

# Local Employment Dynamics Data

Tracking the economy through boom, bust and recovery





# Why Use LED Data?

1. Available for smaller regions.
2. Employment indicators important.
3. Greater understanding of economy.
4. Demographics of employment.
5. Time series data.
6. Data extraction tool makes it easy.



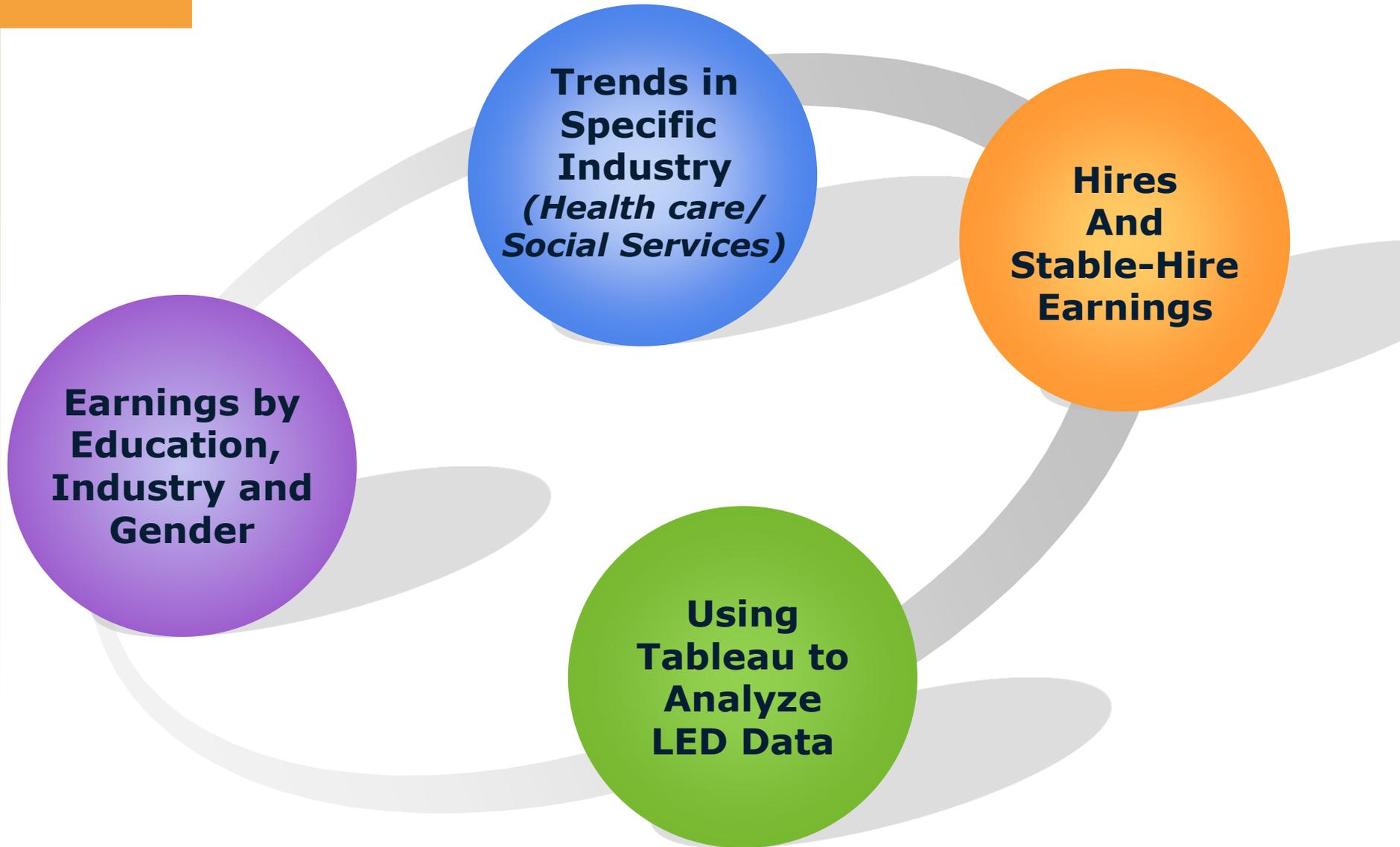
# Why Use LED Data?

**7. Inform private-sector decisions.**

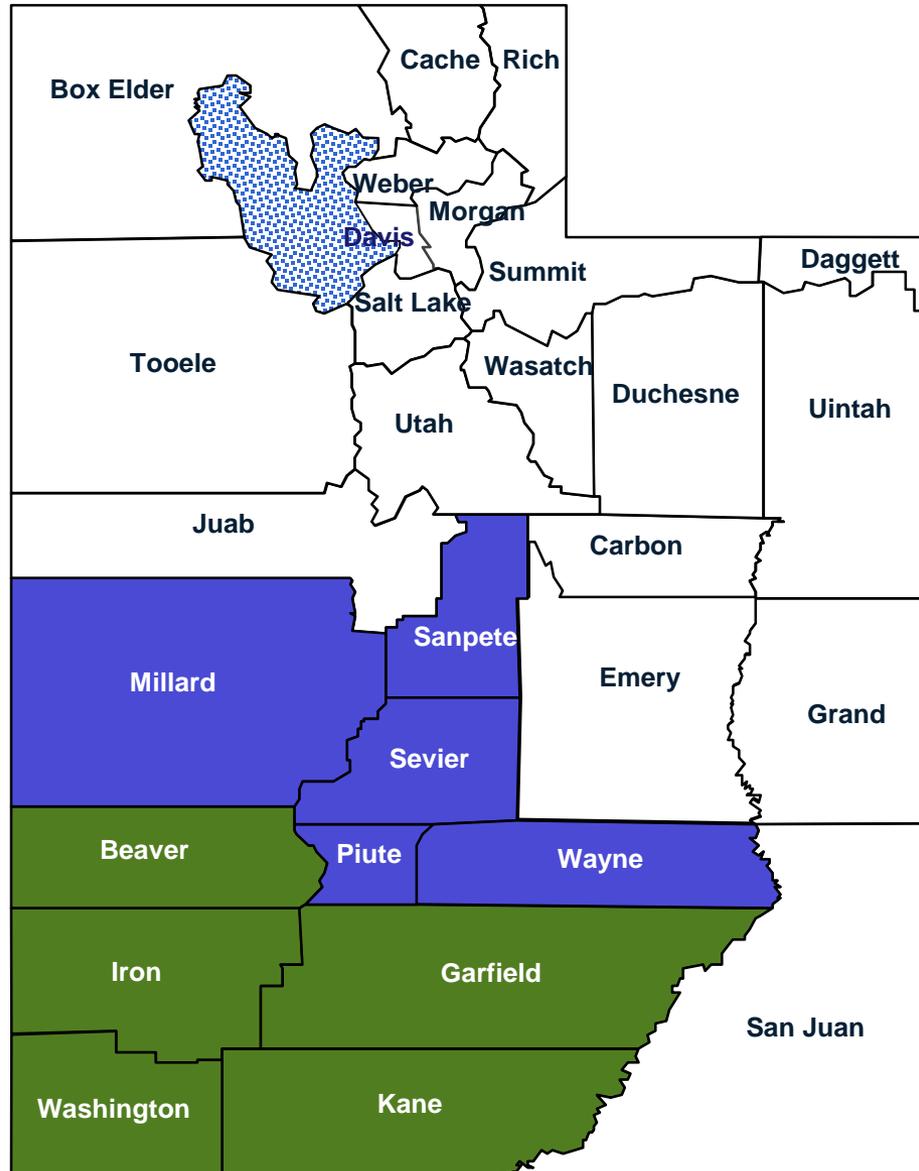
**8. Efficiently allocate public resources.**



