

# Maricopa County Labor Market Information

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Paul Shannon, LMI Director

Office of Employment and Population Statistics

Arizona Department of Administration

Paul.Shannon@azdoa.gov

## Agenda

- Labor Market Information
  - Definitions/Data products and services
  - Employment Estimates
  - Arizona and Phoenix MSA's\* Post-Recession Recovery
  - Forthcoming Employment Forecast
- Questions

\*Phoenix-Mesa-Glendale MSA

# Labor Market Information

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## What is LMI?

## “Labor Market Information”

- People with jobs are employed.
- People who are jobless, looking for a job, and available for work are unemployed.
- The labor force is made up of the employed and the unemployed.
- People who are neither employed nor unemployed are not in the labor force.

**Marginally Attached to the labor force:** These are individuals without jobs who are not currently looking for work (and therefore are not counted as unemployed), but who nevertheless have demonstrated some degree of labor force attachment:

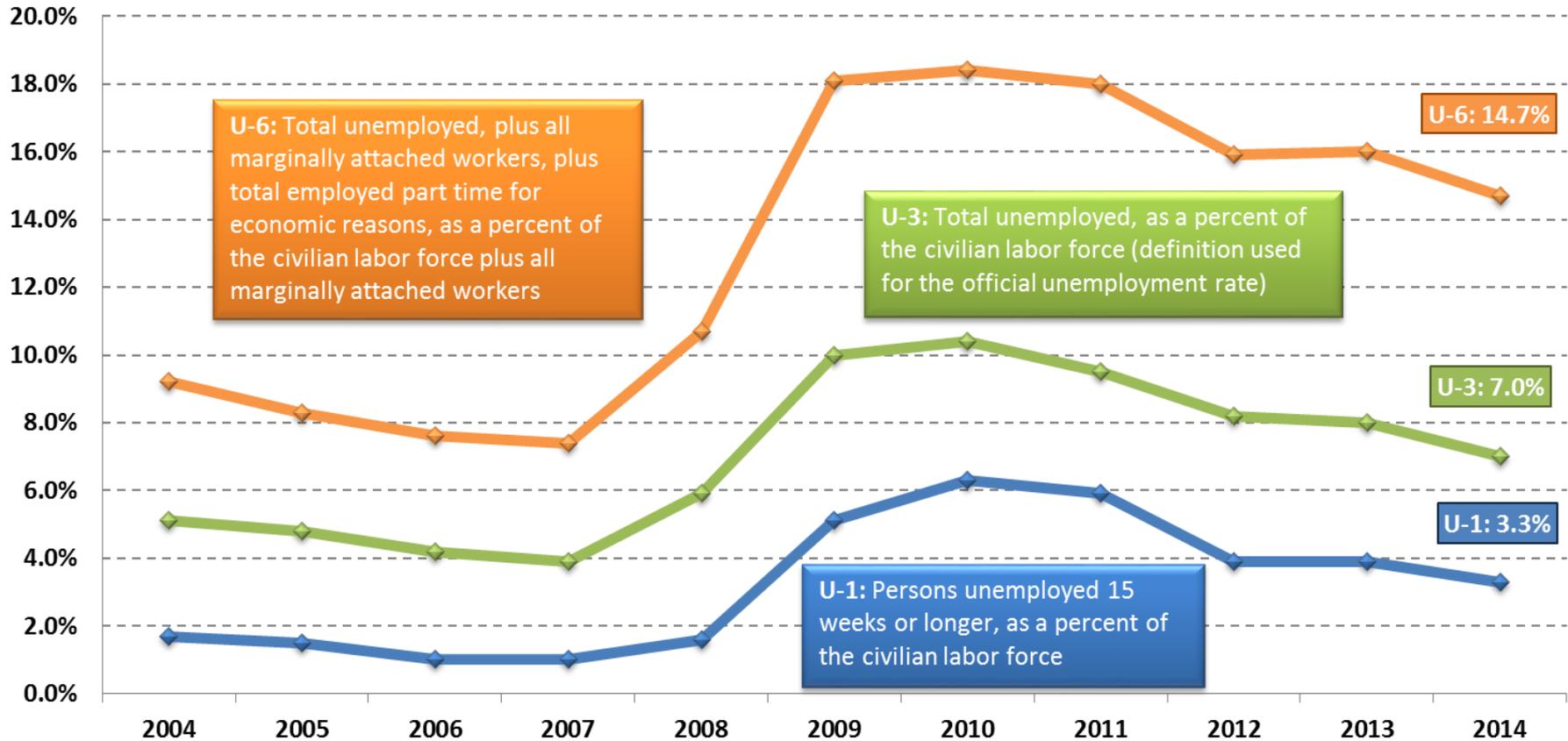
- they currently want a job
- have looked for work in the last 12 months (or since they last worked if they worked within the last 12 months)
- are available for work.

**Discouraged Workers:** are a subset of the marginally attached. Discouraged workers report they are not currently looking for work for one of the following types of reasons:

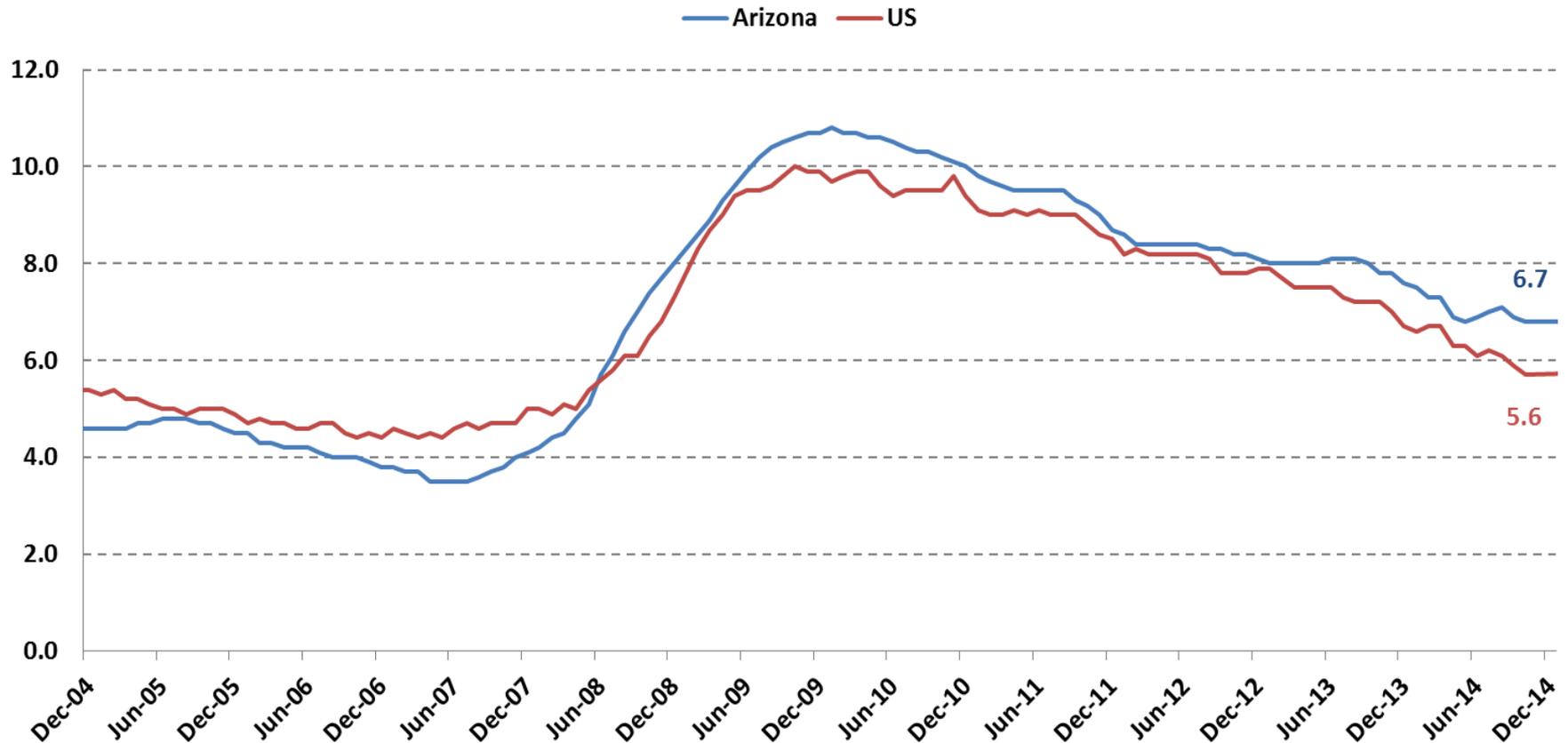
- They believe no job is available to them in their line of work or area.
- They had previously been unable to find work.
- They lack the necessary schooling, training, skills, or experience.
- Employers think they are too young or too old, or
- They face some other type of discrimination.

## Alternative Measures of Labor Underutilization

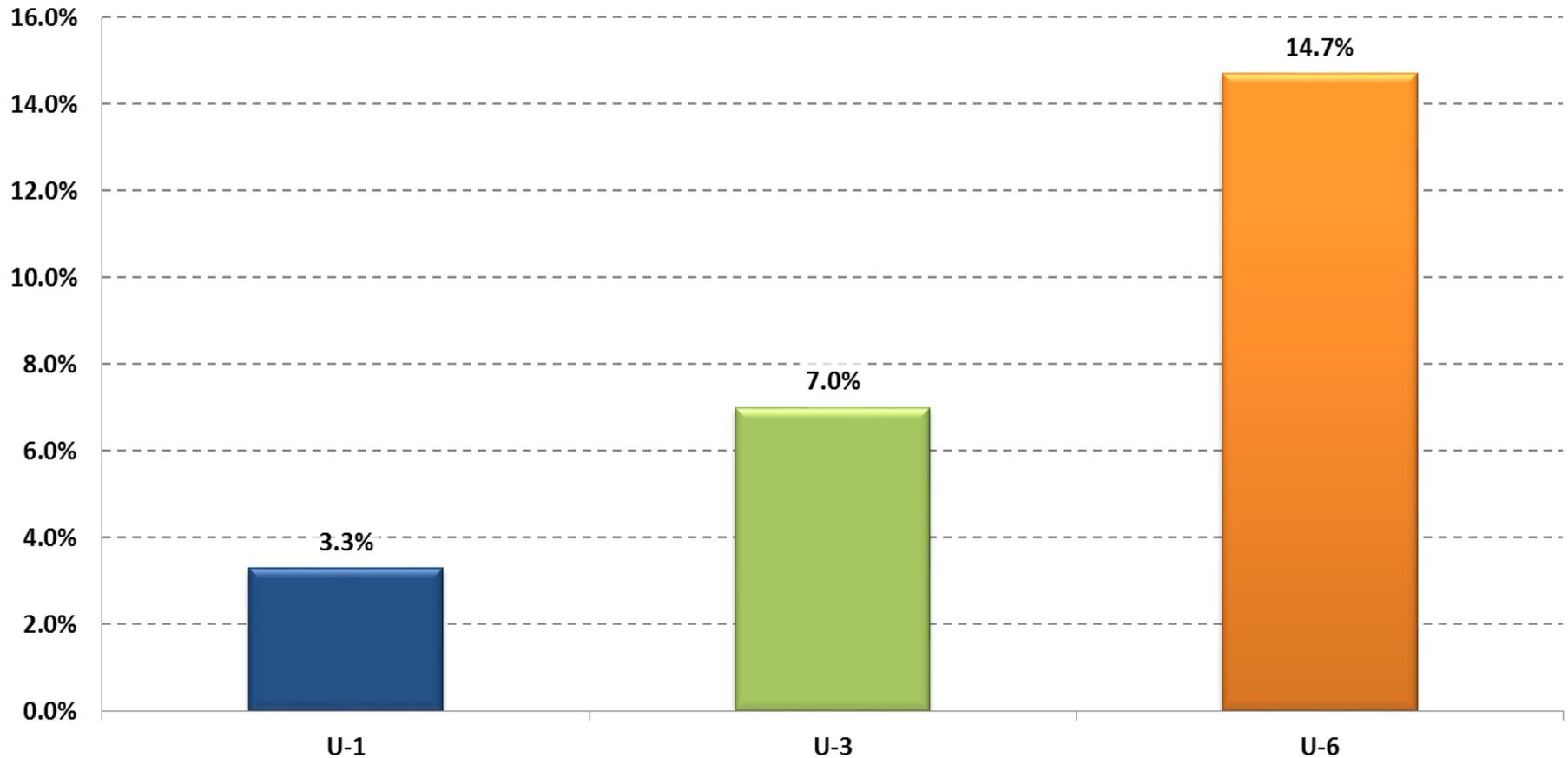
### Arizona Annual Averages



## Seasonally Adjusted Unemployment Rate January 2004 - September 2014



## Alternative Measures of Labor Underutilization 2014 Arizona Annual Average



# Labor Market Information

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## Employment Estimates

# Current Employment Statistics (CES)

## Ways to Analyze Employment Levels

### Over the Month

- Numeric/Percent Change
- Issue: Large influence of seasonal factors
- Main Use: Compare changes to previous years in the same month – comparison of previous years point-in-time estimates

### Over the Year

- Numeric/Percent Change
- Issue: Less influenced by seasonal factors
- Main Use: Compare changes to previous time periods – long-term trends (growing, declining, accelerating, or decelerating)

# Current Employment Statistics

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## Industry Occupation and Classification

# Industry Occupation and Classification

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**Why is This Important?**

- To make an informed decision, or to measure economic progress of any action, one needs data
- Data, however, adheres to a rigid structure. To effectively use existing data, one must be willing to work alongside its already predefined structure.
- Understanding the classification system of the data is therefore a necessary prerequisite for its use.
- The Occupational Employment Survey uses the Standard Occupational Classification (SOC)
- The Current Employment Survey uses the North American Industry Classification System (NAICS)

## How Occupations & Industries are Defined & Organized

- Occupation (describes what a worker does)
  - Standard Occupation Classification (SOC)
  - Six digit occupation code (O\*NET has eight)
  - **The more digits, the more detail (hierarchal)**
- Industry (describes what the business does)
  - North American Industry Classification System (NAICS)
  - Six digit industry code
  - **The more digits, the more detail (hierarchal)**

## **SOC CLASSIFICATION LEVELS**

Broad categories lead to unique 6-digit codes for each occupation:

22 Major groups ;      divided into...

98 Minor groups;      divided into...

450 Broad occupations;      divided into...

800+ Detailed occupations

## SOC STRUCTURE EXAMPLE

**Major Group:** [15](#)-0000 Computer and Mathematical Occupations

**Minor Group:** 15-[1](#)000 Computer Occupations

**Broad Occupation:** 15-[1130](#) Software Developers and  
Programmers

**Detailed Occupation:** 15-[1132](#) Software  
Developers, Applications

## **NAICS CLASSIFICATION LEVELS**

Broad categories lead to unique 6-digit codes for each occupation:

11 Super sectors;      divided into...

20 Major sectors ;      divided into...

99 Subsector;              divided into...

312 Industry Groups;      divided into...

713 Industries;              divided into...

1,064+ National Industries

## NAICS STRUCTURE EXAMPLE

**Sector:** [54](#) Professional and Business Services

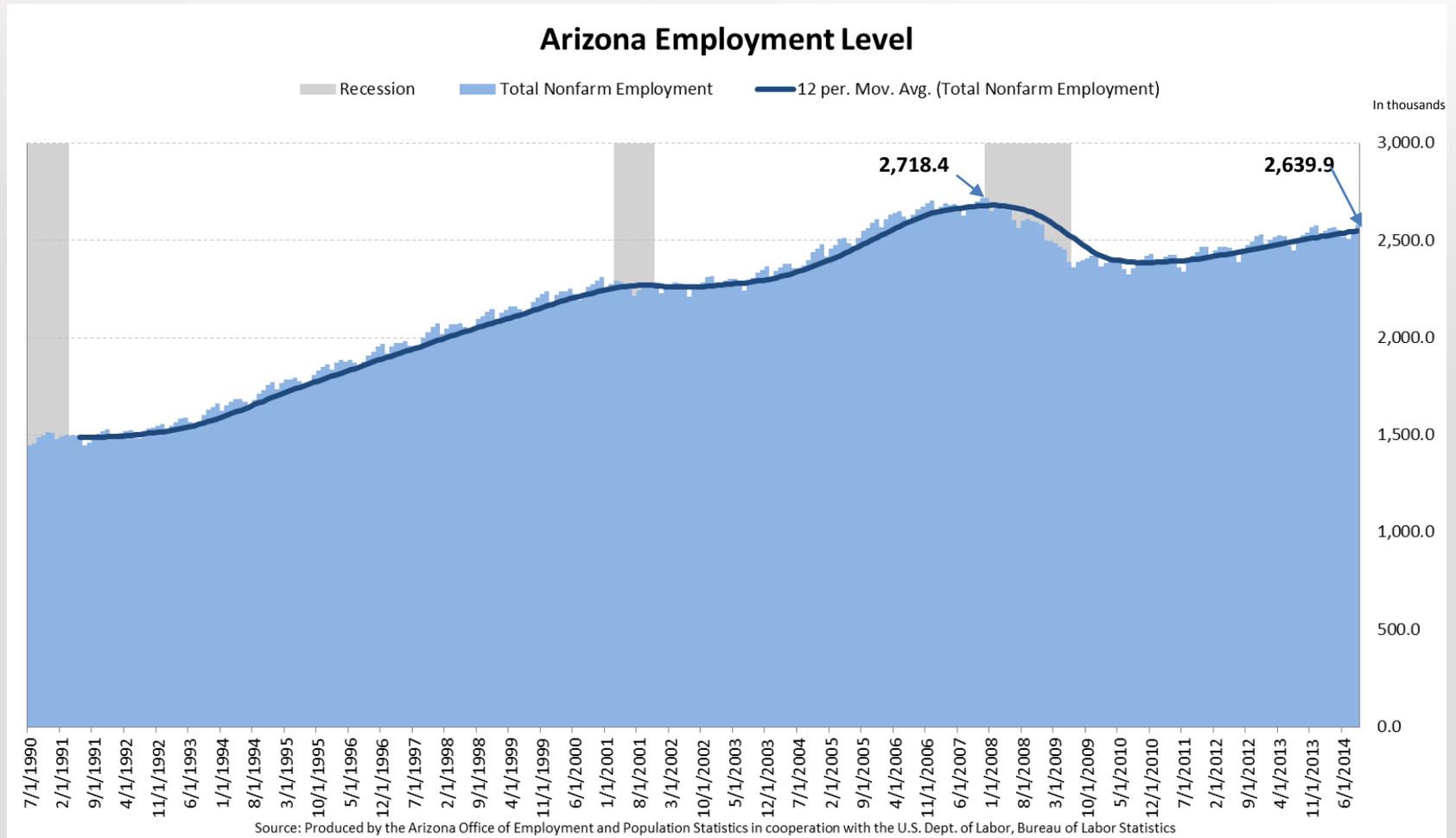
**Sub-Sector:** [541](#) Professional, Scientific and  
Technical Services

