

Employment and the Labor Force

May 2011

FRED Data Classroom Application



*Prepared by the Research Division of the
Federal Reserve Bank of St. Louis*

FRED in the Classroom: Employment and the Labor Force

Employment is an important measure of an economy's health. Economists and policymakers examine several data sources to assess the state of employment in the United States. The data are available on the Federal Reserve Bank of St. Louis' FRED database. The following steps give you an opportunity to access the data and make some observations.

The most important FRED data source for employment is the Employment Situation Report. This report is probably the most anticipated of all economic reports—it has meaning for the nation's economy and is relevant to the lives of citizens. The Employment Situation Report measures the growth (or loss) of jobs, whether individuals are in the workforce, and household earnings. The report consists of two parts: the Household Survey and the Establishment Survey. As you may have guessed, the Household Survey questions households about their participation in the workforce and wages earned. The Establishment Survey (sometimes called the payroll survey) questions private businesses, companies, and government agencies about their changes in staffing. This exercise begins with the Household Survey portion (it is much smaller) and then moves to the Establishment Survey portion of the report.

1. The first step in this exercise is to find the data from the Employment Situation Report. **Start at the FRED website, <http://research.stlouisfed.org/fred2>.**

The screenshot shows the FRED website homepage. At the top, there is a search bar and navigation links for 'FRED Economic Data', 'Publications', 'Working Papers', and 'Economists'. The main content area is titled 'Federal Reserve Economic Data' and features a 'FRED News' section with two articles: '4 Dow Jones Averages are now on FRED' and '96 New Emerging Market Bond Series Added to FRED'. Below the news, there is a 'Data Categories' section with a grid of links to various data series, including 'Banking (432)', 'Business/Fiscal (2,528)', 'Consumer Price Indexes (384)', 'Employment & Population (1,266)', 'Exchange Rates (95)', 'Foreign Exchange Intervention (21)', 'Gross Domestic Product (GDP) and Components (233)', 'Interest Rates (400)', 'Monetary Aggregates (128)', 'Producer Price Indexes (PPI) (18)', 'Reserves and Monetary Base (148)', 'U.S. Trade & International Transactions (1,099)', 'U.S. Financial Data (344)', 'Regional Data (21,693)', and 'International Data (1,839)'. At the bottom, there are sections for 'Popular Series' (St. Louis Adjusted Monetary Base), 'FRED At a Glance' (CPI), and 'Latest Releases' (H.15 Selected Interest Rates).

2. As you follow along in this exercise, the red arrows and circles show you where to access the information. To begin looking at employment data, find **Employment & Population in the Categories section on the FRED website.**

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Federal Reserve Economic Data

FRED News

4 Dow Jones Averages are now on FRED

MAY 18 These 4 series include the Dow Jones Industrial, Transportation, Utility, and Composite Averages.

96 New Emerging Market Bond Series Added to FRED

MAY 13 These 96 series from Bank of America Merrill Lynch include 32 series for each of the following categories: Total Return Index Values, Effective Yields, and Spreads. This data is organized by rating, sector, and region.

More ...

Data Categories

Banking (432)	Monetary Aggregates (128)
Business/Fiscal (2,528)	Producer Price Indexes (PPI) (18)
Consumer Price Indexes (384)	Reserves and Monetary Base (148)
Employment & Population (1,266)	U.S. Trade & International Transactions (1,099)
Exchange Rates (95)	U.S. Financial Data (344)
Foreign Exchange Intervention (21)	Regional Data (21,693)
Gross Domestic Product (GDP) and Components (233)	International Data (1,839)
Interest Rates (400)	

3. Choose the **Household Survey Data** (circled in red below) on the list. The number in parentheses after each category listed (in this case, 25) indicates how many series are available in that category.

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Home > FRED Economic Data > Categories

Employment & Population

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Categories

- Establishment Survey Data (794)
- Population (3)
- Job Openings and Labor Turnover (JOLTS) (423)
- Household Survey Data (25)**
- Weekly Initial Claims (9)
- ADP Employment (13)

*Note that the number of series in a category and its subcategories is shown above in parentheses.

4. Now, you will see a list of possible data series. In this exercise, you will quickly look at several of them and be asked a question or two for each series. The data are sorted initially by popularity. They can also be sorted several other ways—by start or end date, units, seasonal adjustment, and update date. After clicking on the Household Survey Data category, choose **Civilian Unemployment Rate**, usually the first (the most popular) series. To bring up the series, click on the title.

