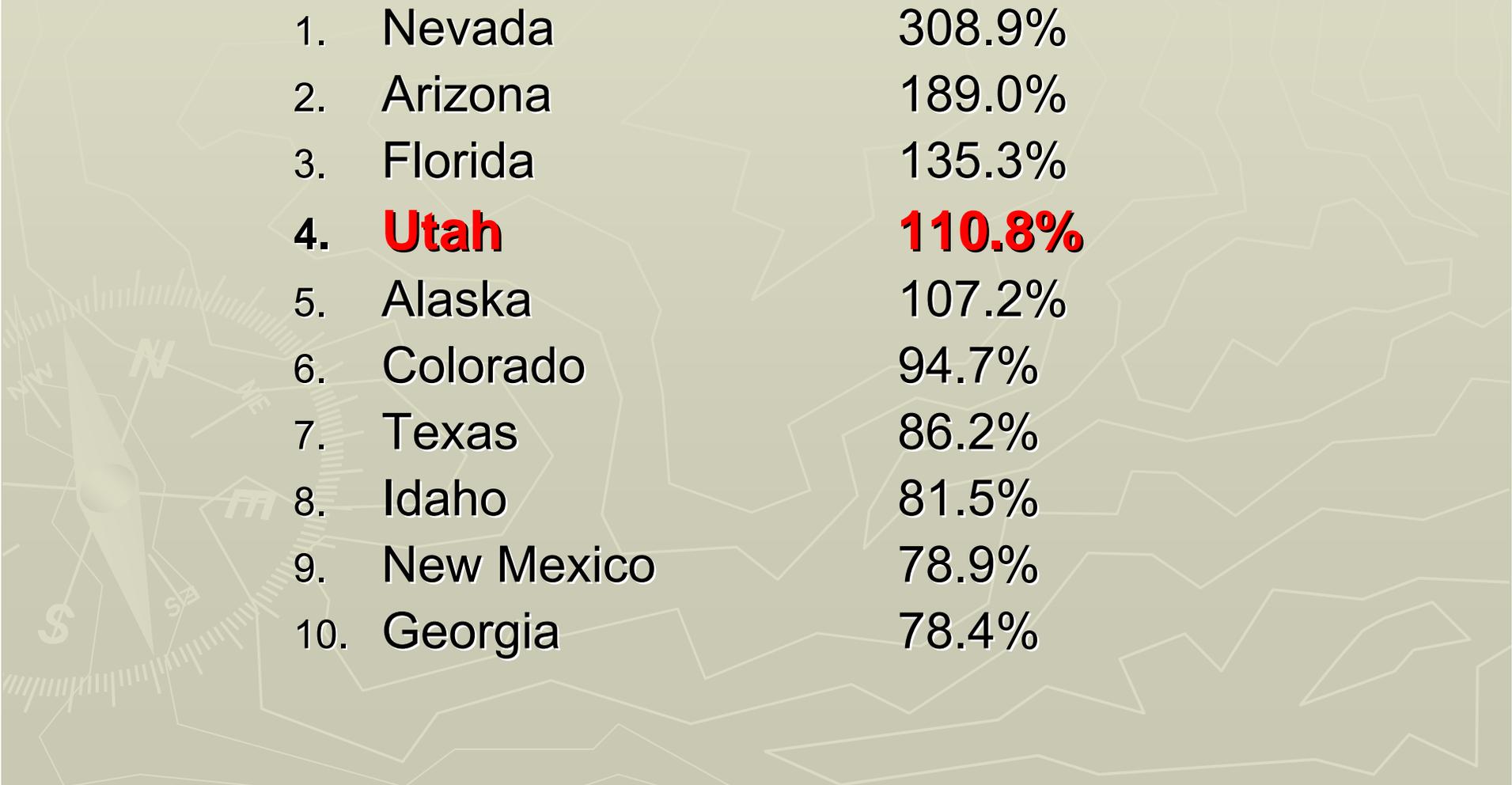
# Even in the Long Term, Utah's Population Growth is Among the Fastest in the Nation

Annual Average Percent Change in Population for States : 1970 to 2000  
U.S. Rate = 1.1%



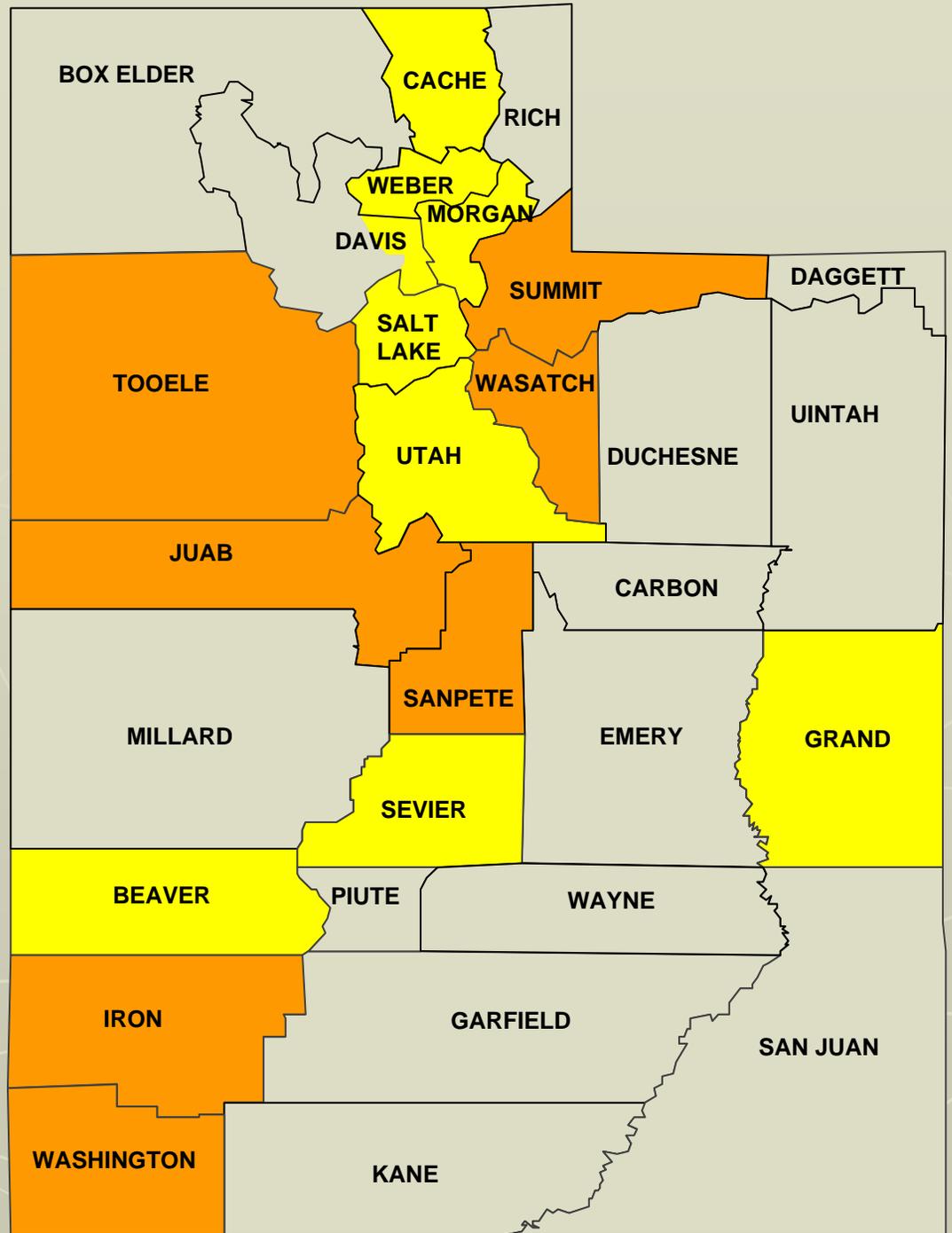
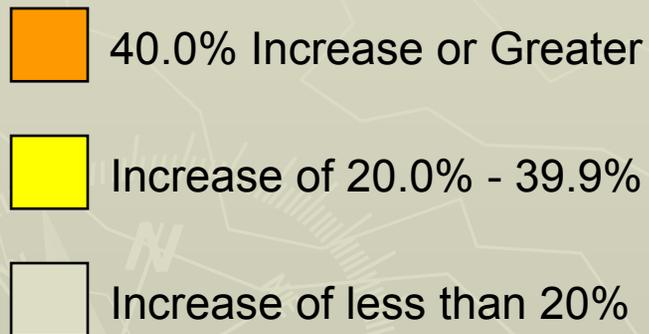
Source: U.S Census Bureau

# Utah was the 4th Fastest Growing State from 1970 to 2000



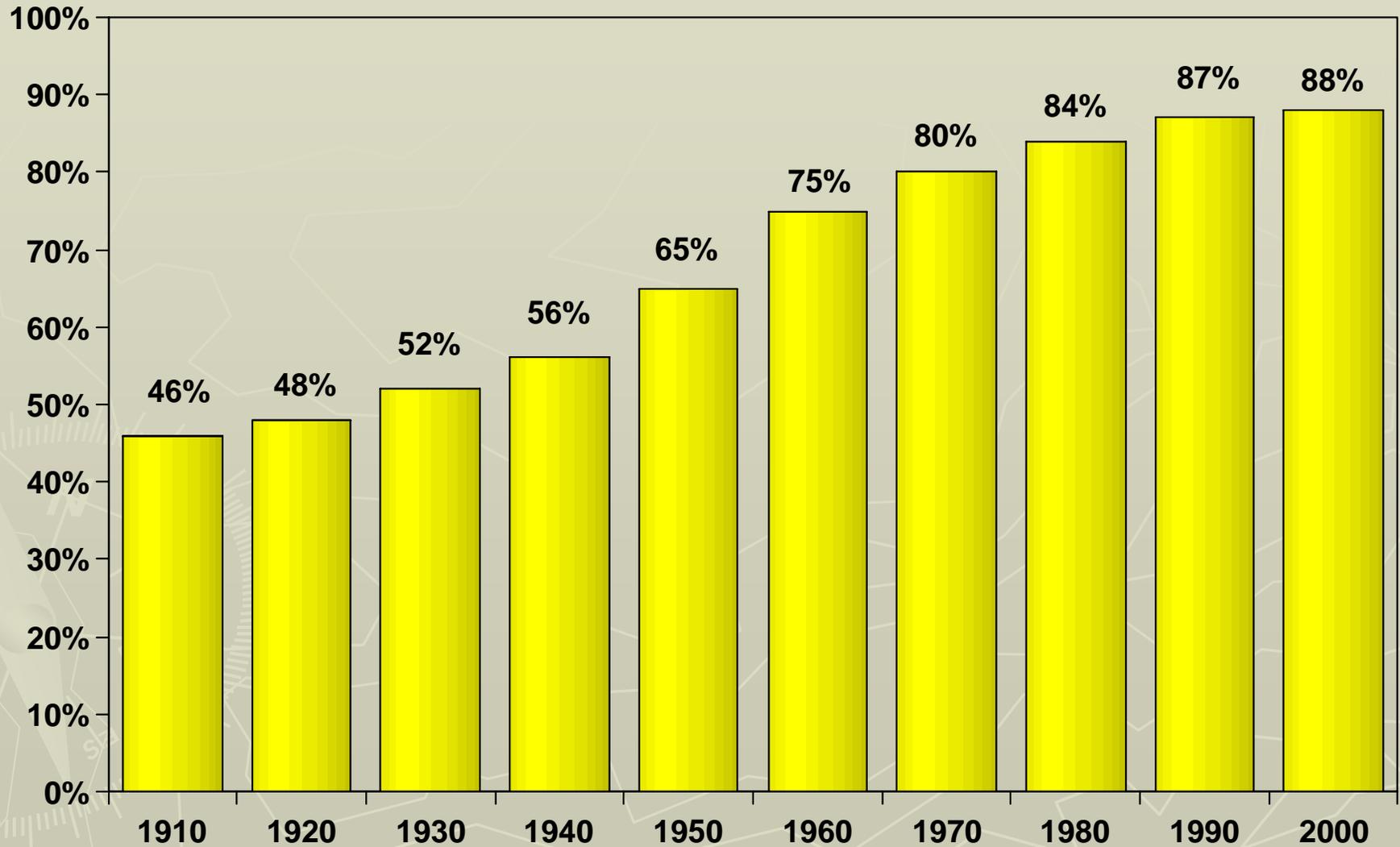
1.	Nevada	308.9%
2.	Arizona	189.0%
3.	Florida	135.3%
4.	<b>Utah</b>	<b>110.8%</b>
5.	Alaska	107.2%
6.	Colorado	94.7%
7.	Texas	86.2%
8.	Idaho	81.5%
9.	New Mexico	78.9%
10.	Georgia	78.4%

# Utah's Fastest Growing Counties 1990 - 2000



# Utah is an Urban State

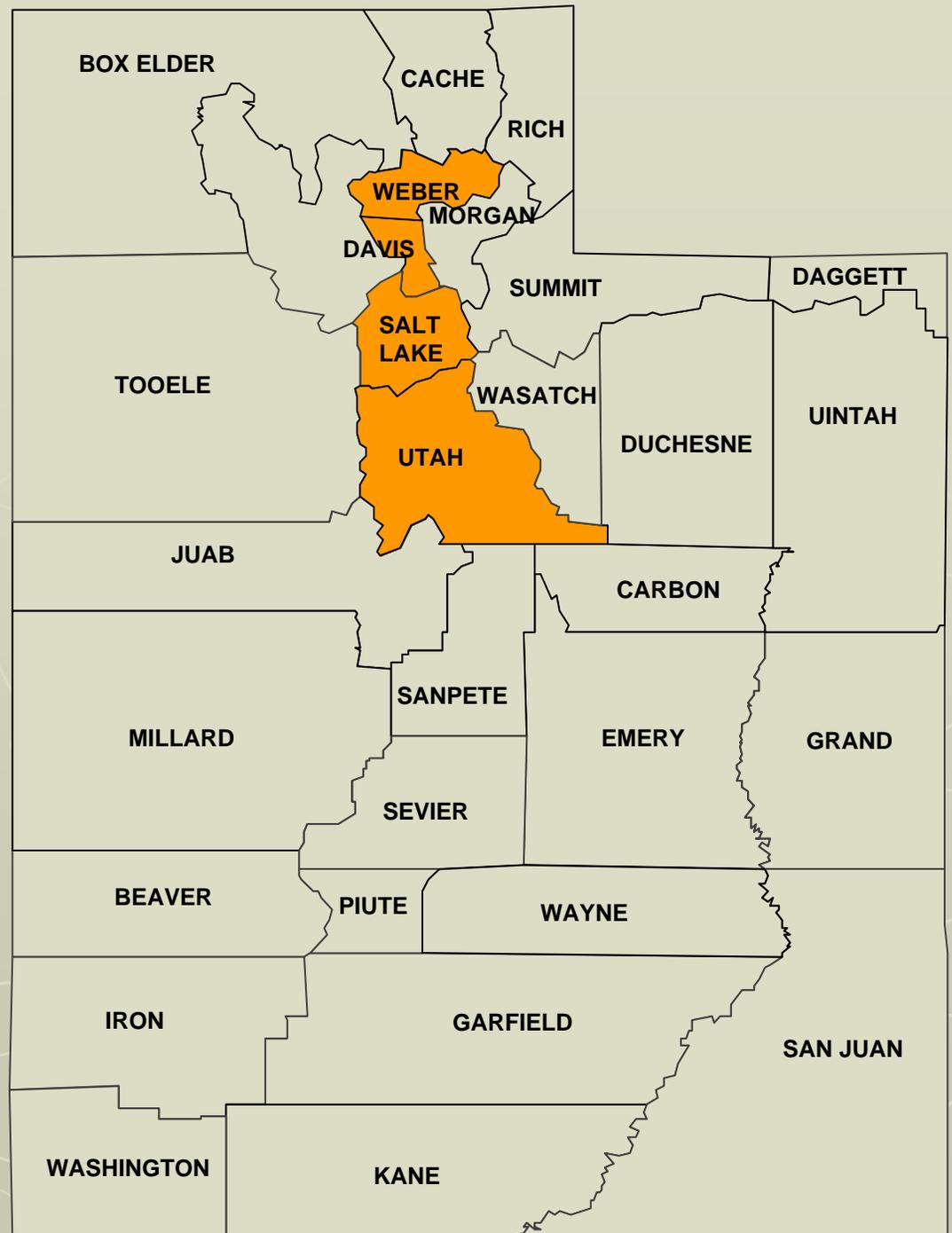
## Percent Urban



Source: U.S. Census Bureau

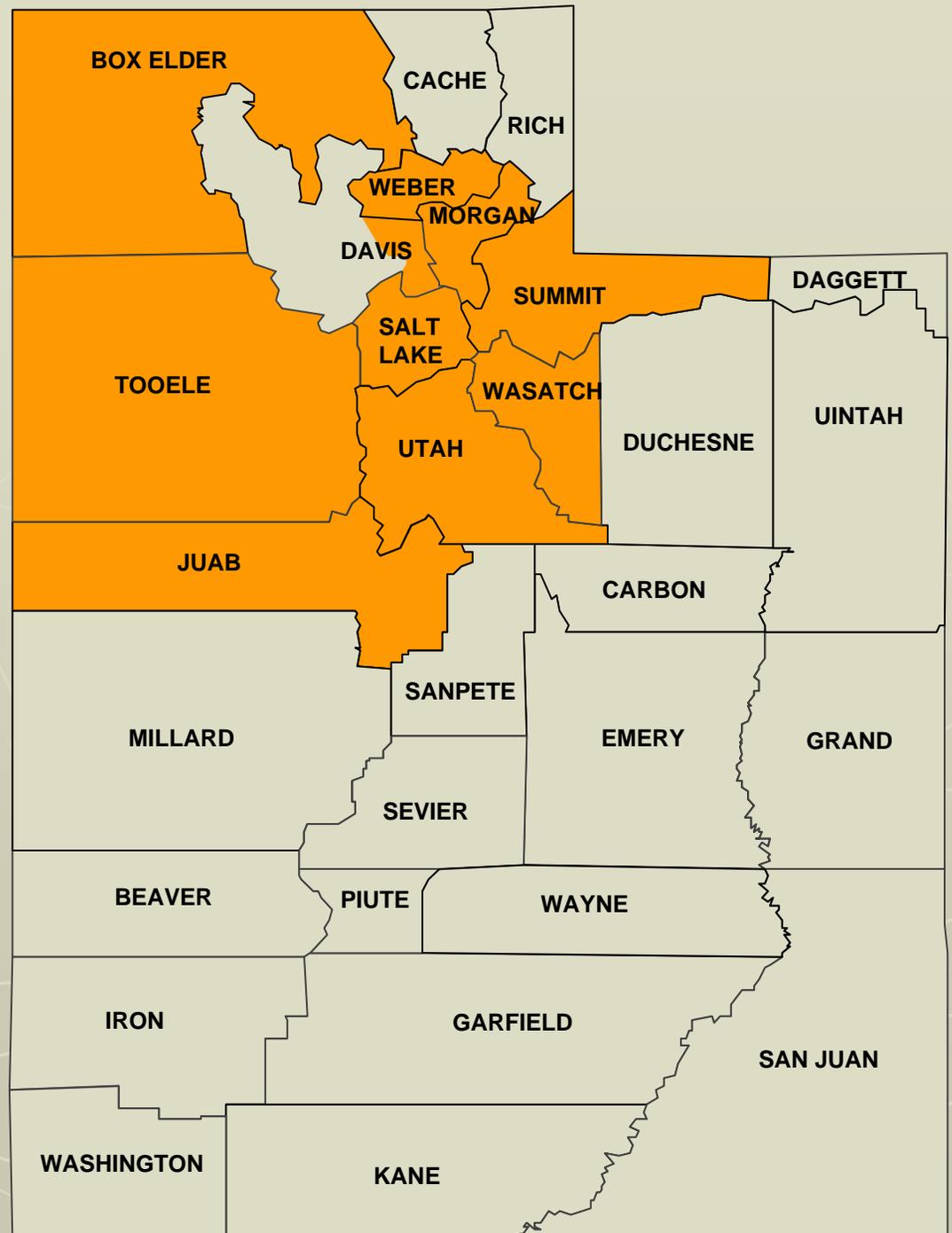
# Utah's Population Centers

- ▶ These counties are home to 1,813,669 residents, or 76% of the state's population.
- ▶ Three out of every four people in Utah live along the Wasatch Front.