**Industry Group:** [5417](#) Scientific Research and  
Development Services

**NAICS Industry:** [54171](#) Research and  
Development in the Physical Engineering and  
Life Sciences

**National Industry:** [541711](#) Research and  
Development in Biotechnology

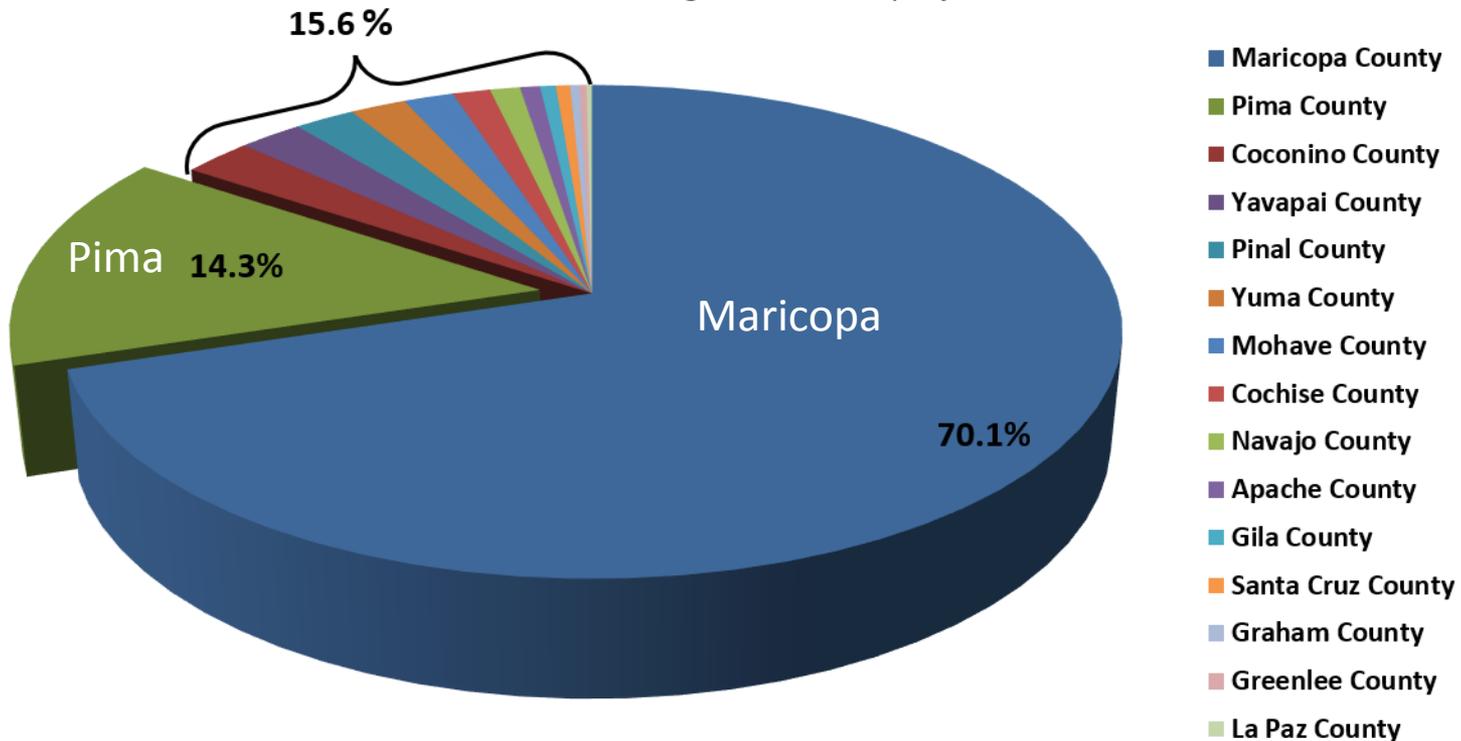
## CES Total Nonfarm



## Current Employment Statistics (CES)

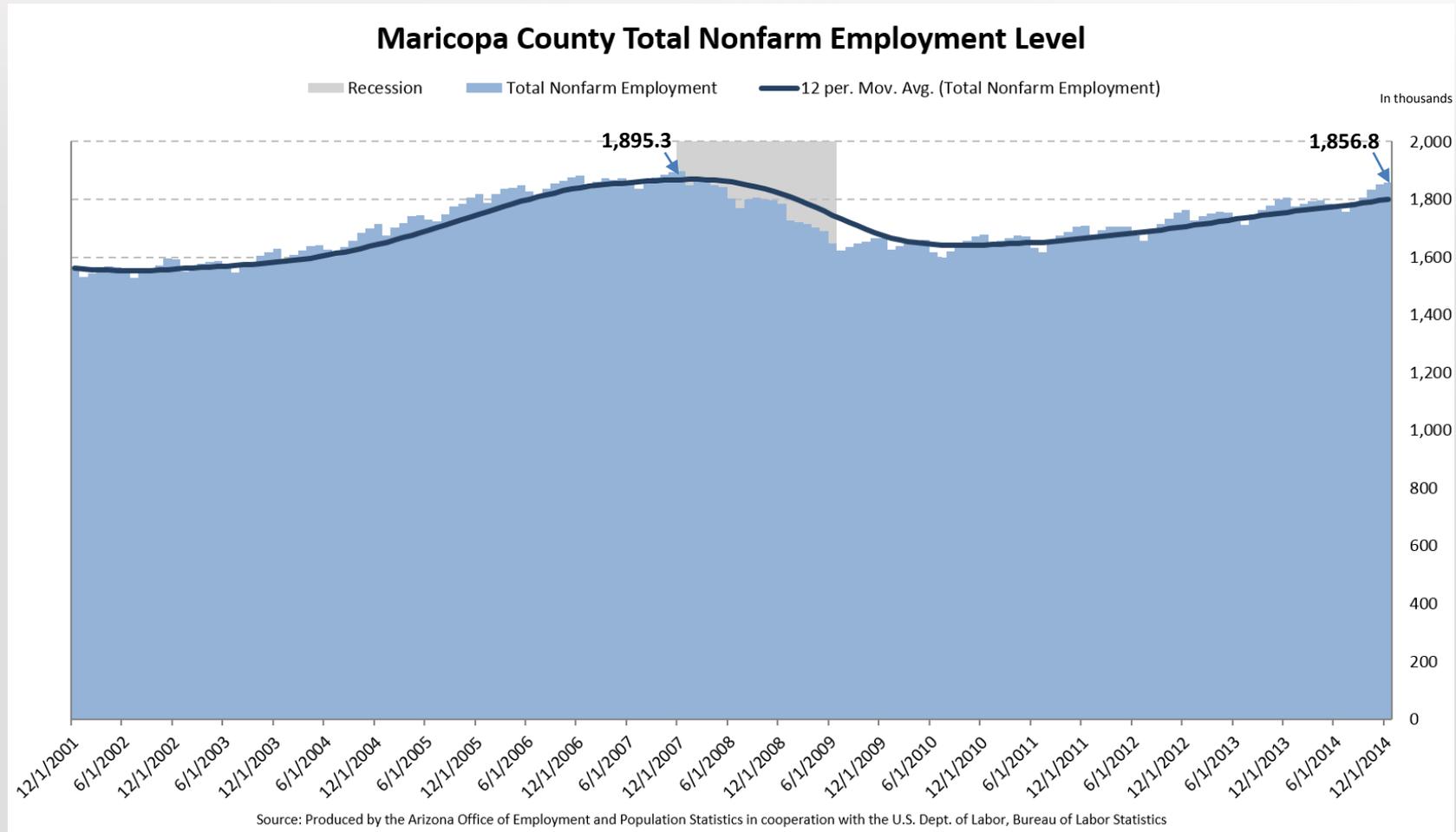
### Arizona County Employment Share

2014 Annual Average, Not Seasonally Adjusted

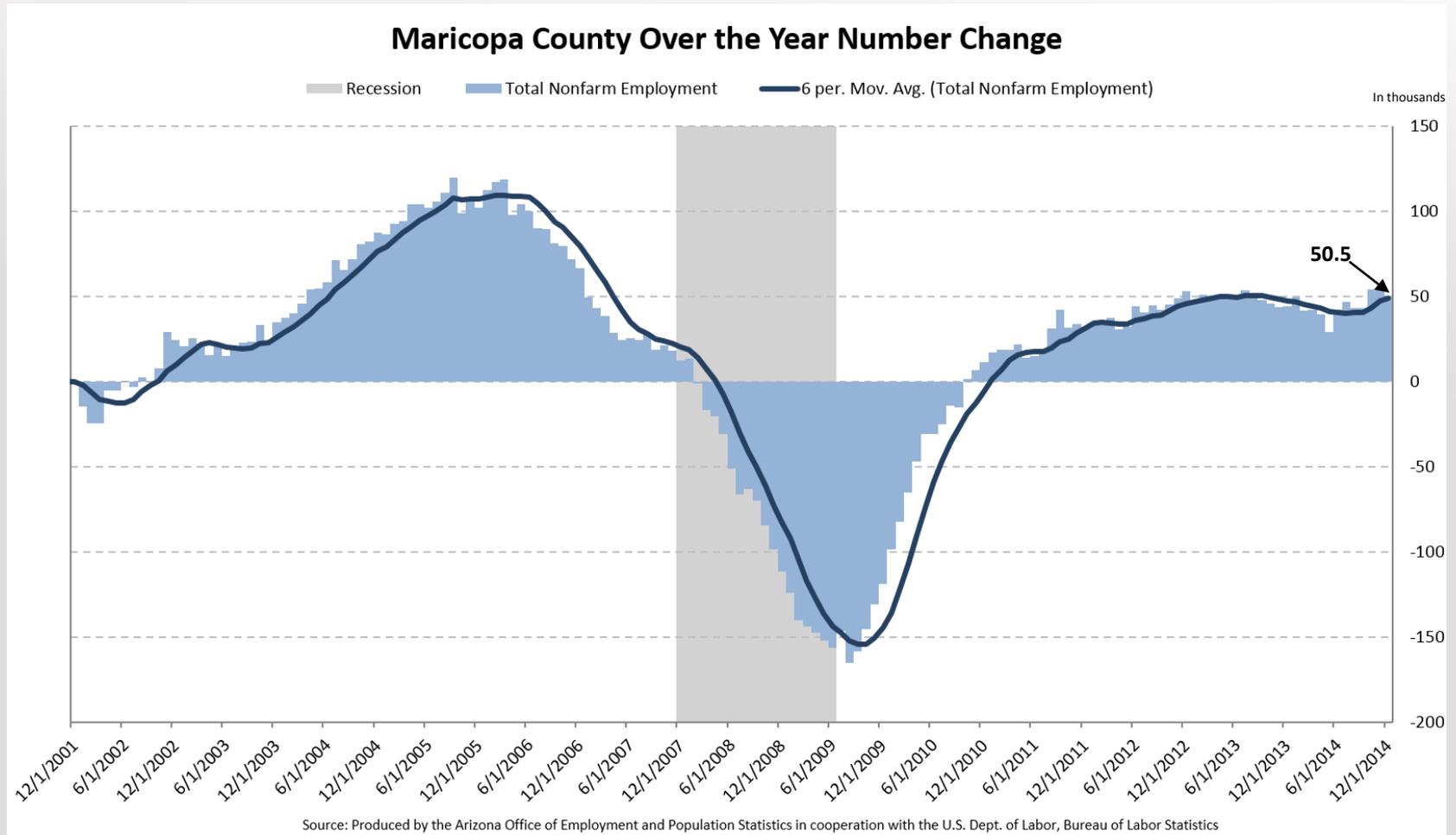


Source: Produced by the Arizona Office of Employment and Population Statistics in cooperation with the U.S. Dept. of Labor, Bureau of Labor Statistics

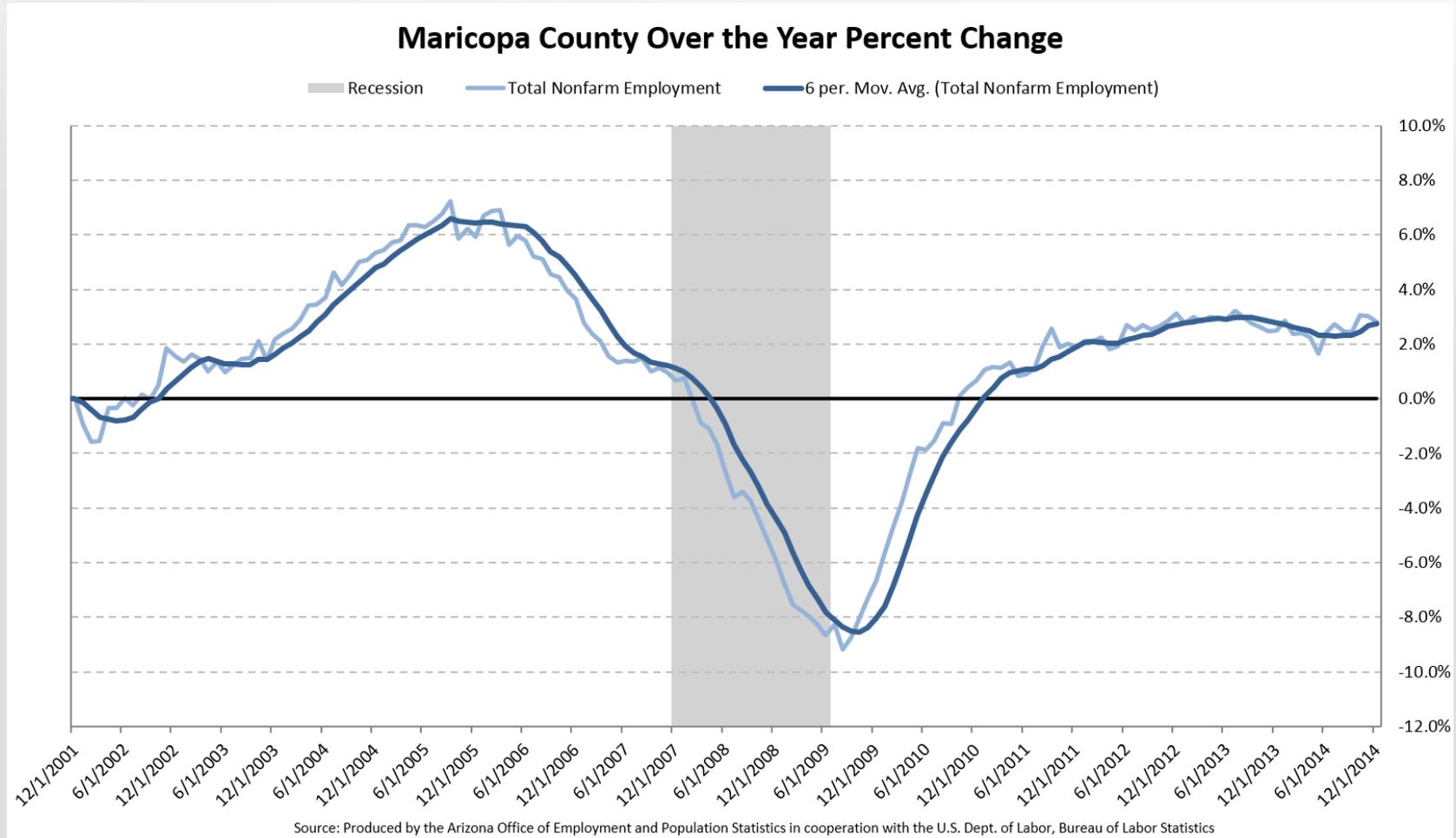
## Current Employment Statistics (CES)



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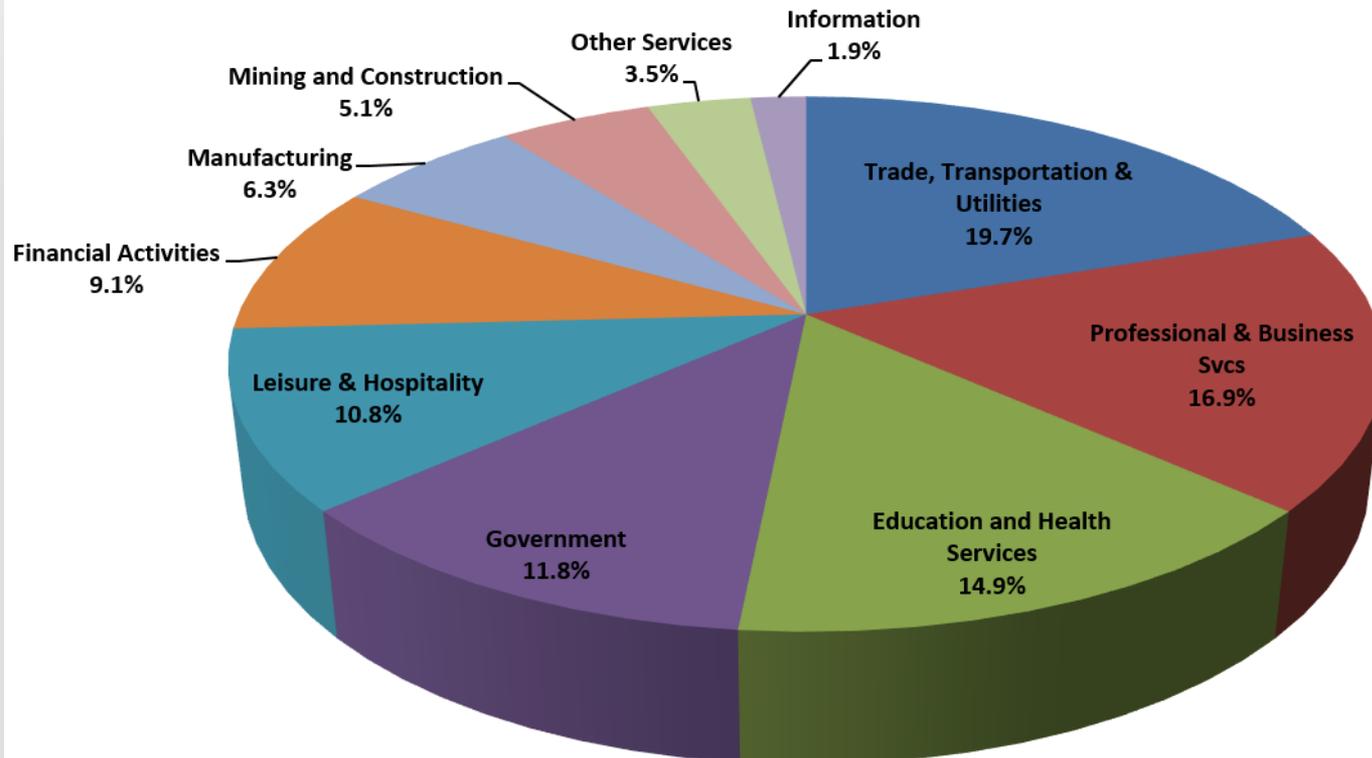


## Current Employment Statistics (CES)



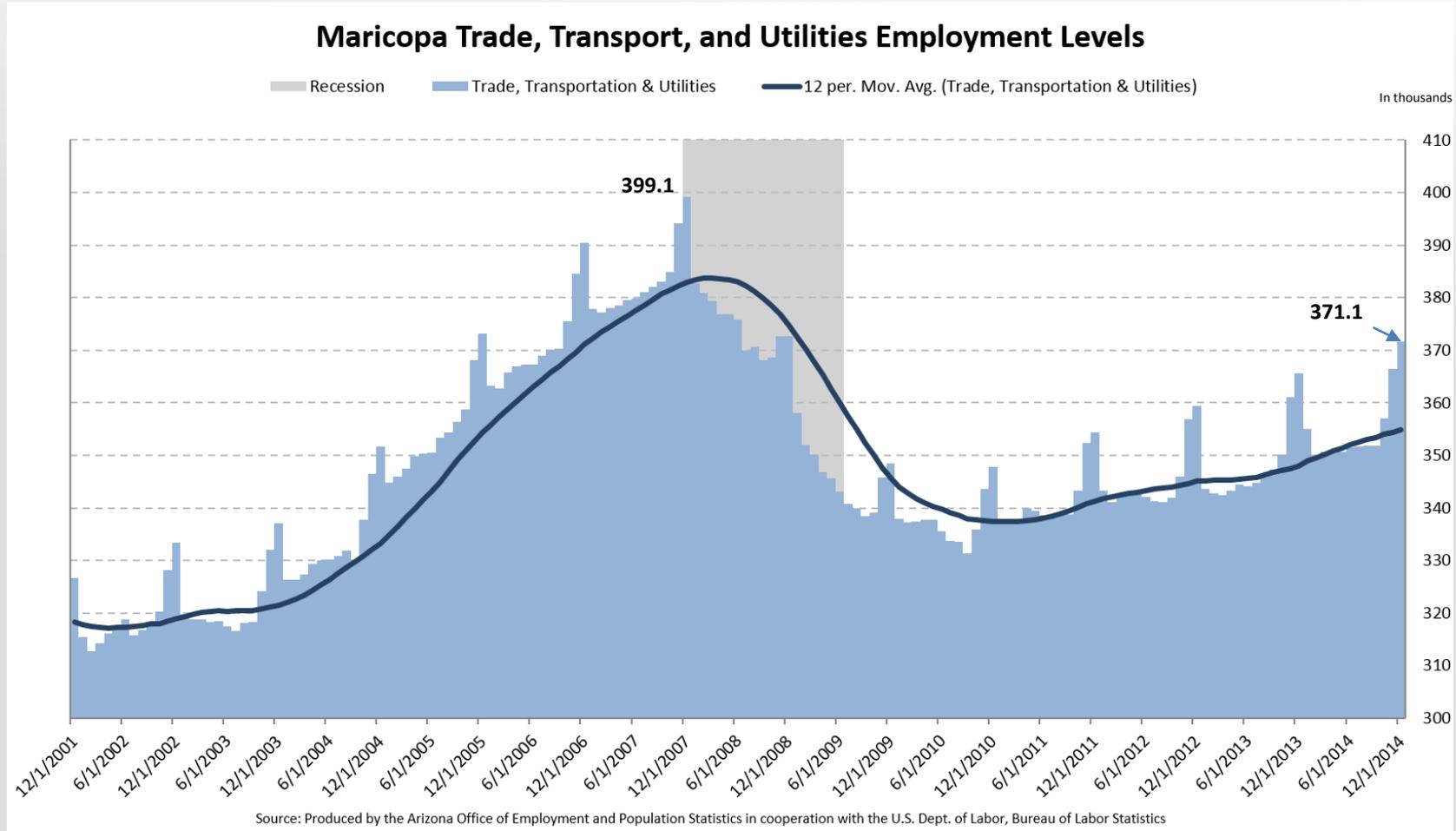
## Maricopa County Industry Employment Share

2014 Annual Average, Not Seasonally Adjusted



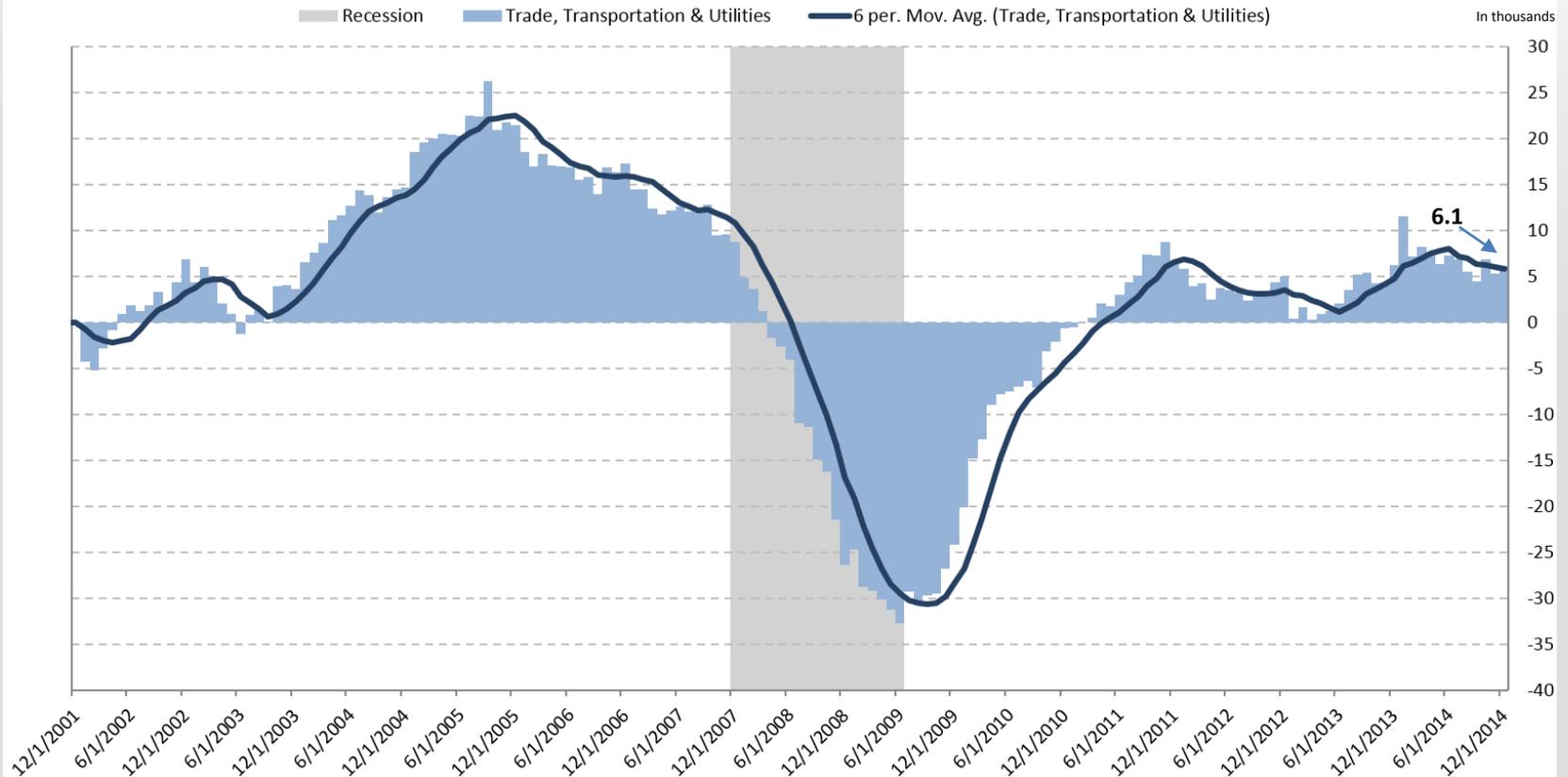
Source: Produced by the Arizona Office of Employment and Population Statistics in cooperation with the U.S. Dept. of Labor, Bureau of Labor Statistics