# Types of LED Research



# Where in the world is ...?



**Central  
Workforce  
Investment  
Area**

**Southwest  
Workforce  
Investment  
Area**

# Earnings

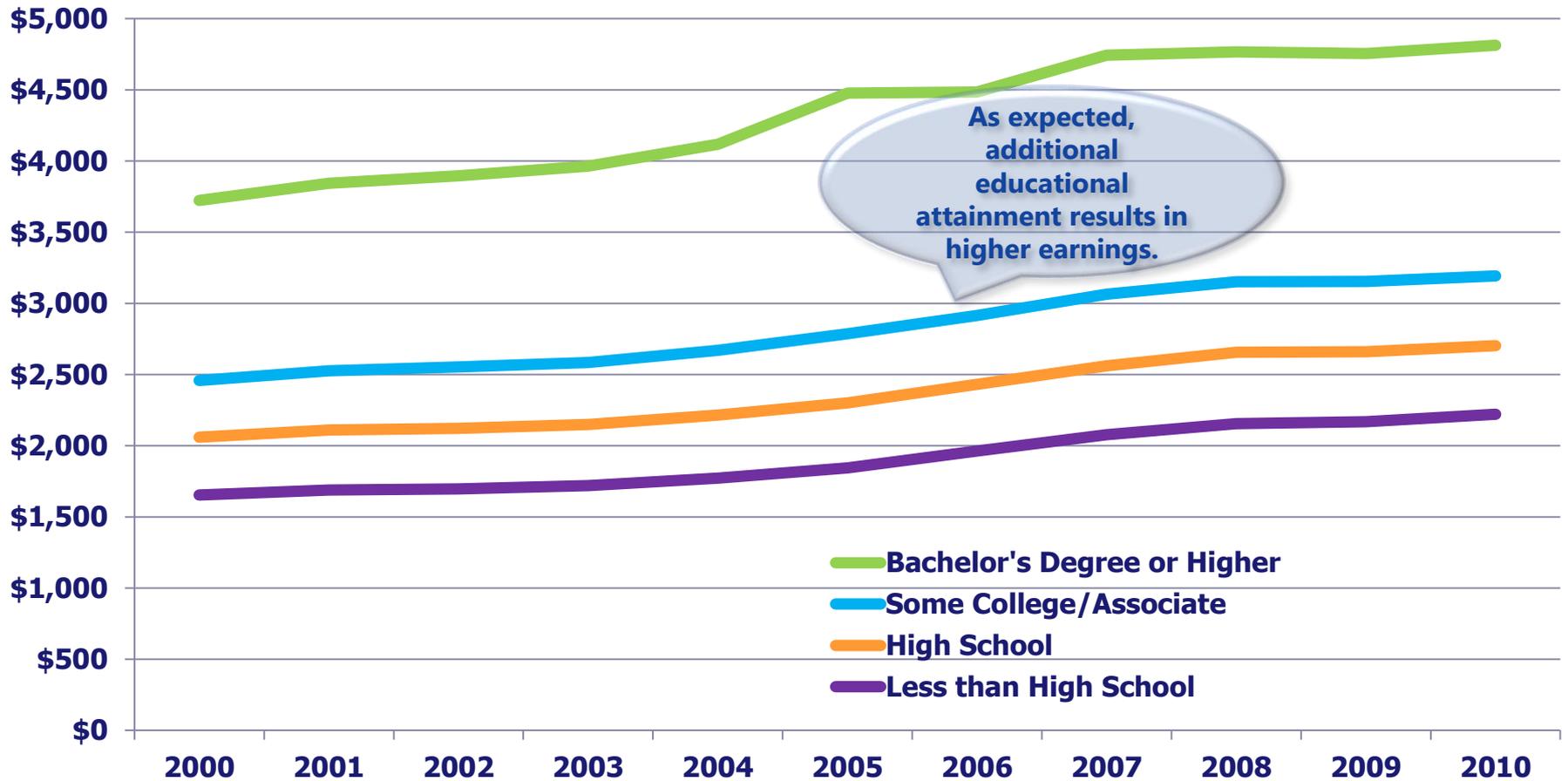
**Education, Industry, Gender**





# Earnings by Education

## Utah Average Monthly Wage by Worker Education\*



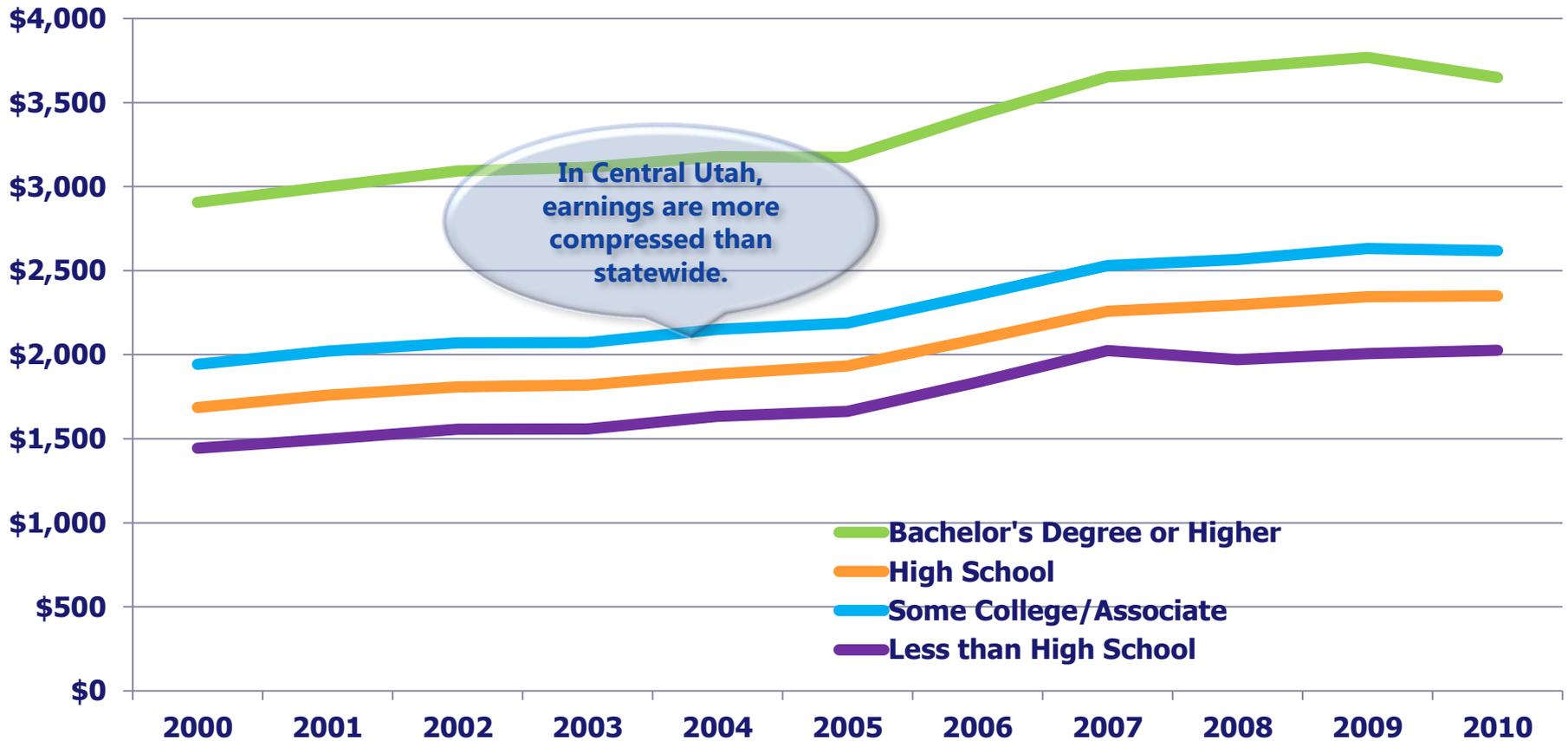
\*Workers 25 and older only.

Source: U.S. Census Bureau; Local Employment Dynamics program.



# Earnings by Education

## Central Utah Average Monthly Wage by Worker Education\*



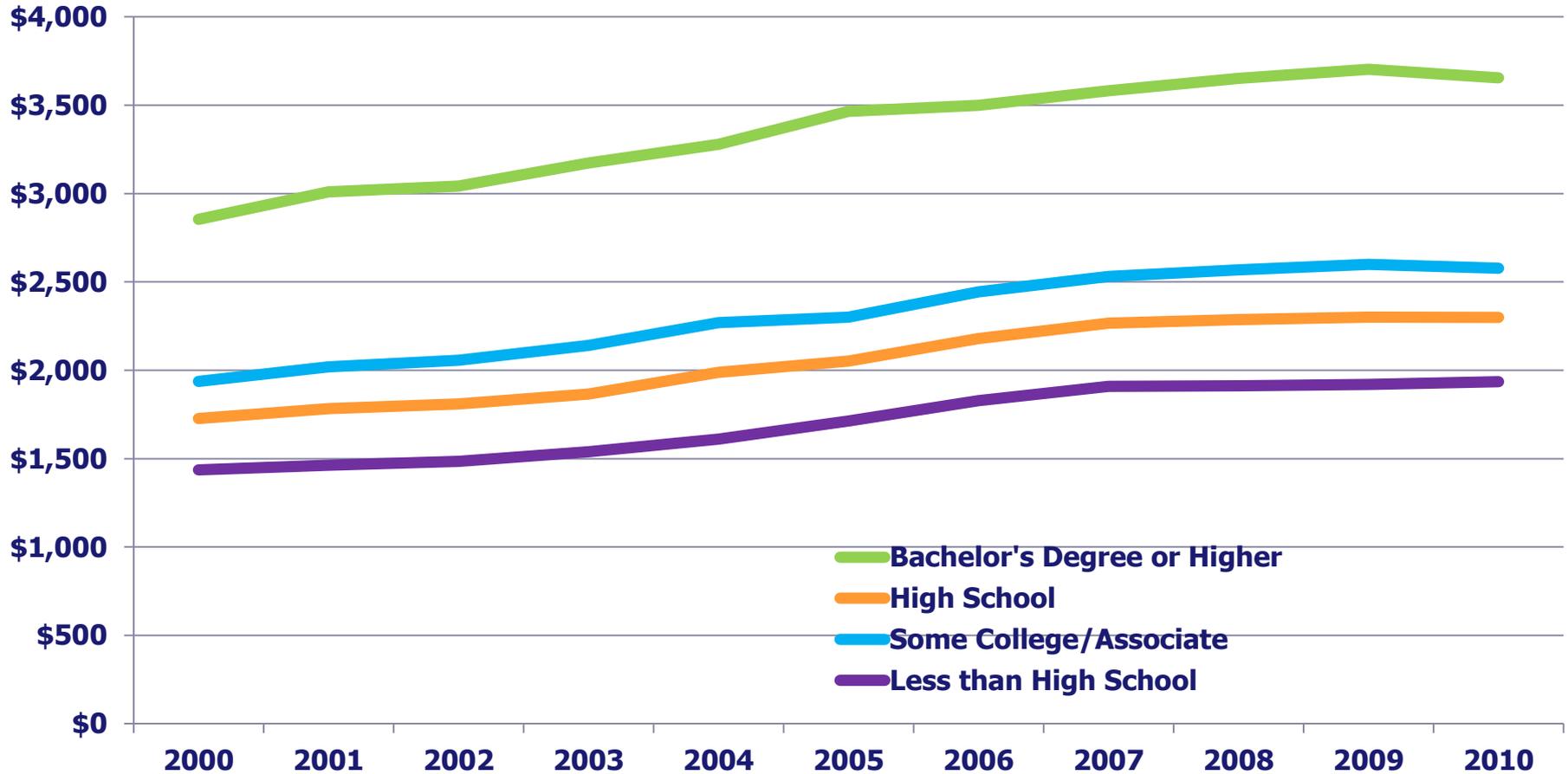
\*Workers 25 and older only.

Source: U.S. Census Bureau; Local Employment Dynamics program.



# Earnings by Education

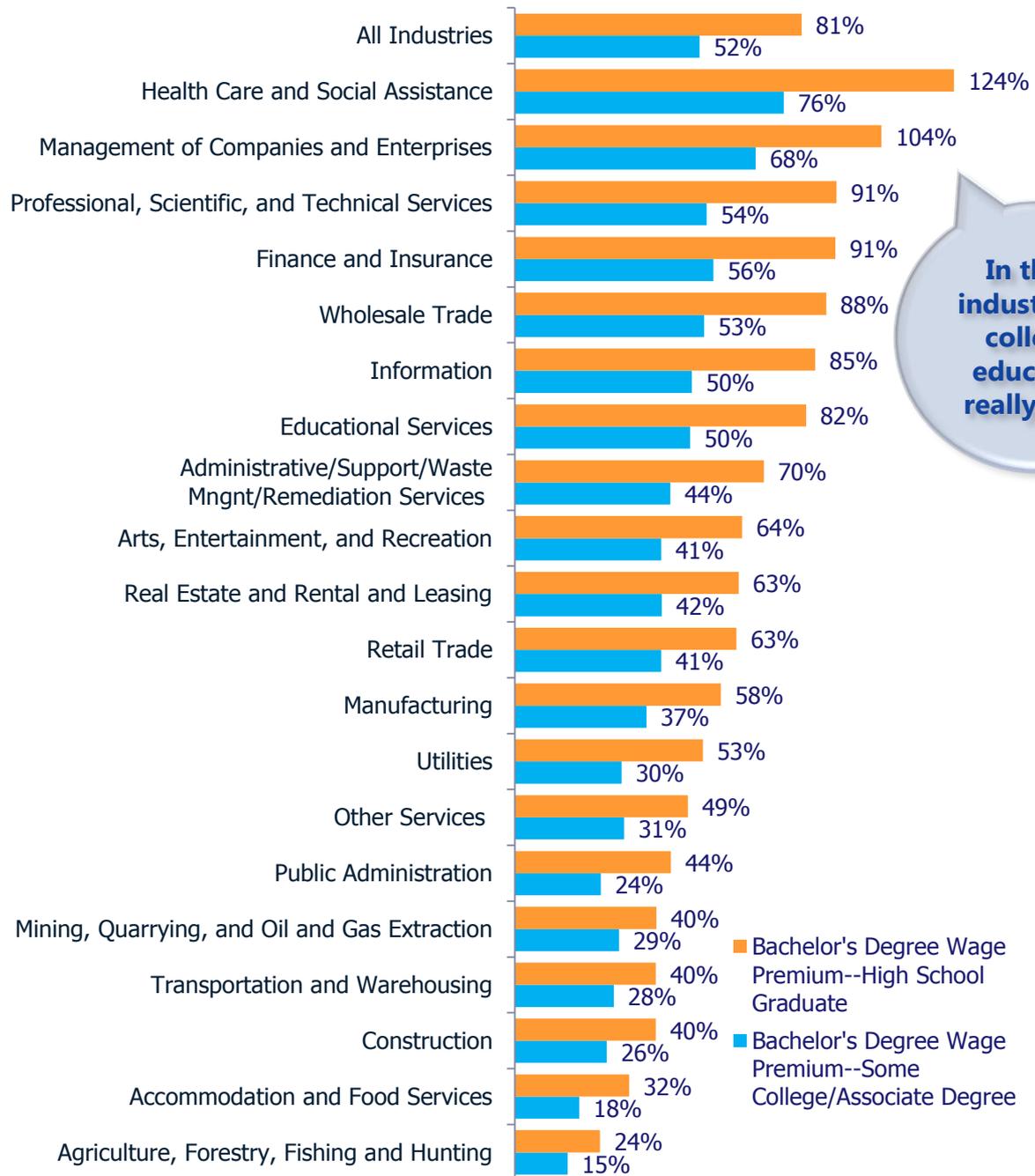
## Southwest Utah Average Monthly Wage by Worker Education\*



\*Workers 25 and older only.

Source: U.S. Census Bureau; Local Employment Dynamics program.

# Utah Bachelor's-Degree-or-Higher Wage Premium compared to Wages of Workers with Other Educational Levels\* 2006-2010 Average