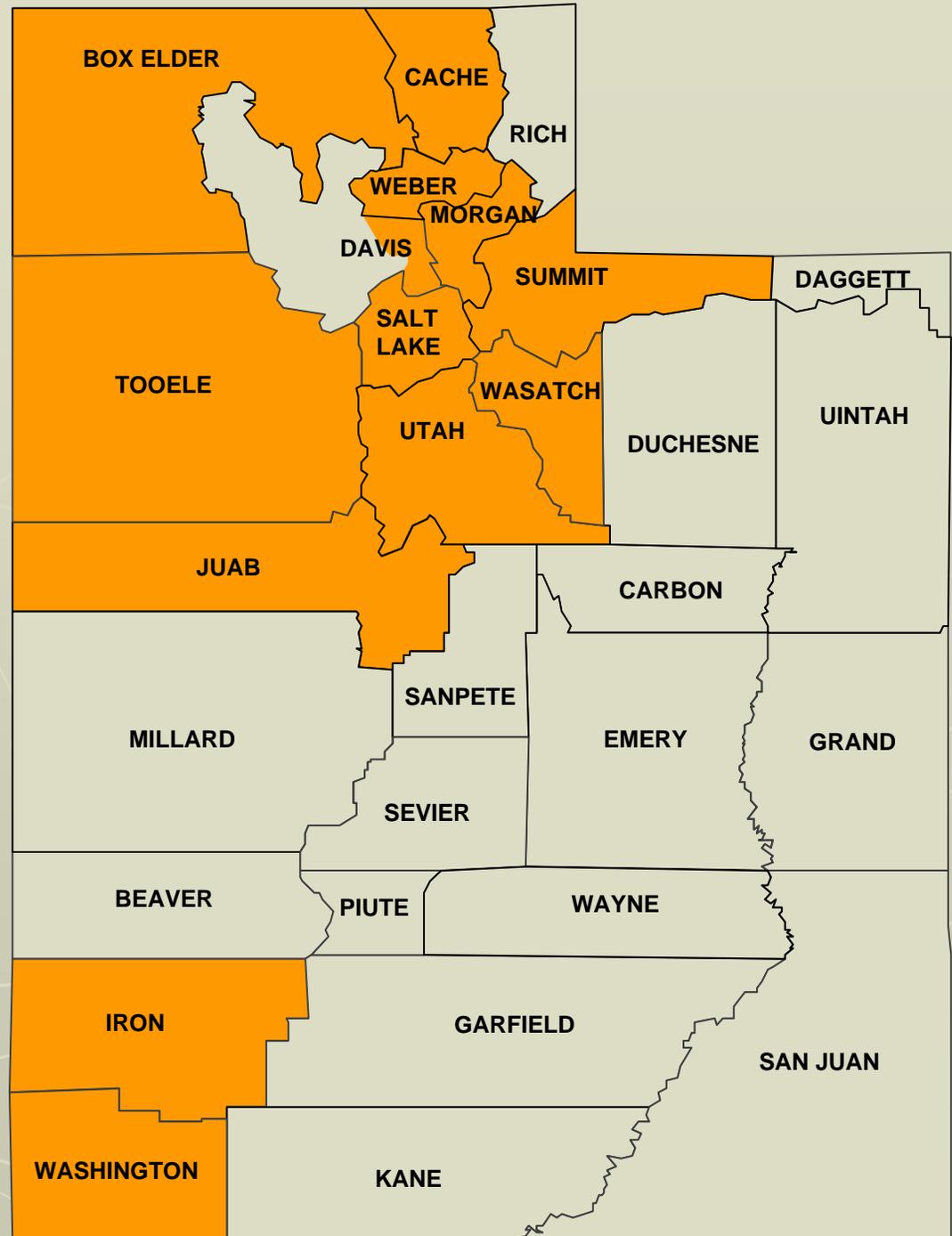
# Utah's Population Centers

- ▶ These counties are home to 1,973,207 residents, or 83% of the state's population.



# Utah's Population Centers

- ▶ These counties are home to 2,169,373 residents, or 91% of the state's population.

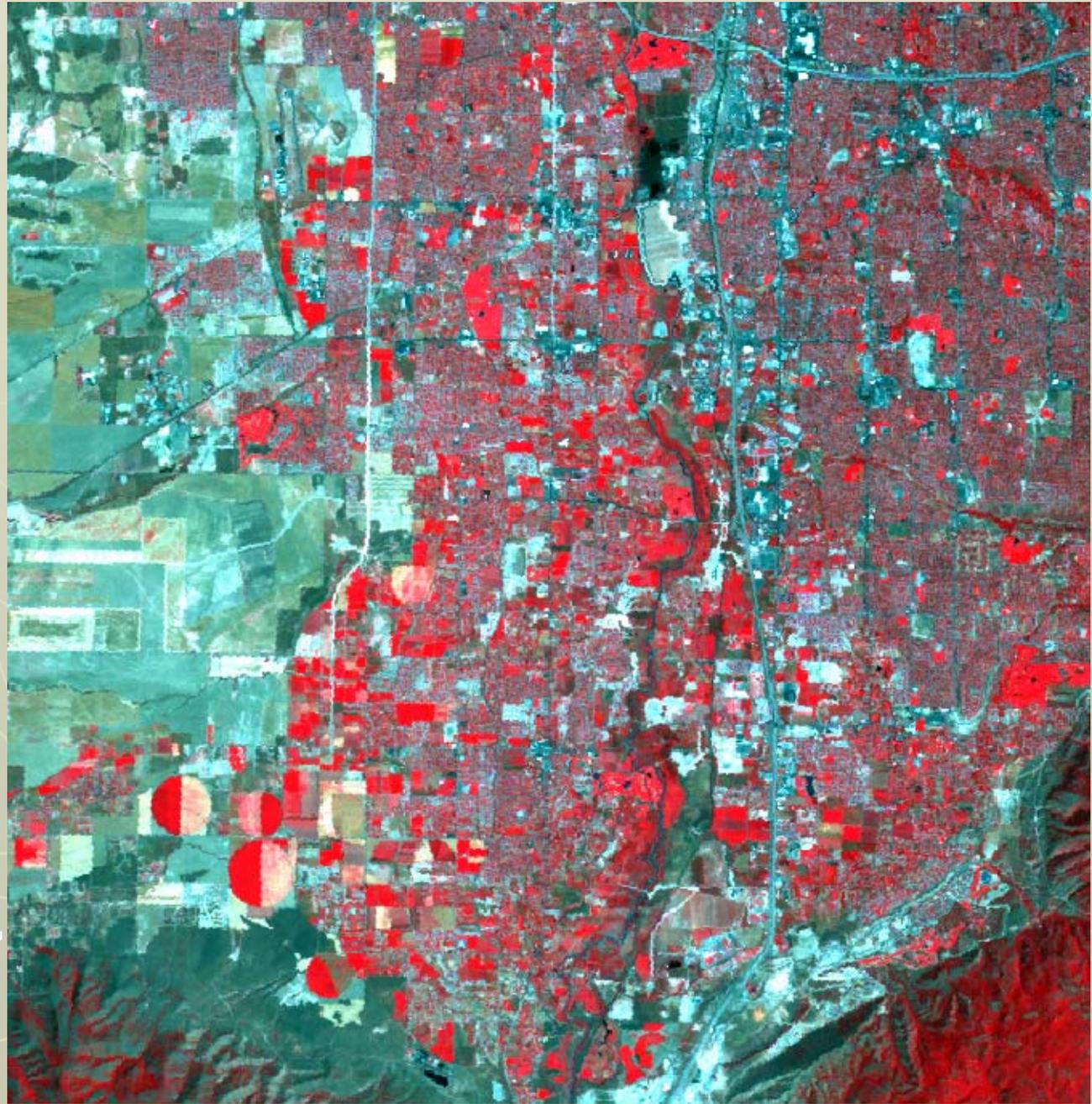


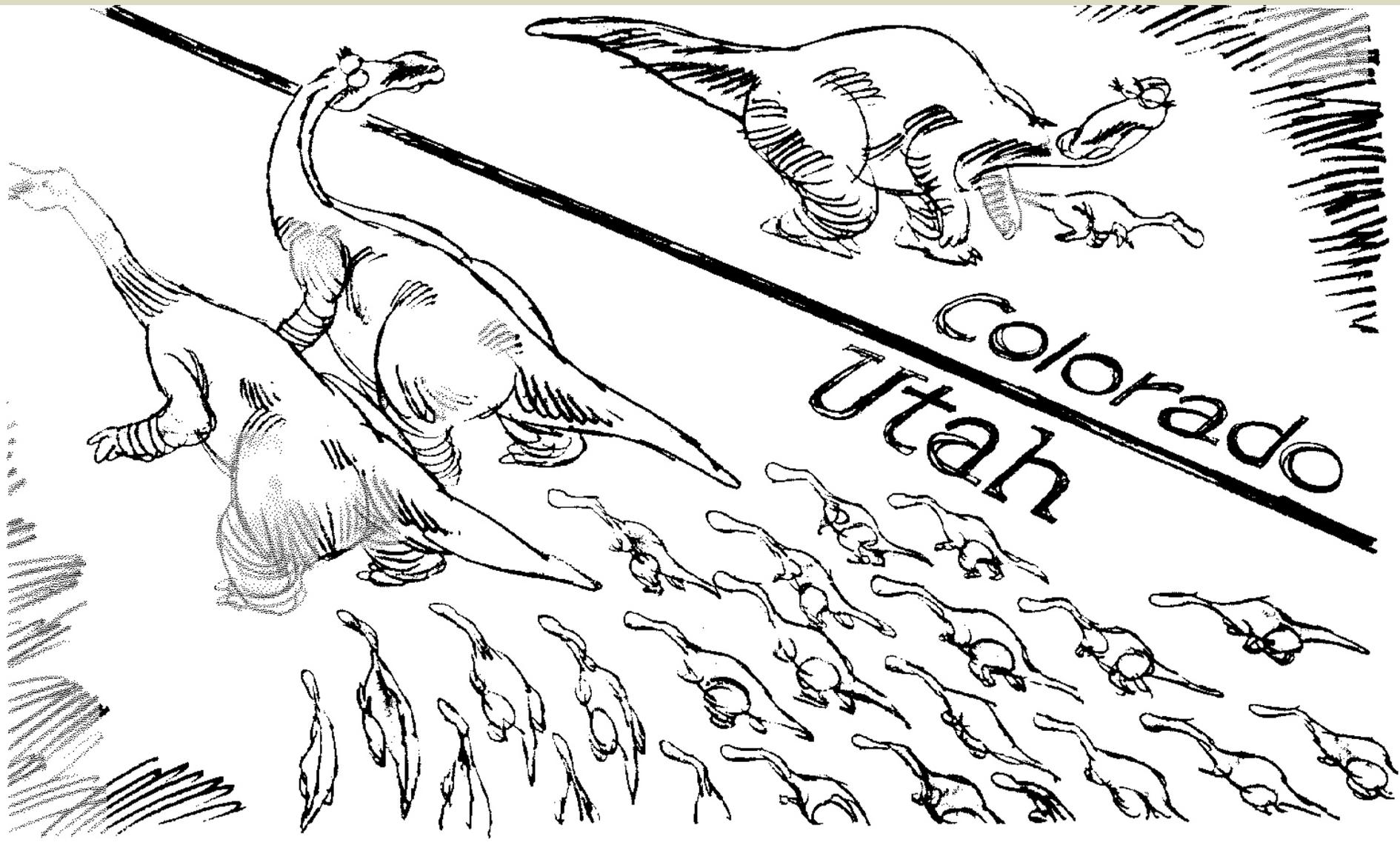
**1972**

**1982**

**1993**

**1997**





Utah  
Colorado

# Utah Has the Largest Households in the Nation

Average U.S. Household Size: 2.59

<b>Utah.....</b>	<b>3.13</b>
Hawaii.....	2.92
California.....	2.87
Alaska.....	2.74
Texas.....	2.74
Maine.....	2.39

A “household is a person or group of persons who live in a housing unit. These equal the count of occupied housing units in a census.

# 2005 Baseline

## Assumptions/Process

# 2005 Baseline

- ▶ Last Baseline was in 2002
- ▶ 2005 Baseline was released in the *2005 Economic Report to the Governor*
- ▶ Produced with REMI Model

# Growth Analysis

- ▶ Population growth is a combination of migration and natural increase.
- ▶ Employment drives migration.
- ▶ National employment is projected based on U.S. Census Bureau population projections.

# REMI Overview



# What is REMI Policy Insight?

- ▶ A valuable tool for economic and demographic forecasting
- ▶ The REMI model can be customized by
  - Sector
  - Geographic configuration

# Key REMI Policy Insight Features

Based on Economic Theory and all inter-industry linkages

- ✓ Includes Economic Geography Theory
- ✓ Is calibrated and estimated using regional data
- ✓ Is dynamic and predicts when results will occur
- ✓ Structural cause & effect relationships explain results
- ✓ Optional alternative structures allow sensitivity tests
- ✓ Is the leading Policy Analysis model in the U.S.

# Assumptions



# Long-Run Assumptions

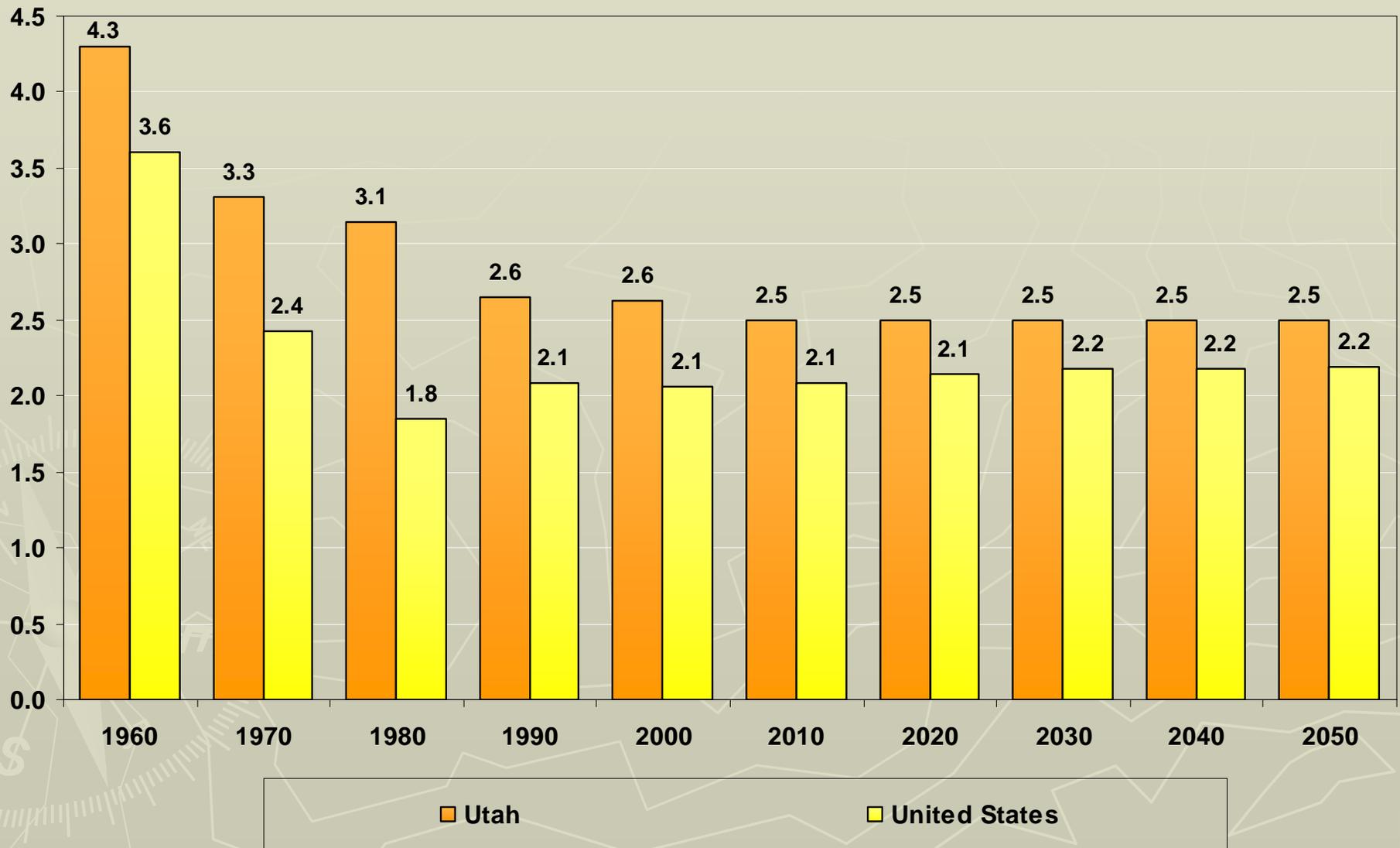
## ► Survival

- Survival Rates are assumed to increase along with projected U.S. survival rates