## CES Trade, Transportation, and Utilities



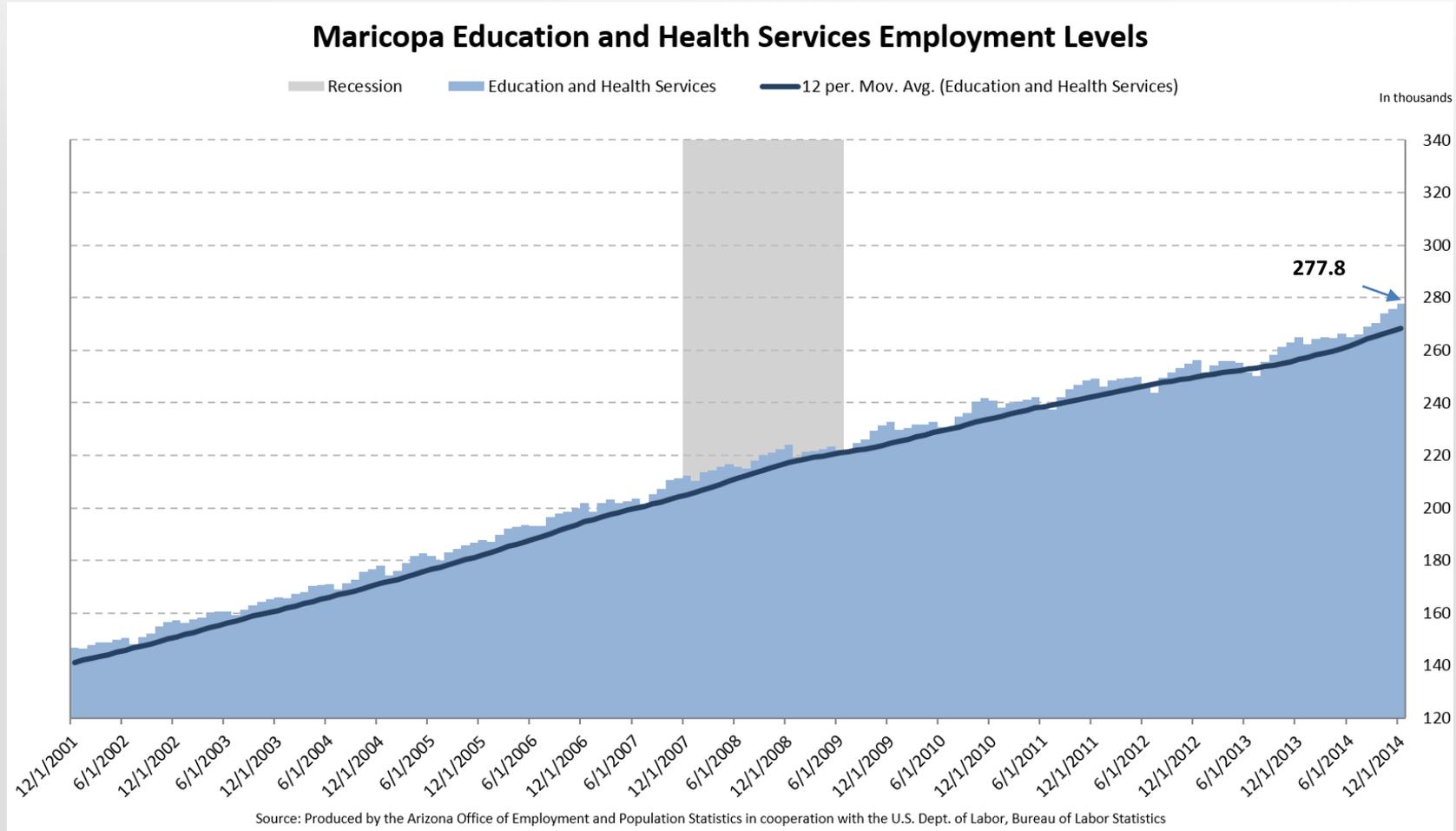
## CES Trade, Transportation, and Utilities

### Maricopa TTU Over The Year Employment Change



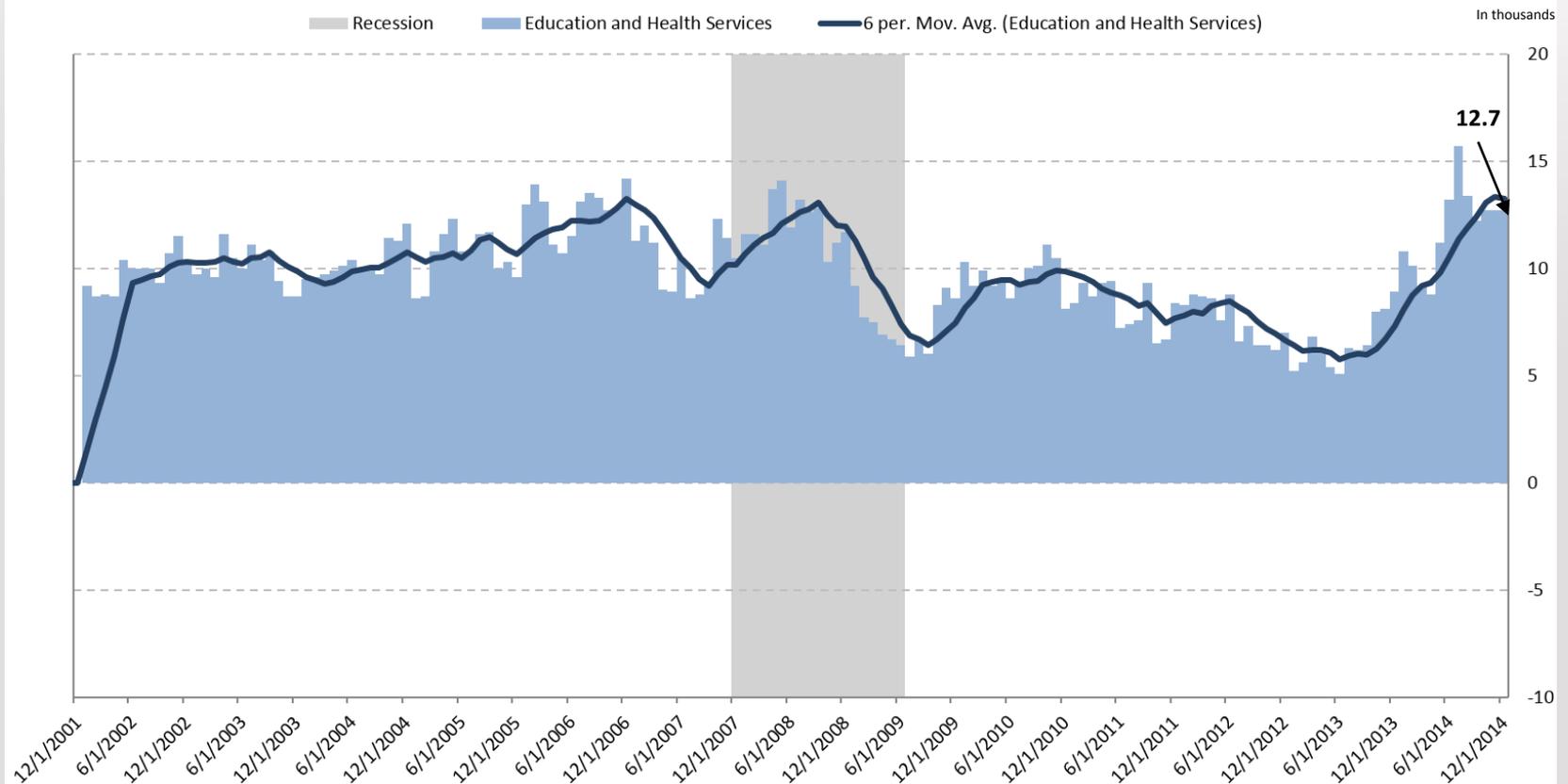
Source: Produced by the Arizona Office of Employment and Population Statistics in cooperation with the U.S. Dept. of Labor, Bureau of Labor Statistics

## CES Education and Health



## CES Education and Health

### Maricopa Education and Health Services Over The Year Employment Change

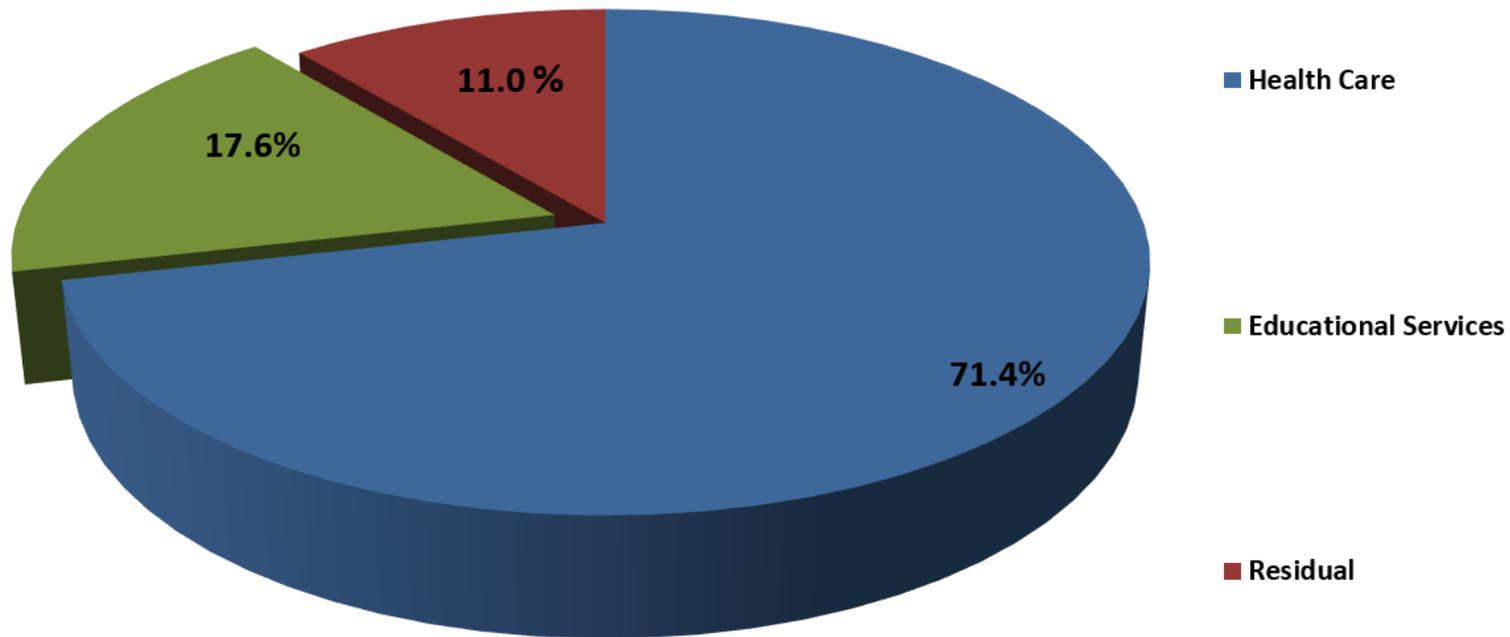


Source: Produced by the Arizona Office of Employment and Population Statistics in cooperation with the U.S. Dept. of Labor, Bureau of Labor Statistics

## CES Education and Health

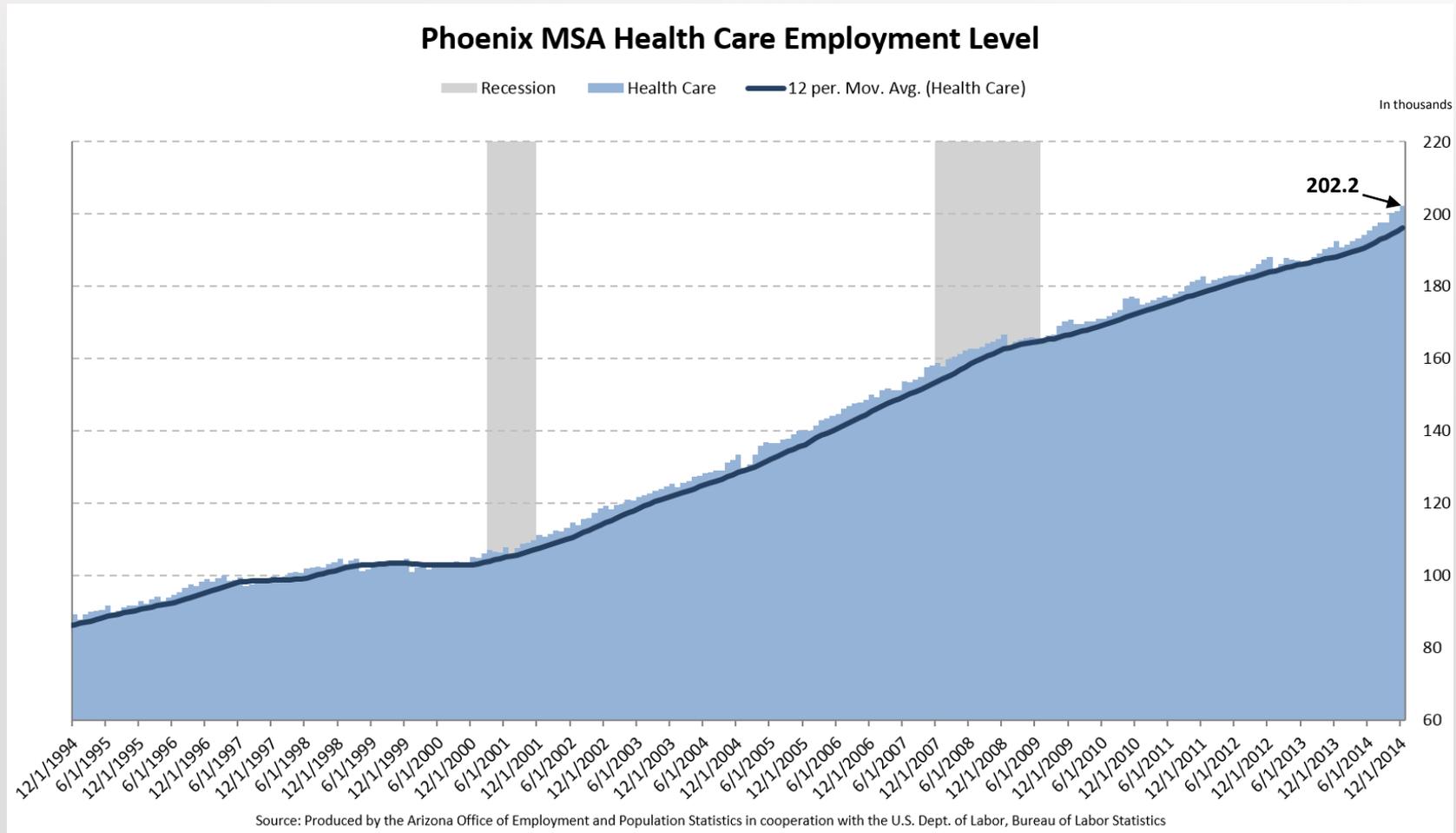
### Phoenix MSA Education and Health Care Shares

2014 Annual Average, Not Seasonally Adjusted

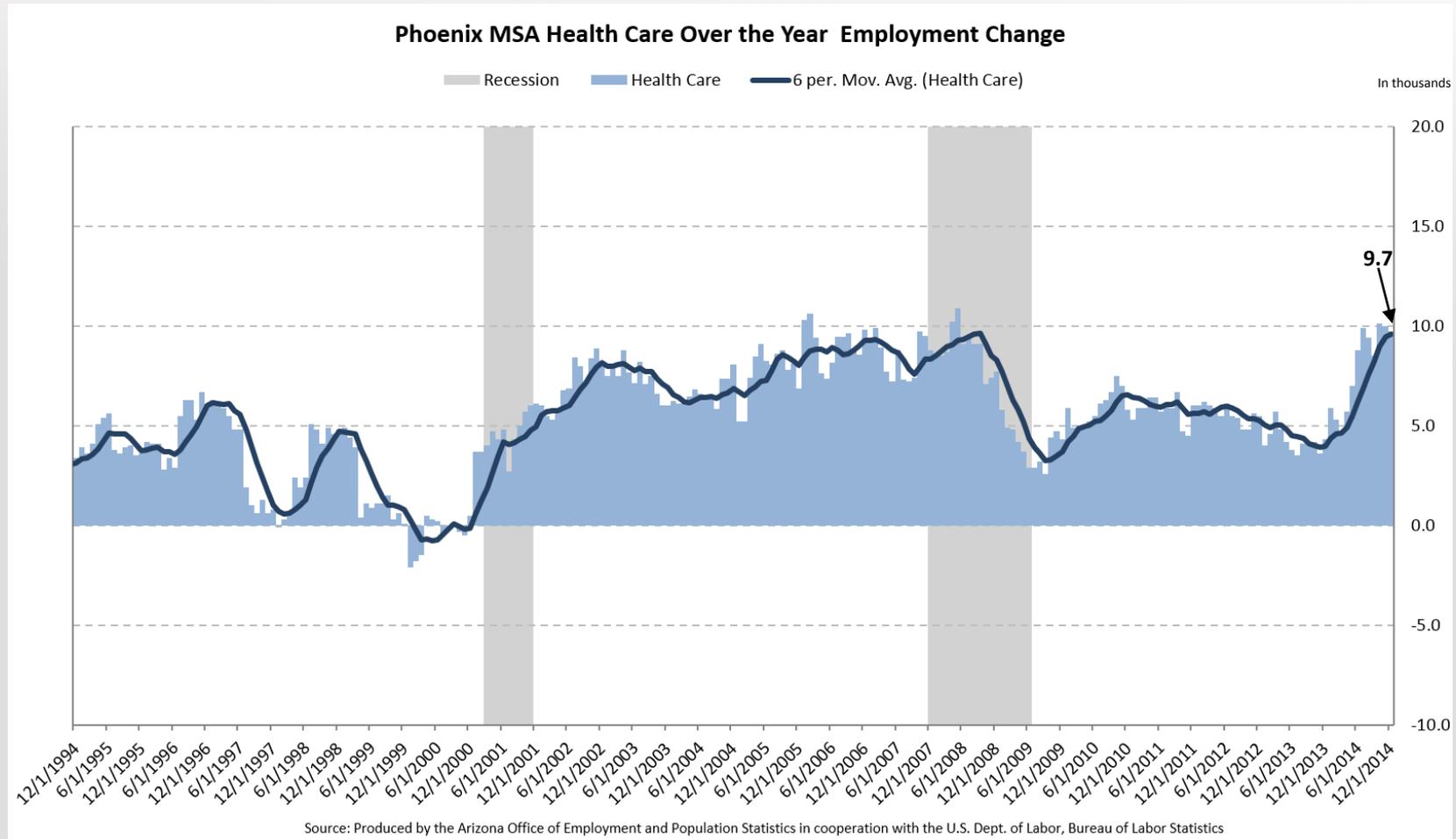


Source: Produced by the Arizona Office of Employment and Population Statistics in cooperation with the U.S. Dept. of Labor, Bureau of Labor Statistics