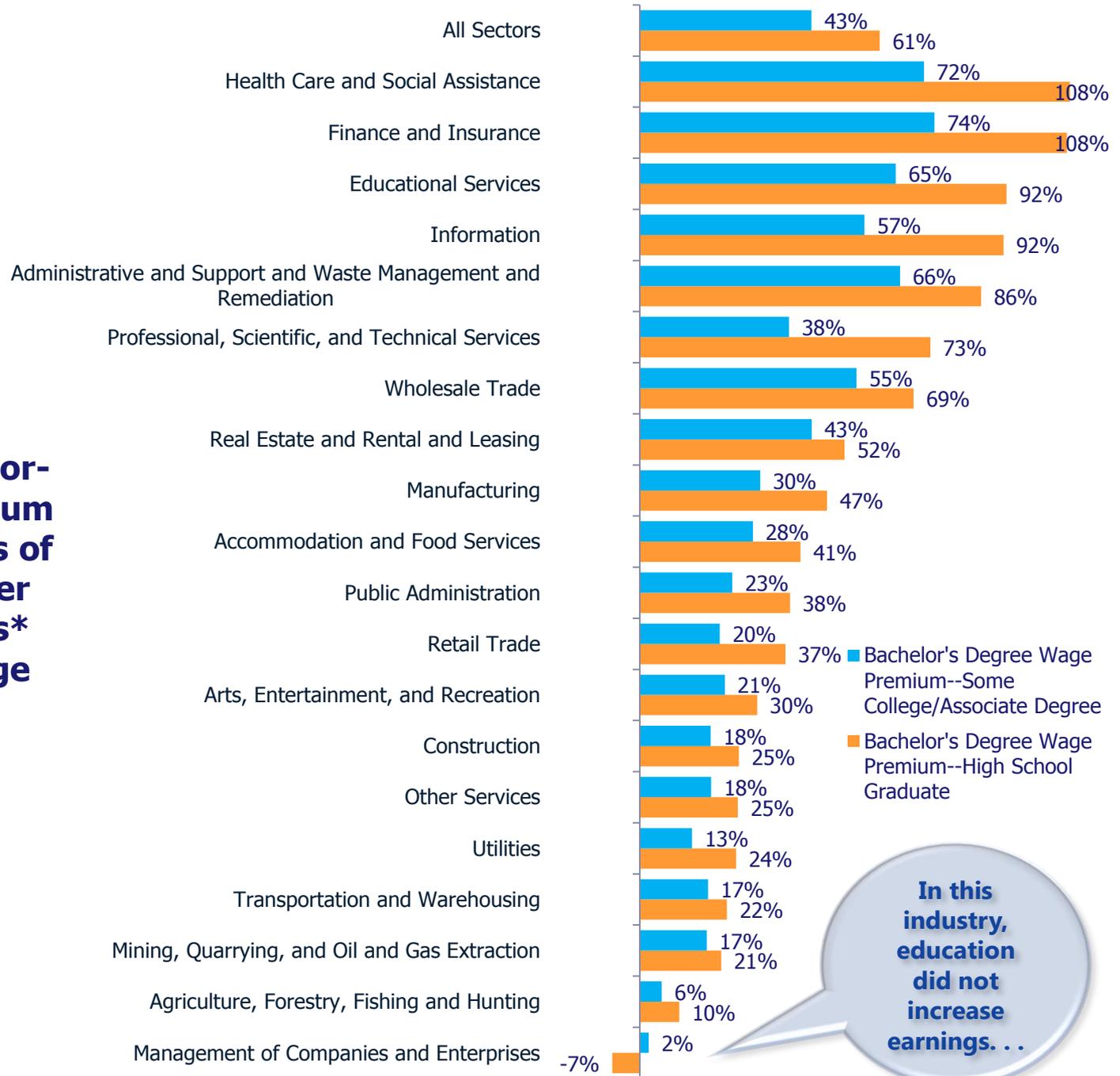


**In these industries, a college-education really pays.**

■ Bachelor's Degree Wage Premium--High School Graduate  
■ Bachelor's Degree Wage Premium--Some College/Associate Degree

\*Workers 25 and older only.  
Source: U.S. Census Bureau; Local Employment Dynamics program.

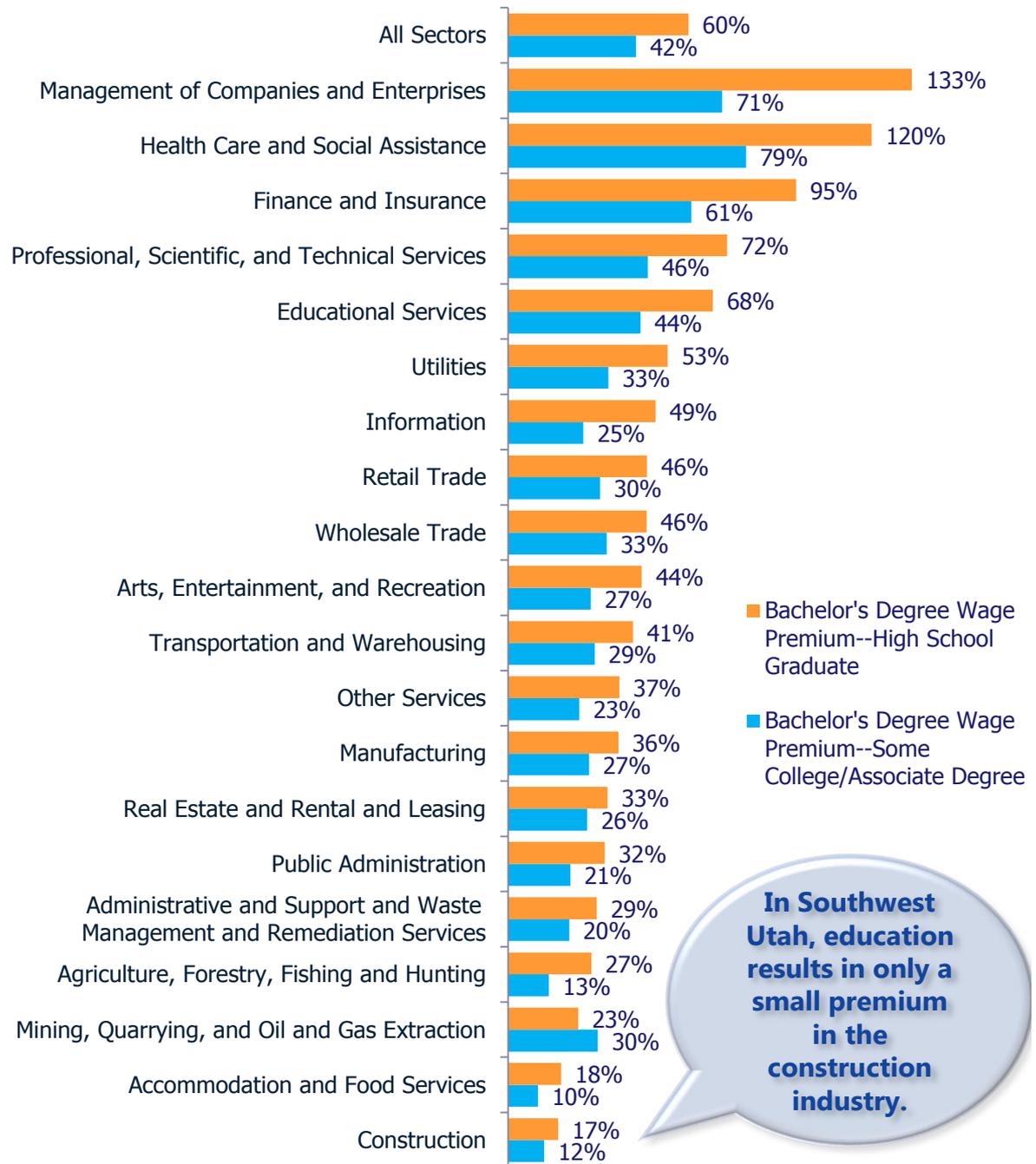
# Central Utah Bachelor's-Degree-or- Higher Wage Premium compared to Wages of Workers with Other Educational Levels\* 2006-2010 Average



**In this industry, education did not increase earnings. . .**

\*Workers 25 and older only.  
Source: U.S. Census Bureau; Local Employment Dynamics program.

# Southwest Utah Bachelor's-Degree-or- Higher Wage Premium compared to Wages of Workers with Other Educational Levels\* 2006-2010 Average

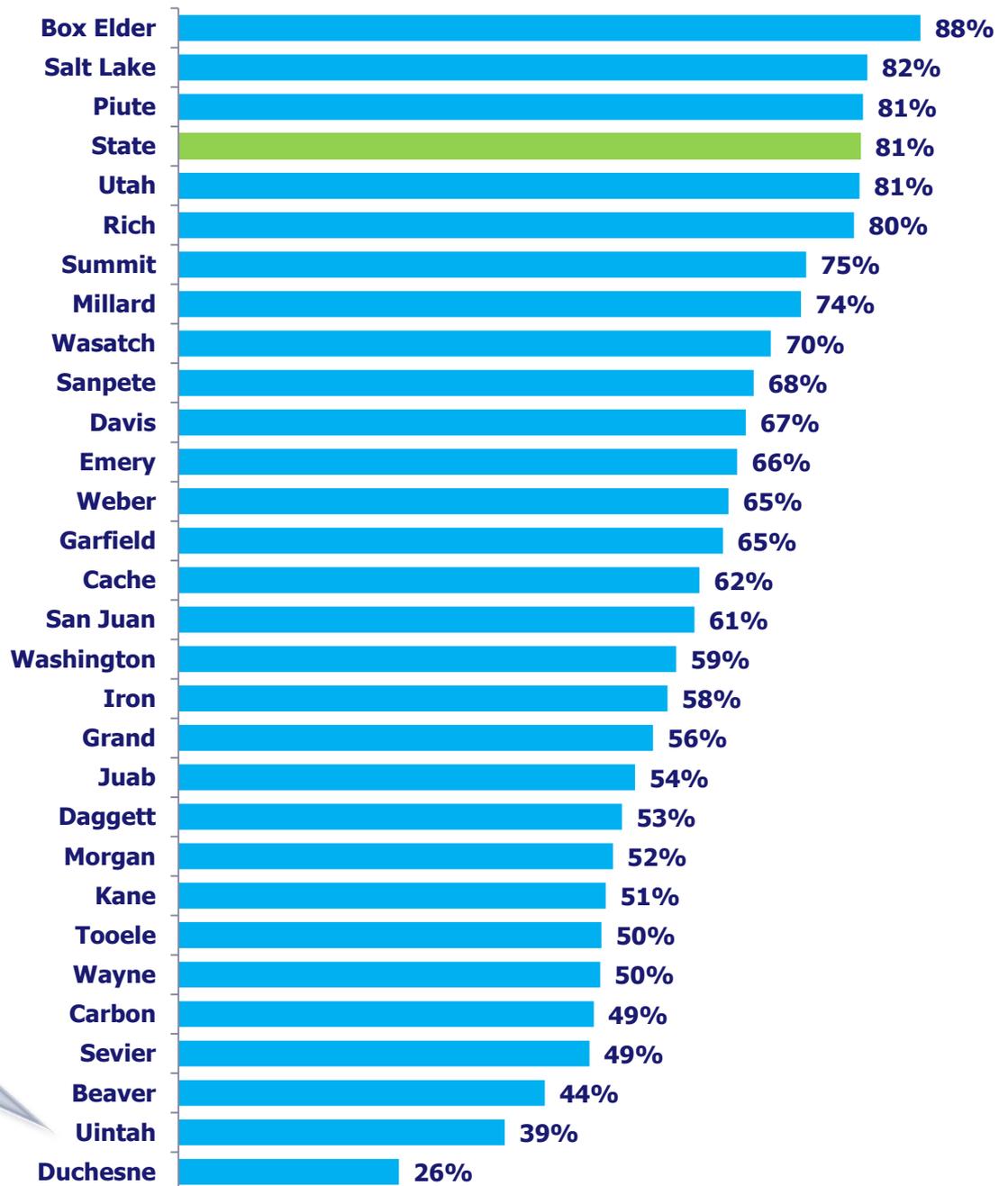


**In Southwest Utah, education results in only a small premium in the construction industry.**

\*Workers 25 and older only.

Source: U.S. Census Bureau; Local Employment Dynamics program.

# Utah County-Level Bachelor's-Degree-or-Higher Wage Premium compared to Wages of Workers with High School Education\* 2006-2010 Average

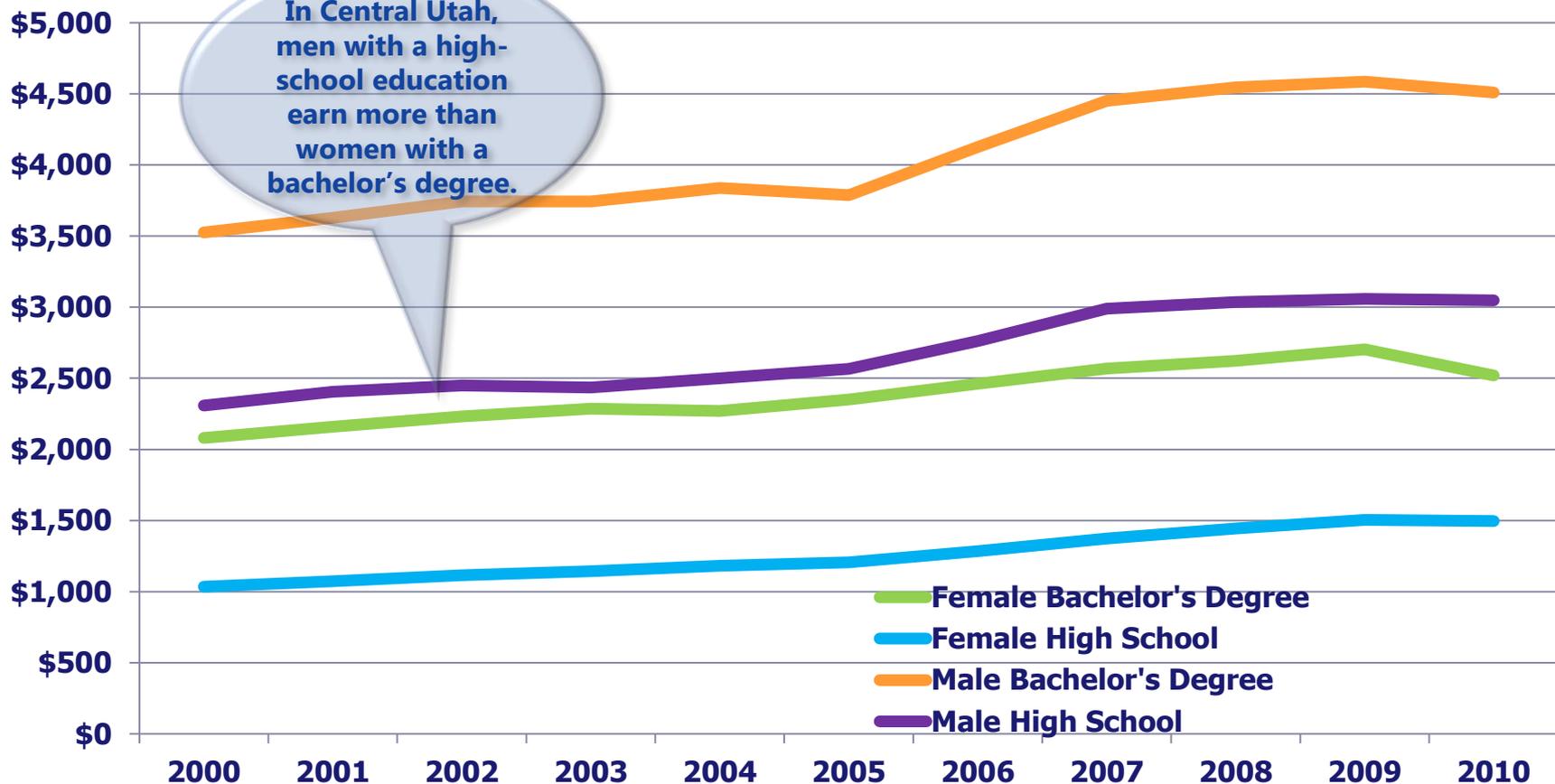


Location matters. Two counties with high levels of oil/gas industry employment

\*Workers 25 and older only.  
Source: U.S. Census Bureau; Local Employment Dynamics program.