## ► Fertility

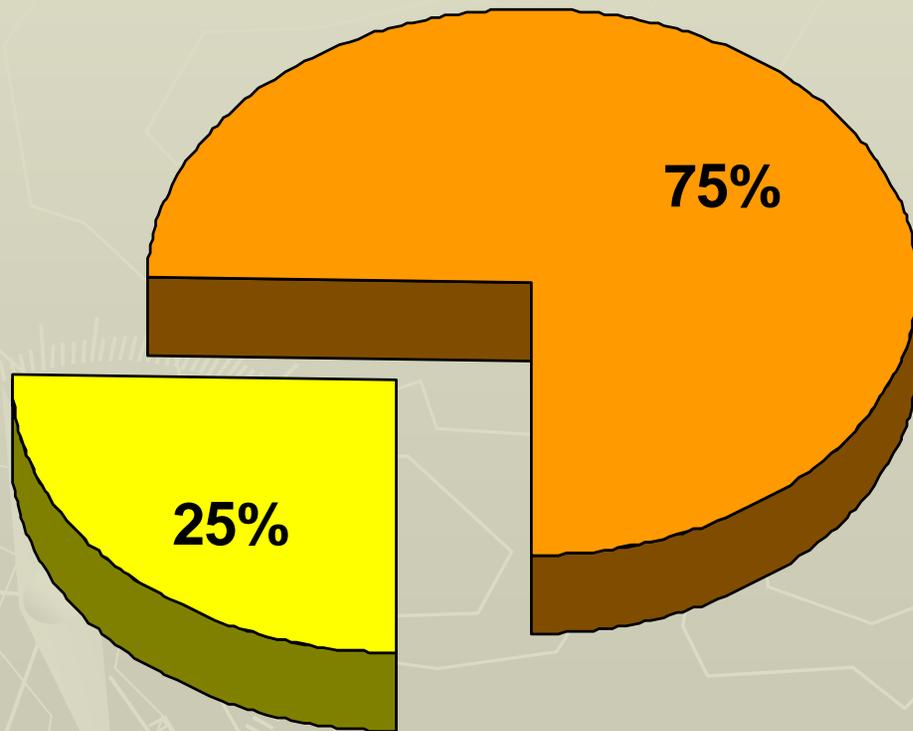
- State level birth probabilities by age are assumed to remain constant to their current estimated levels

# Fertility Rates for Utah and the U.S.



# Components of Change

1950-2006



■ Migration

■ Natural Increase

- ▶ Migration contributed 25% of population increase from 1950 – 2006
- ▶ During the 1990s, migration rose to 36%.
- ▶ In 2006, migration was 42% of total population growth
- ▶ Migration is projected to be 26% in the projections timeline

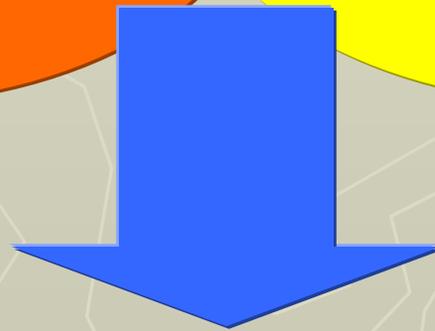
# Process



# State of Utah Projections Process

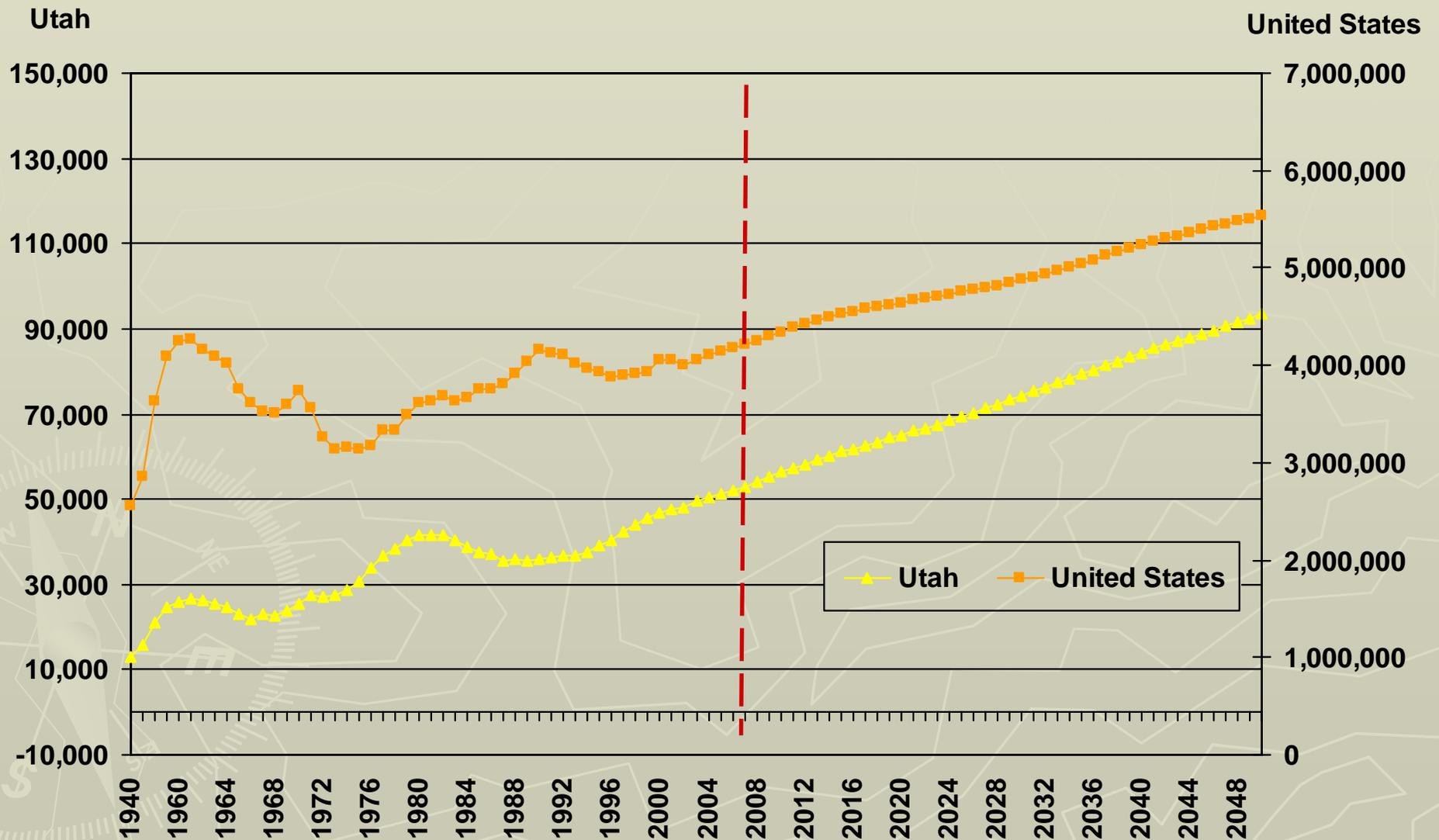
**Economic Base  
Model**

**Cohort Component  
Model**



**Integrated Economic and  
Demographic Projections**

# Utah and U.S. Births: 1940 to 2050

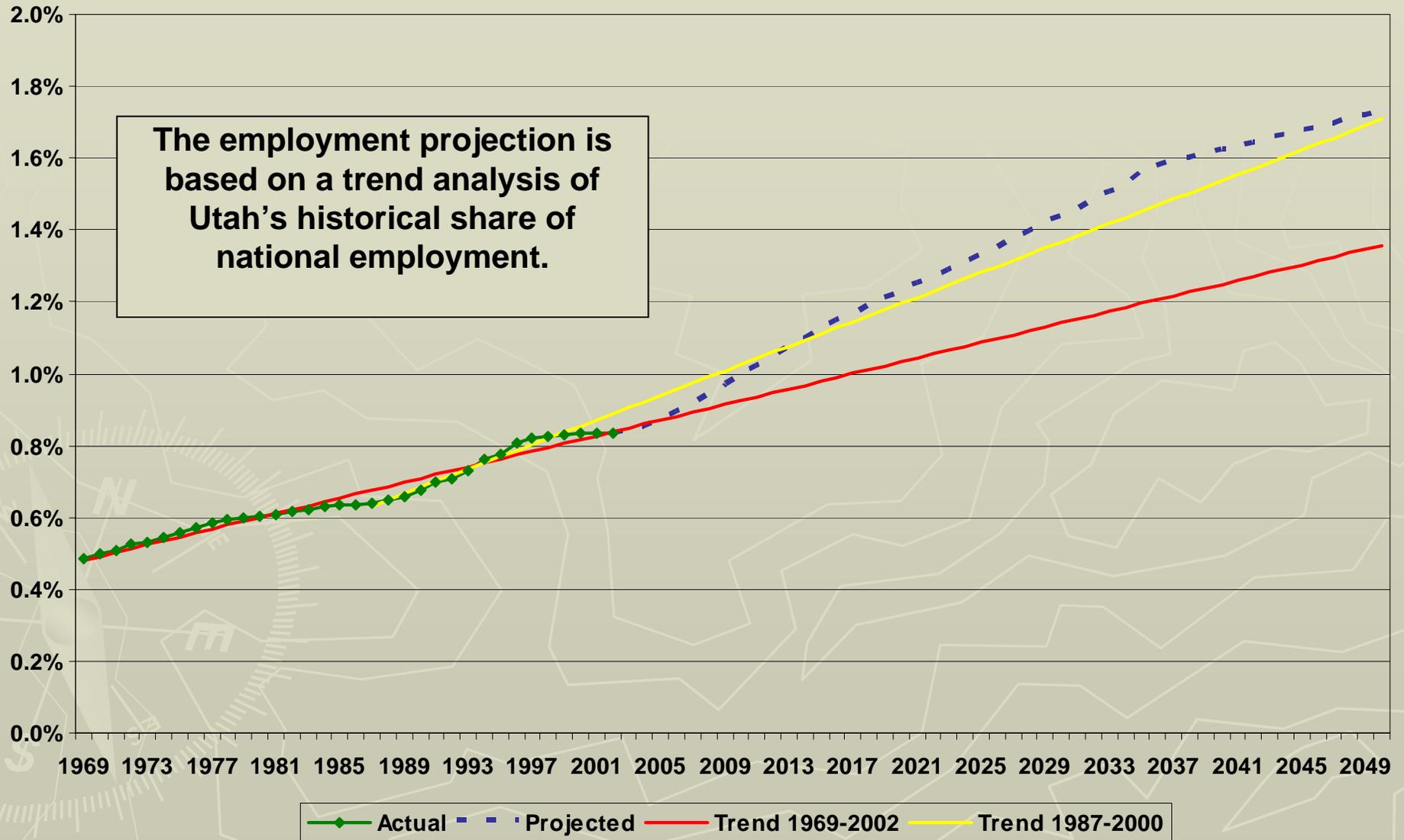


Sources: U.S.: National Center for Health Statistics; Utah: Utah Office of Vital Records and Statistics; U.S. Census Bureau; Governor's Office of Planning and Budget

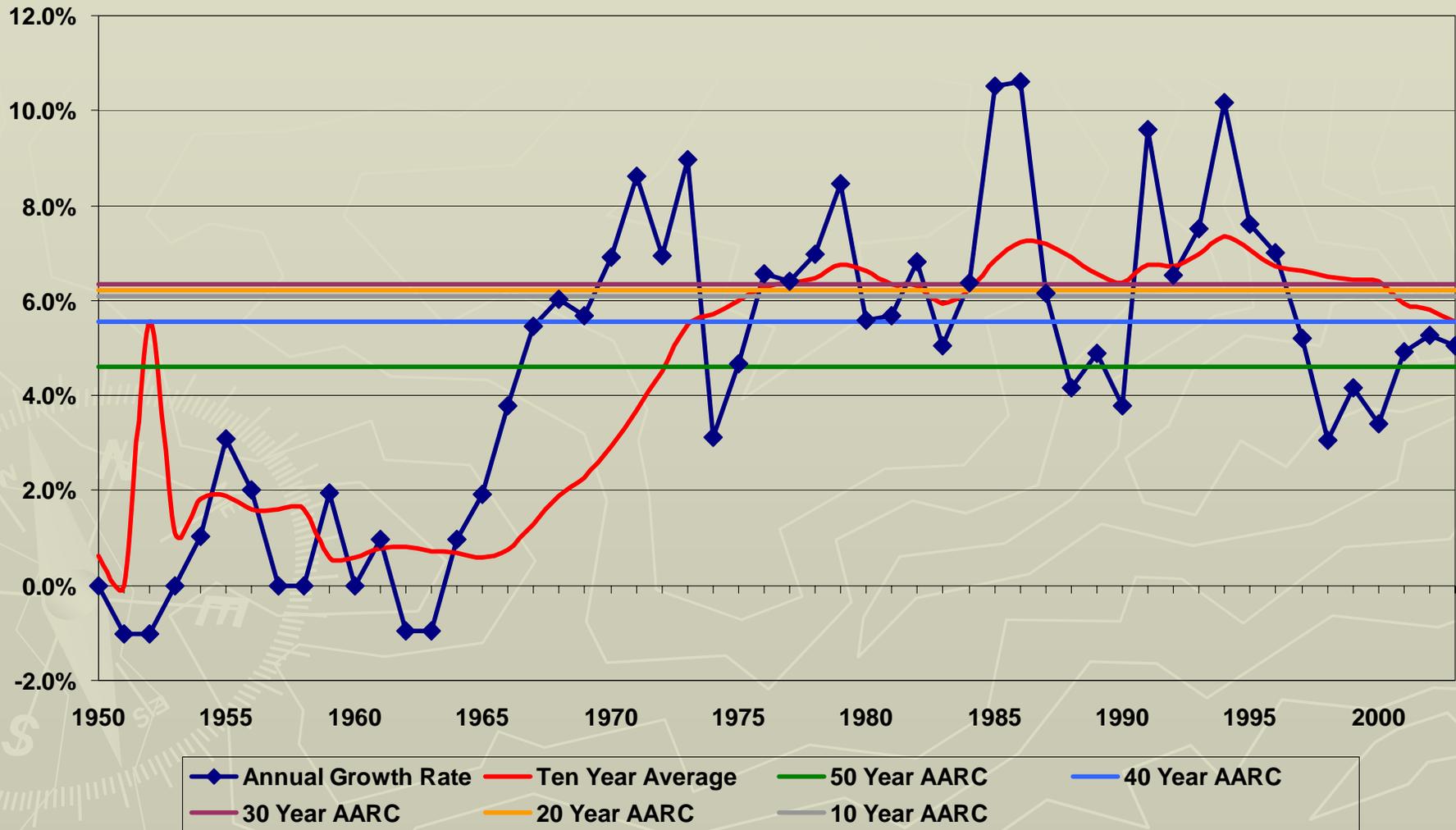
# 2005 Baseline Process

- ▶ Begin with the state model
  - Incorporate employment using employment update
  - Incorporate fertility assumptions using policy variable selection
- ▶ Disaggregate to the counties using the multi region county model
- ▶ Testing and review to assure believability