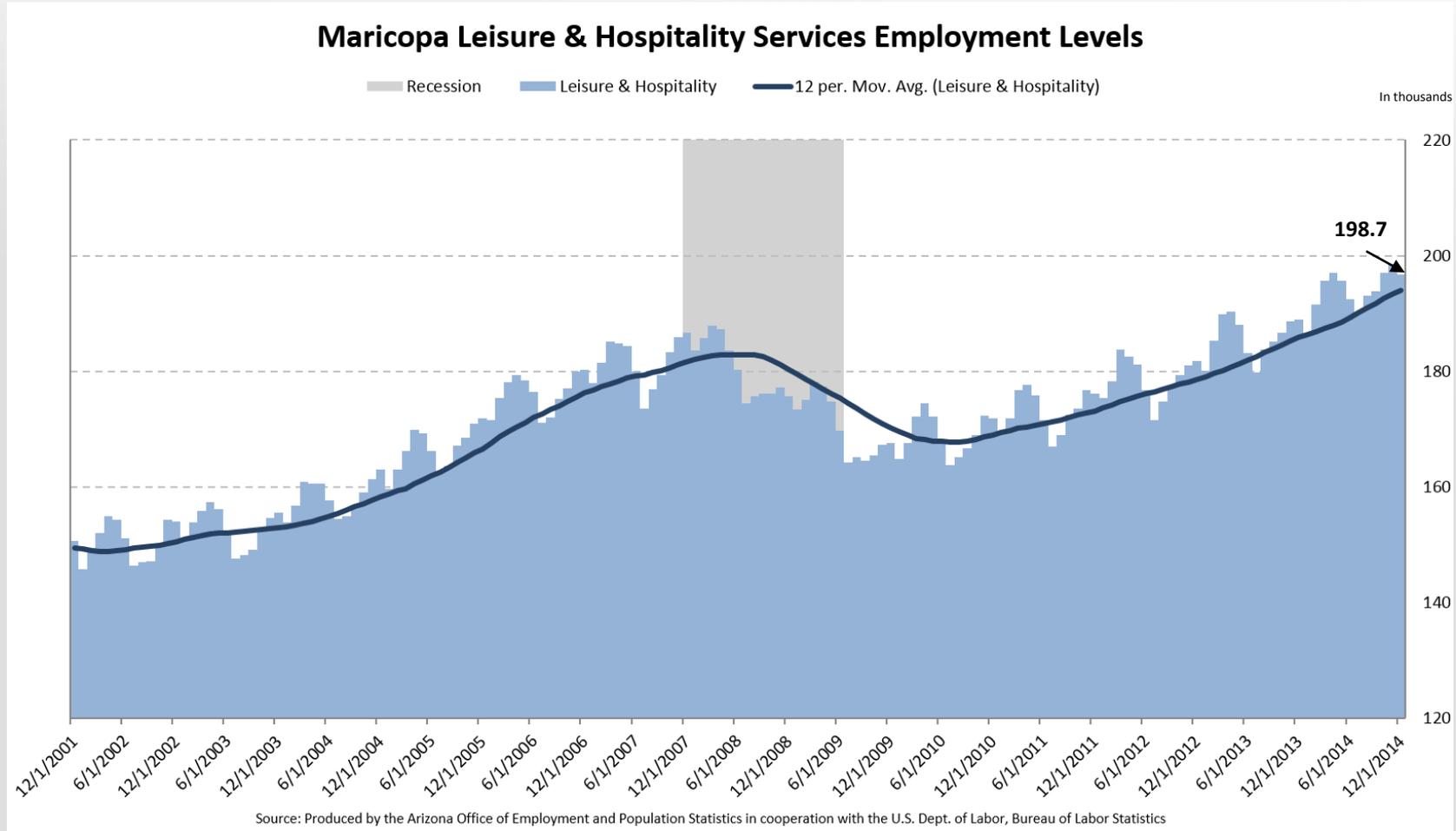
## CES Health Care



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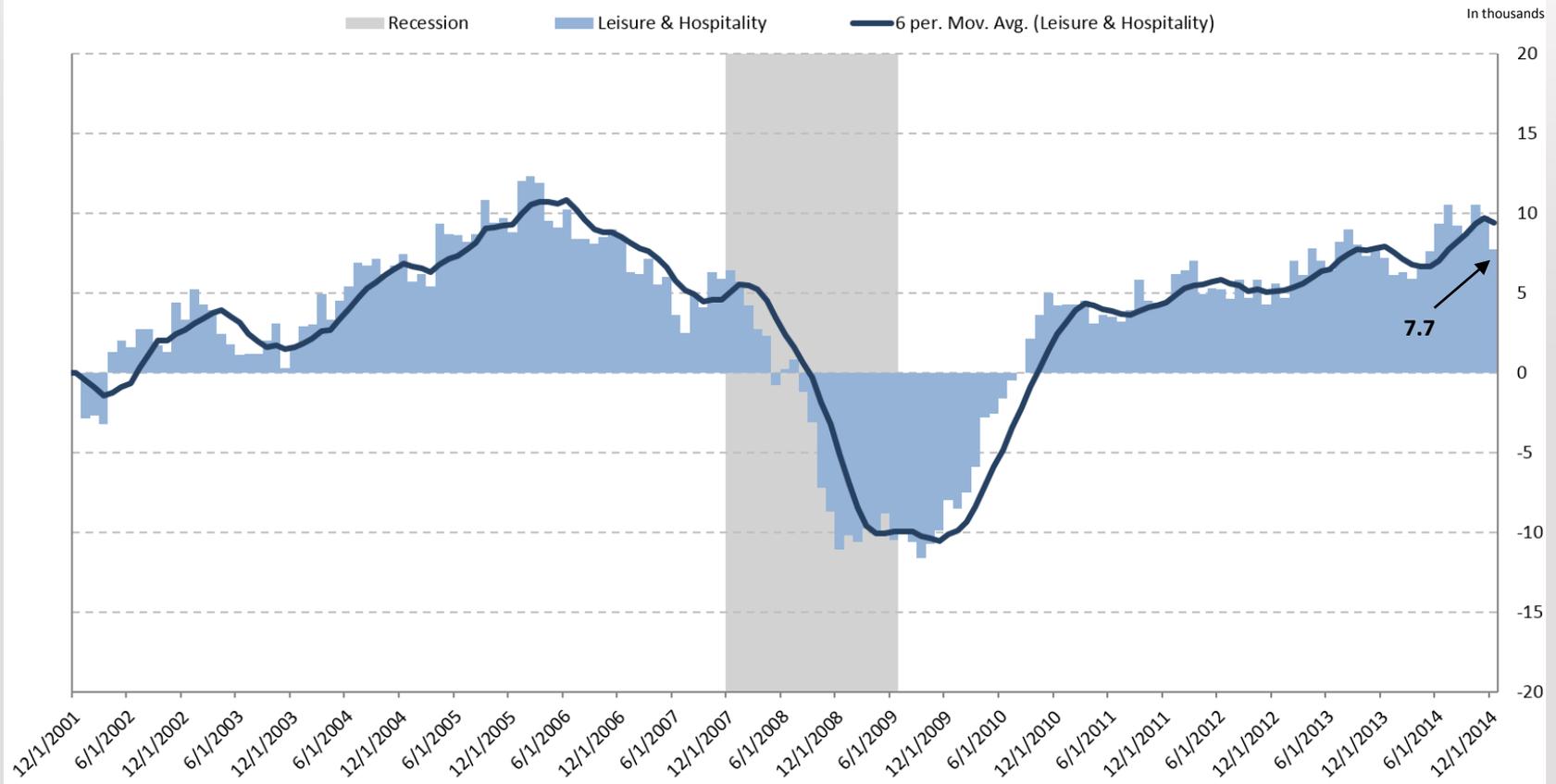


## CES Leisure and Hospitality



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### Maricopa Leisure & Hospitality Over The Year Employment Change

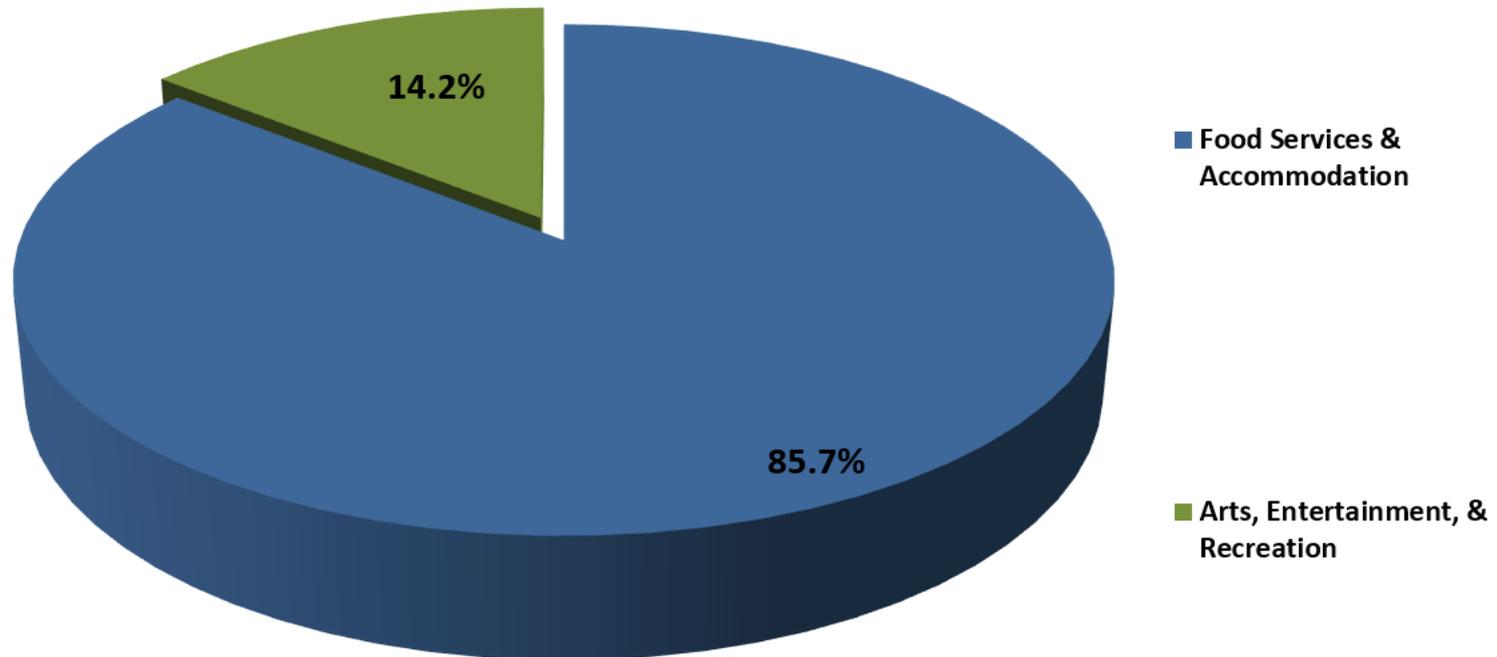


Source: Produced by the Arizona Office of Employment and Population Statistics in cooperation with the U.S. Dept. of Labor, Bureau of Labor Statistics

## CES Leisure and Hospitality

### Phoenix MSA Leisure and Hospitality Shares

2014 Annual Average, Not Seasonally Adjusted

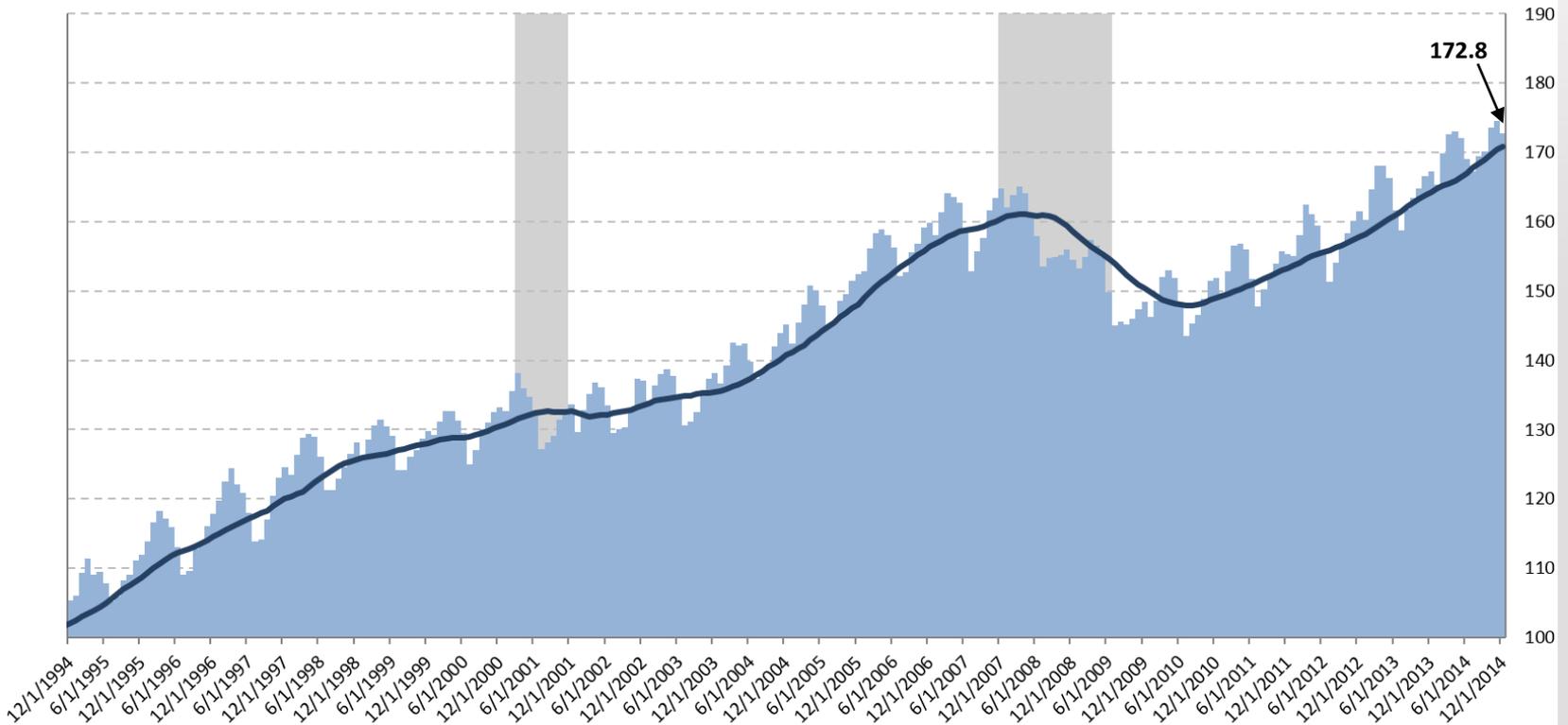


Source: Produced by the Arizona Office of Employment and Population Statistics in cooperation with the U.S. Dept. of Labor, Bureau of Labor Statistics

## CES Leisure and Hospitality

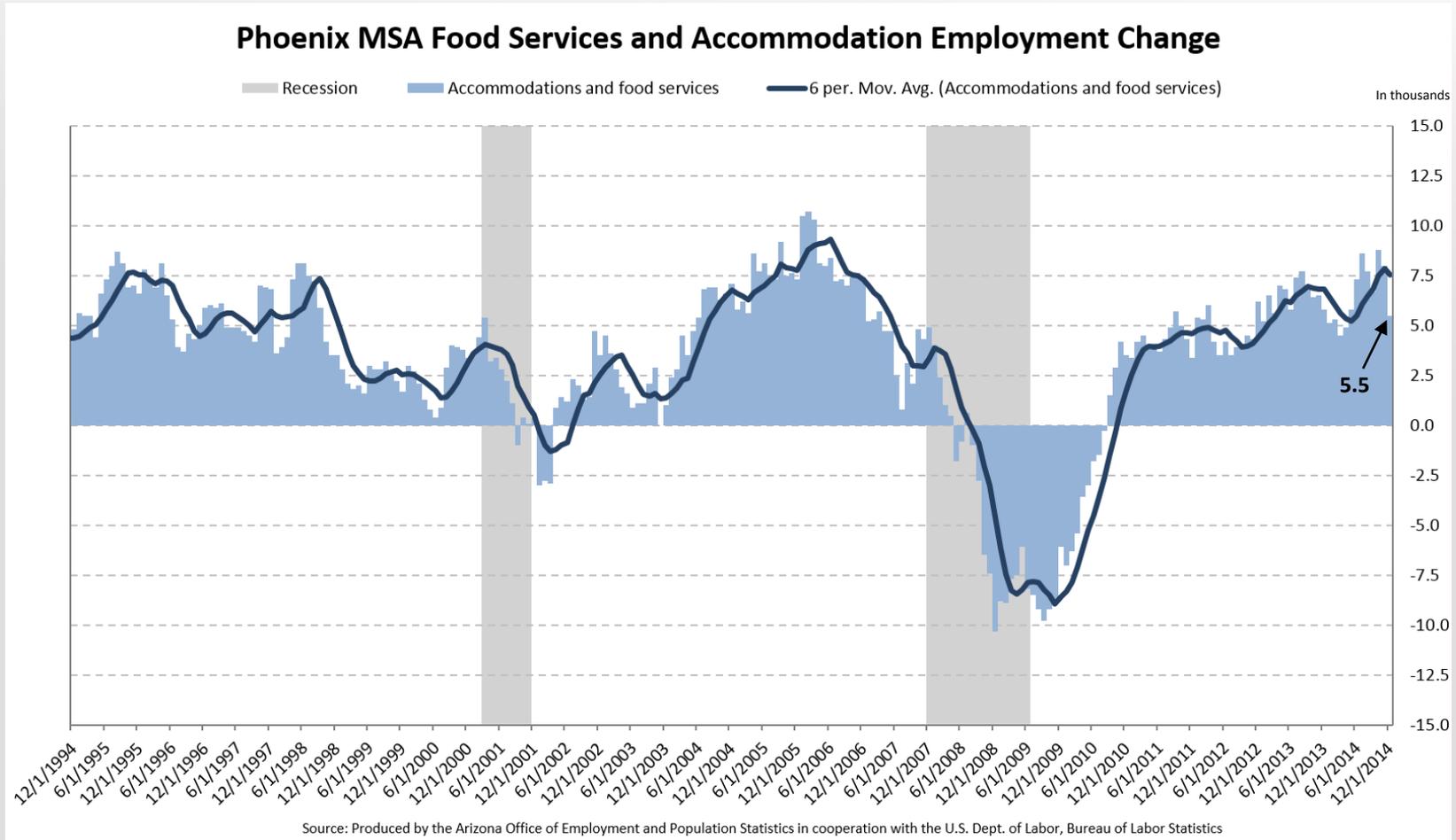
### Phoenix MSA Food Services and Accommodation Employment Level

Recession Accommodations and food services 12 per. Mov. Avg. (Accommodations and food services) In thousands

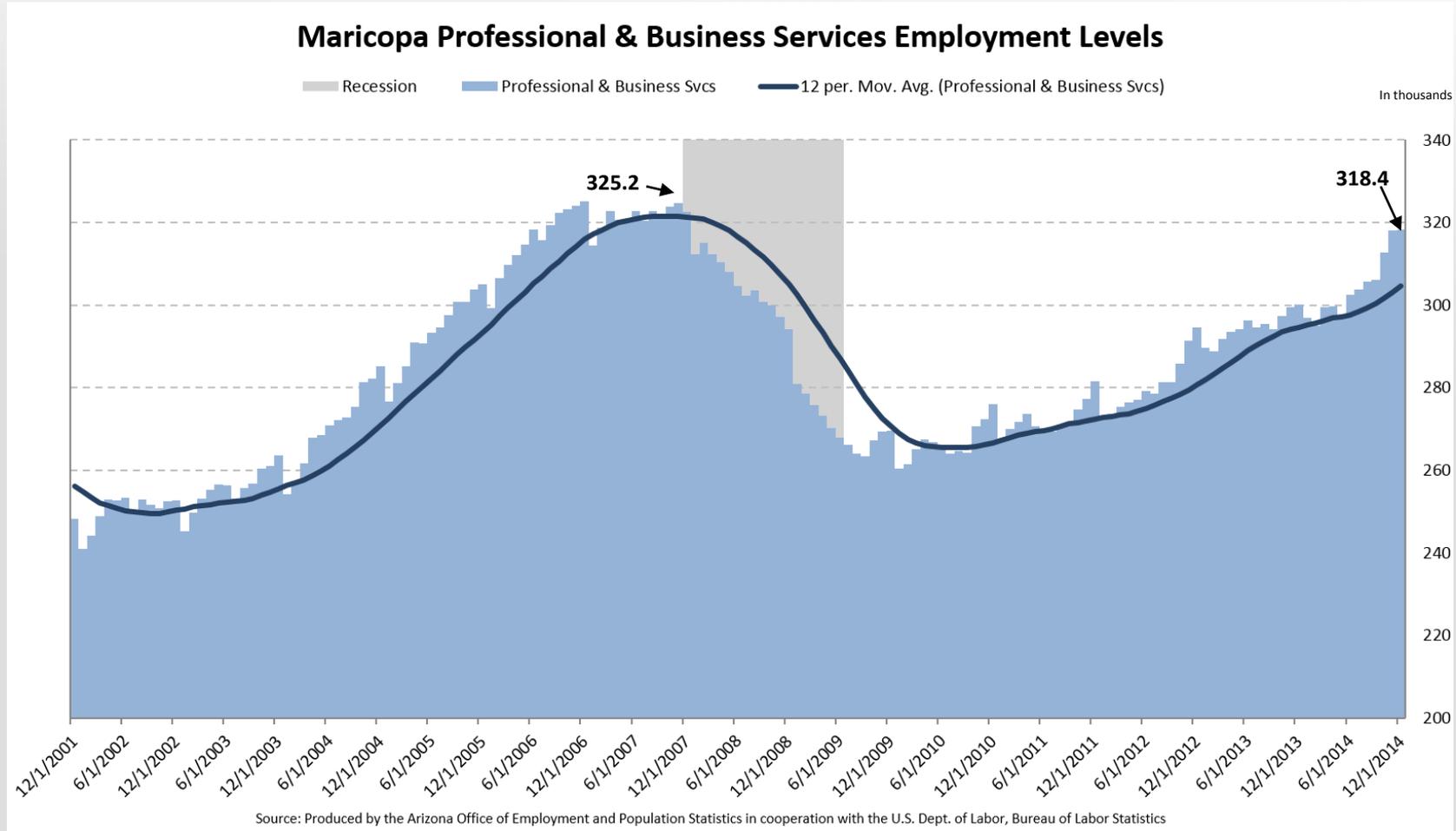


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## CES Leisure and Hospitality

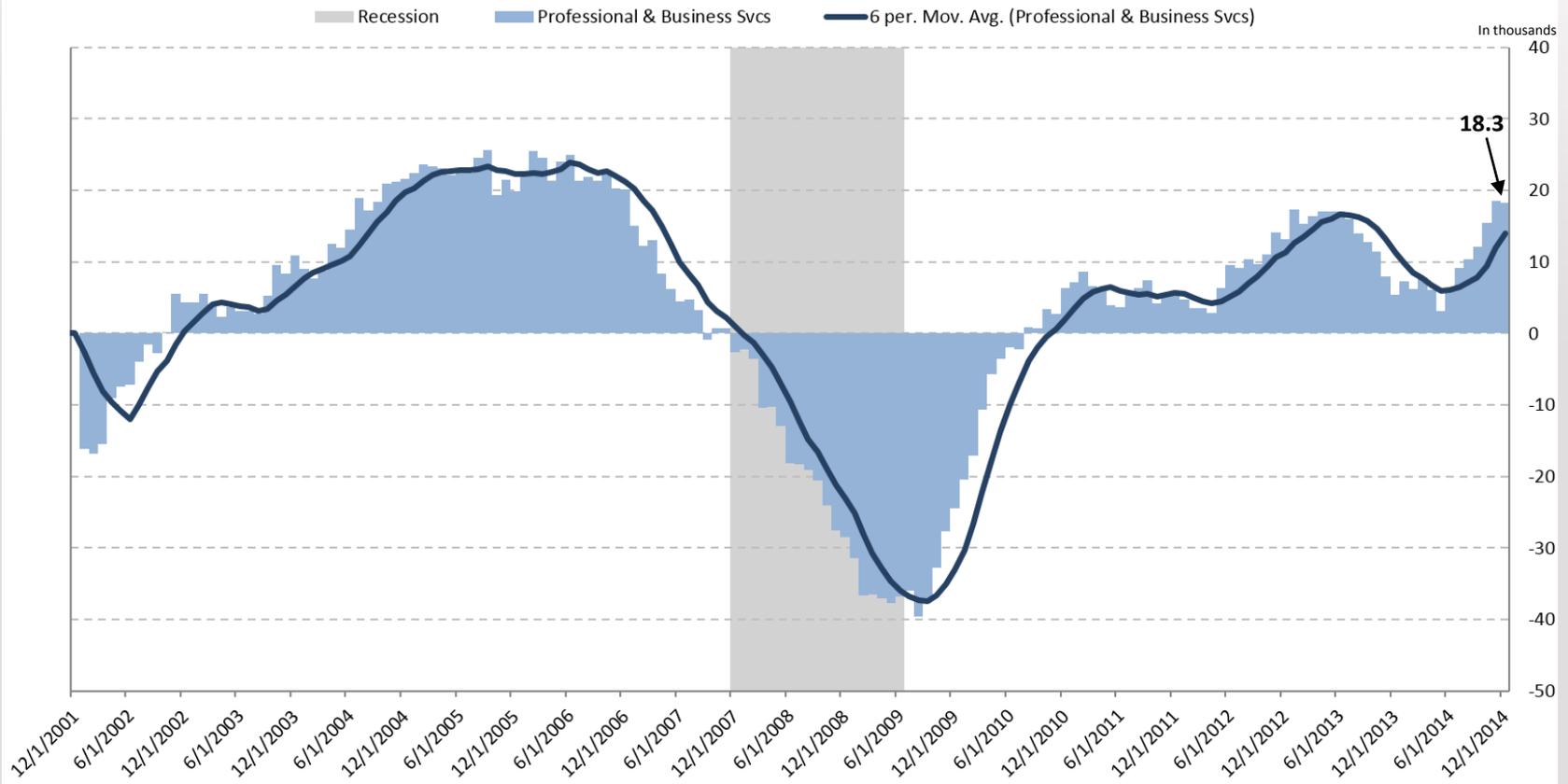


## CES Professional Business Services



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### Maricopa Professional & Business Services Over The Year Employment Change