# Earnings by Education and Gender

## Central Utah Average Monthly Wage by Gender and Education Level\*

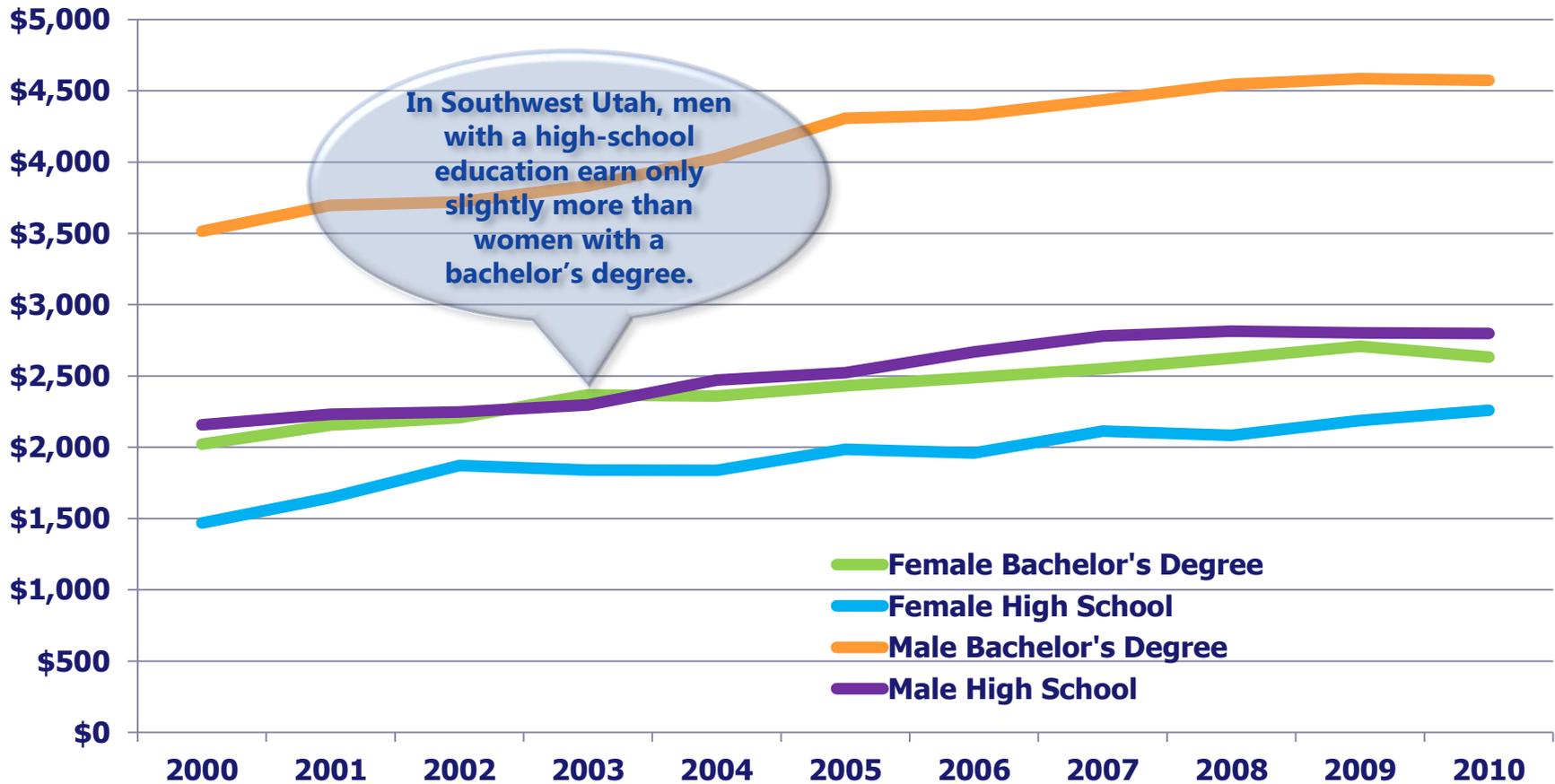


\*Workers 25 and older only.

Source: U.S. Census Bureau; Local Employment Dynamics program.

# Earnings by Education and Gender

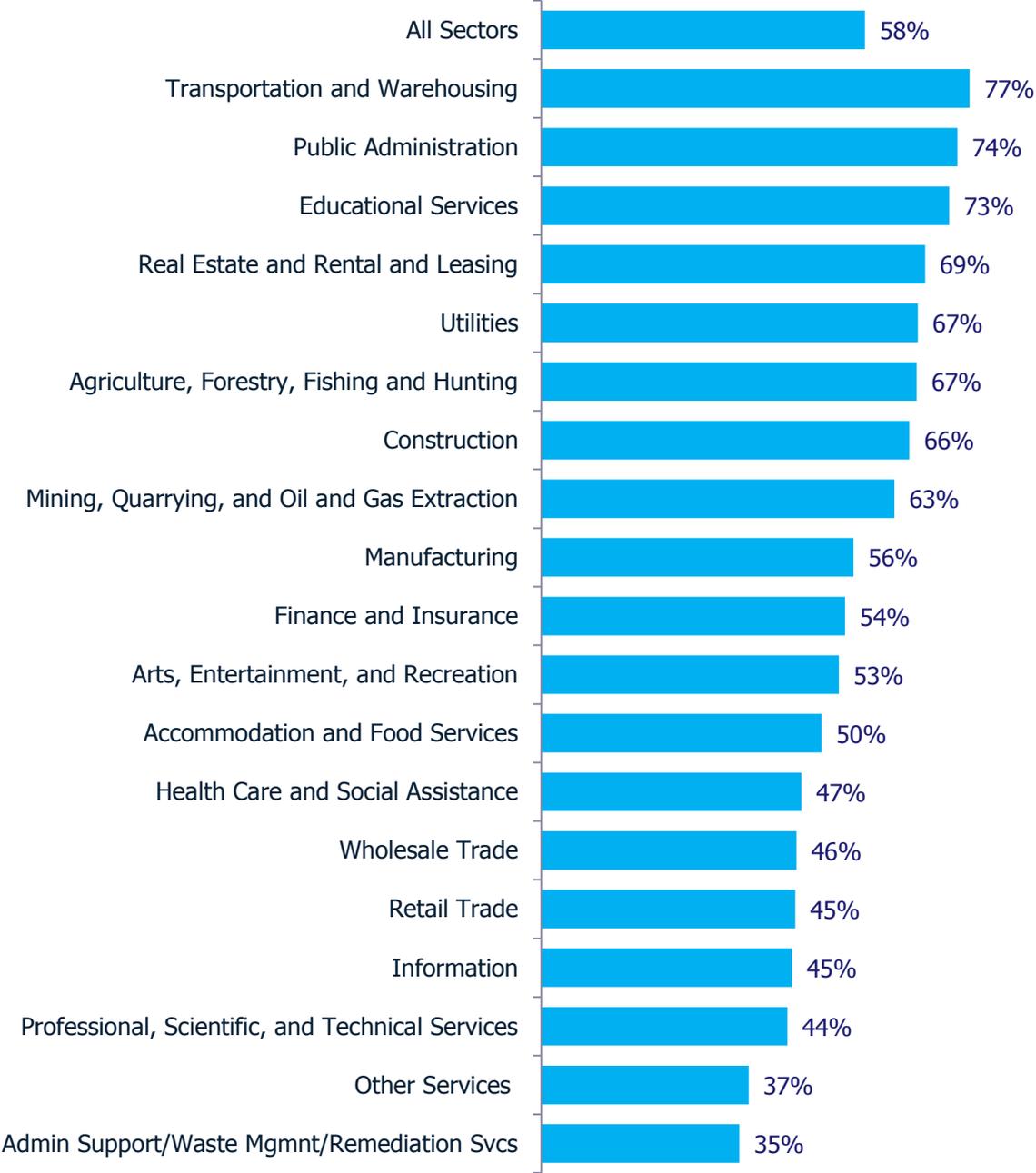
## Southwest Utah Average Monthly Wage by Gender and Education Level\*



\*Workers 25 and older only.

Source: U.S. Census Bureau; Local Employment Dynamics program.

**Central Utah Degreed  
Female Average  
Monthly Wage as a  
Percentage of  
Degreed Male Average  
Monthly Wage\*  
2006-2010**



\*Workers 25 and older only.  
Source: U.S. Census Bureau; Local Employment Dynamics program.

**In Southwest Utah, the public sector offers the best wage parity for men and women with a bachelor's degree or higher.**

**Southwest Utah  
Degreed Female  
Average Monthly  
Wage as a Percentage  
of Degreed Male  
Average Monthly  
Wage\*  
2006-2010**



\*Workers 25 and older only.

Source: U.S. Census Bureau; Local Employment Dynamics program.