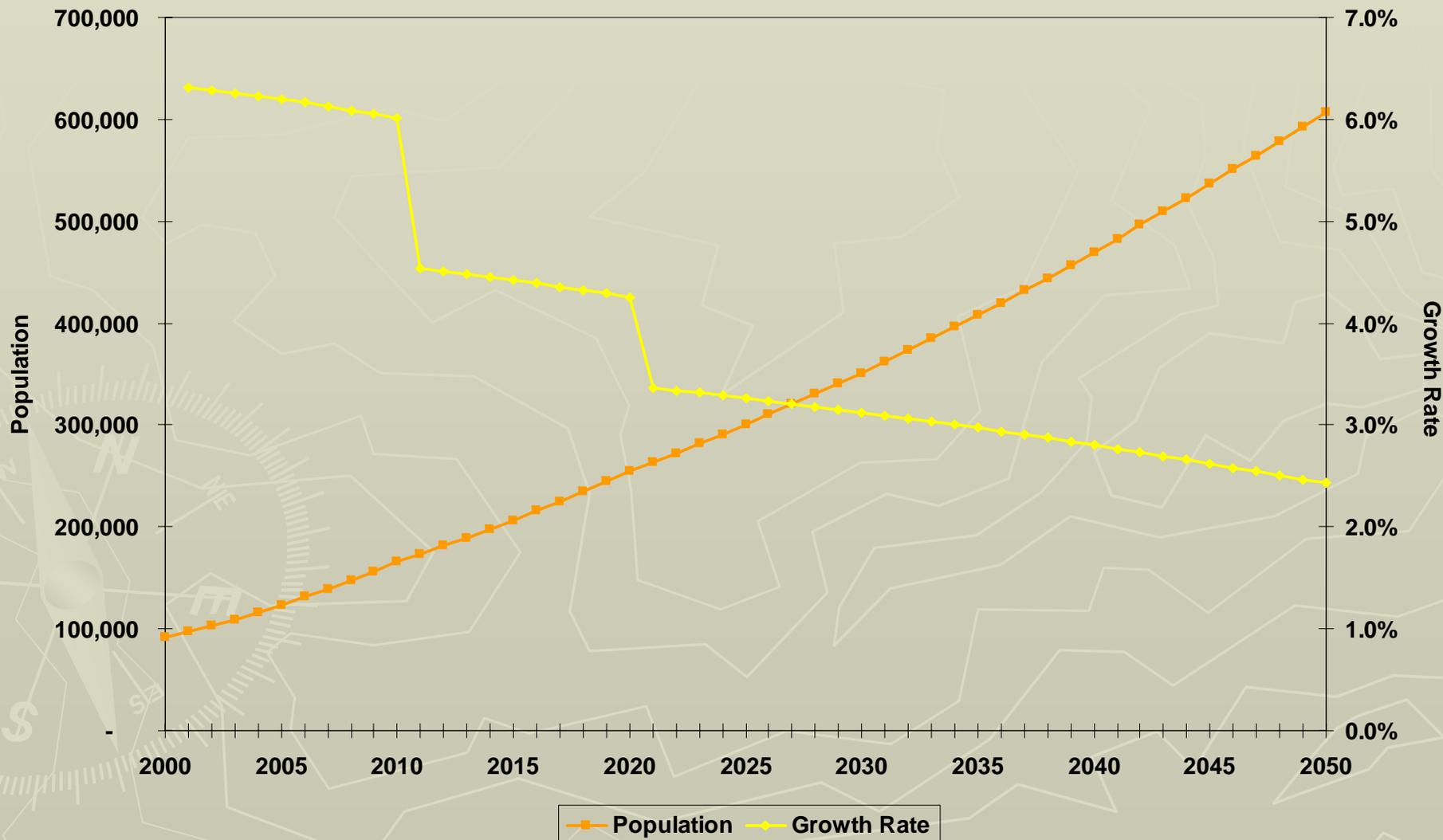
# Utah's Share of National Employment



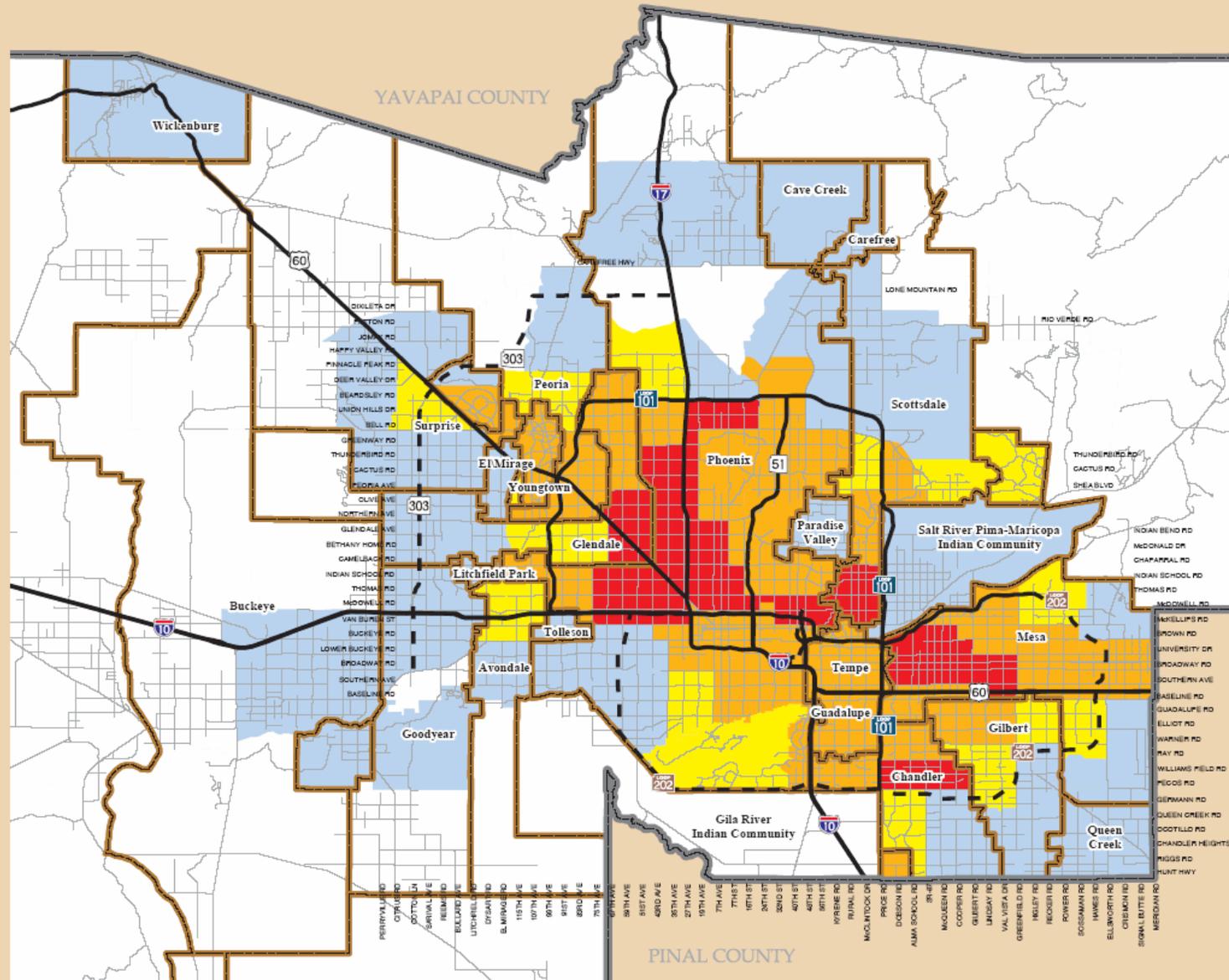
# Washington County Population Growth Analysis



# Washington County Population Growth



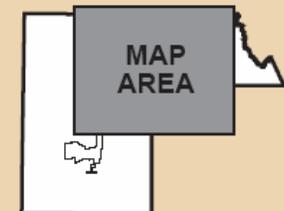
## 2000 Population Density for Interim Socioeconomic Projections by RAZ\*



People Per Square Mile  
(Maricopa County Average = 336)

- 0 - 50
- 50 - 1000
- 1000 - 2000
- 2000 - 5000
- More than 5000

- County Boundary
- MPA Boundaries
- Existing Freeways/Expressways
- Planned Freeways/Expressways
- Major Roads



While every effort has been made to ensure the accuracy of this information, the Maricopa Association of Governments makes no warranty, expressed or implied, as to its accuracy and expressly disclaims liability for the accuracy thereof.



\*Based on Interim projections by Municipal Planning Area (MPA) and Regional Analysis Zone (RAZ) for 2010, 2020, 2025 and 2030 accepted by MAG Regional Council on June 25, 2003.

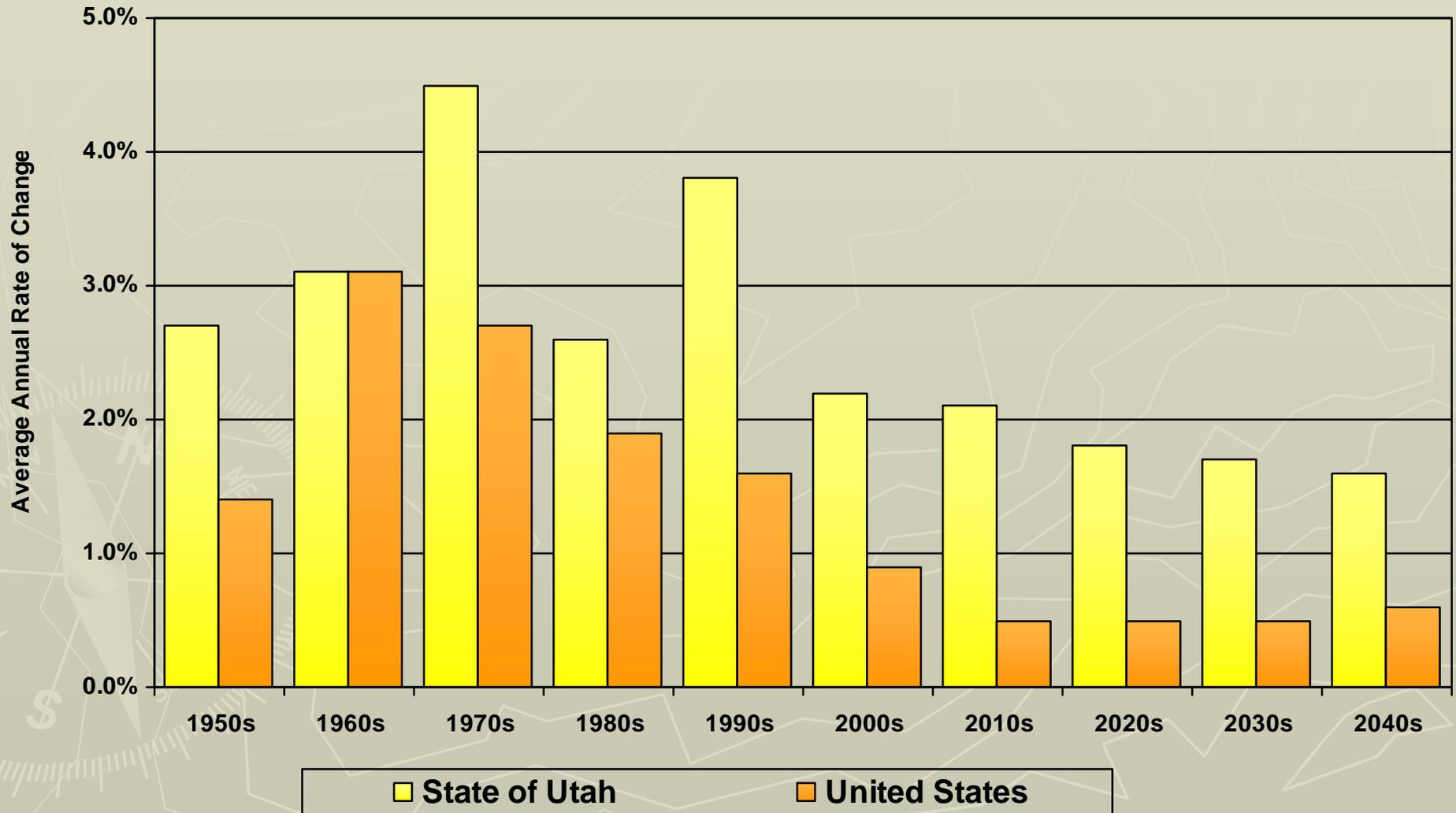
**2005 Baseline**

**Results**

**Employment**

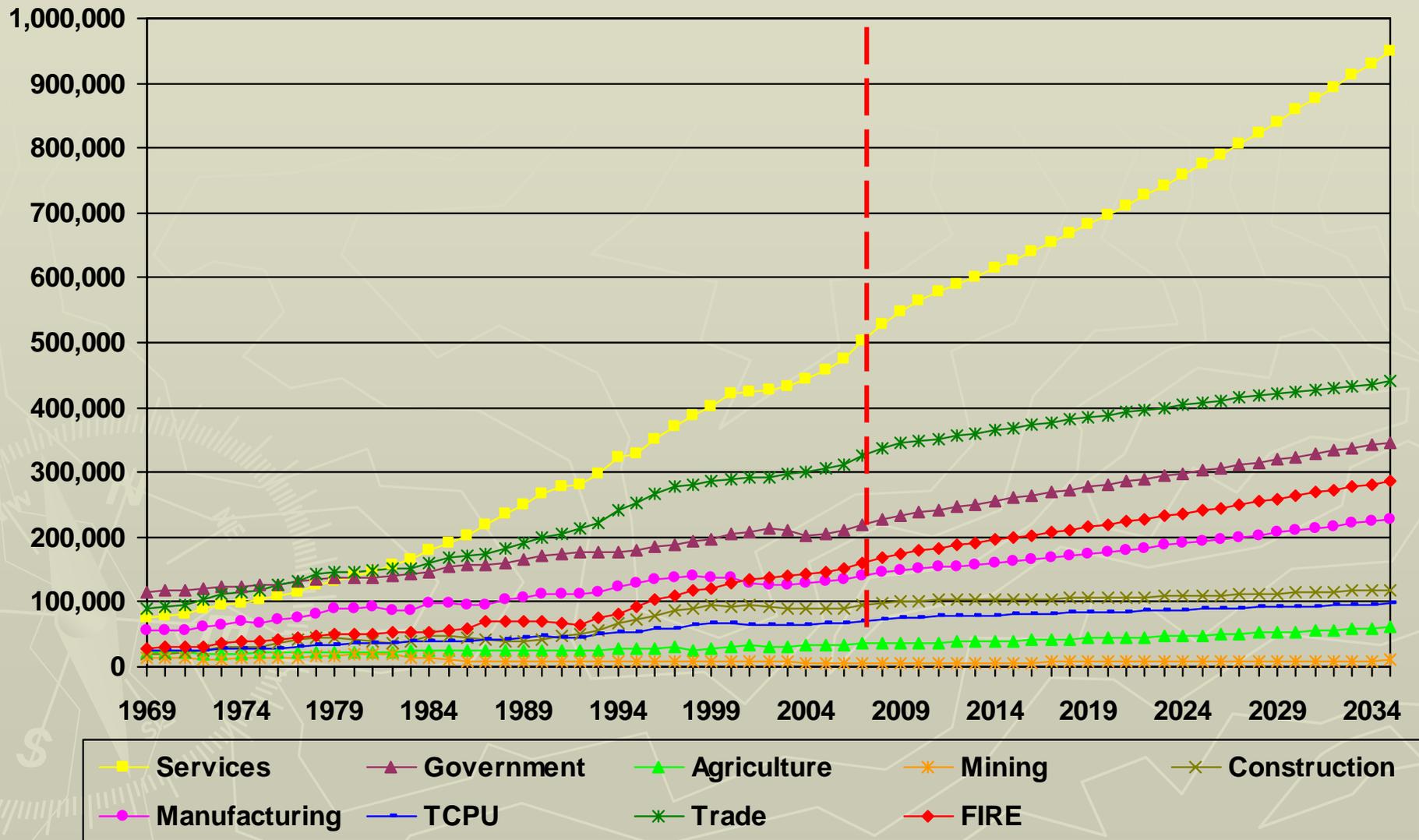


# Employment Growth by Decade for Utah and the U.S.



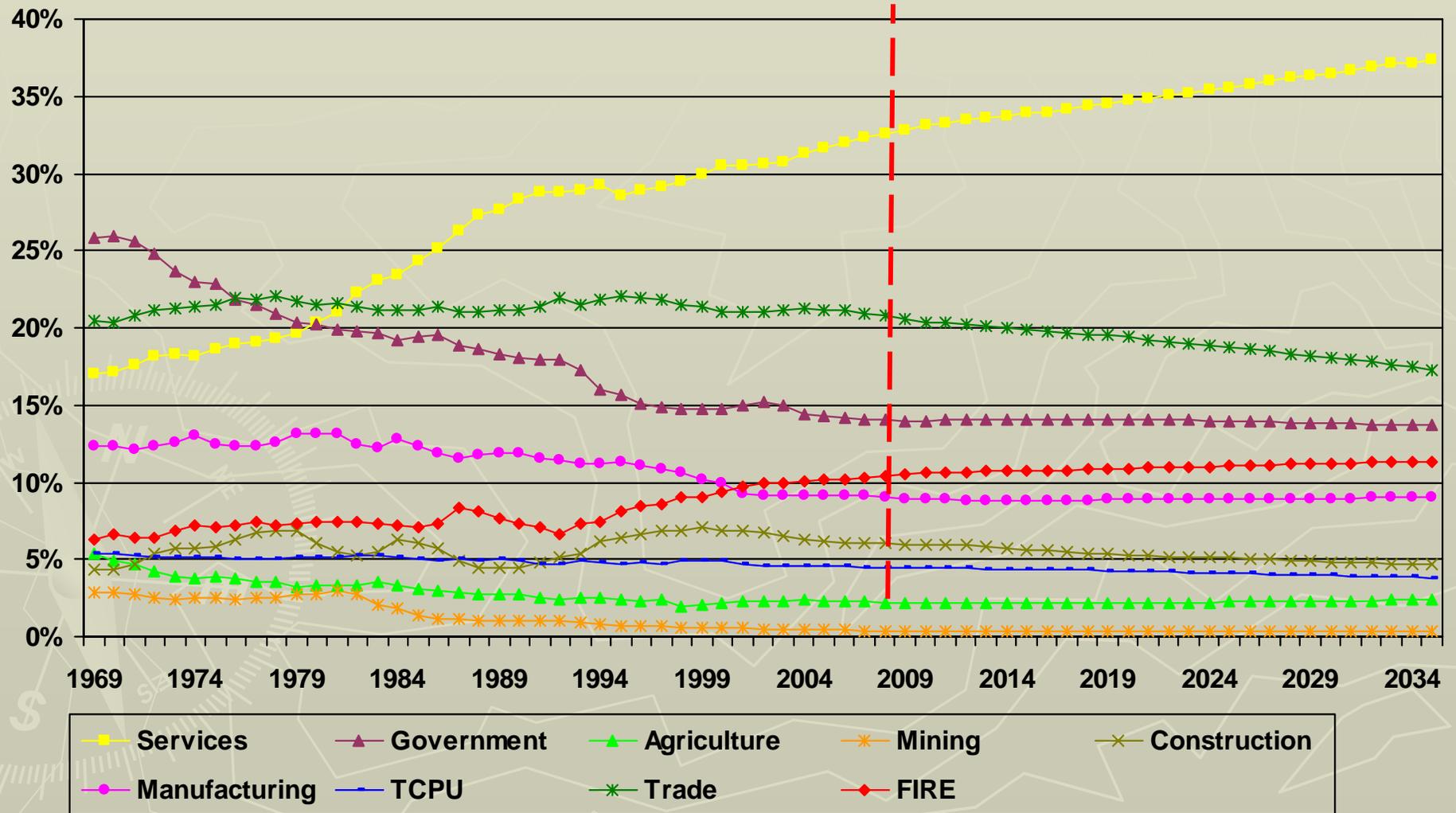
Source: 2005 Baseline Projections, GOPB

# SIC Major Industries in Utah: 1969 to 2035



Source: Provisional 2004 Baseline Projections, Governor's Office of Planning and Budget

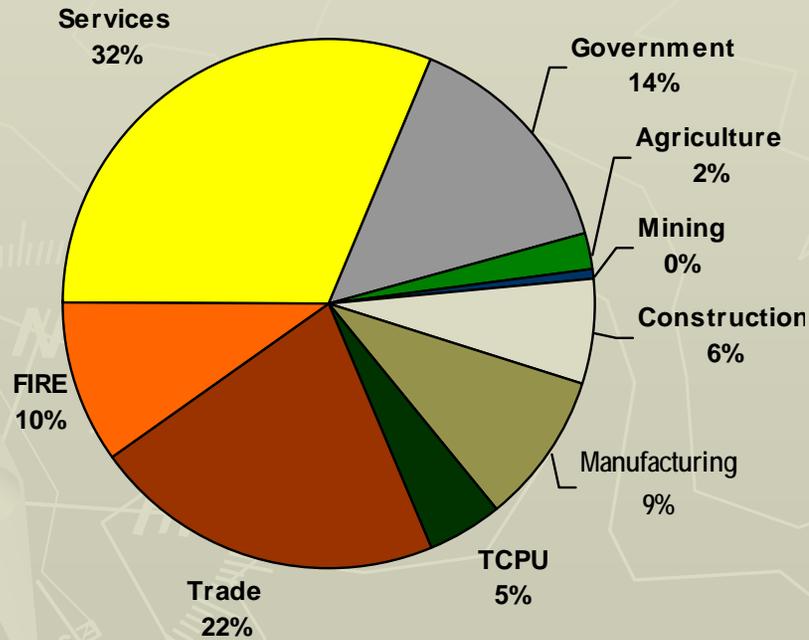
# SIC Industry Employment as a Share of Total State Employment



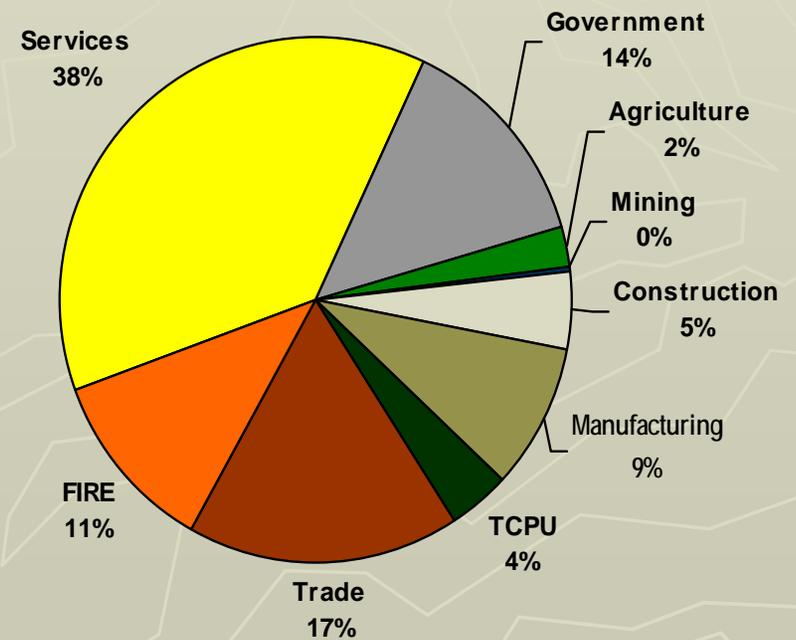
Source: Provisional 2004 Baseline Projections, Governor's Office of Planning and Budget