Household Survey Data

Download Data Notify Me of Updates

Show Only :

Selected Series :

Series 1 - 25 of 25

<input type="checkbox"/>	Title	Observation Range	Freq.	Units	Seas. Adj.	Popularity
		Start End				
<input type="checkbox"/>	Civilian Unemployment Rate	1948-01 2011-04	M	%	SA	
<input type="checkbox"/>	Civilian Employment-Population Ratio	1948-01 2011-04	M	%	SA	
<input type="checkbox"/>	Unemployed	1948-01 2011-04	M	Thous.	SA	
<input type="checkbox"/>	Civilian Employment	1948-01 2011-04	M	Thous.	SA	
<input type="checkbox"/>	Civilian Participation Rate	1948-01 2011-04	M	%	SA	
<input type="checkbox"/>	Average (Mean) Duration of Unemployment	1948-01 2011-04	M	Weeks	SA	
<input type="checkbox"/>	Civilian Labor Force	1948-01 2011-04	M	Thous.	SA	
<input type="checkbox"/>	Total unemployed, plus all marginally attached workers plus total employed part time for economic reasons	1994-01 2011-04	M	%	SA	
<input type="checkbox"/>	Median Duration of Unemployment	1967-07 2011-04	M	Weeks	SA	
<input type="checkbox"/>	Civilian Noninstitutional Population	1948-01 2011-04	M	Thous.	NSA	
<input type="checkbox"/>	Civilian Unemployment Rate	1948-01 2011-04	M	%	NSA	
<input type="checkbox"/>	Civilians Unemployed for 27 Weeks and Over	1948-01 2011-04	M	Thous.	SA	
<input type="checkbox"/>	Unemployment Rate - Job Losers	1967-01 2011-04	M	%	SA	
<input type="checkbox"/>	Total unemployed, plus all marginally attached workers plus total employed part time for economic reasons	1994-01 2011-04	M	%	NSA	
<input type="checkbox"/>	Persons Unemployed 15 weeks or longer, as a percent of the civilian labor force	1948-01 2011-04	M	%	SA	
<input type="checkbox"/>	Special Unemployment Rate: Unemployed and Discouraged Workers	1994-01 2011-04	M	%	SA	
<input type="checkbox"/>	Special Unemployment Rate: Unemployed and Marginally Attached	1994-01 2011-04	M	%	SA	

5. The graph shows the entire history of the series (this can be changed to show a shorter period) and allows options to view or download the data. See the information under the graph for more information about the series (e.g. the source, date observation range, last updated information and the latest observations). This information also appears as the first sheet of the Excel spreadsheet when you download the data.

Tools

- View Data
- Download Data
- Notify Me of Updates
- Add to My Data List
- Vintage Series in ALFRED

Latest Observations

2011-04: 9.0
 2011-03: 8.8
 2011-02: 8.9
 2011-01: 9.0
 2010-12: 9.4

Other Formats

- Monthly, Not Seasonally Adjusted

Related Categories

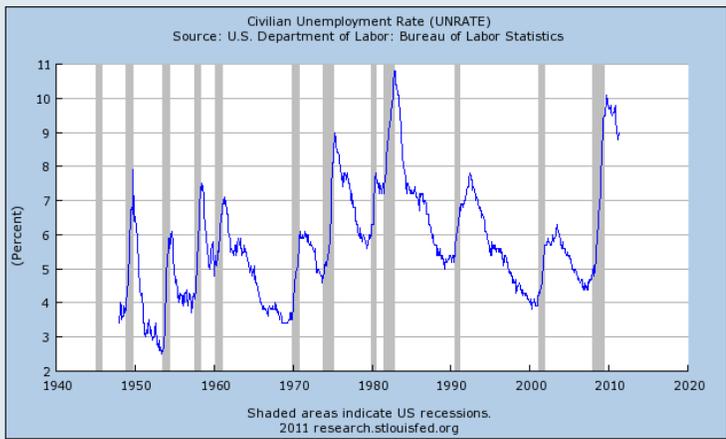
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Civilian Unemployment Rate (UNRATE)

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 Graph of Civilian Unemployment Rate  PDF  Save

Type: Line Size: Medium Range: Max Recession Bars: On Units: Levels
 Notes: Growth Rate Calculations | US recession dates

Series ID:	UNRATE
Source(s):	U.S. Department of Labor: Bureau of Labor Statistics
Release:	Employment Situation
Units:	Percent
Frequency:	Monthly
Seasonal Adjustment:	Seasonally Adjusted
Observation Range:	1948-01 to 2011-04
Last Updated:	2011-05-06 8:53 AM CDT
Notes:	Persons 16 years of age and older. The Bureau of Labor Statistics (BLS) announced several revisions to the Household Survey on Friday Feb.7th 2003, with the release of the January 2003 Data. They introduced the Census 2000 population controls (which affect data back to 2000 and cause a break in the data in January 2000), a new seasonal adjustment procedure, and new seasonal factors back to January 1998. For further information contact the Current Employment Statistics (CES) homepage at www.bls.gov/ces or by calling 202-691-6555.