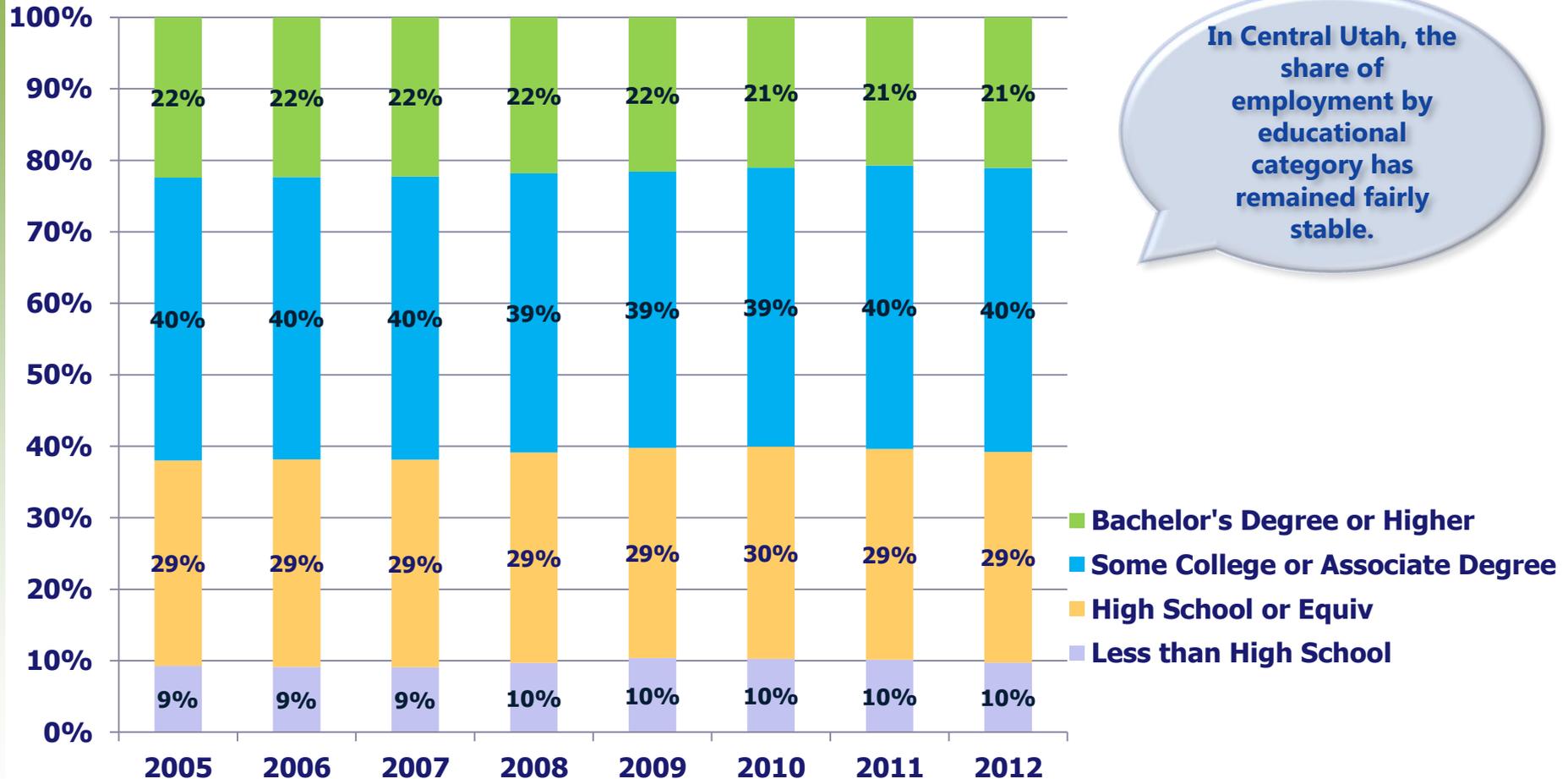
# Specific Industry

## Educational Levels



# Trends in Health care/Social Services

## Central Area Health Care/Social Assistance Share of Employment by Educational Level\*



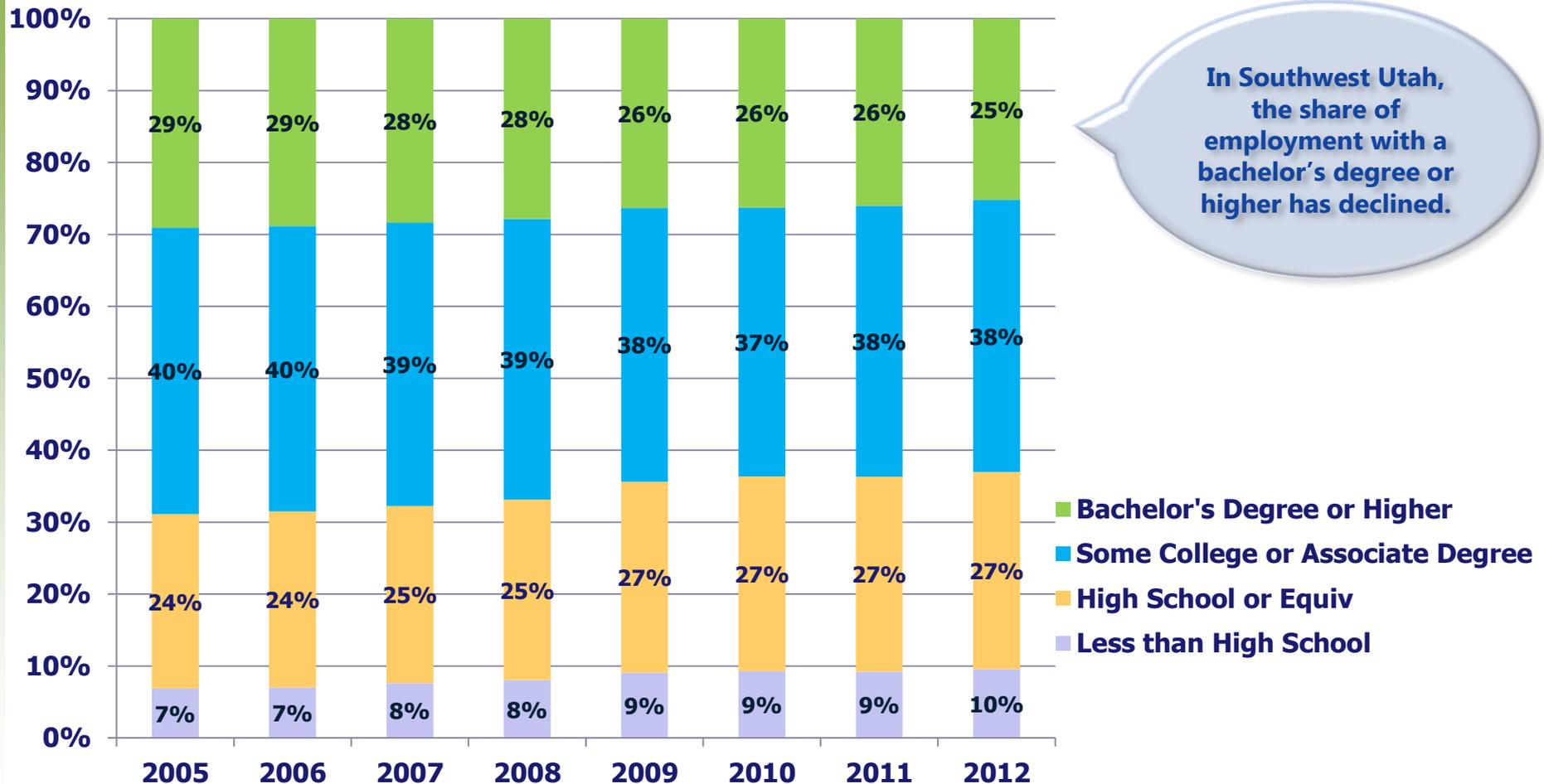
In Central Utah, the share of employment by educational category has remained fairly stable.

\* Workers 25 and older.

Source: U.S. Census Bureau; Local Employment Dynamics.

# Trends in Health care/Social Services

## Southwest Health Care/Social Assistance Employment by Educational Level\*



\* Workers 25 and older.

Source: U.S. Census Bureau; Local Employment Dynamics.

# Examining Hires

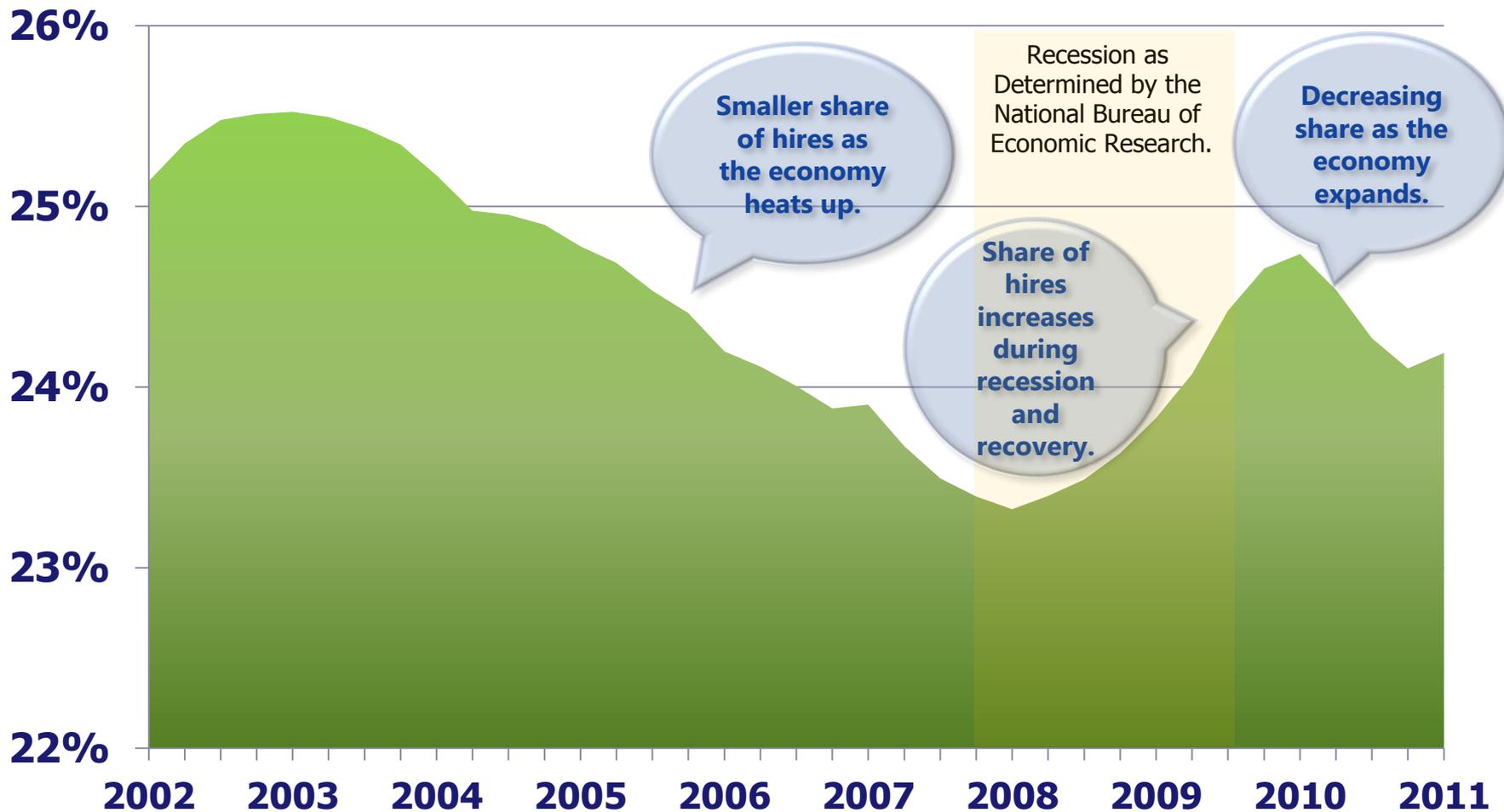
**Boom to Bust to Recovery**





# Hires—Boom to Recession to Recovery

## Utah Share of New Hires\* with a Bachelor's Degree or Higher

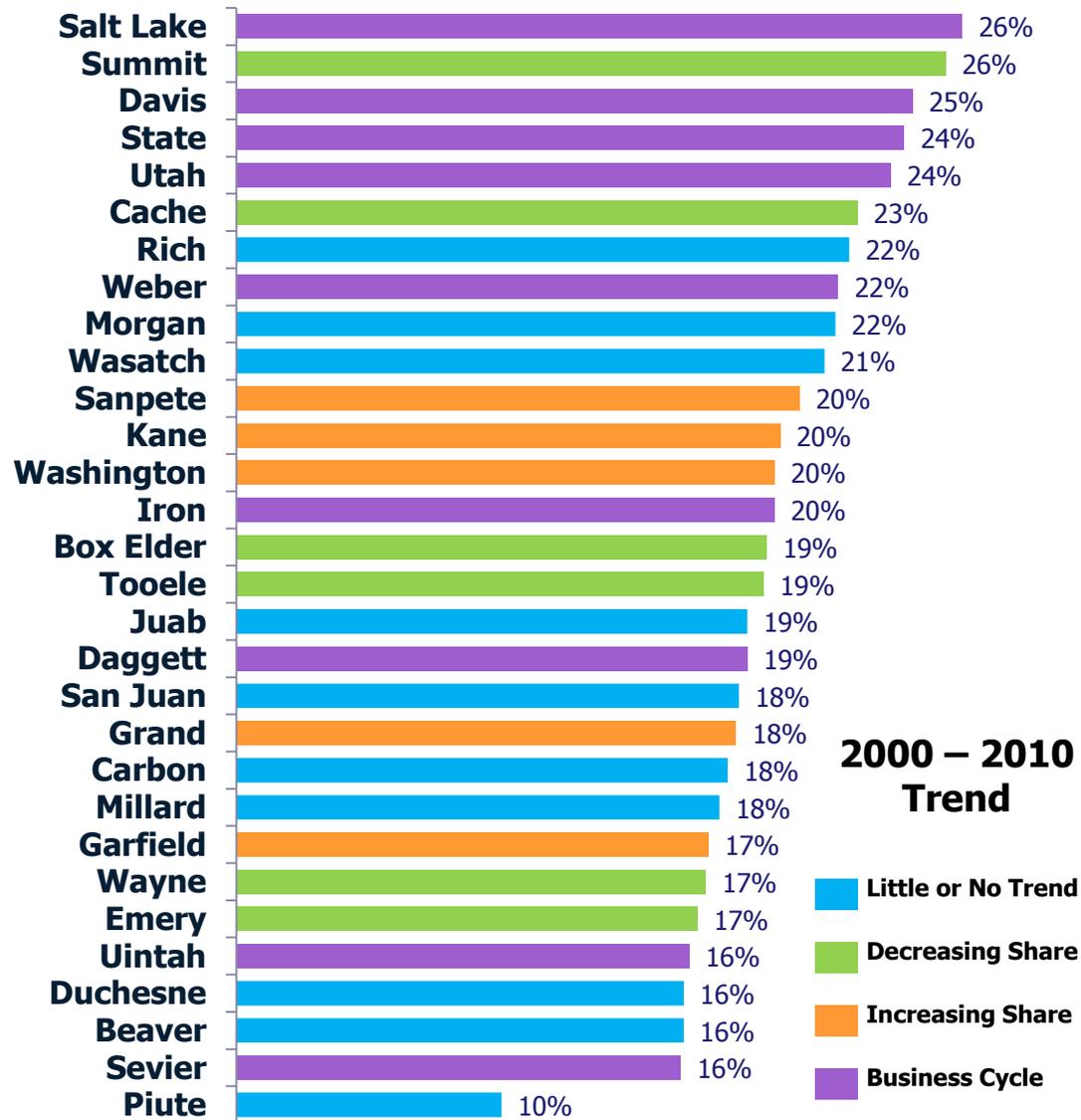


\* Four-quarter moving average; individuals 25 years and older only.  
Source: U.S. Census Bureau, Local Employment Dynamics.