# SIC Industry Employment as a Share of Total State Employment

2004

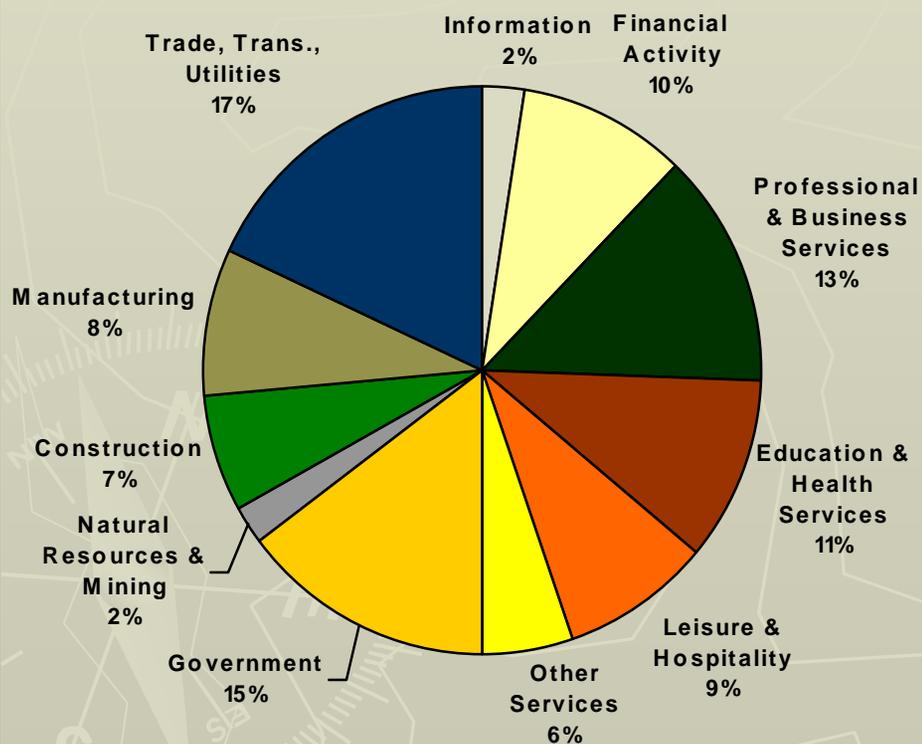


2035

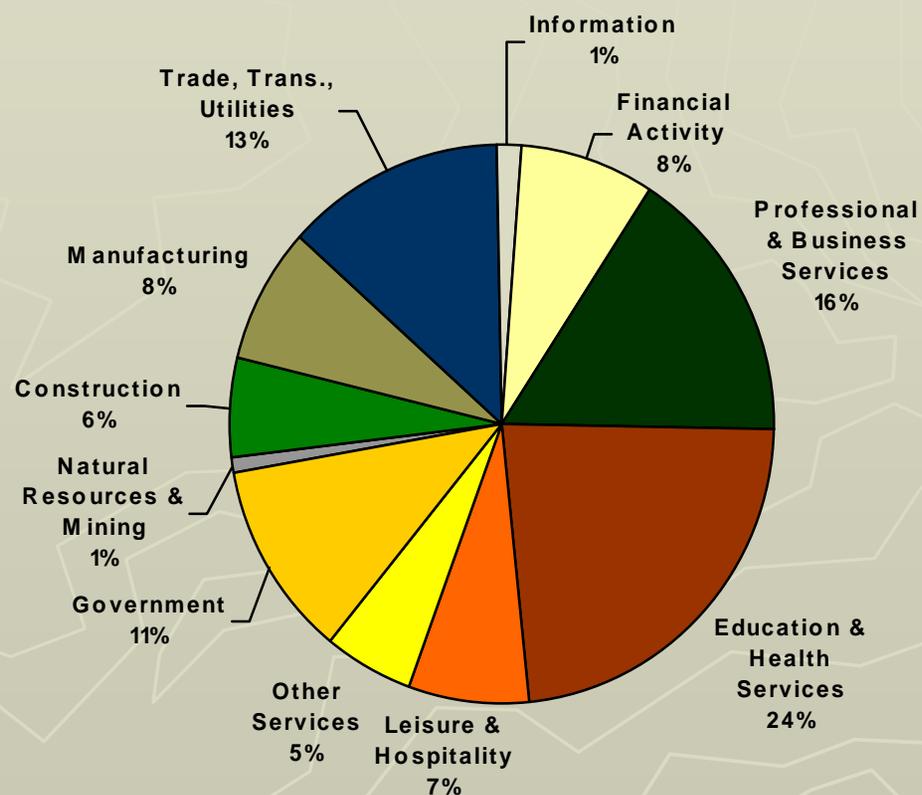


# NAICS Utah Employment by Industry as a Share of Total State Employment

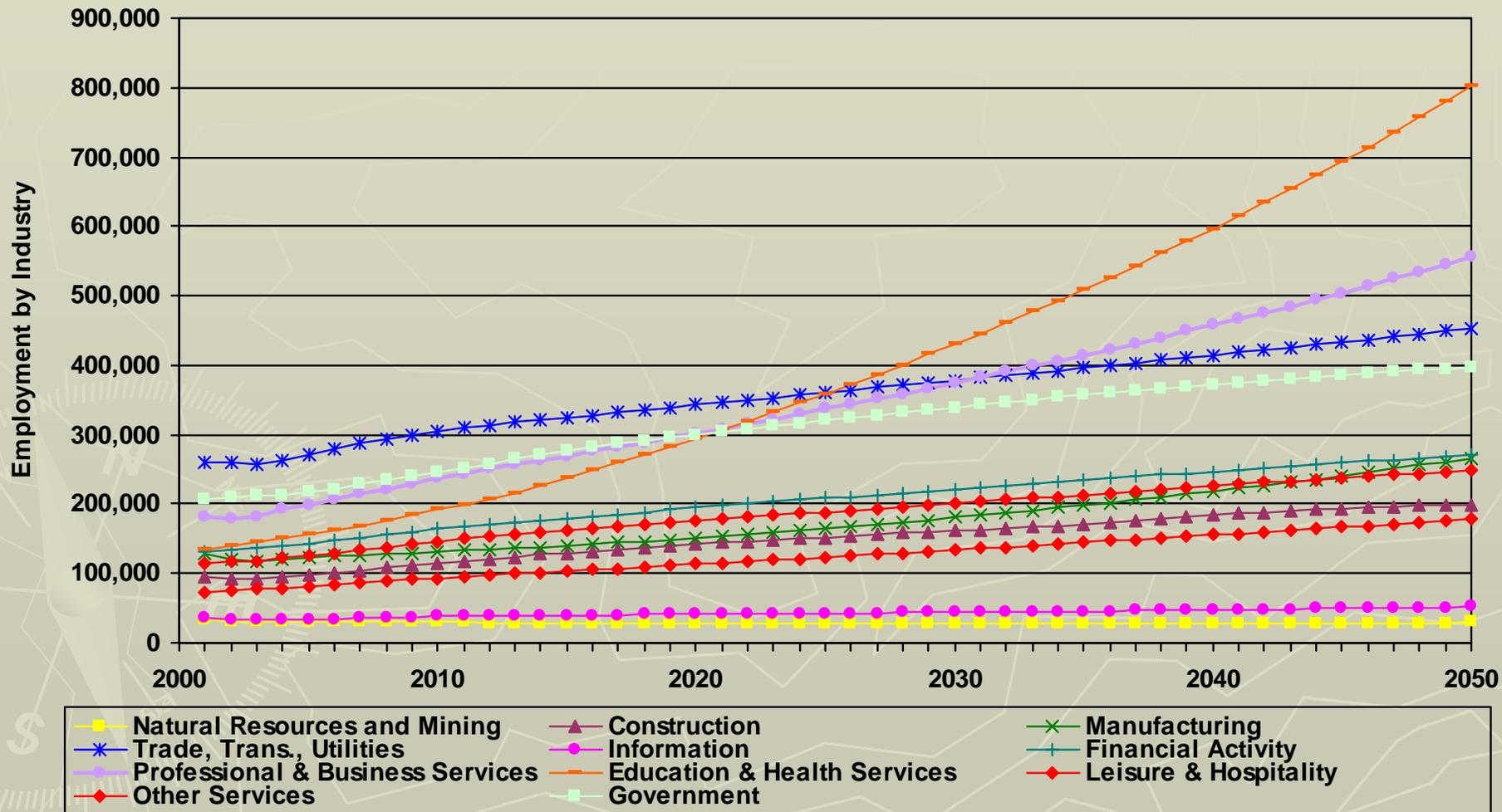
**2007**



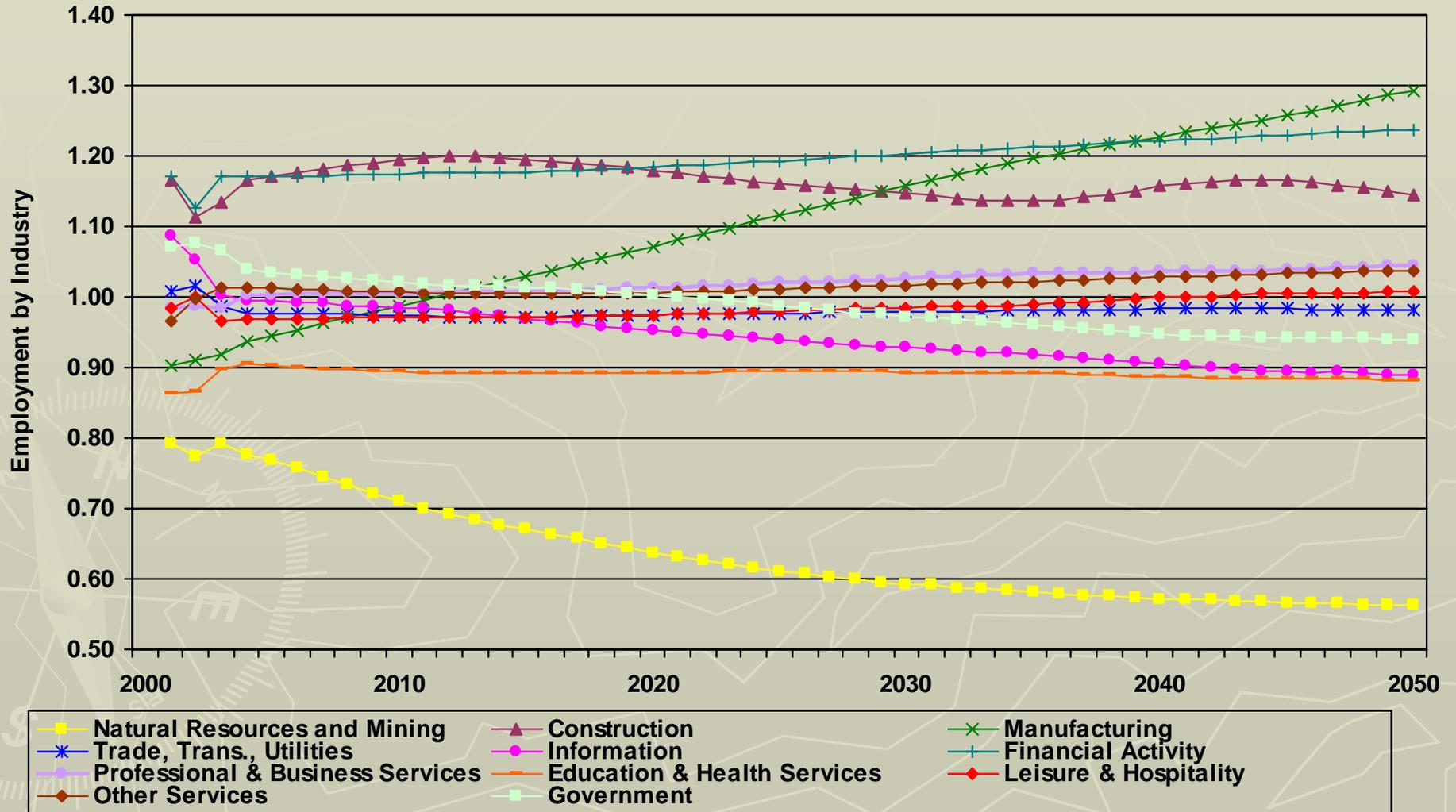
**2050**



# NAICS Major Industries in Utah: 2001-2050



# Location Quotients: State Employment



**2005 Baseline**

**Results**

**Population**



# A 100 Year Look at Utah's Population

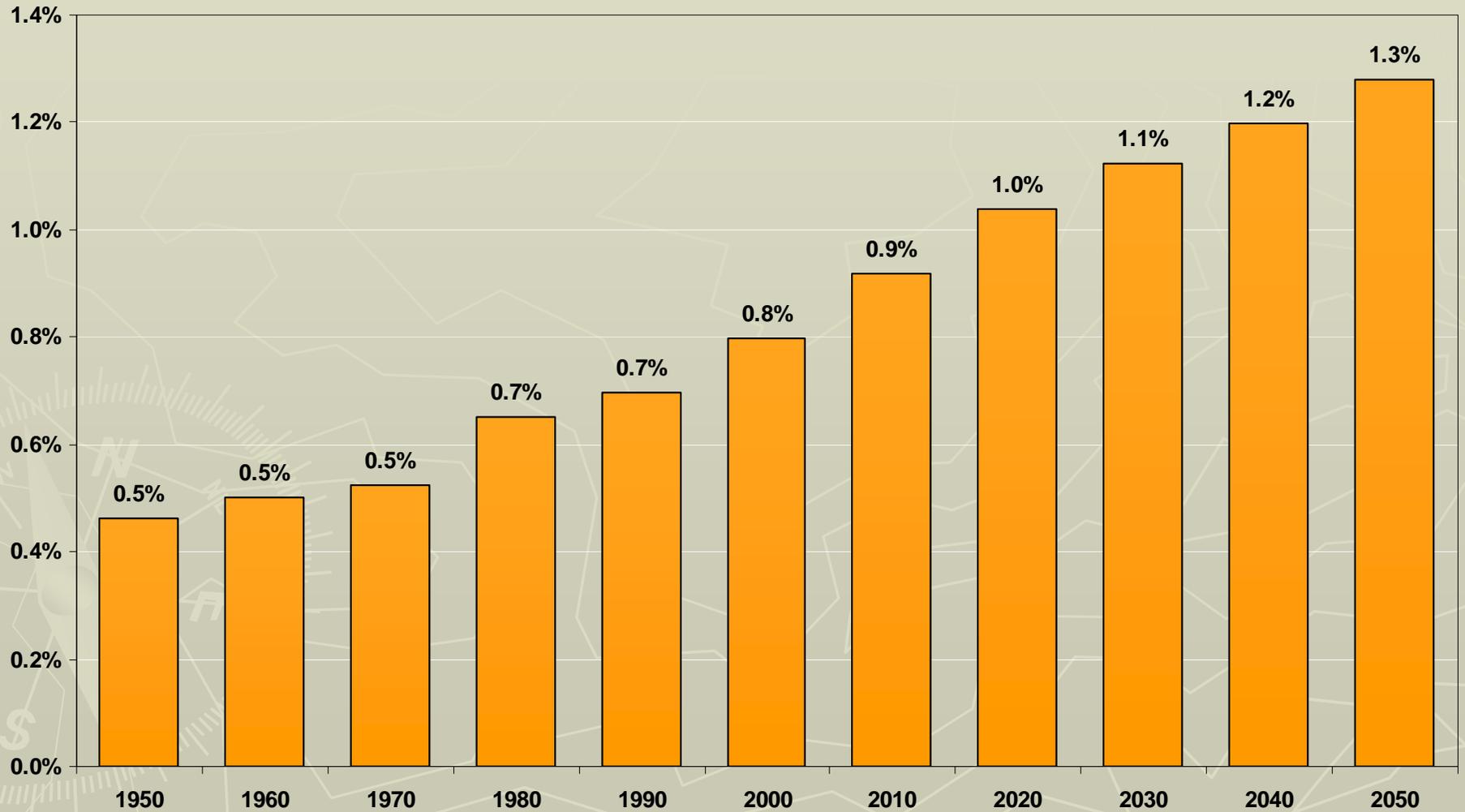
Utah Population 1950 to 2050

## Growth

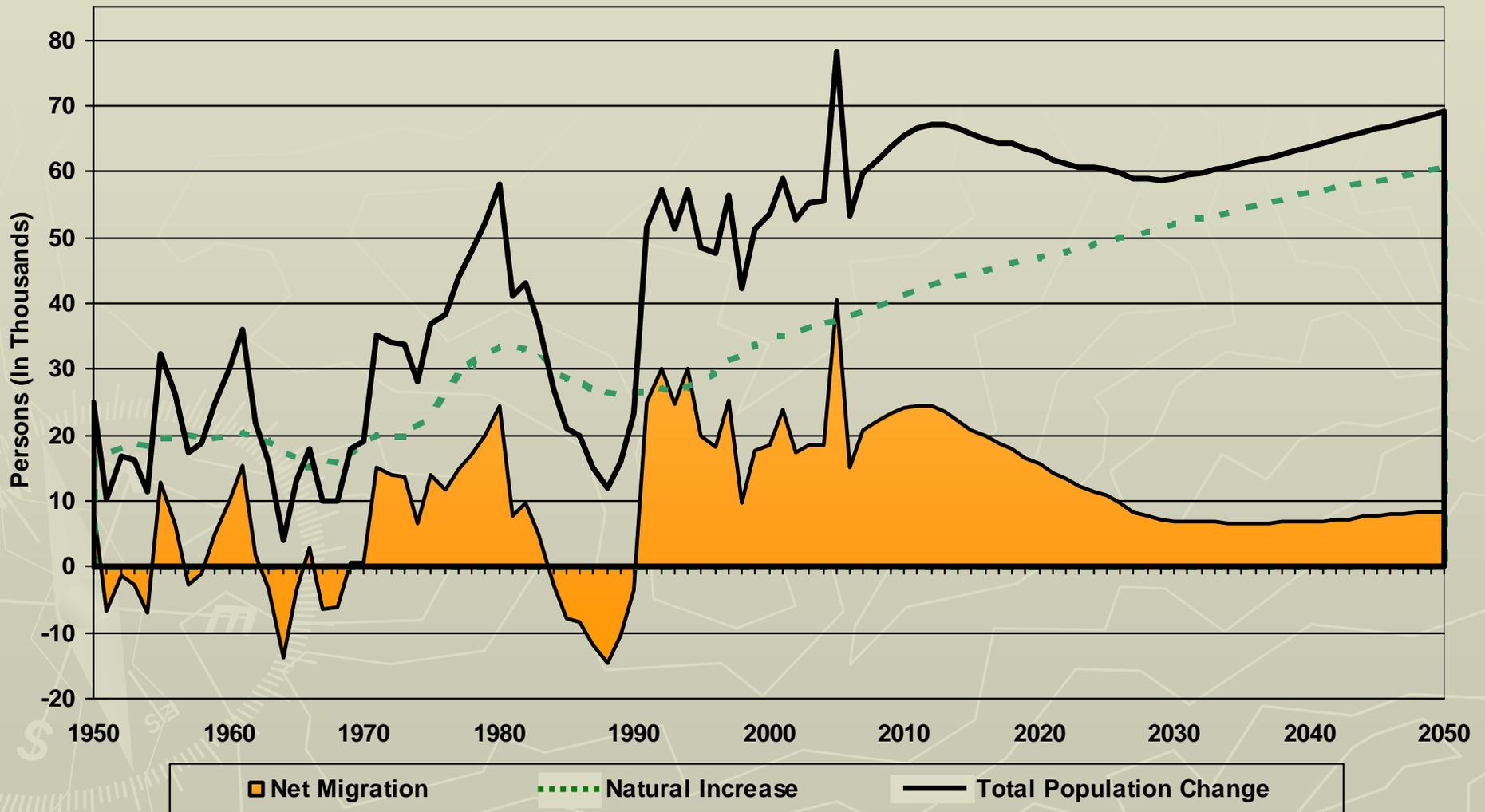


Sources: Historical, U.S. Census Bureau; Projected, 2005 Baseline Projections