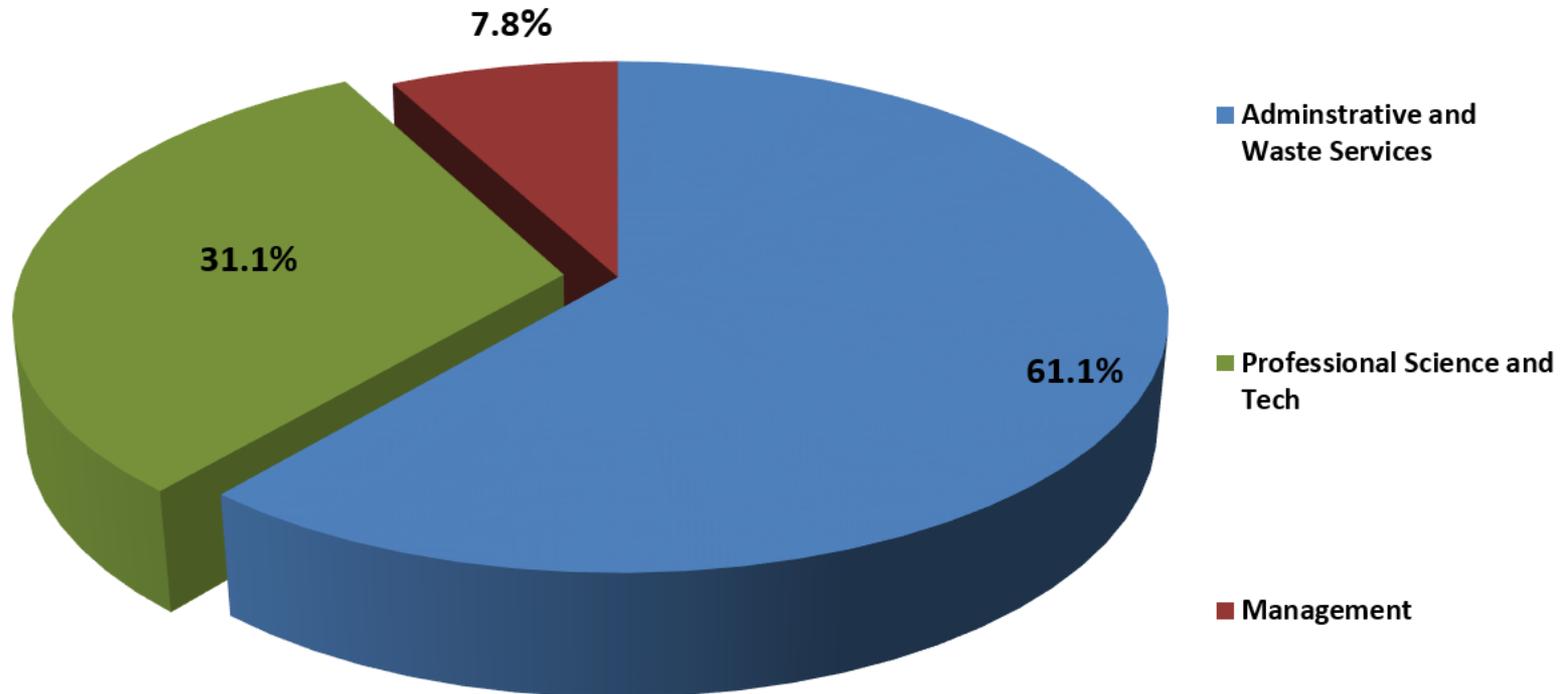


Source: Produced by the Arizona Office of Employment and Population Statistics in cooperation with the U.S. Dept. of Labor, Bureau of Labor Statistics

# CES Professional Business Service

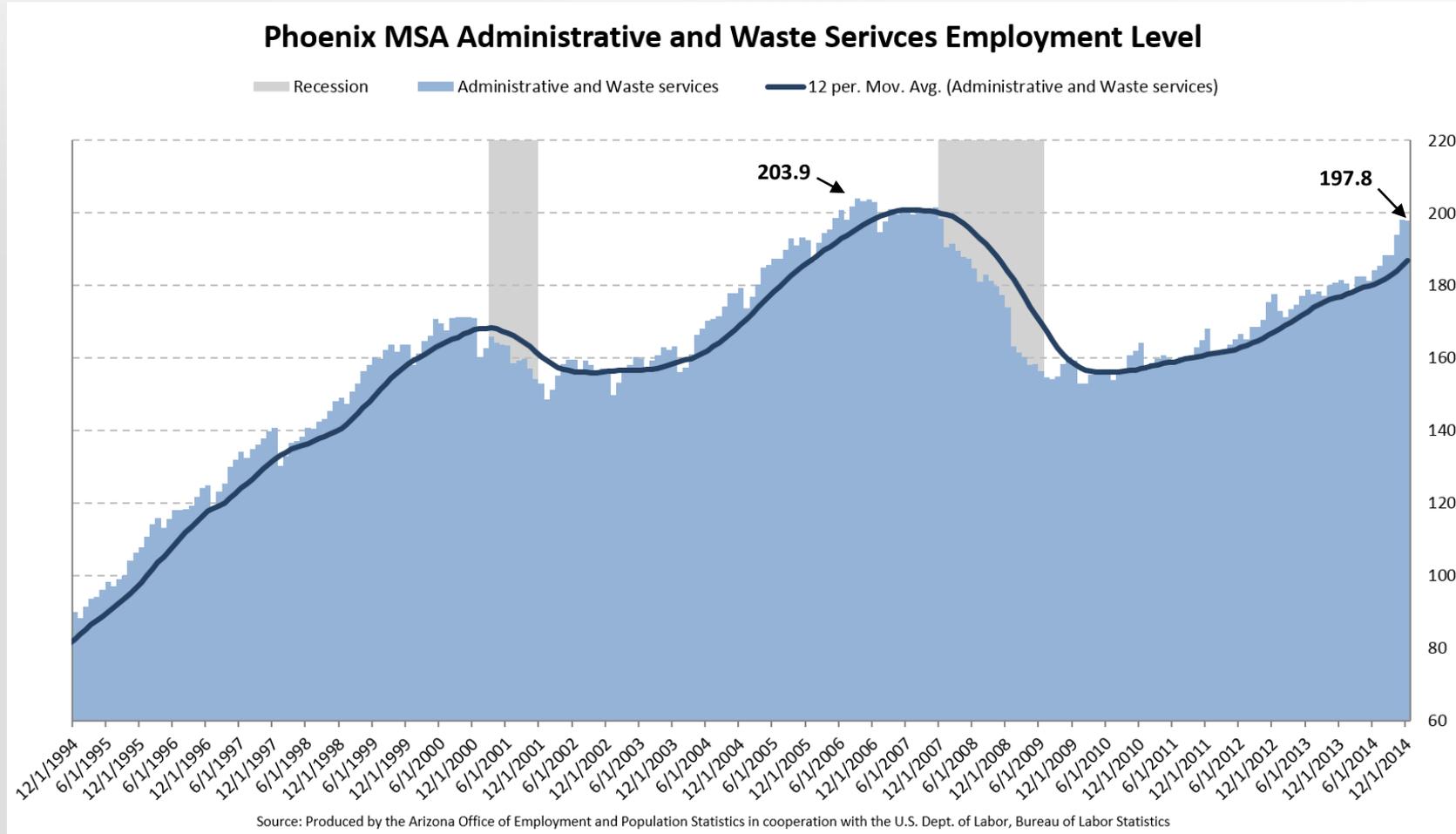
## Phoenix MSA Professional Business Serv Employment Share

December 2014, Not Seasonally Adjusted

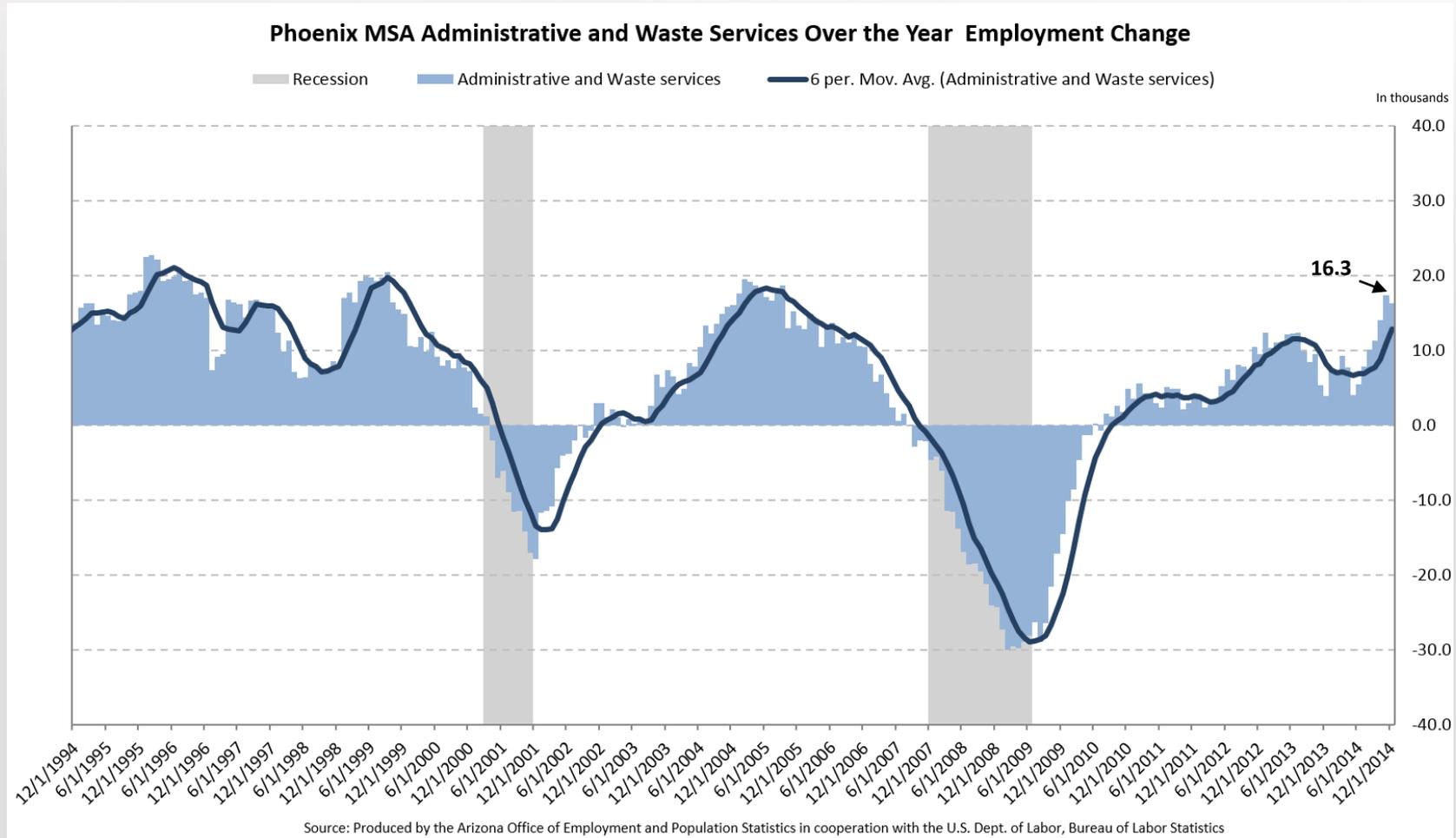


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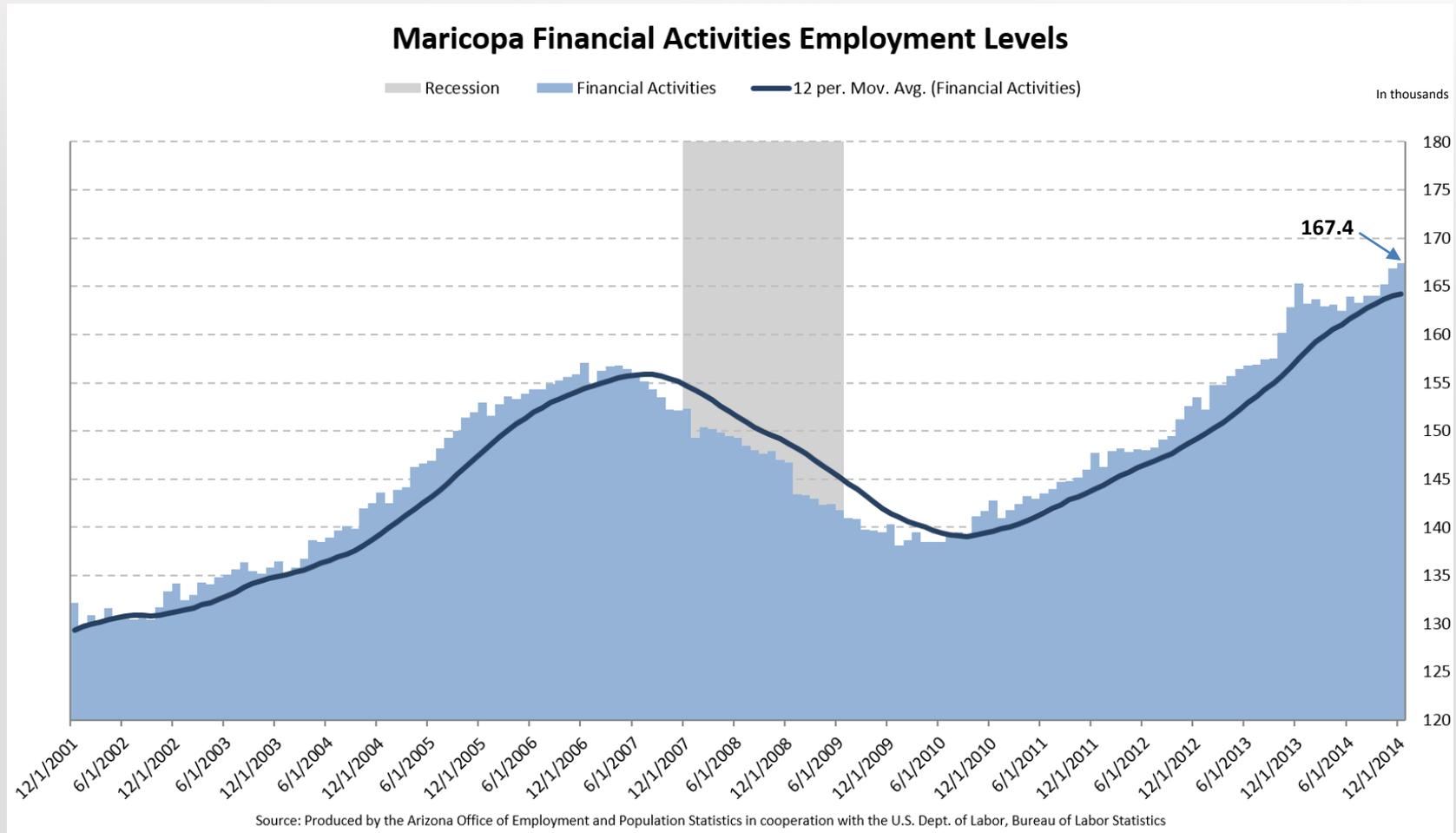
## CES Professional Business Services



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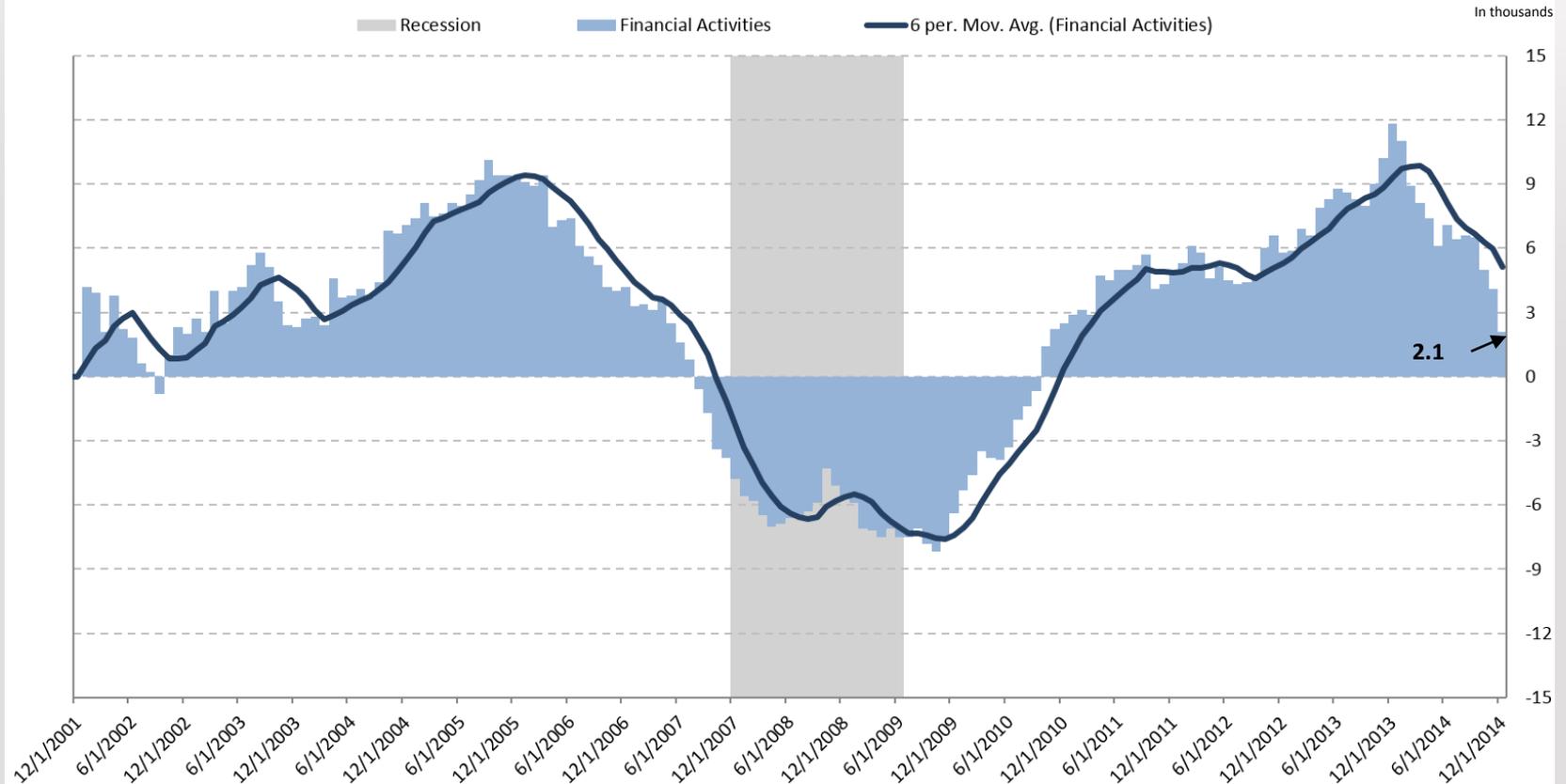