# Hires—Boom to Recession to Recovery

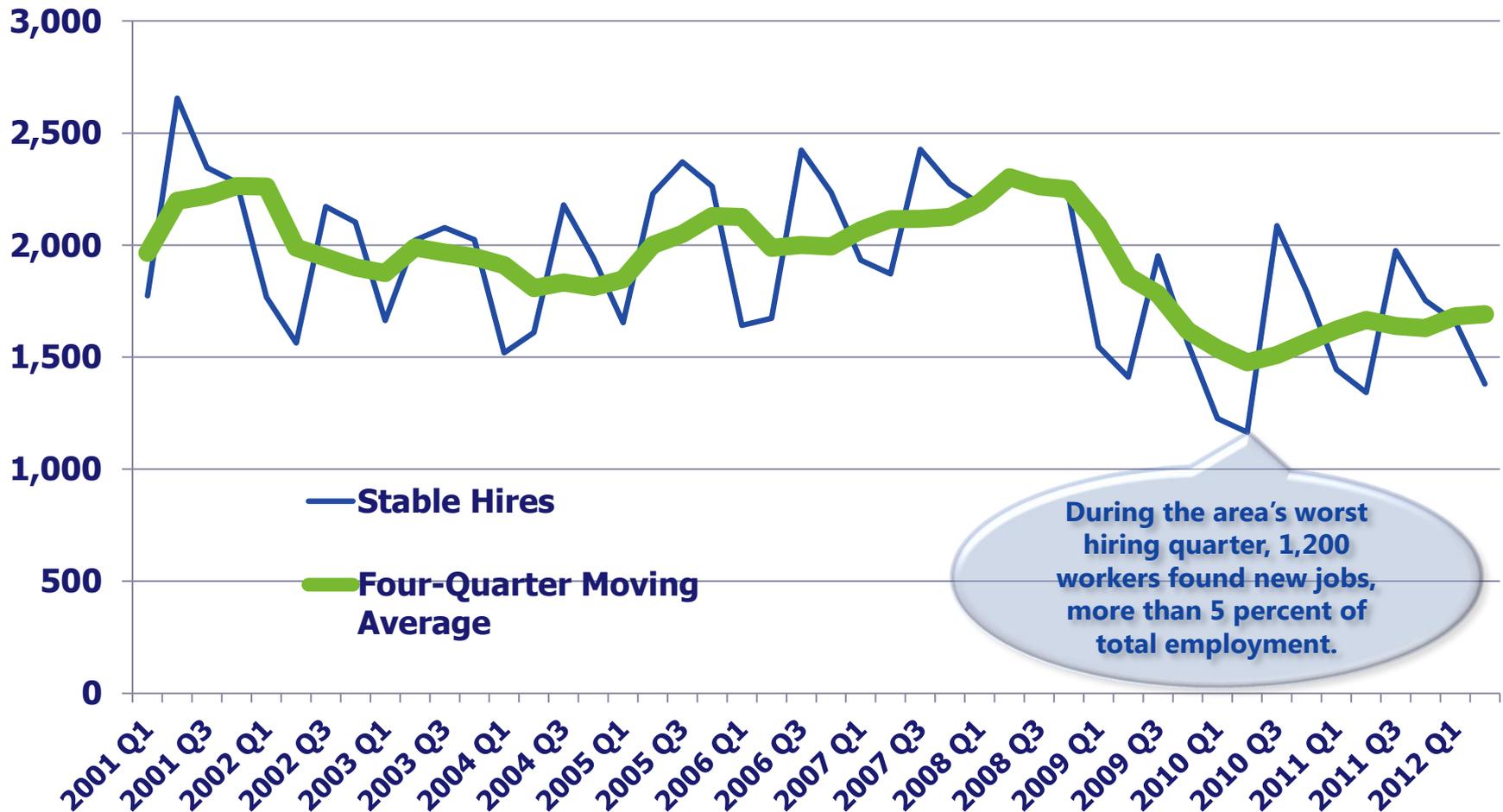
**Share of New Hires\*  
with a Bachelor's  
Degree or Higher  
Four Quarters Ending  
March 31, 2011**





# Hires—Boom to Recession to Recovery

## Central Utah Stable Hires



During the area's worst hiring quarter, 1,200 workers found new jobs, more than 5 percent of total employment.