6. Notice the gray vertical bars on the graph that indicate U. S. recessions. How do recessions affect the unemployment rate? Compared with other recessions, how would you rate the severity of the most recent recession based on the change in the unemployment rate?

7. Does the unemployment rate decrease immediately after a recession end?

8. Now, choose **View Data** under the Tools section in the upper left corner of the page.

Tools

- [View Data](#)
- [Download Data](#)
- [Notify Me of Updates](#)
- [Add to My Data List](#)
- [Vintage Series in ALFRED](#)

Latest Observations

Home > FRED® Economic Data > Categories > Employment & Population > Household Survey Data > Civilian Unemployment Rate (UNRATE)

Civilian Unemployment Rate (UNRATE)

Download Data

Series ID:	UNRATE
Title:	Civilian Unemployment Rate
Source(s):	U.S. Department of Labor: Bureau of Labor Statistics
Release:	Employment Situation

9. Look at the data and then answer the following question: What is the highest unemployment rate recorded since 1948 and when did it occur?

The screenshot below shows some of the earliest measures of the unemployment rate.

Title: Civilian Unemployment Rate
Series ID: UNRATE
Source: U.S. Department of Labor: Bureau of Labor Statistics
Release: Employment Situation
Seasonal Adjustment: Seasonally Adjusted
Frequency: Monthly
Units: Percent
Date Range: 1948-01-01 to 2011-03-01
Last Updated: 2011-04-01 9:09 AM CDT
Notes: Persons 16 years of age and older.

The Bureau of Labor Statistics (BLS) announced several revisions to the Household Survey on Friday Feb.7th 2003, with the release of the January 2003 Data. They introduced the Census 2000 population controls (which affect data back to 2000 and cause a break in the data in January 2000), a new seasonal adjustment procedure, and new seasonal factors back to January 1998. For further information contact the Current Employment Statistics (CES) homepage at www.bls.gov/ces or by calling 202-691-6555.

DATE	VALUE
1948-01-01	3.4
1948-02-01	3.8
1948-03-01	4.0
1948-04-01	3.9
1948-05-01	3.5
1948-06-01	3.6
1948-07-01	3.6
1948-08-01	3.9
1948-09-01	3.8
1948-10-01	3.7
1948-11-01	3.8
1948-12-01	3.8

10. Use your back arrow to return to the **Civilian Unemployment Rate** and then click on the **Household Survey Data** link in the left column.

Tools

- View Data
- Download Data
- Notify Me of Updates
- Add to My Data List
- Vintage Series in ALFRED