## CES Financial Activities



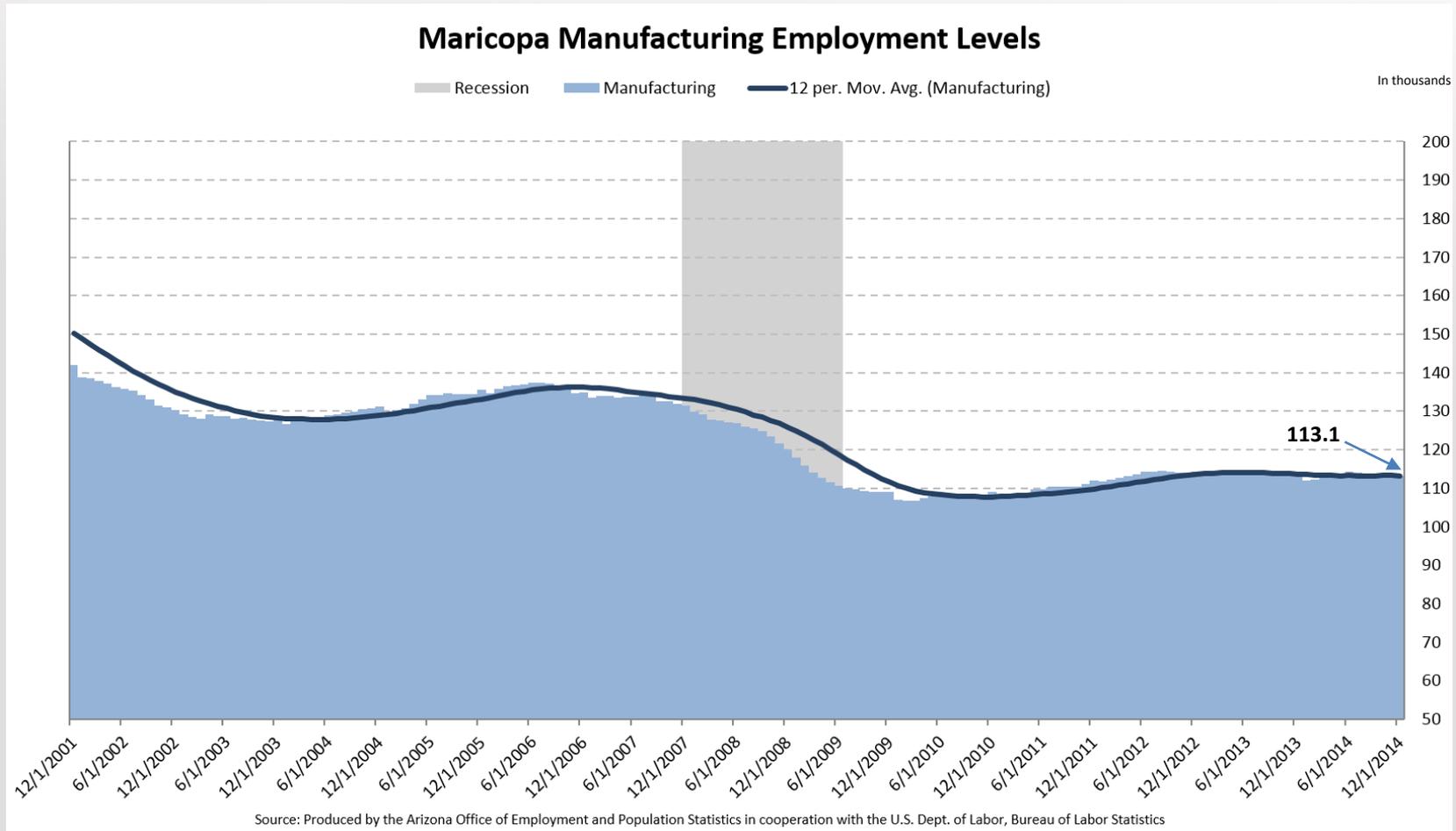
## CES Financial Activities

### Maricopa Financial Activities Over The Year Employment Change

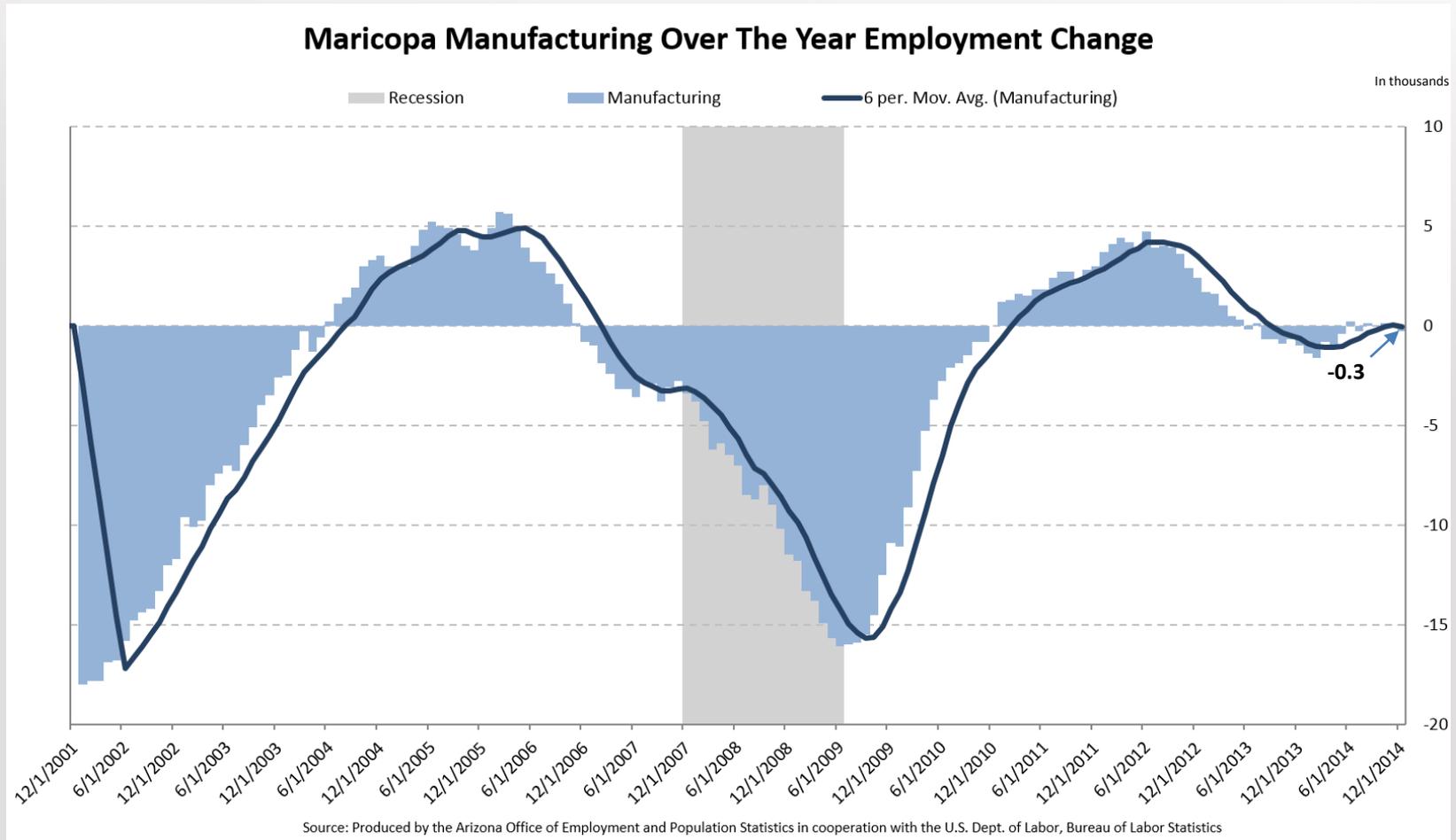


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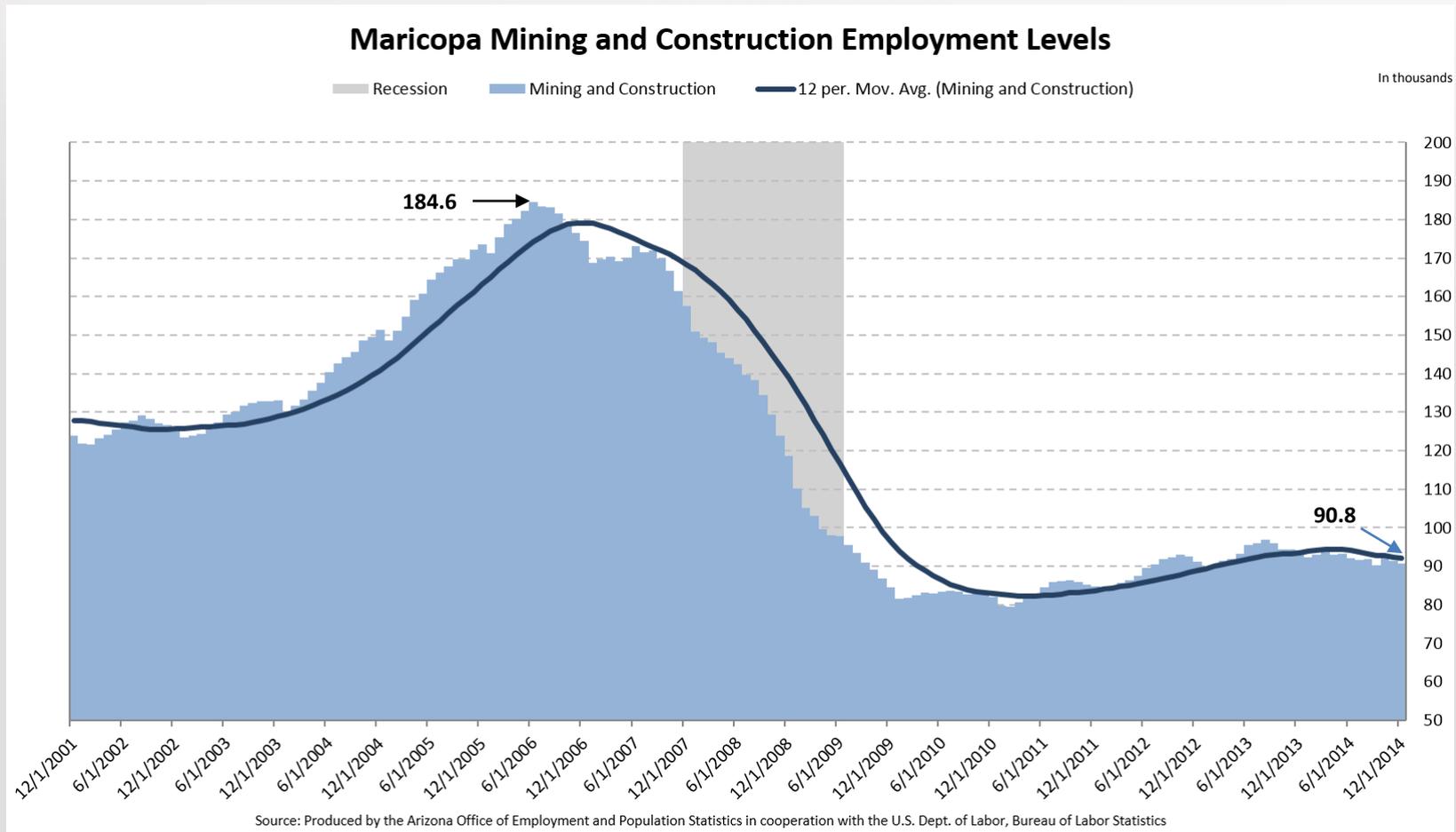
## CES Manufacturing



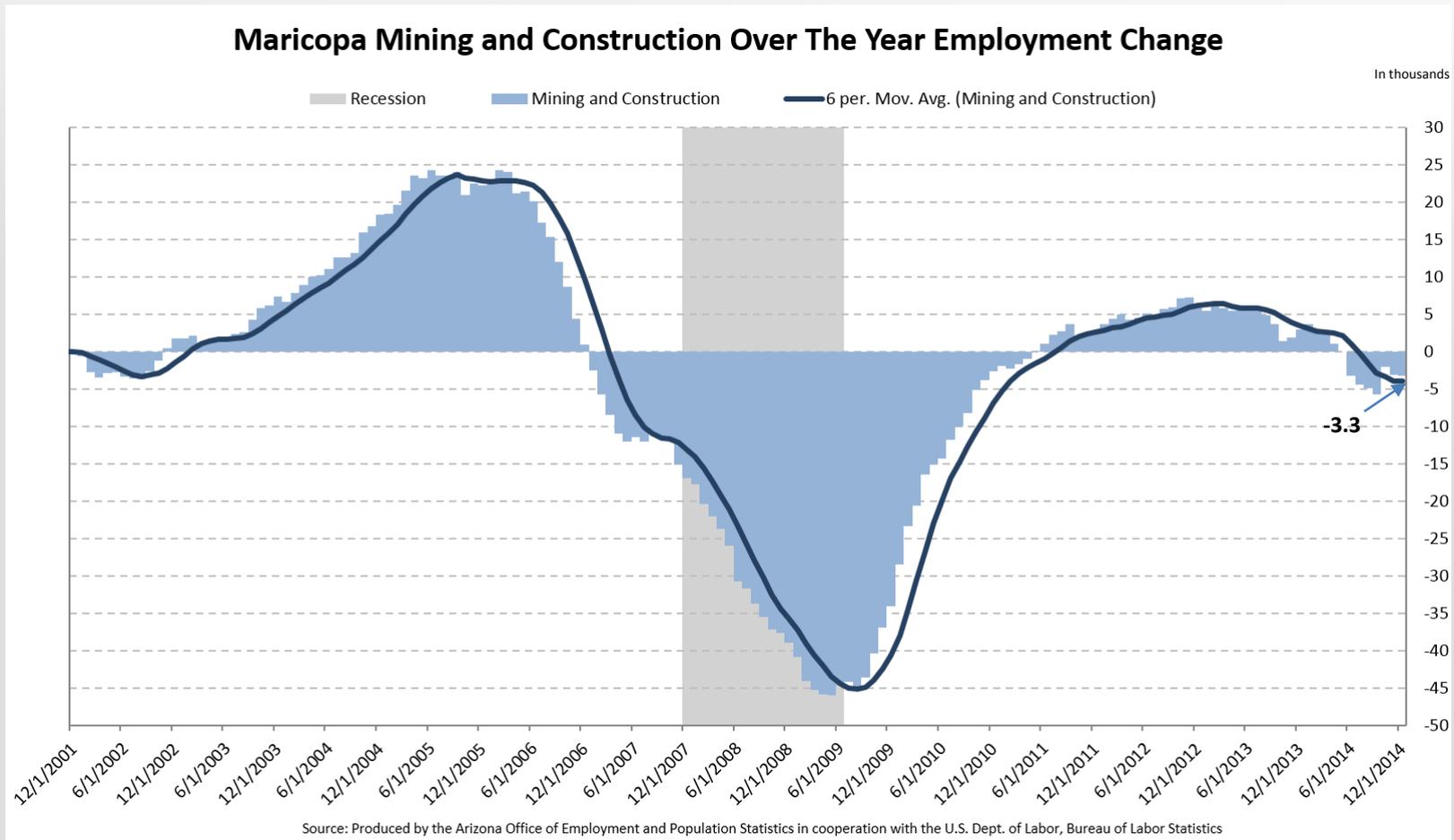
## CES Manufacturing



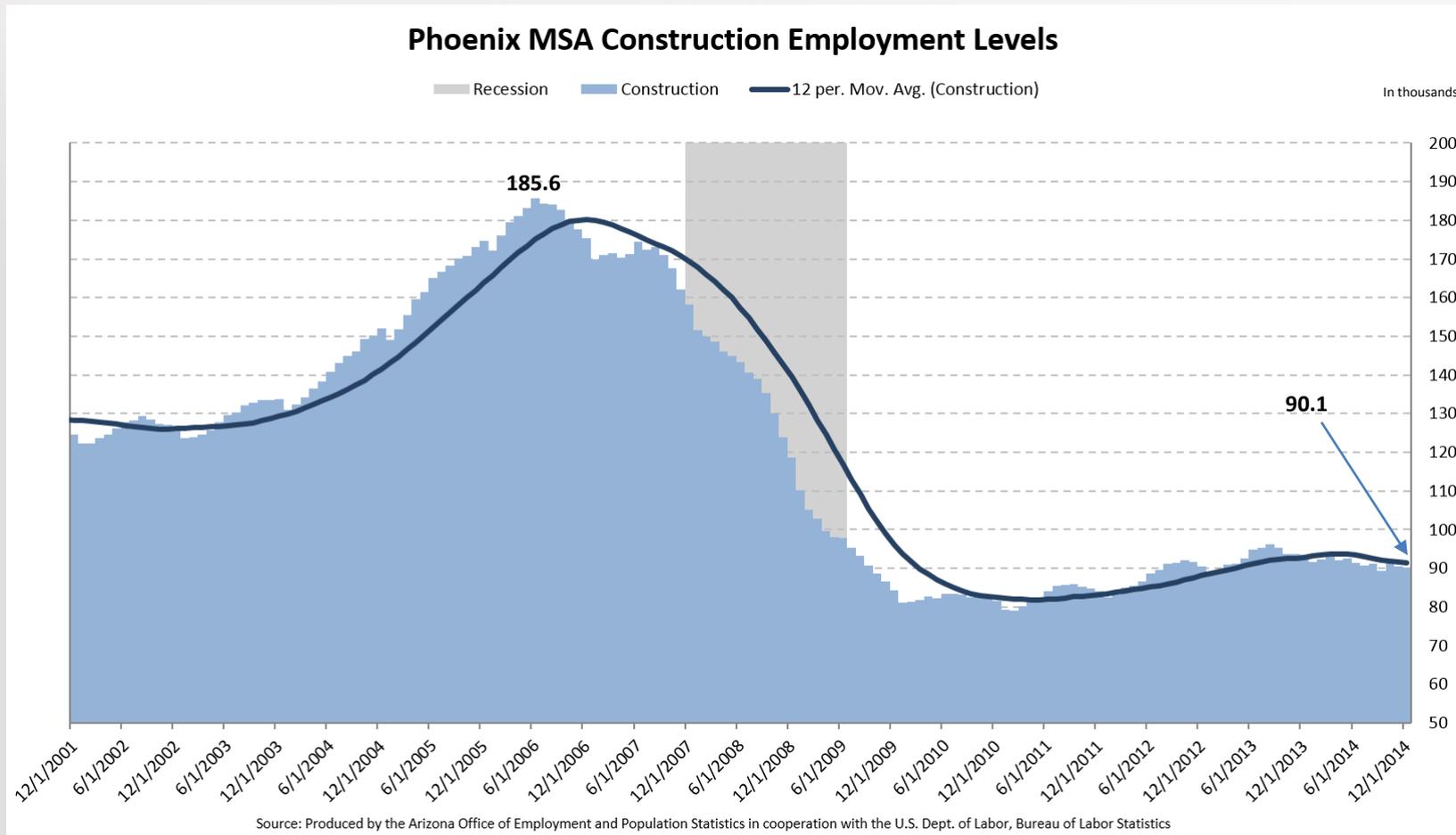
## CES Mining and Construction



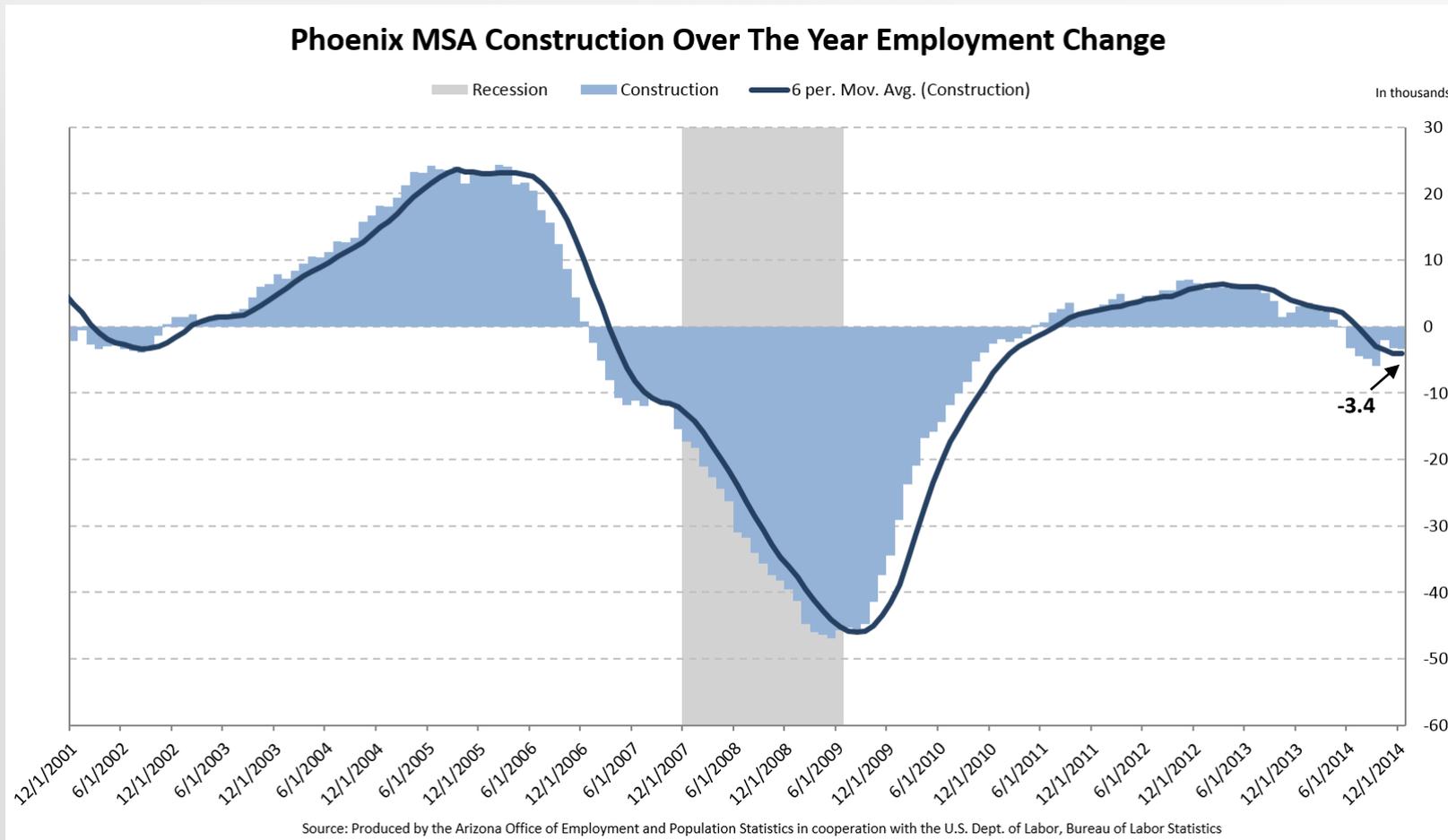
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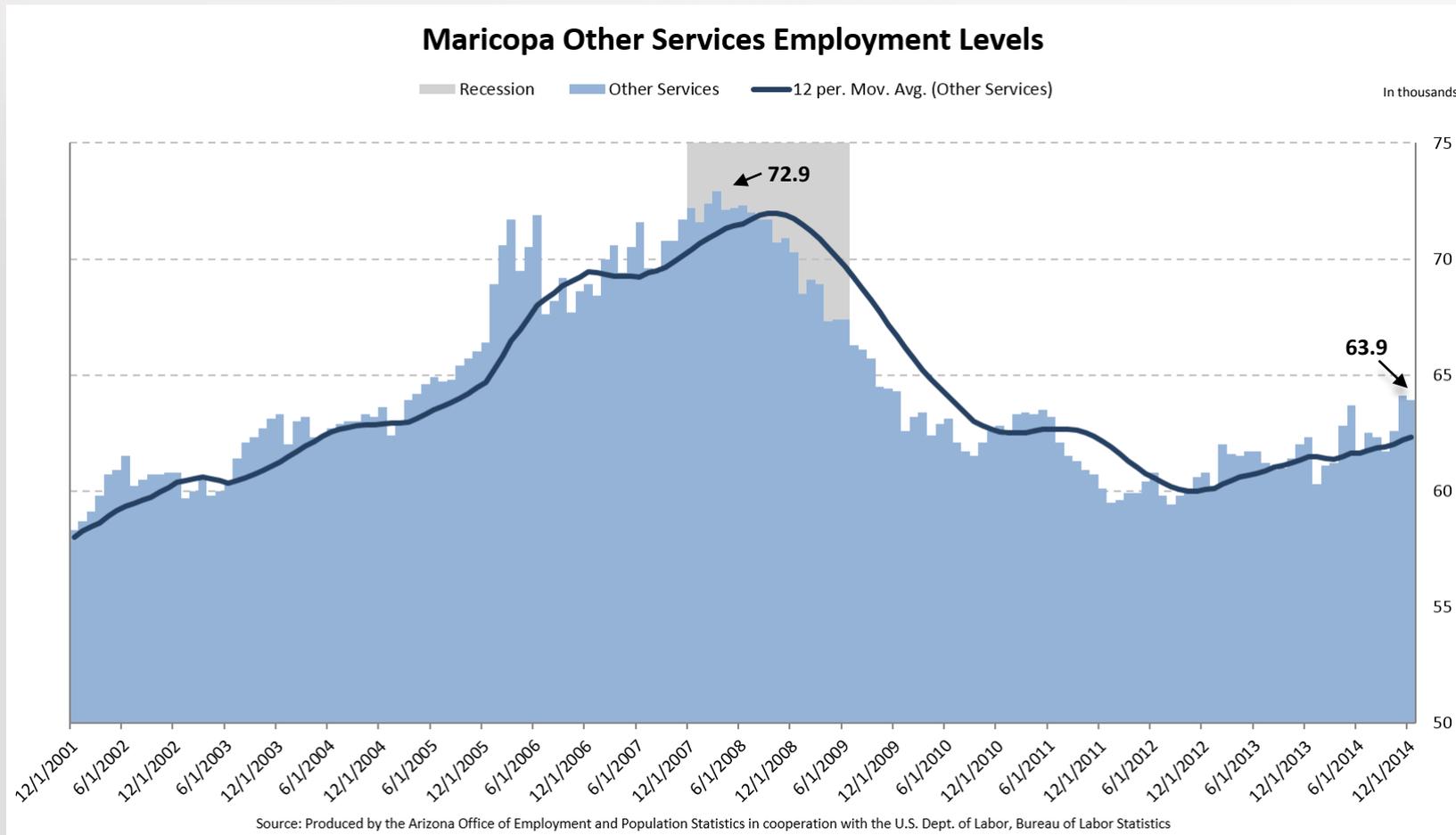
## CES Construction