Source: U.S. Census Bureau; Local Employment Dynamics



# Hires—Boom to Recession to Recovery

## Southwest Utah Stable Hires

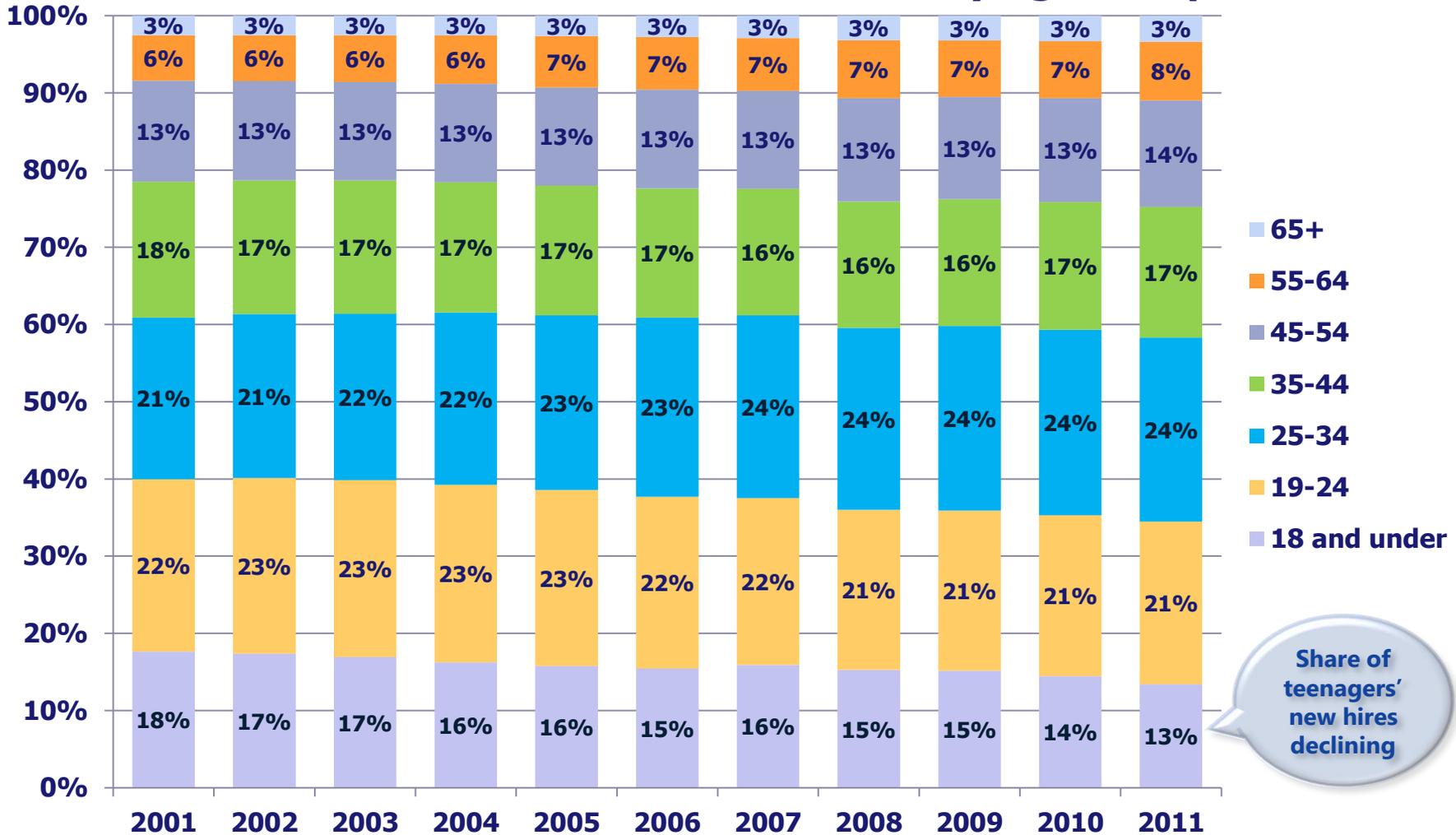


Source: U.S. Census Bureau; Local Employment Dynamics



# Hires—Boom to Recession to Recovery

## Central Utah Share of Stable Hires by Age Group



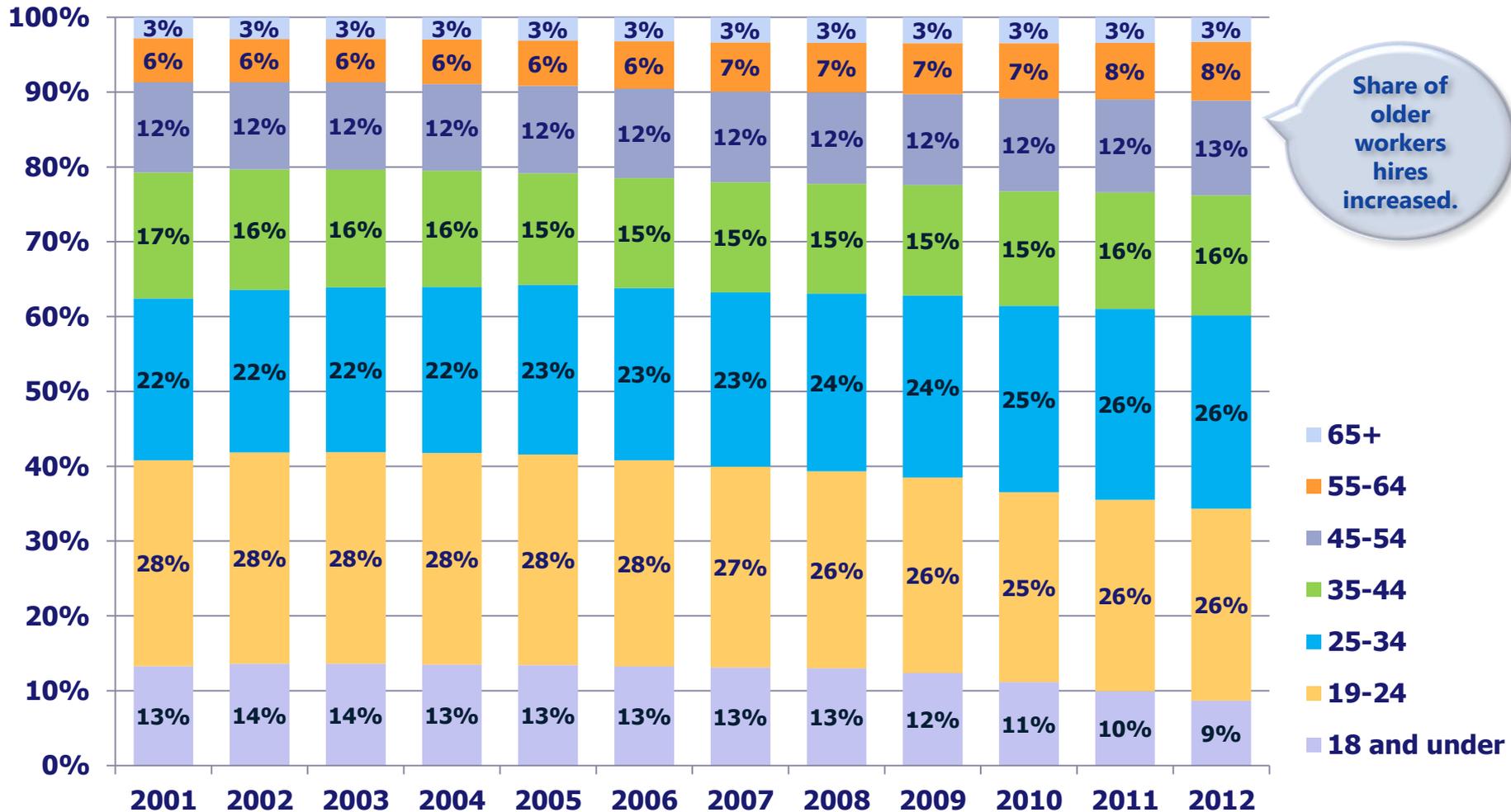
Share of teenagers' new hires declining

Source: U.S. Census Bureau; Local Employment Dynamics



# Hires—Boom to Recession to Recovery

## Southwest Utah Share of Stable Hires by Age Group

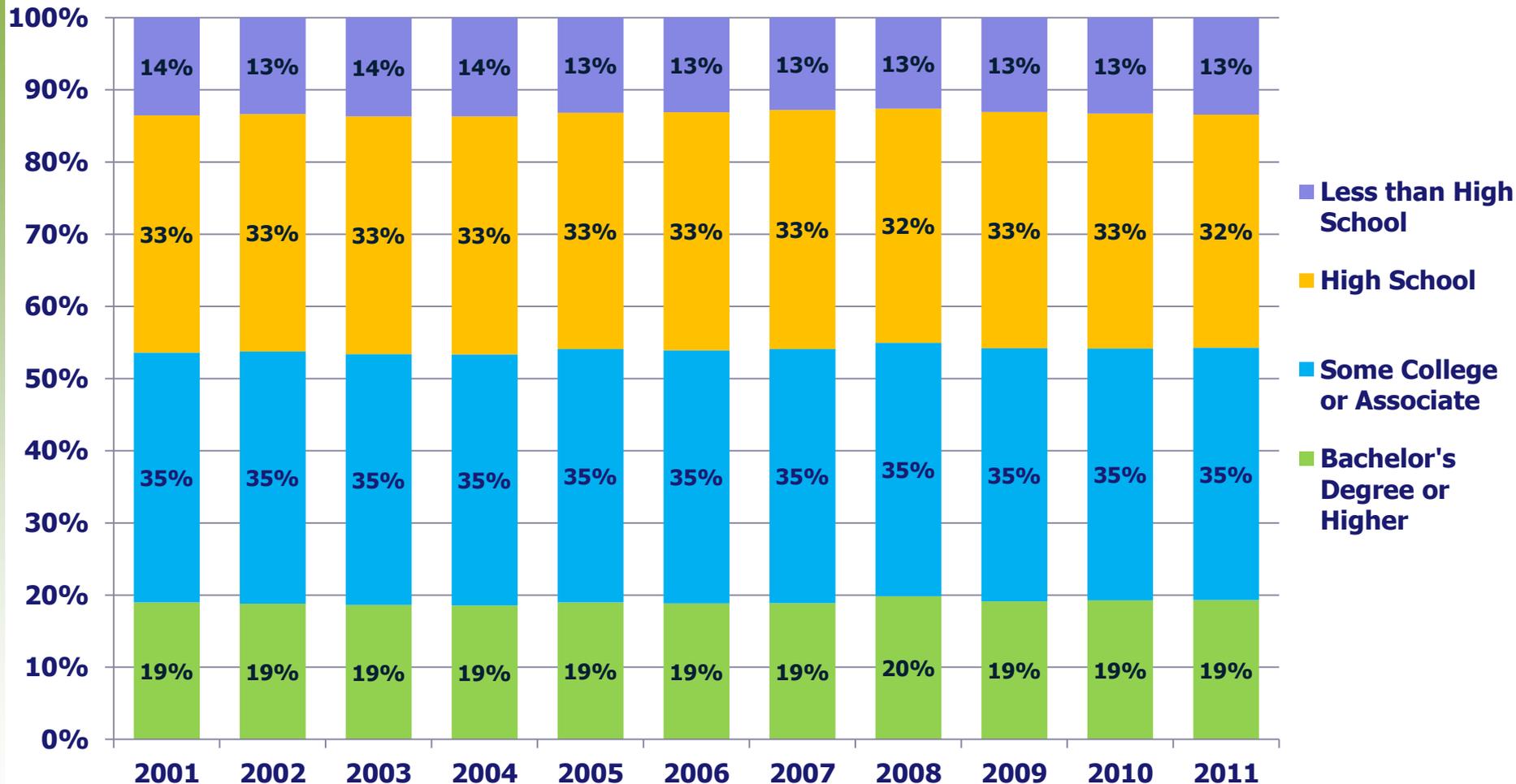


Source: U.S. Census Bureau; Local Employment Dynamics



# Hires—Boom to Recession to Recovery

## Central Utah Stable Hires by Educational Attainment\*



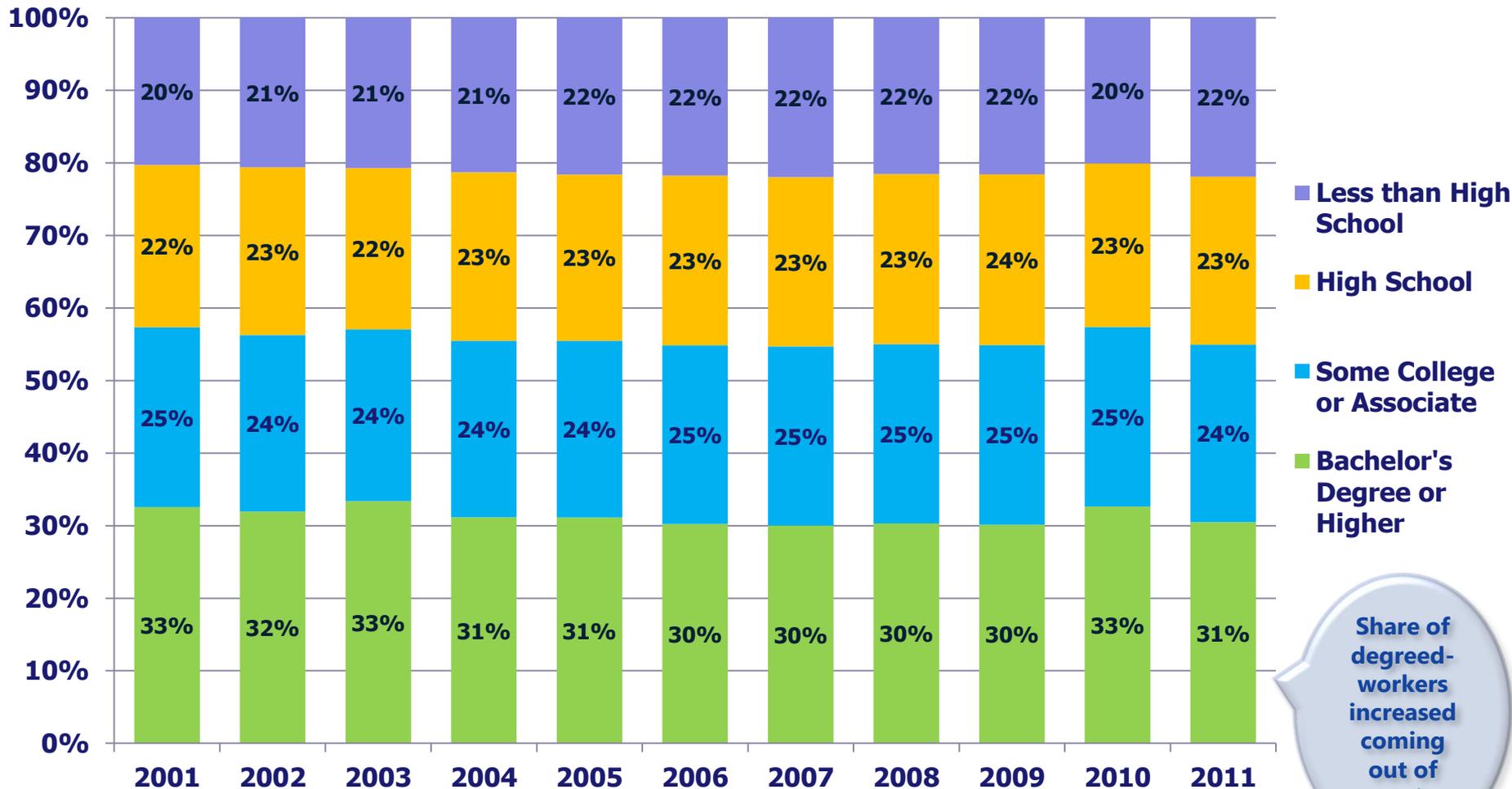
\* Workers 25 years and older.

Source: U.S. Census Bureau; Local Employment Dynamics



# Hires—Boom to Recession to Recovery

## Southwest Utah Stable Hires by Educational Attainment\*



Share of degreed-workers increased coming out of recession.

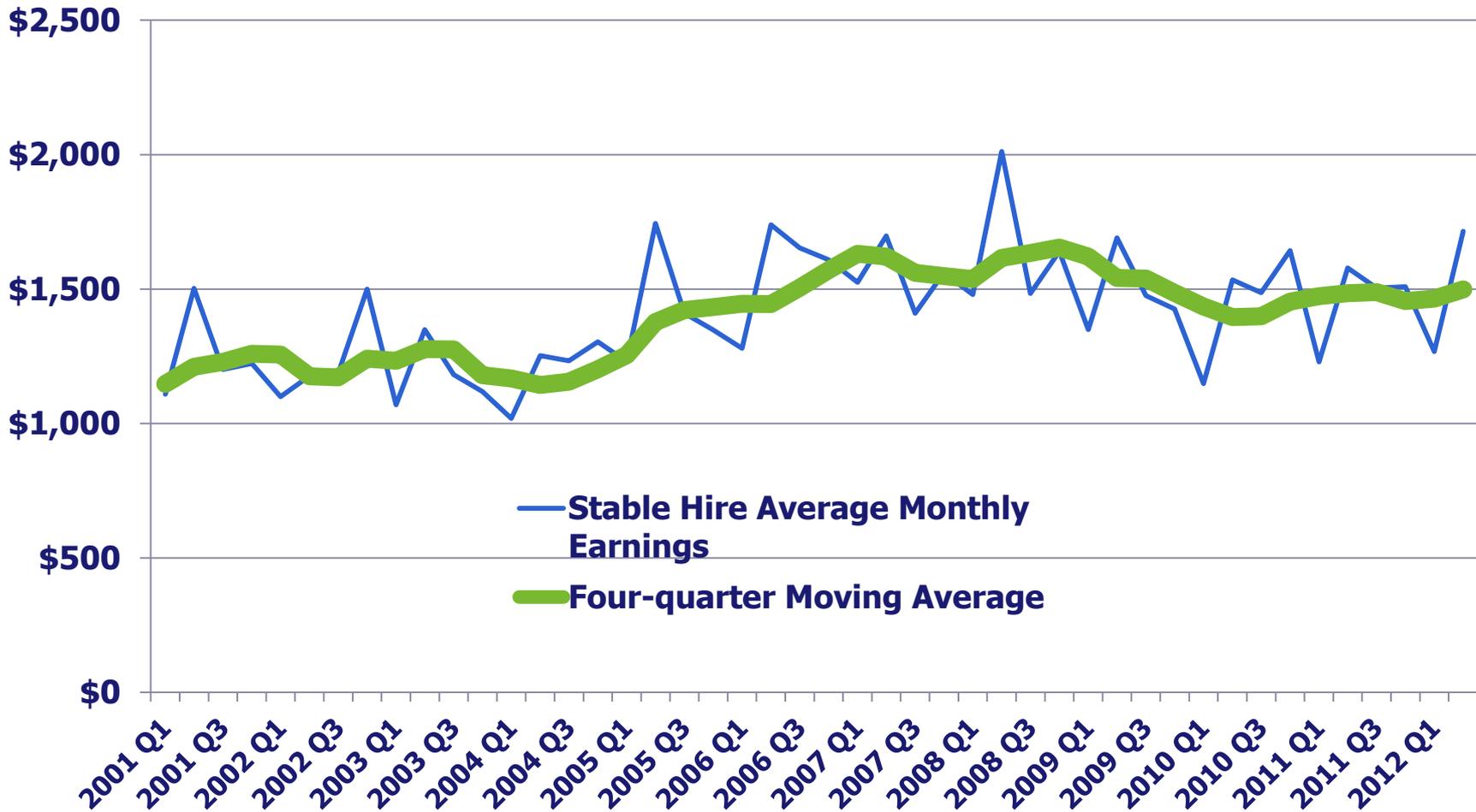
\* Workers 25 years and older.