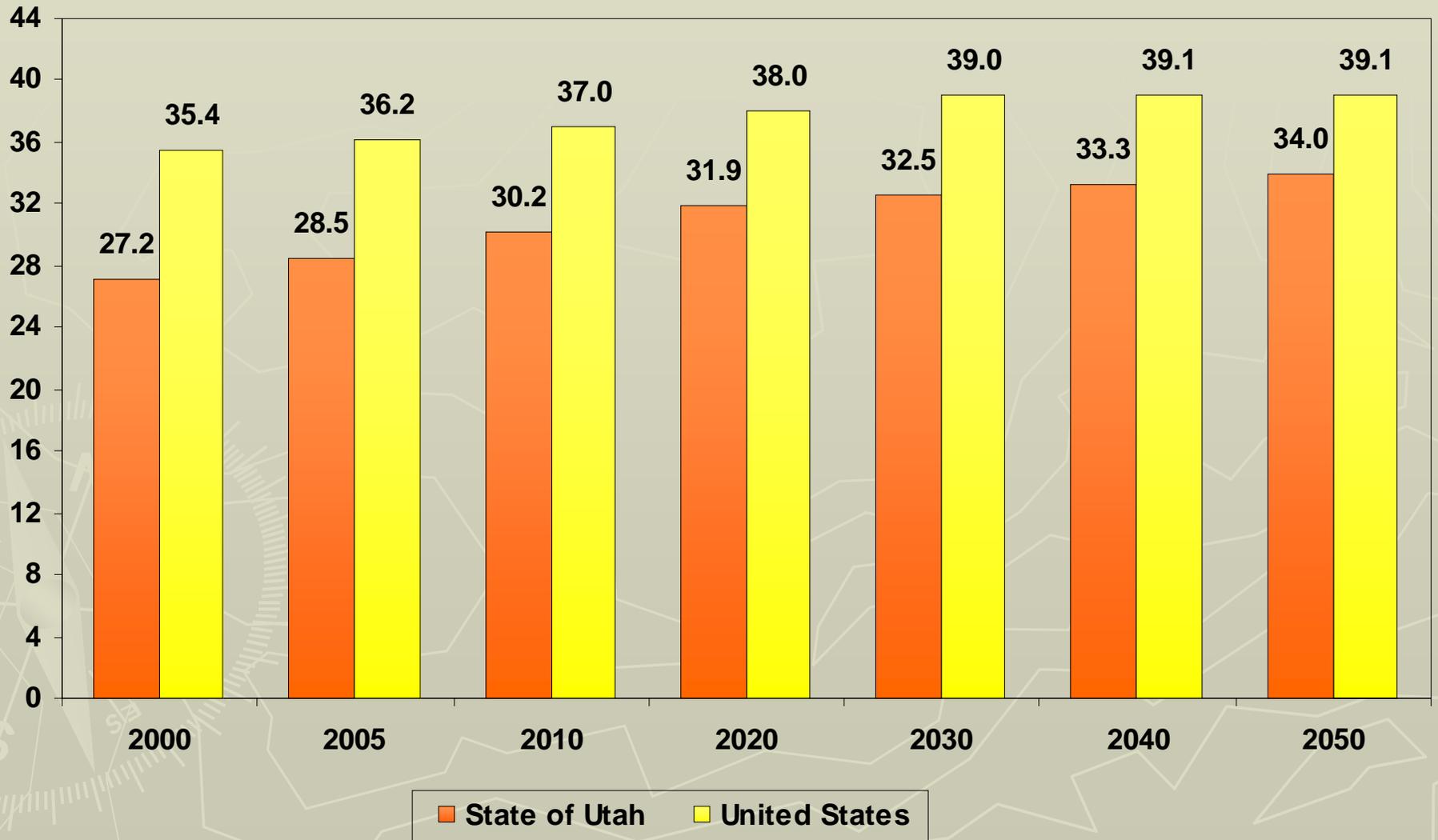
# Utah Population as a Percent of Total U.S. Population



# State of Utah Components of Population Change

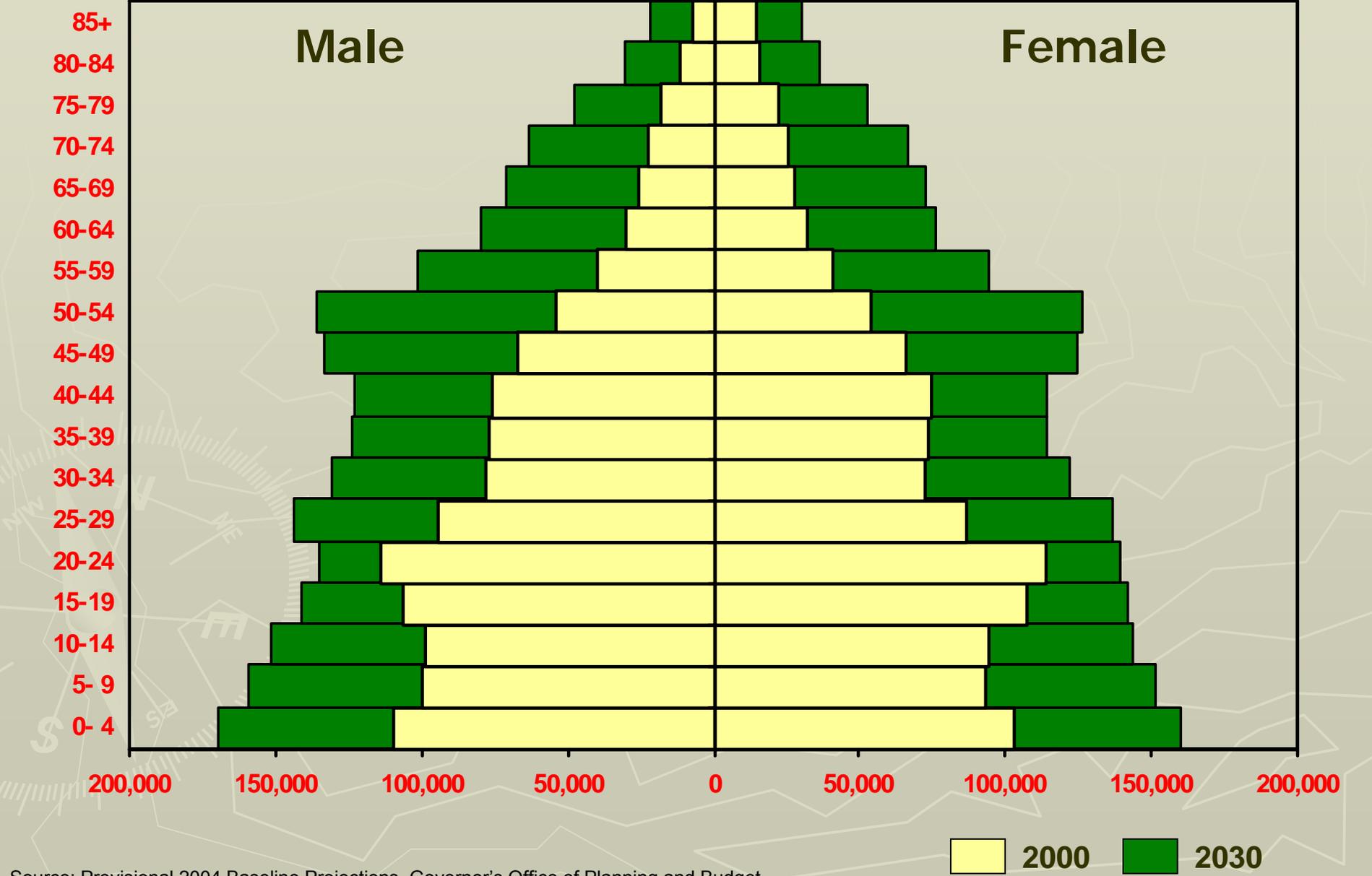


# Projected Median Age for Utah and the United States



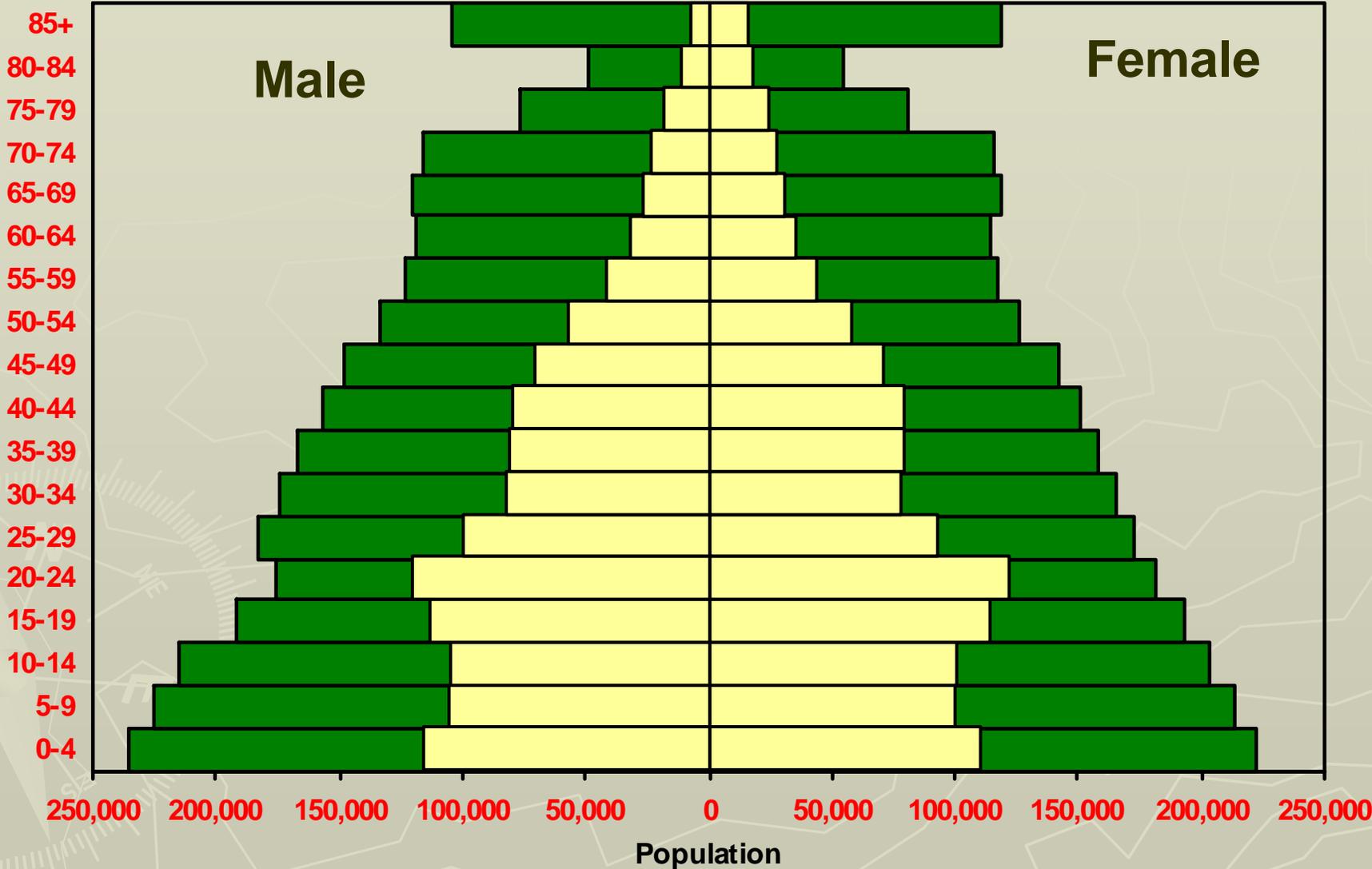
Source: 2005 Baseline Projections, GOPB

# Utah's Changing Age Structure



Source: Provisional 2004 Baseline Projections, Governor's Office of Planning and Budget

# Utah's Changing Age Structure



Source: 2005 Baseline Projections, GOPB.

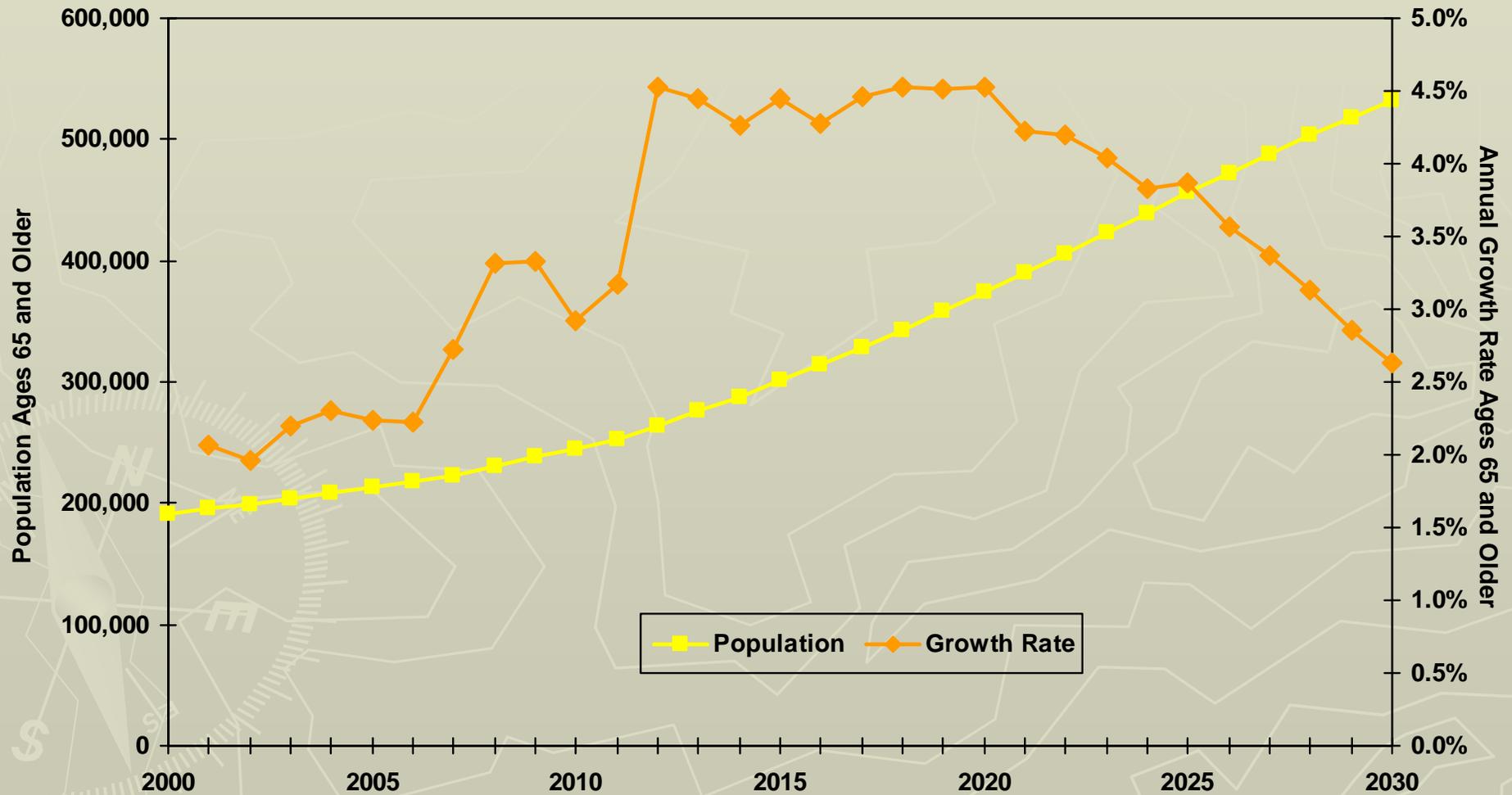
2000 2050

# Growth of School-Age Population: 2000 to 2030



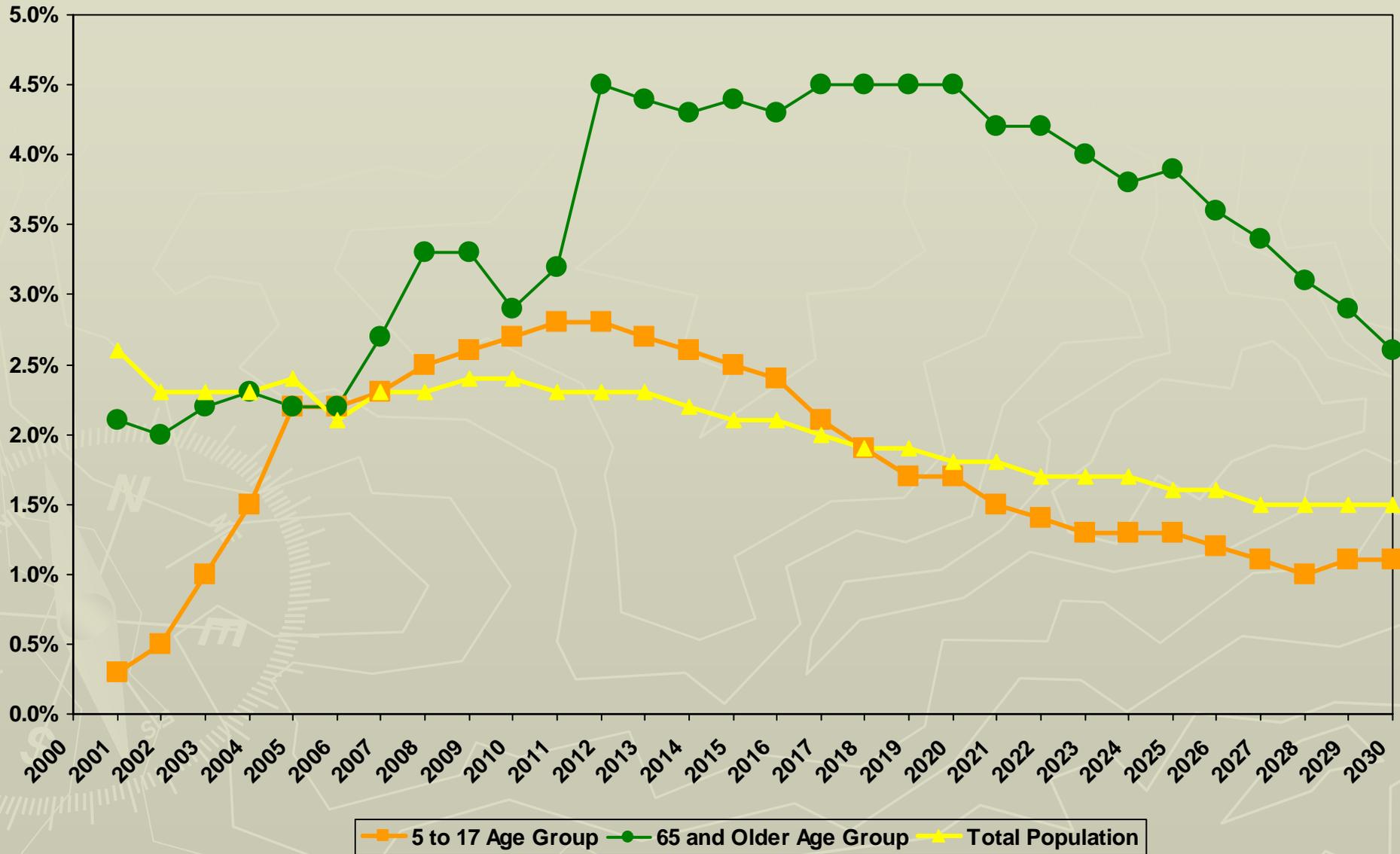
Source: 2005 Baseline Projections, GOPB.