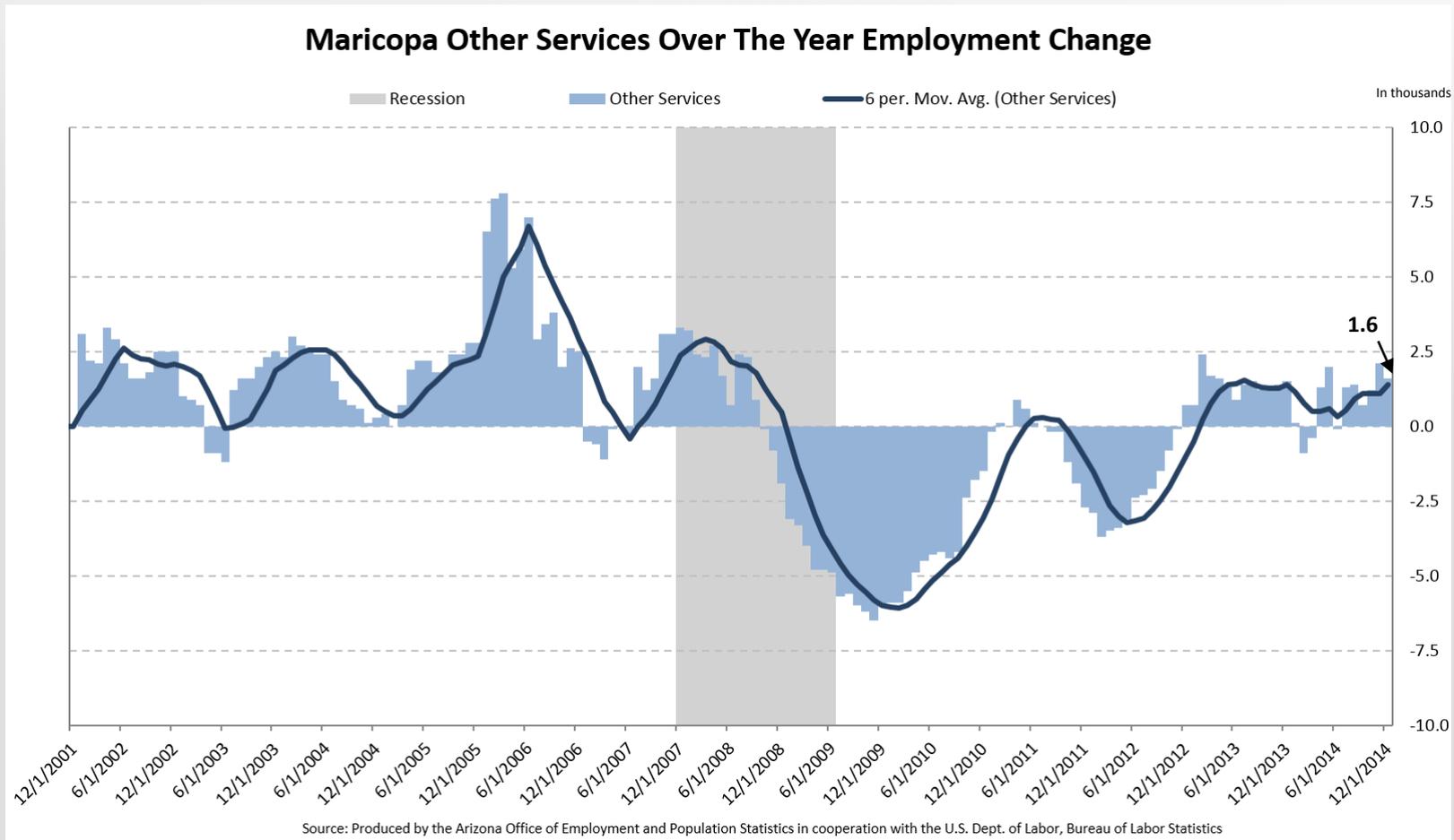
## CES Construction



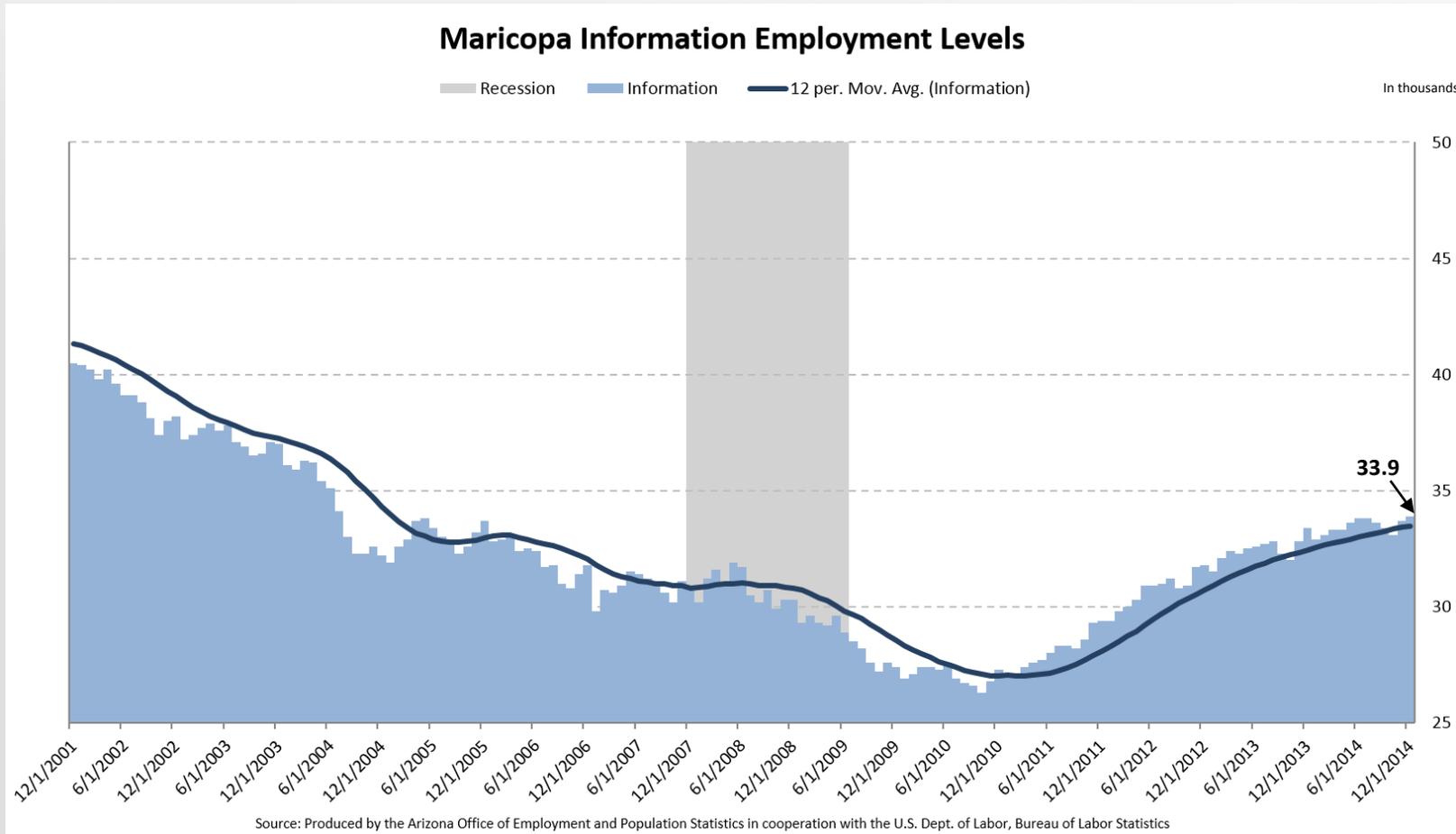
## CES Other Services



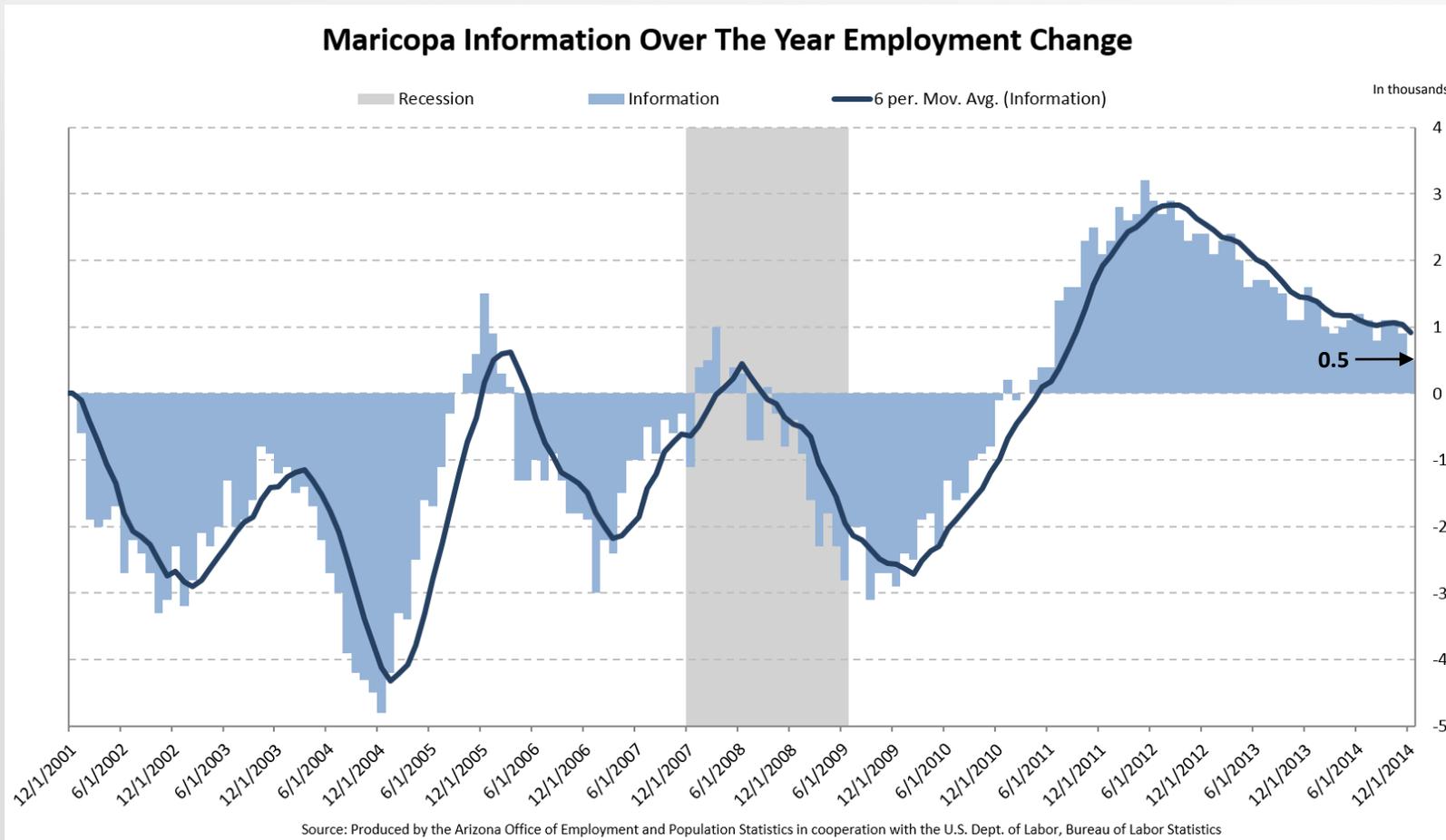
## CES Other Services



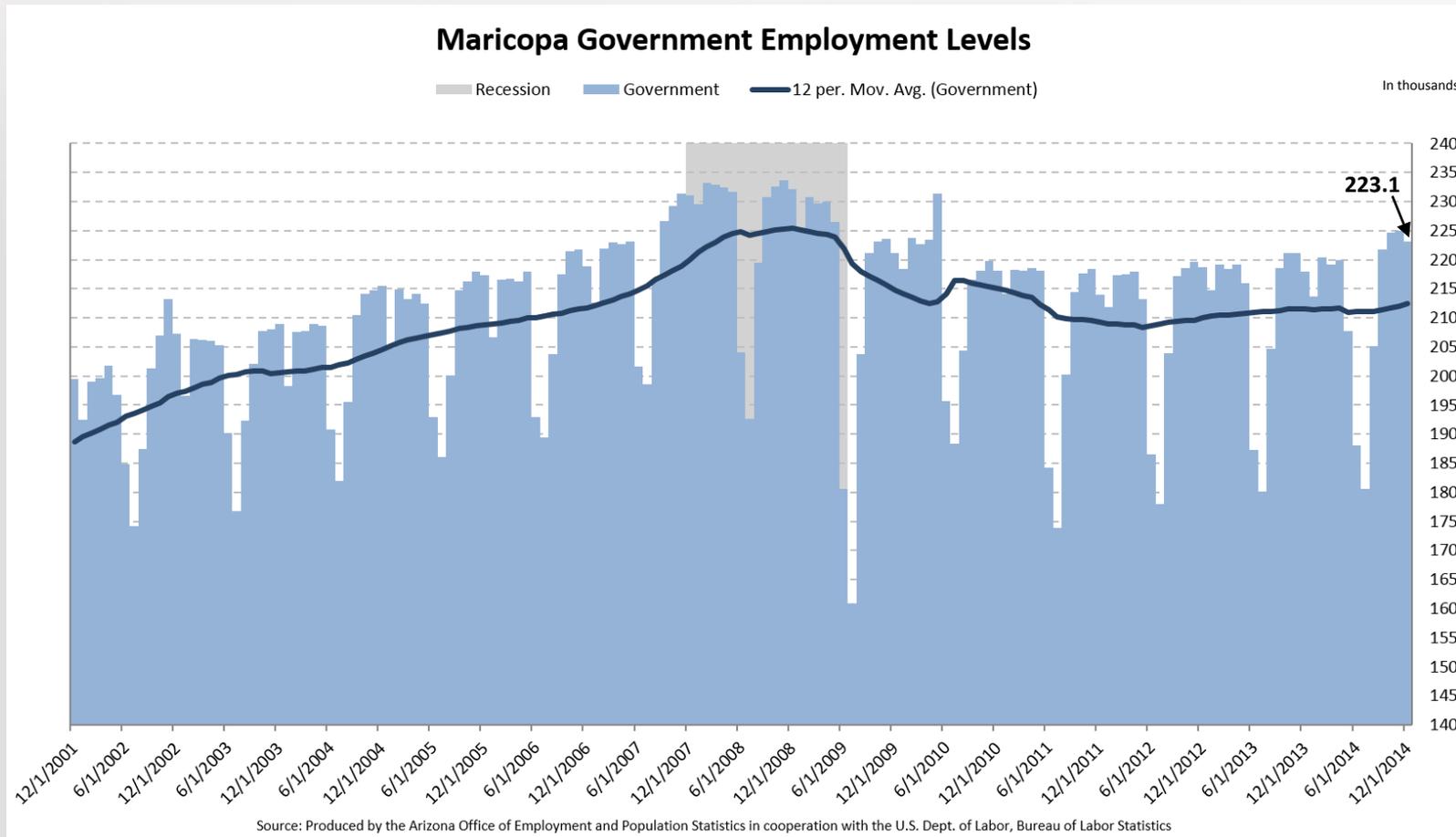
## CES Information



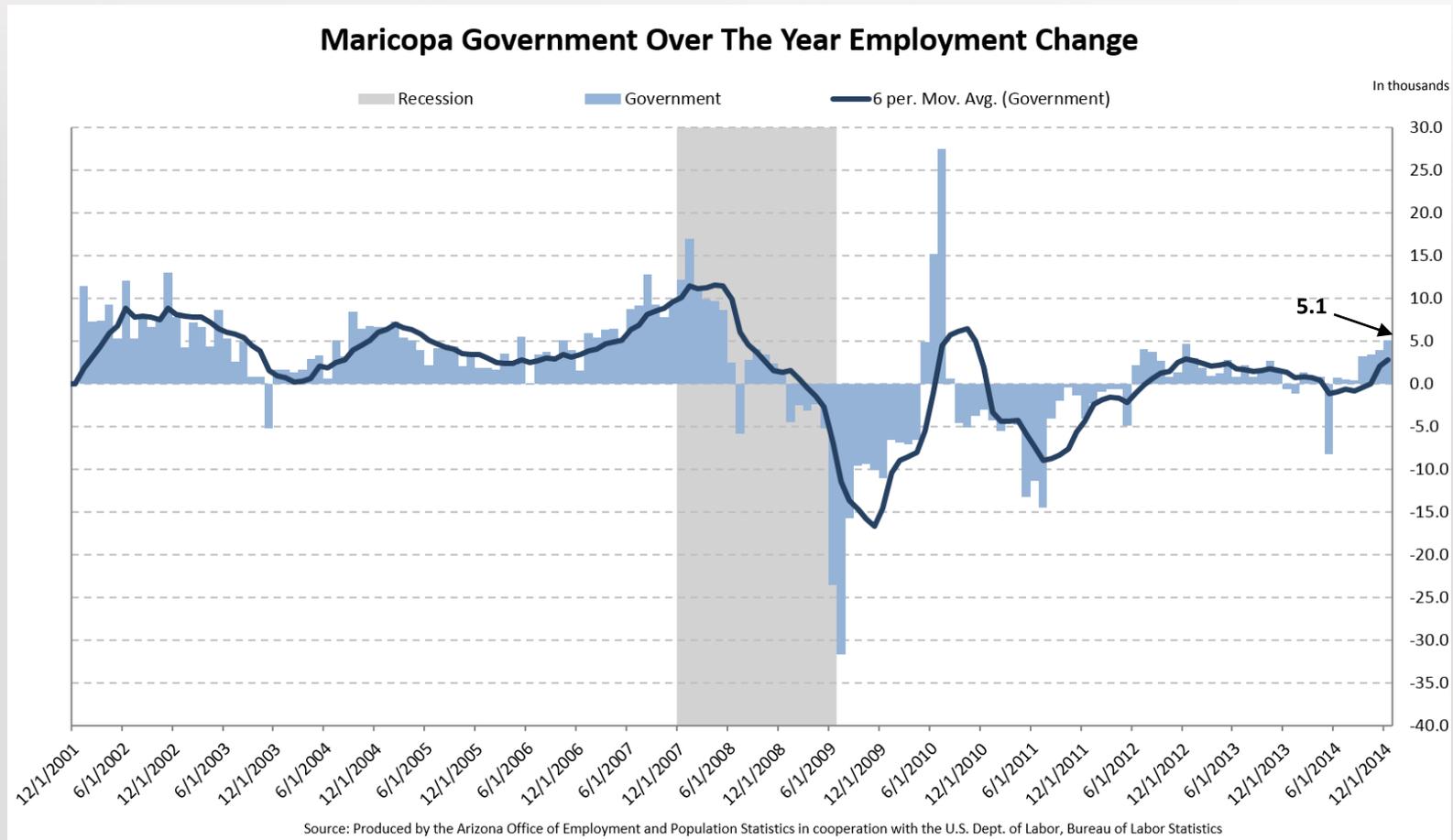
## CES Information



## CES Government



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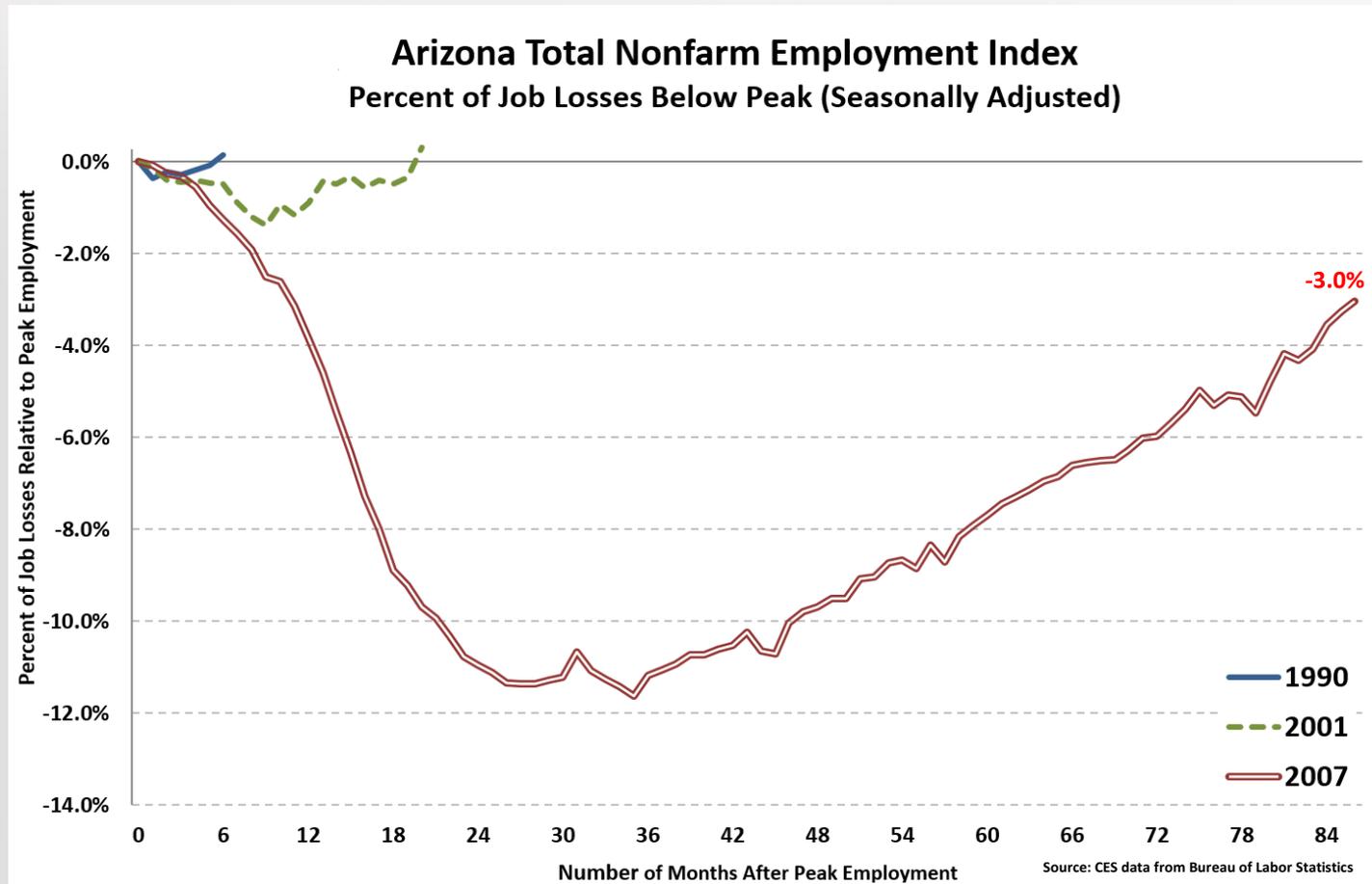