Source: U.S. Census Bureau; Local Employment Dynamics



# Hires—Boom to Recession to Recovery

## Central Utah Stable Hire Average Monthly Earnings

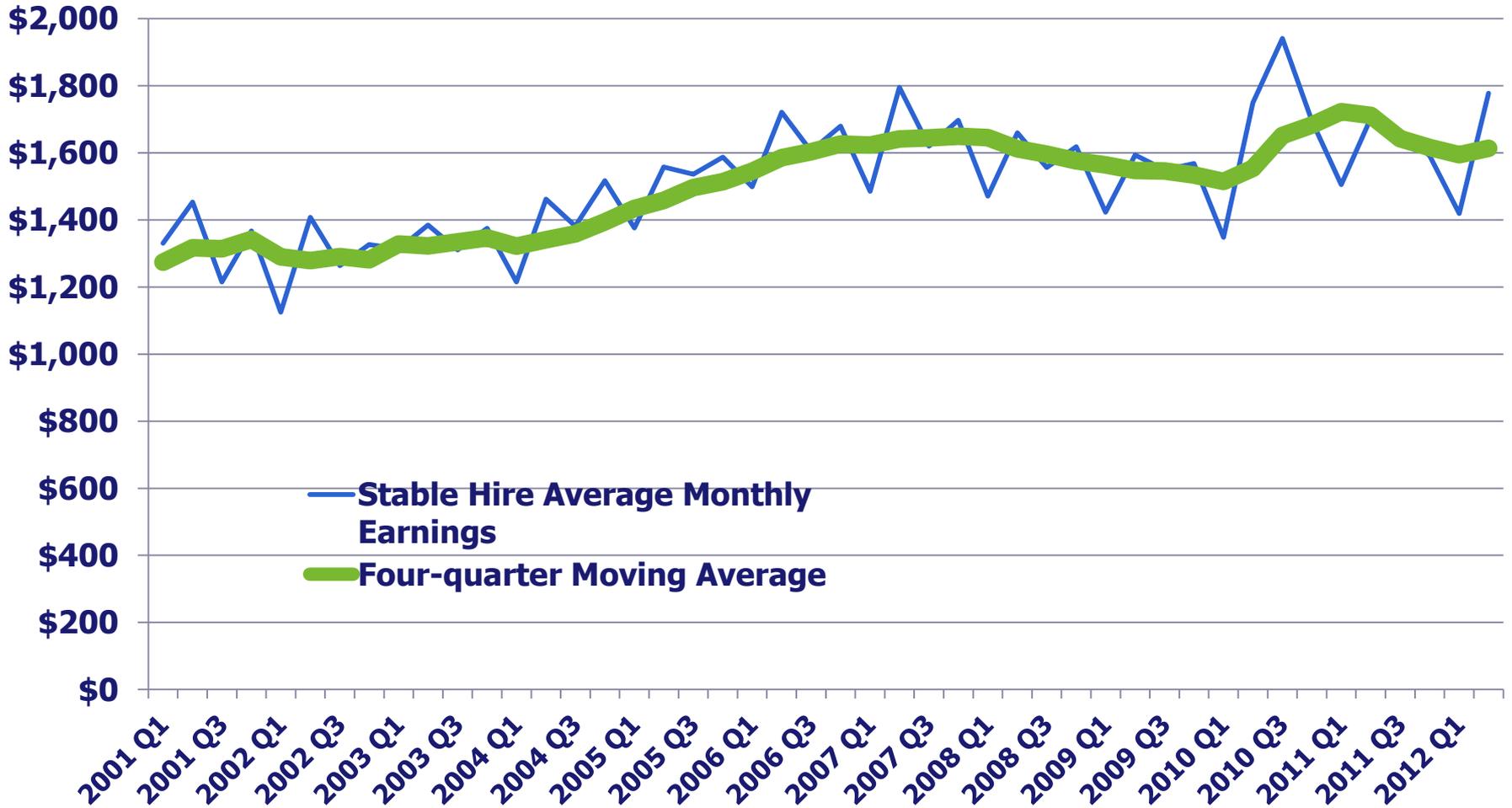


Source: U.S. Census Bureau; Local Employment Dynamics



# Hires—Boom to Recession to Recovery

## Southwest Utah Stable Hire Average Monthly Earnings

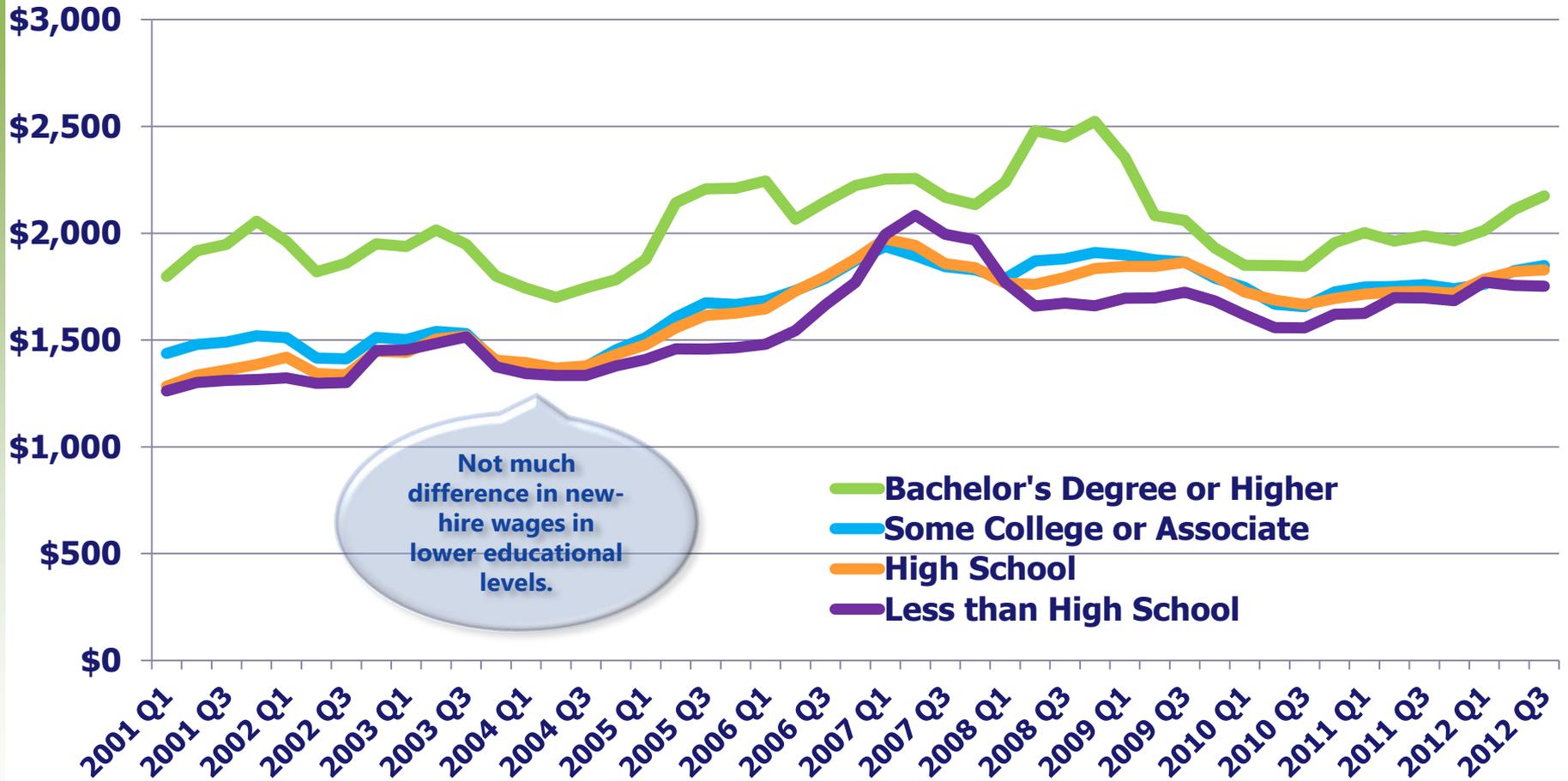


Source: U.S. Census Bureau; Local Employment Dynamics



# Hires—Boom to Recession to Recovery

## Central Utah Average Monthly Stable Hire Wages by Educational Attainment\*

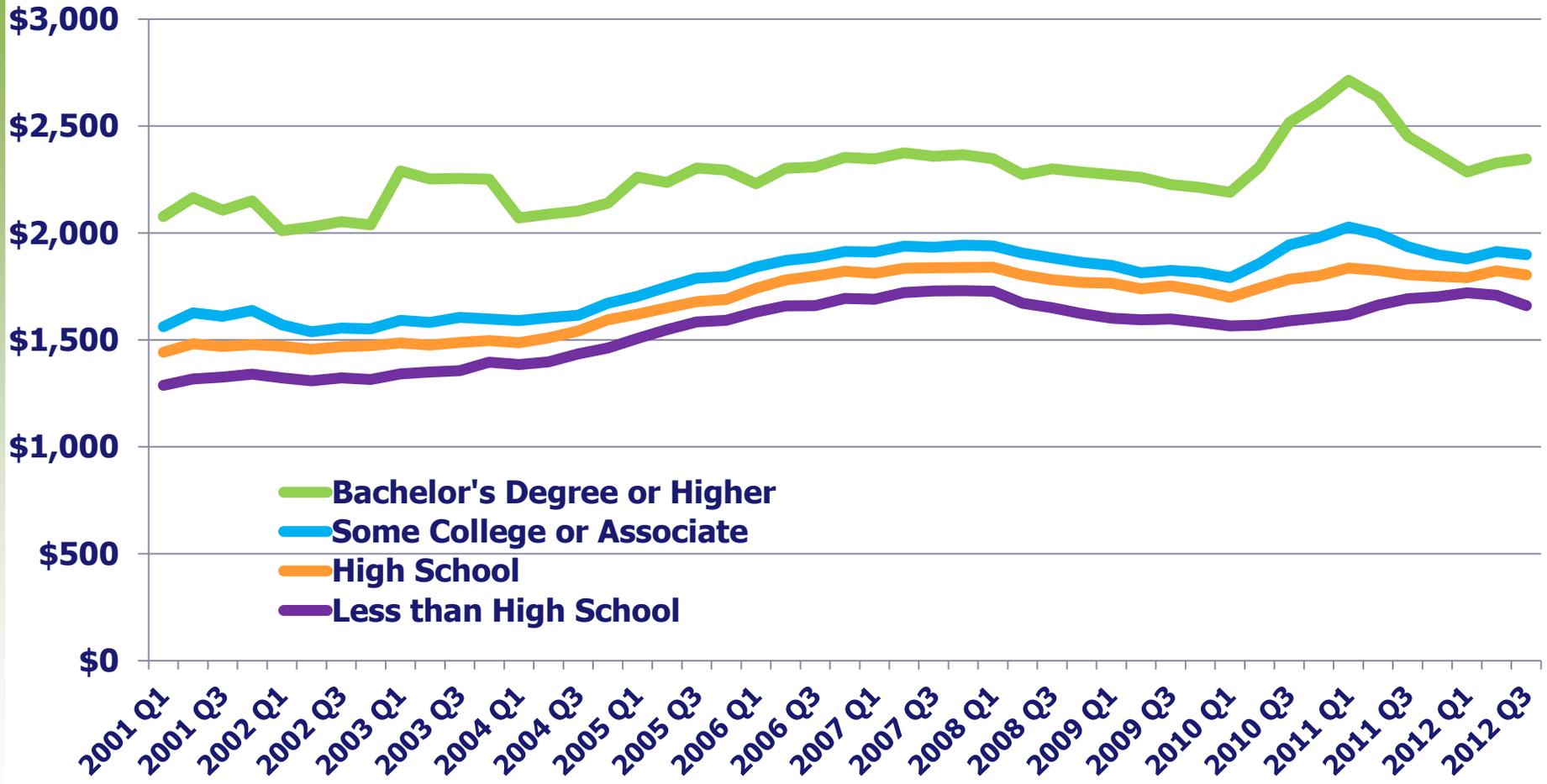


\* Four-quarter moving average; workers 25 and older only.  
Source: U.S. Census Bureau; Local Employment Dynamics program.



# Hires—Boom to Recession to Recovery

## Southwest Utah Average Monthly Stable Hire Wages by Educational Attainment\*



\* Four-quarter moving average; workers 25 and older only.  
Source: U.S. Census Bureau; Local Employment Dynamics program.

# We've just scratched the surface . . .

- ❖ Separations
- ❖ Comparison of separations and new hires
- ❖ Ratios of all hires to stable hires
- ❖ Turnover rates
- ❖ Firm age
- ❖ Firm size
- ❖ Race/ethnicity



# So much data, so little time

A suggestion for easy data analysis. . .





# Tableau Software

1. Perfect fit for LED time series.

2. Easy to drill-down to any detail.

3. Free Tableau Public product.

4. [www.tableausoftware.com/public](http://www.tableausoftware.com/public)





# Contact Information

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