# Growth of 65 and Older Age Group: 2000 to 2030



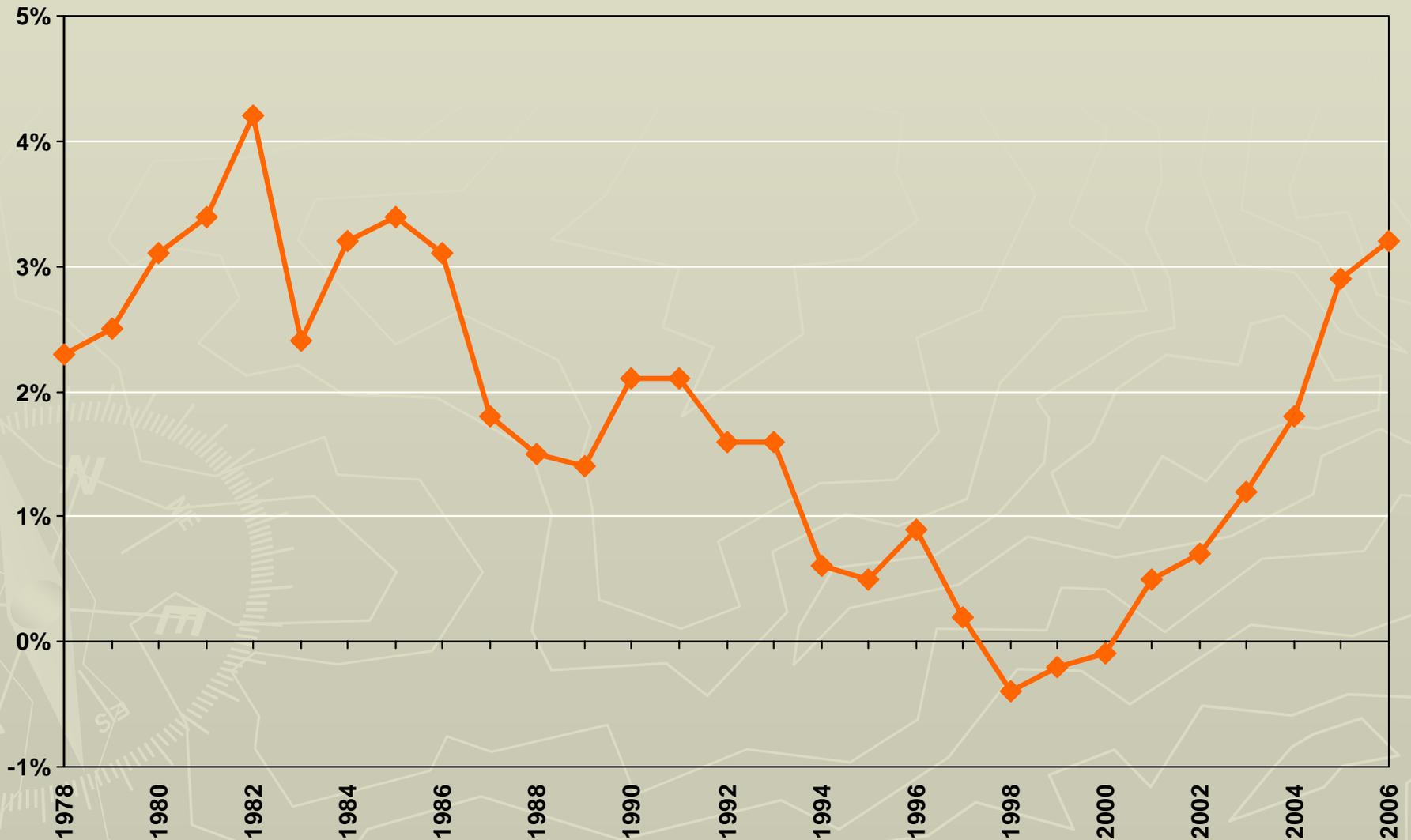
Source: 2005 Baseline Projections, GOPB.

# Age Group Growth Rate Comparison



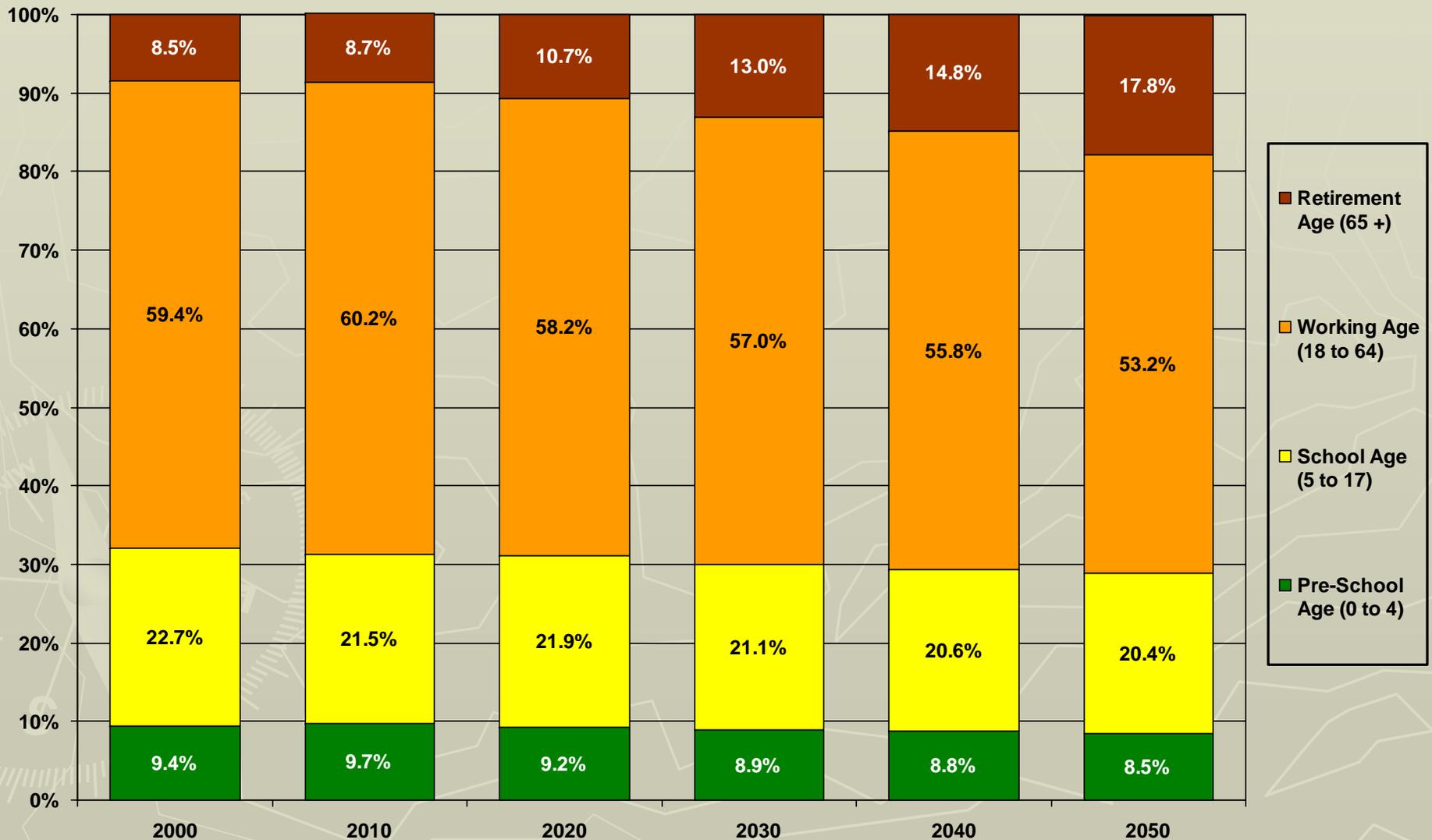
Source: 2005 Baseline Projections, GOPB.