# Labor Market Information

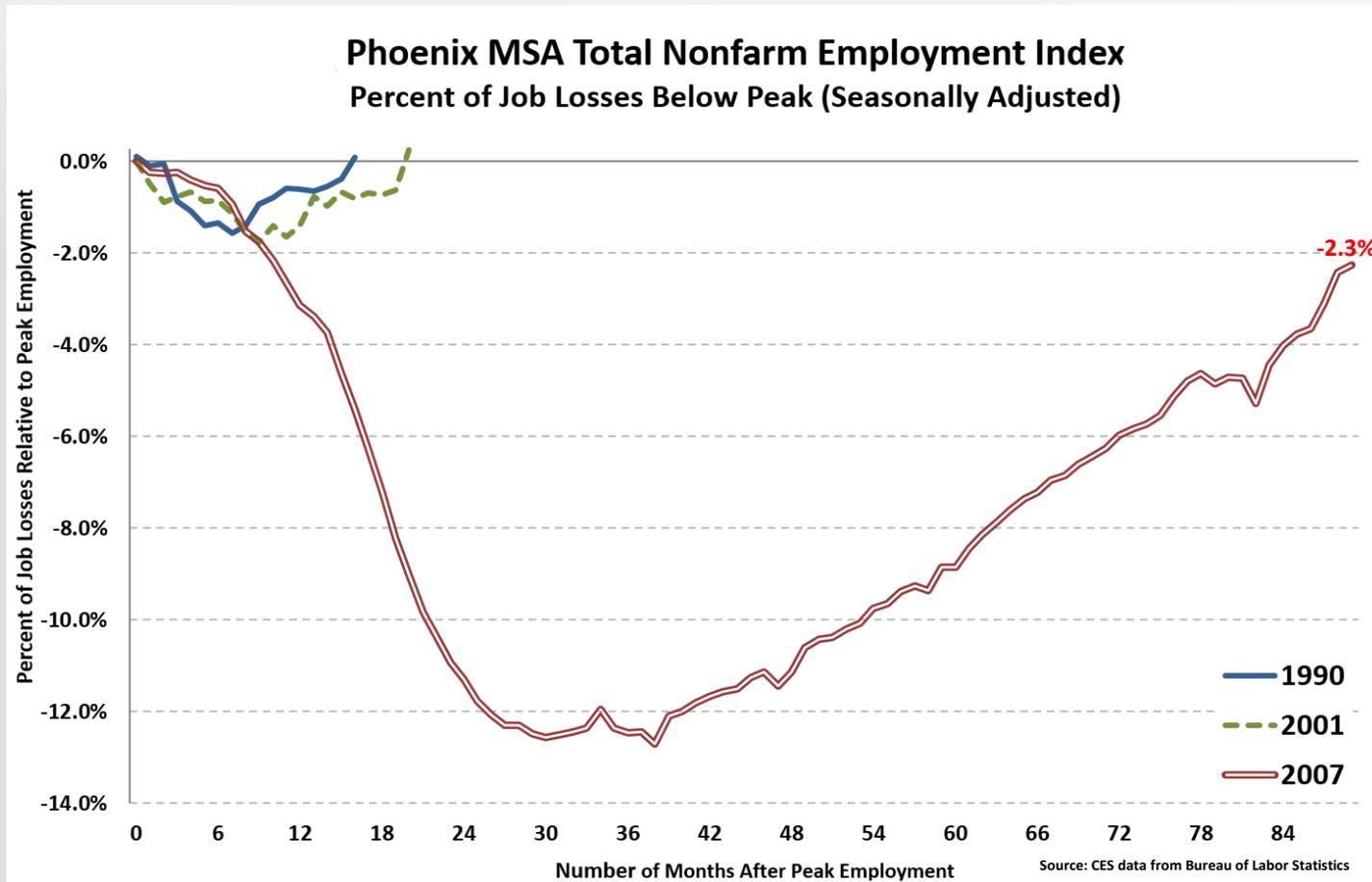
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## Post Recession Recovery

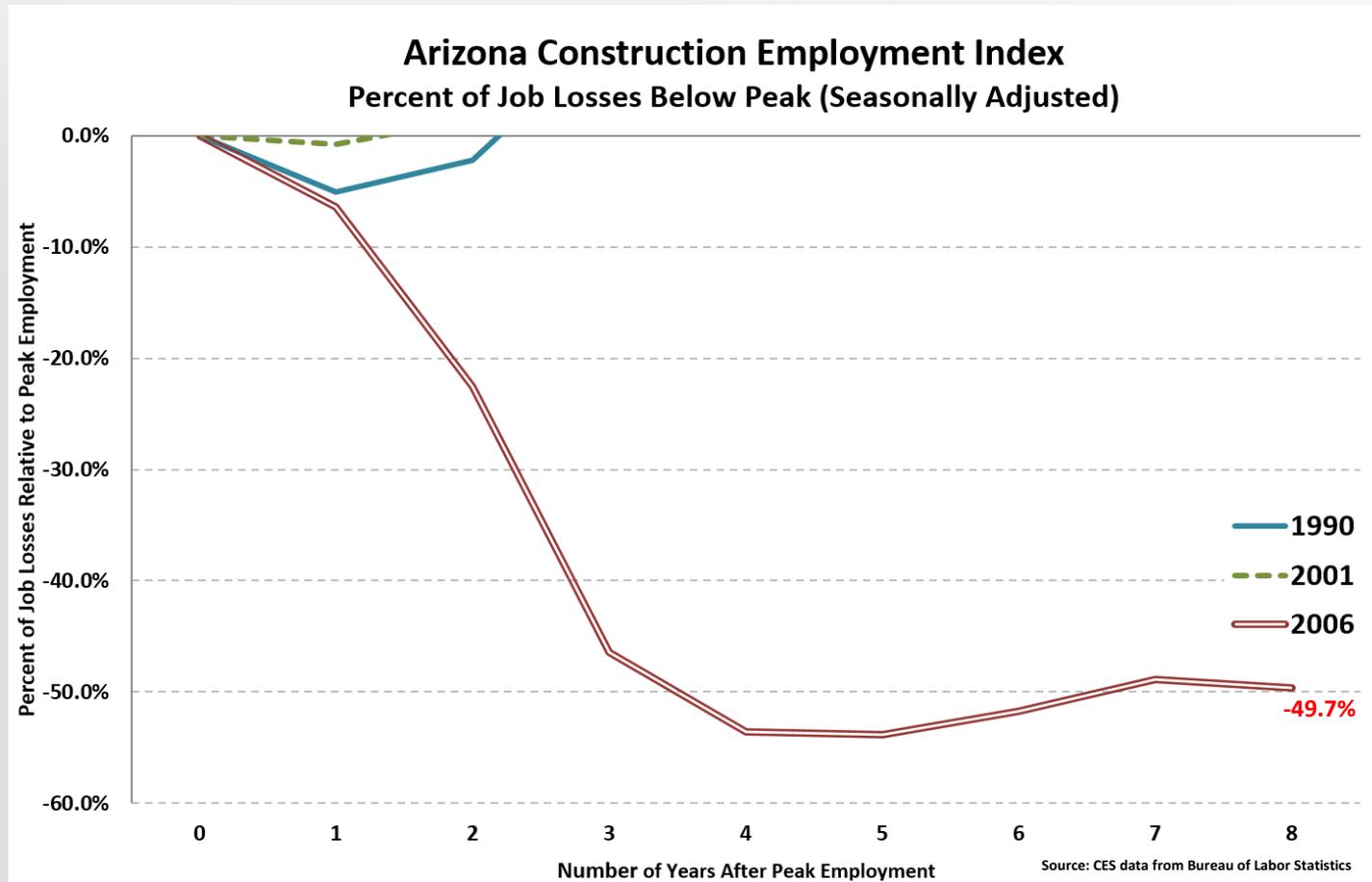
## Employment Recovery



## Employment Recovery

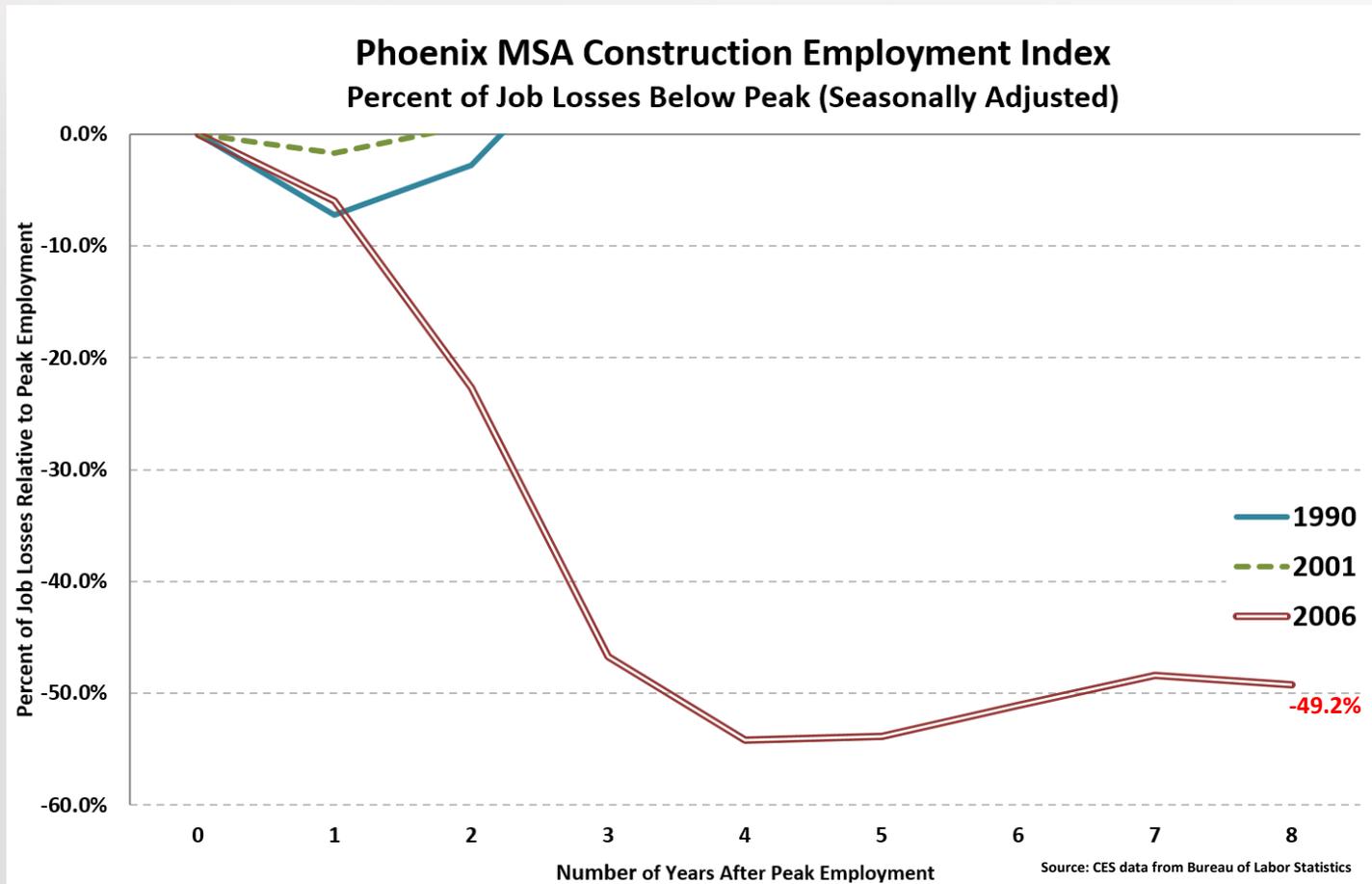


## Construction Recovery



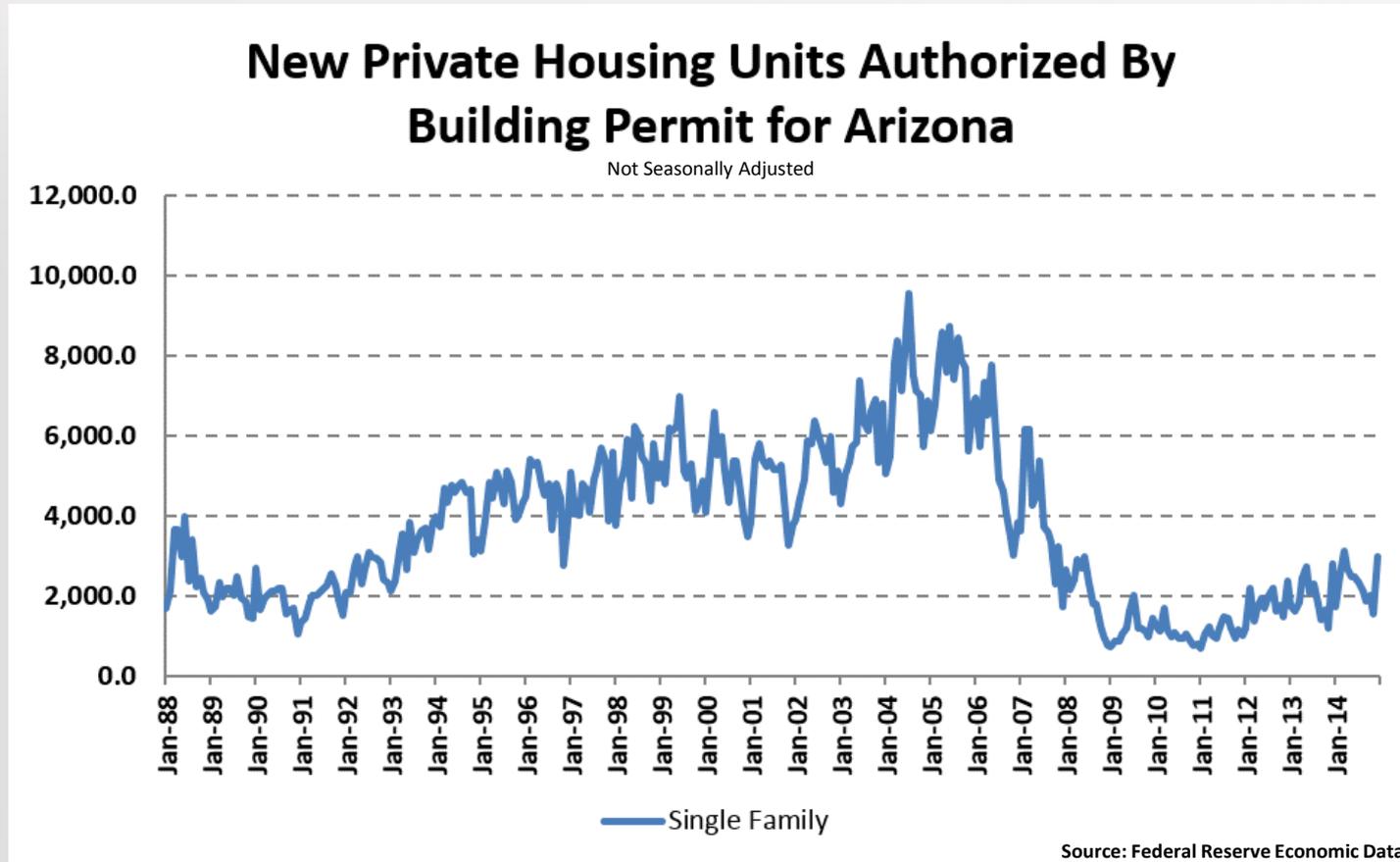
Region : Arizona(Statewide)

## Construction Recovery



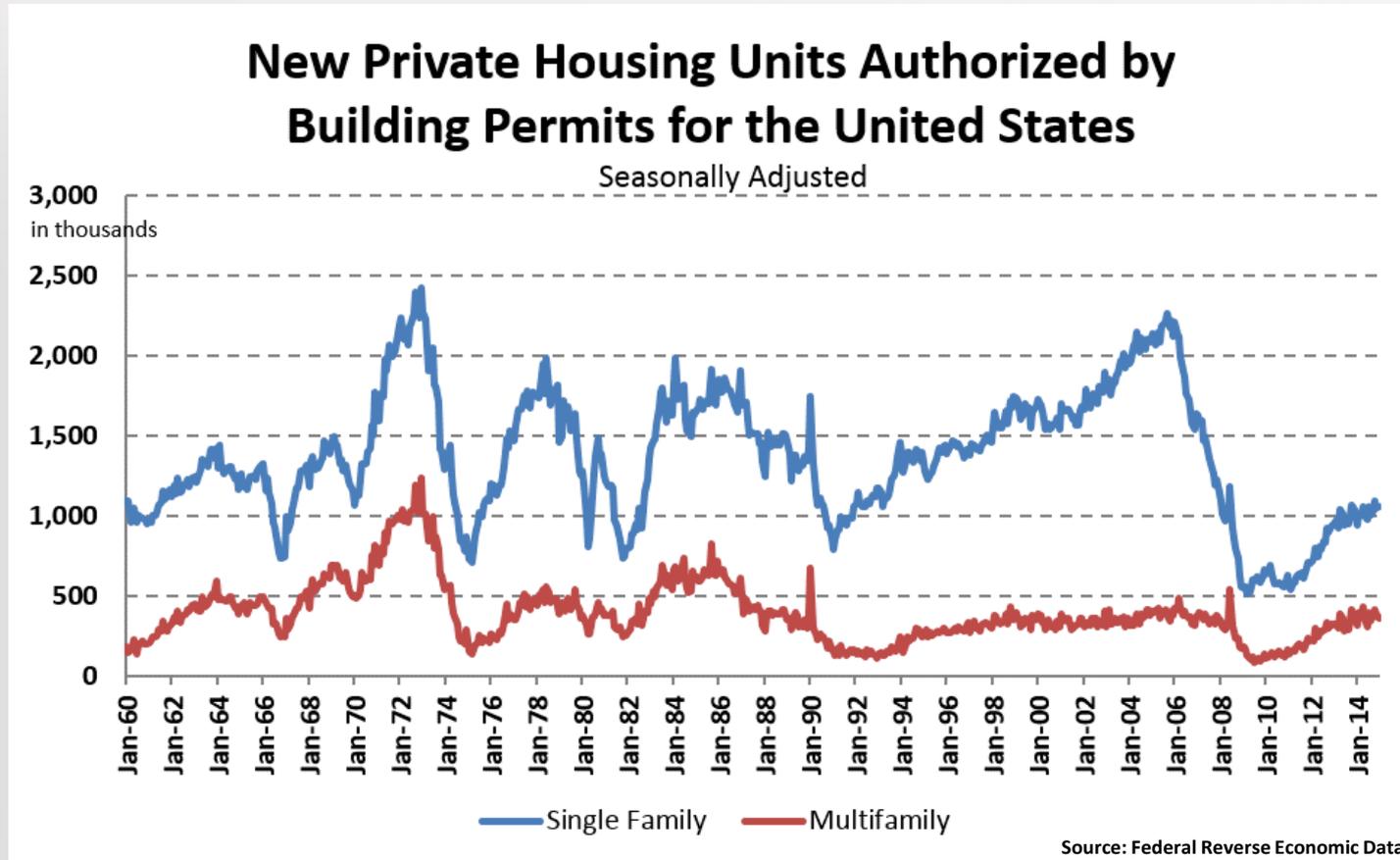
Region : Arizona(Statewide)

## Housing Recovery



Region : Arizona(Statewide)

## Housing Recovery



Region : United States(Nationwide)

## Employment Forecast

### Industry Projections

- Estimates are categorized by what an industry does (North American Classification System, NAICS)
- Industry projections are produced using monthly and quarterly employment data series, non-covered employment data, and various economic indicators

### Occupation Projections

- Estimates are categorized by what the worker does (Standard Occupational Classification System, SOC)
- Occupation projections are produced using industry projections in conjunction with industry staffing patterns

Available at <https://laborstats.az.gov/employment-forecasts>

# Employment Forecast

## Industry Projections

<https://laborstats.az.gov/employment-forecasts>

### Short Term (2 years)

- Annual Publication
- Current Period: 2014-2016
- Produced for the State, Phoenix and Tucson MSA, and Balance of State areas

### Long Term (10 years)

- Biennial Publication
- Current Period: 2012-2022
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# Employment Forecast

## Occupation Projections

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# **Short Term Industry & Occupational Employment Projections**

**To be released on February 26, 2015**

# Arizona Department of Administration

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## Employment and Population Statistics

### Contact Information

**Website:** <https://laborstats.az.gov/>

**Phone:** 602.771.2222

**Email:** [labor.info@azstats.gov](mailto:labor.info@azstats.gov)