# Utah Public School Enrollment Growth Accelerating

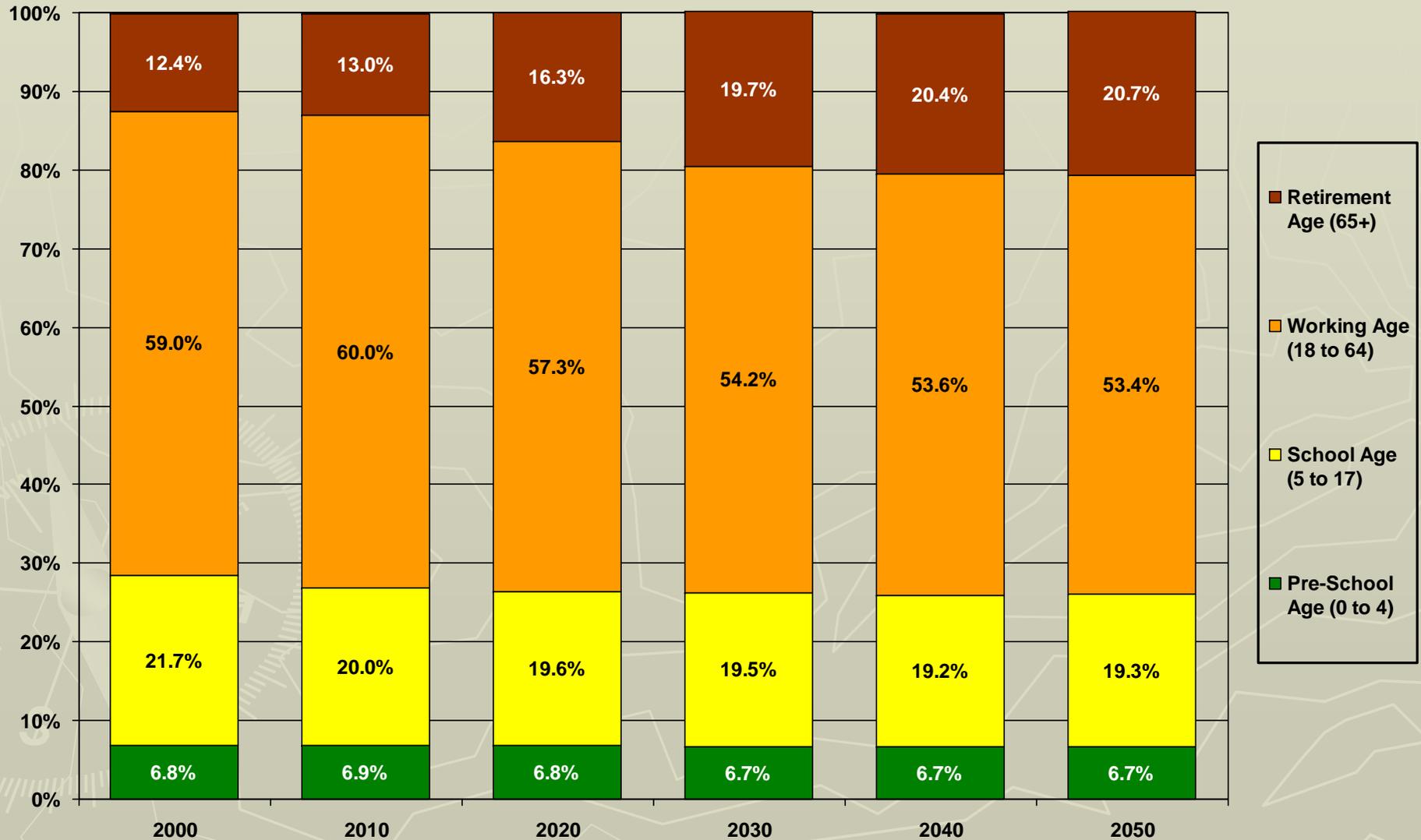


Source: State Office of Education, Finance and Statistics

# Utah Population Projections

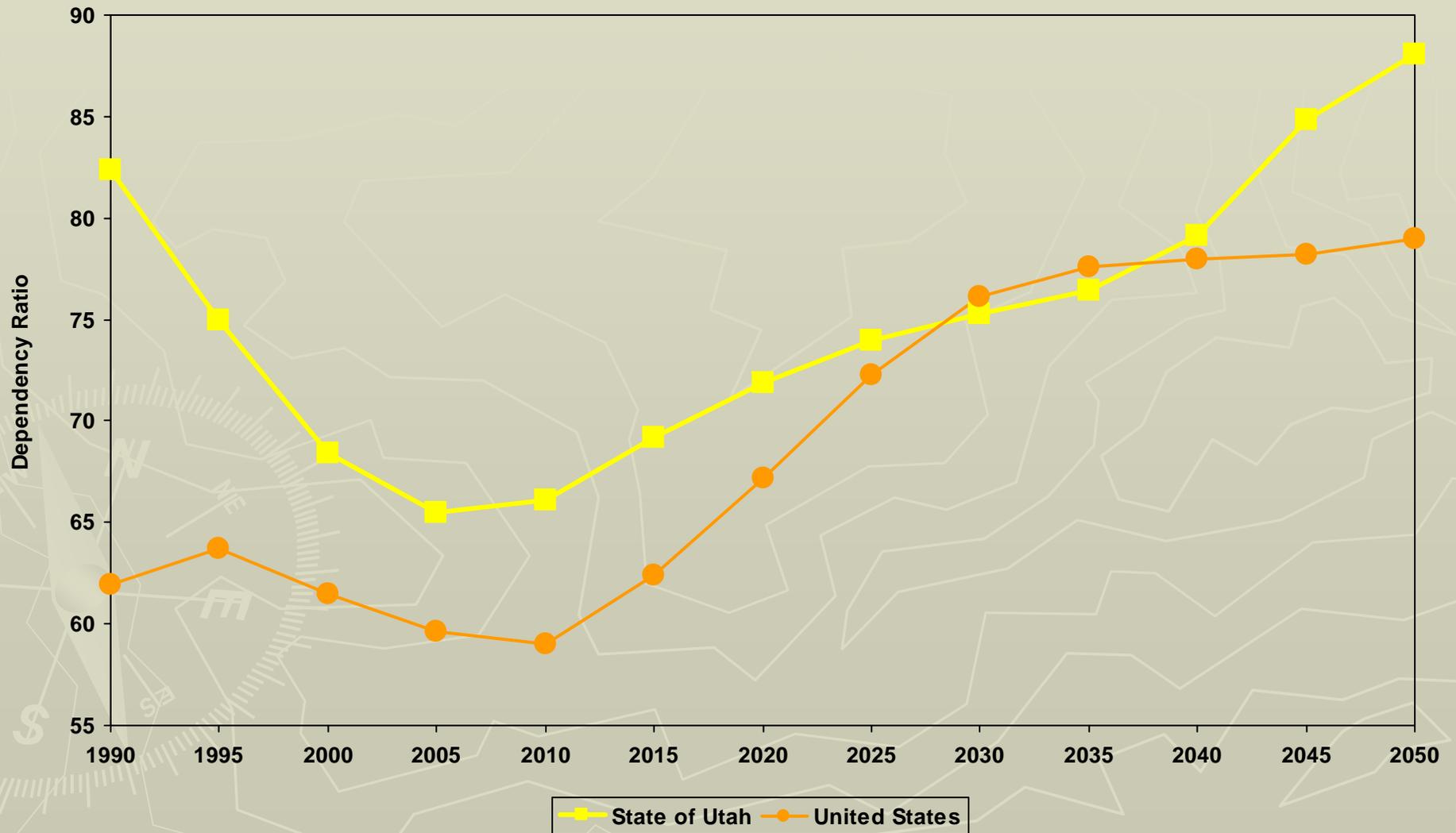


# U.S. Proportion of Population Projections



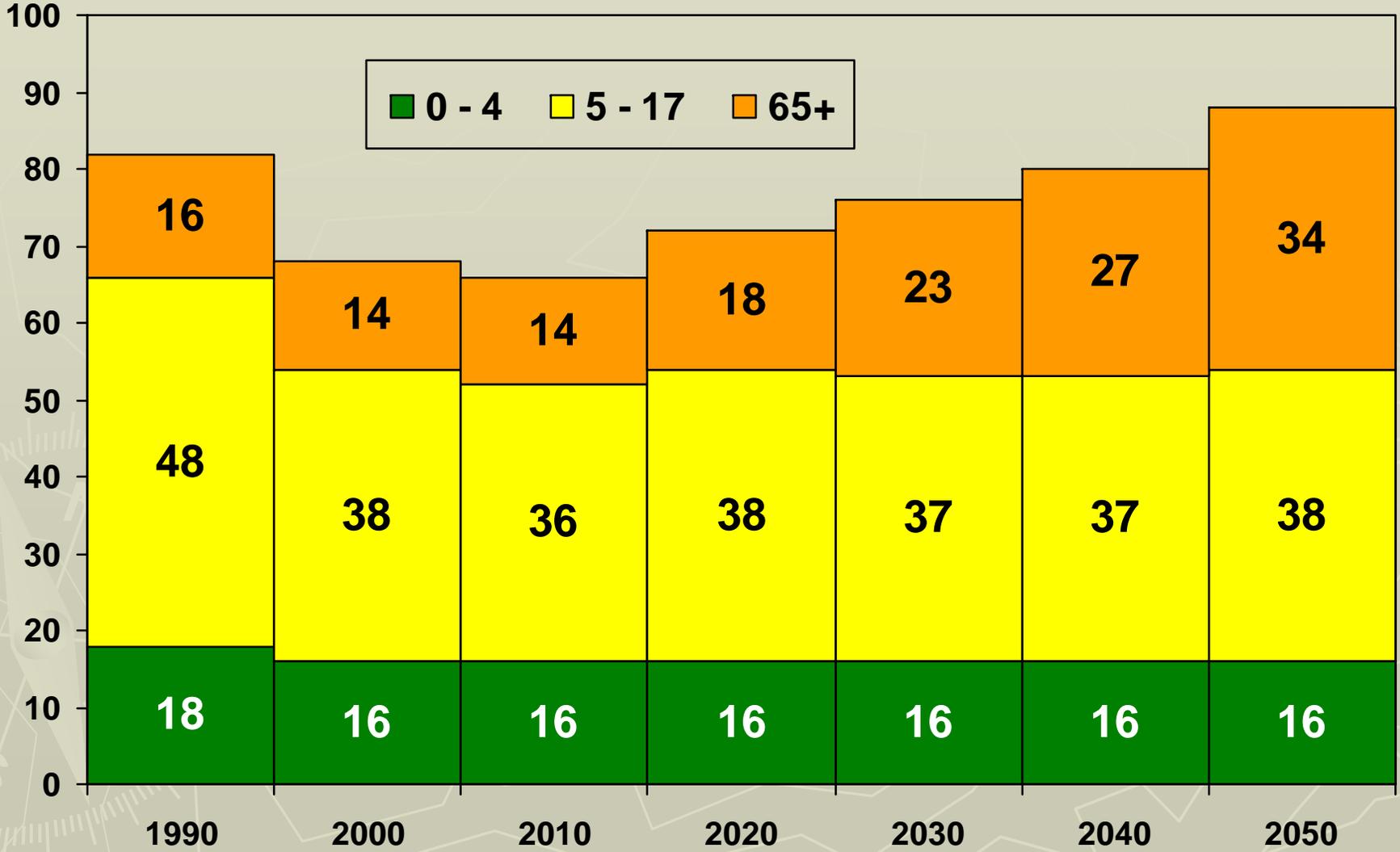
Source: U.S. Census Bureau

# Historical and Projected Dependency Ratios for Utah and the U.S.



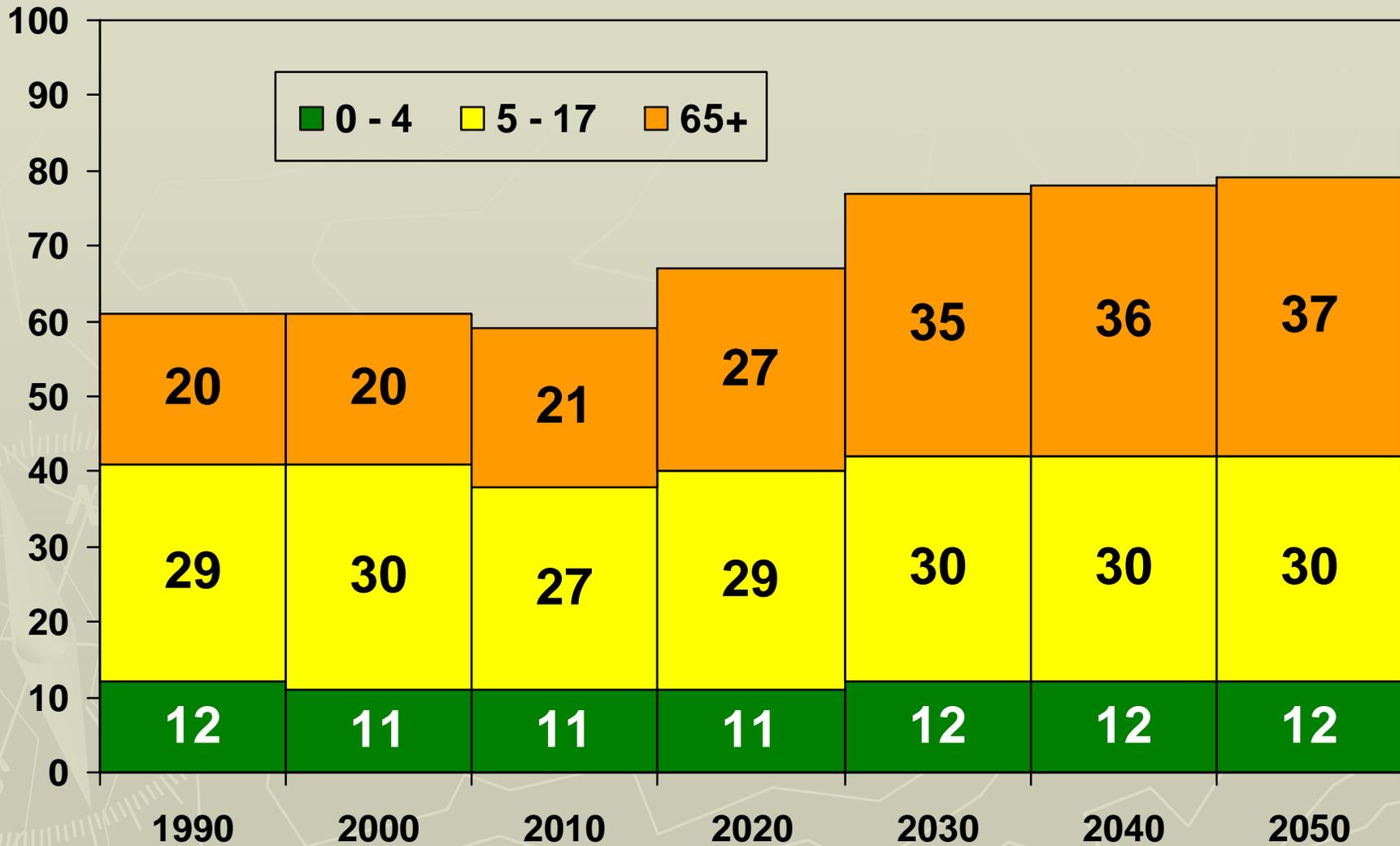
Source: 2005 Baseline Projections, GOPB.

# Utah Dependency Ratios: 1990 to 2050

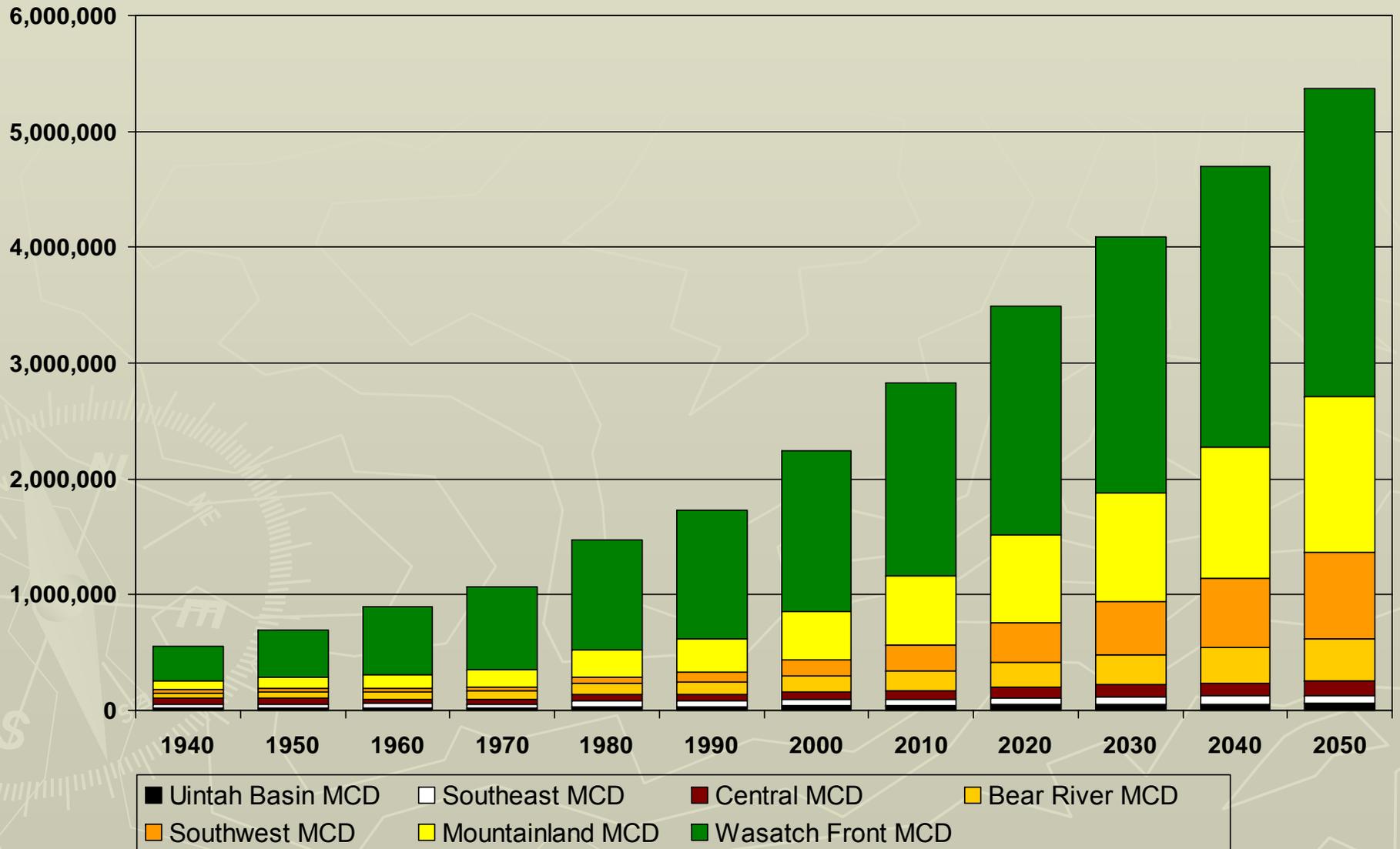


Source: 2005 Baseline Projections, GOPB.

# U.S. Dependency Ratios: 1990 to 2050

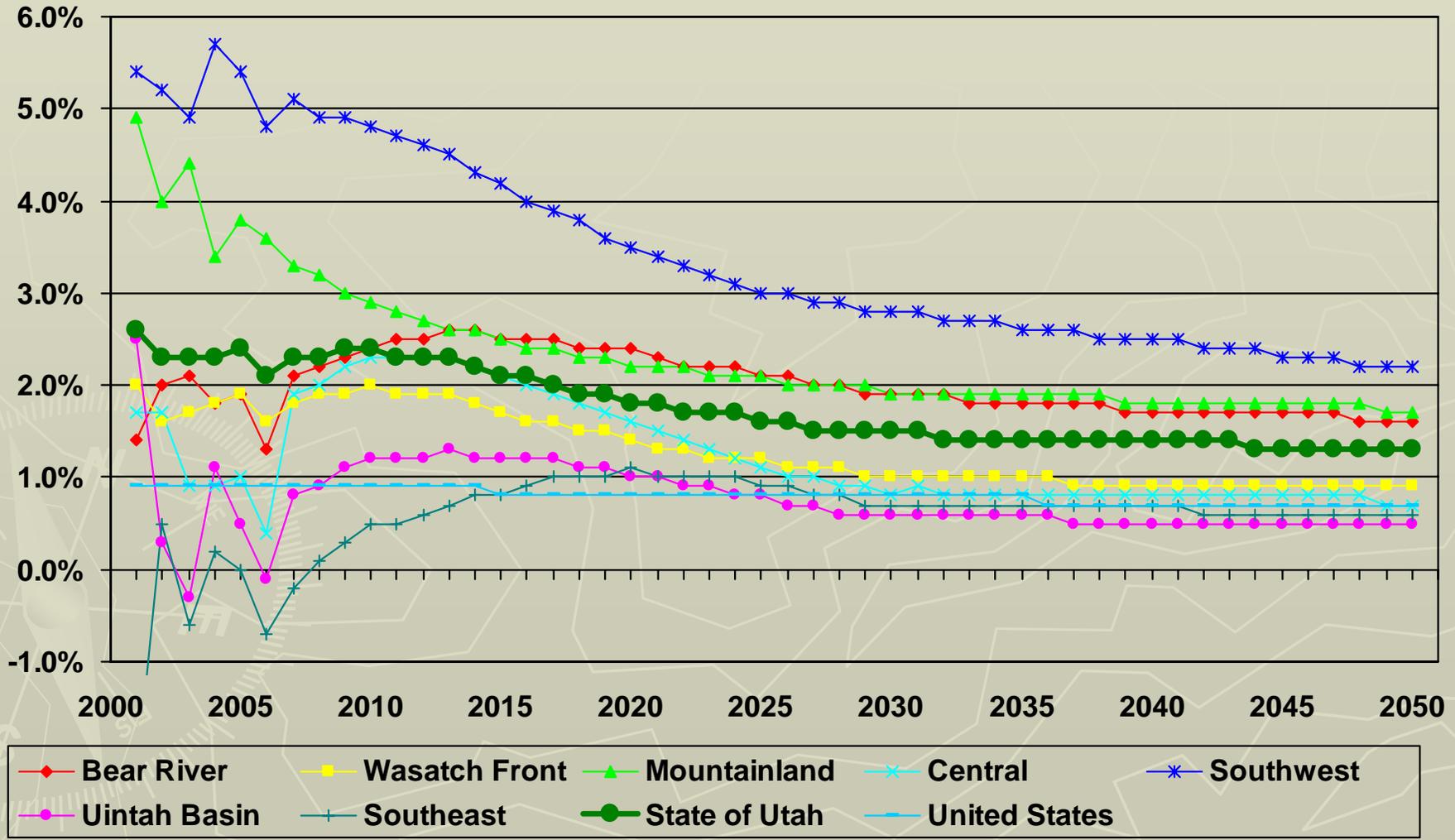


# Population by Multi-County District: 1940 to 2030



Source: 2005 Baseline Projections, GOPB

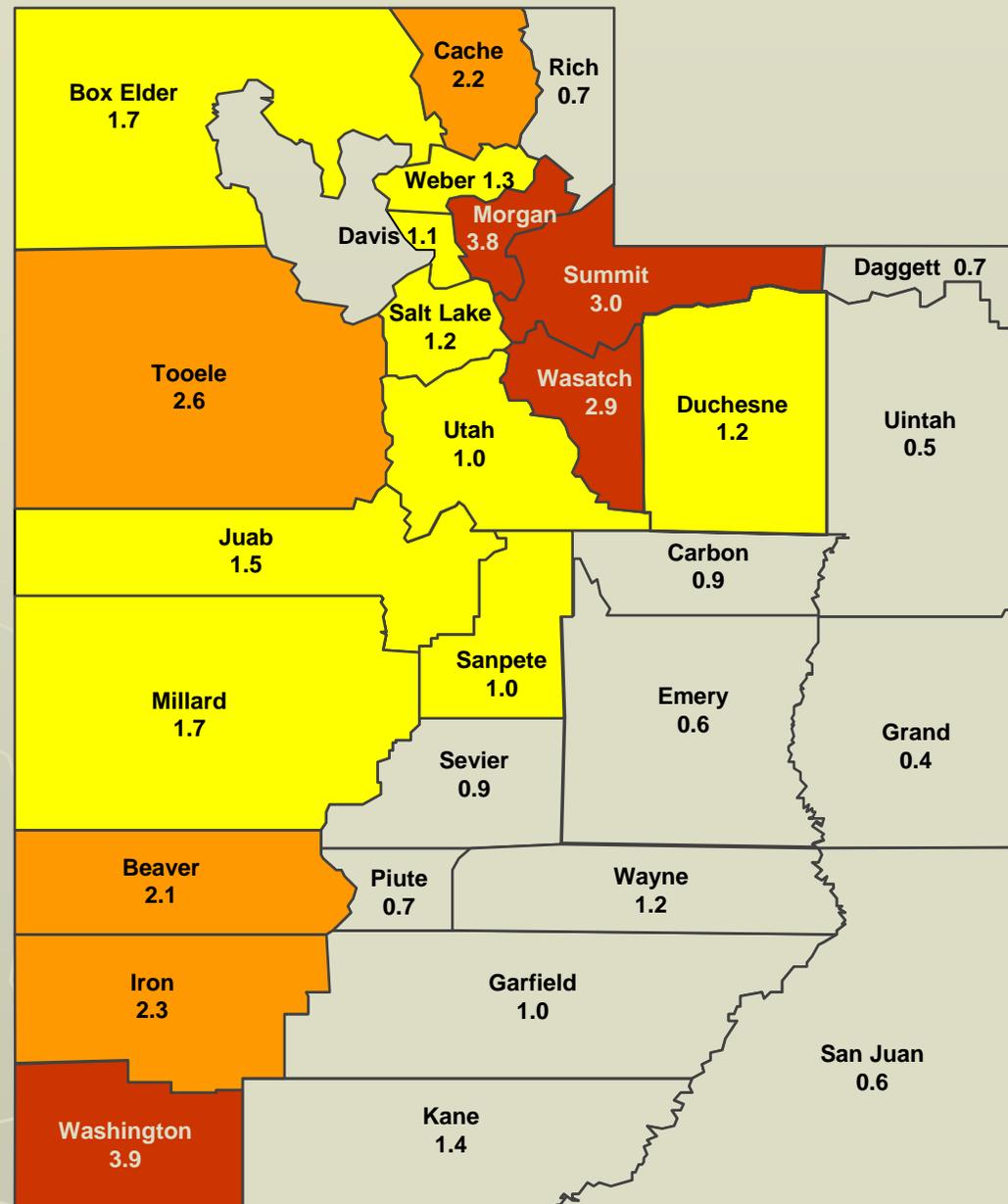
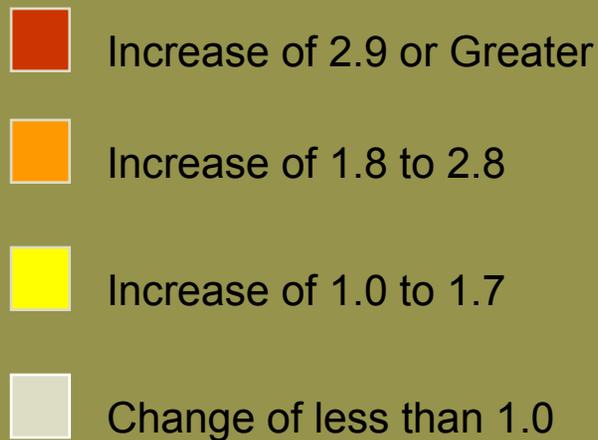
# Population Growth Rates by Multi-County District: 2000 to 2050



Source: Provisional 2004 Baseline Projections, Governor's Office of Planning and Budget

# Utah Population Annual Average Growth Rates By County 2000 to 2050

State Average = 1.8%



# Summary

- ▶ Utah has higher rates of economic and population growth than the nation.
- ▶ While Utah is becoming more like the nation, it will continue to have unique demographic characteristics that set it apart.
- ▶ Utah's population composition is aging, with large growth rates projected for the retirement age population
- ▶ Because of a strong and vibrant economy, with proper planning Utah will be able to deal with this growth

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