Latest Observations

- 2011-04: 9.0
- 2011-03: 8.8
- 2011-02: 8.9
- 2011-01: 9.0
- 2010-12: 9.4

Other Formats

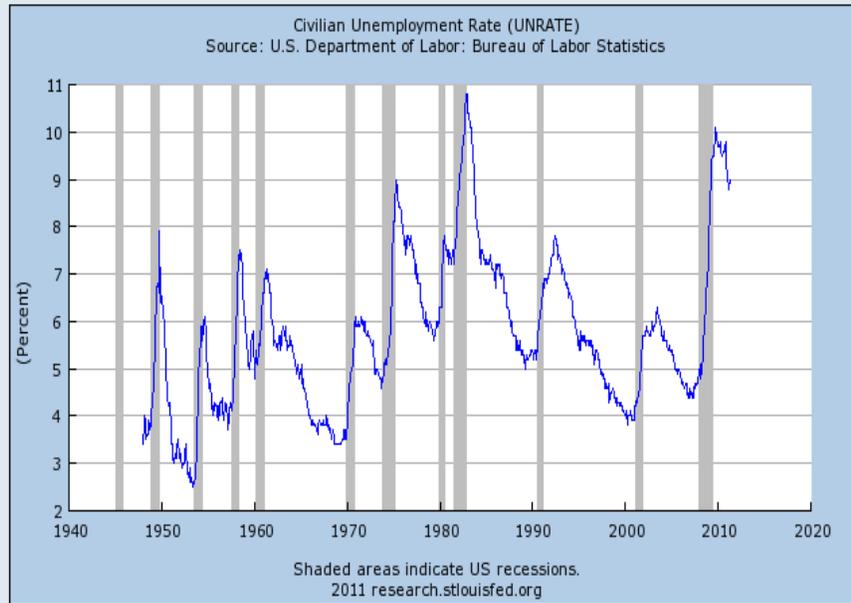
- Monthly, Not Seasonally Adjusted

Related Categories

- Employment & Population
- Household Survey Data**

Civilian Unemployment Rate (UNRATE)

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Graph of Civilian Unemployment Rate PDF Save

Type: Line Size: Medium Range: Max Recession Bars: On Units: Levels
Notes: Growth Rate Calculations | US recession dates

11. From this page, click on **Civilian Employment-Population Ratio** (typically the second choice on the list).

Household Survey Data

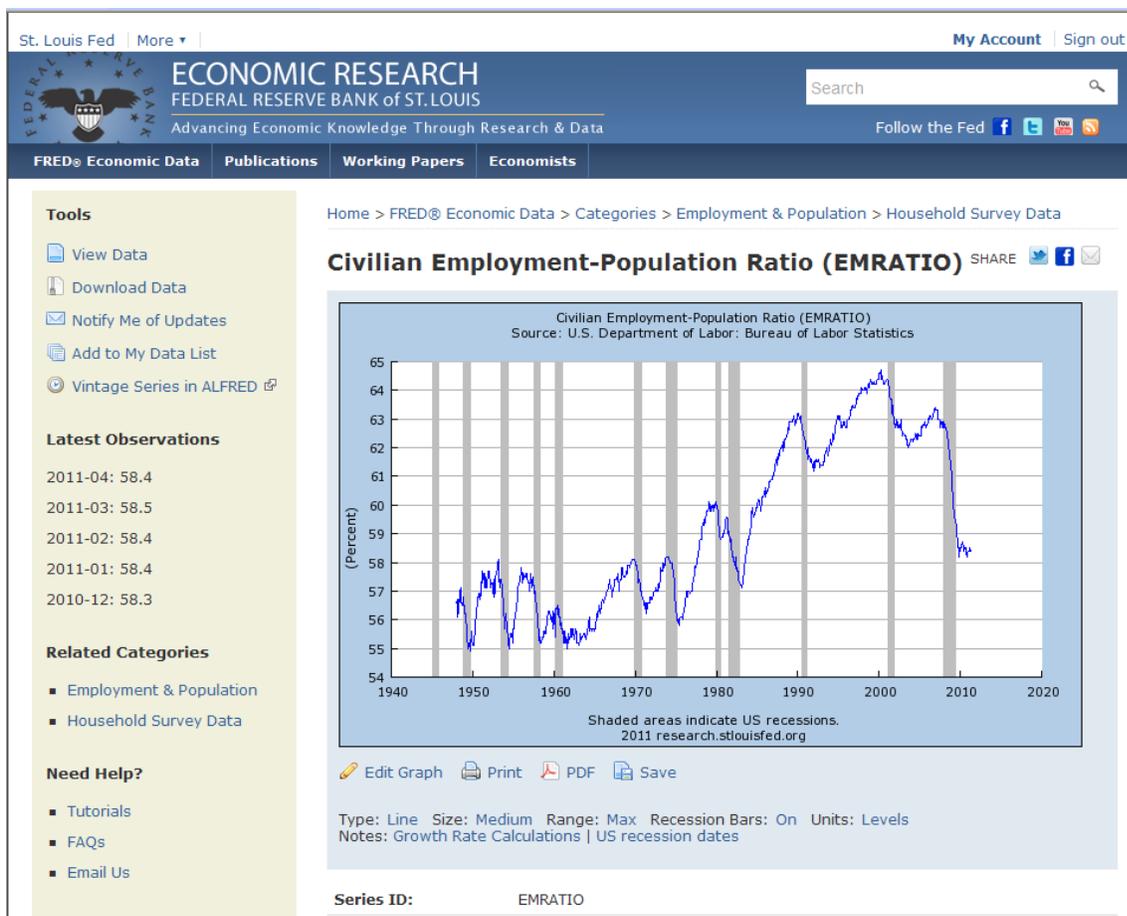
Download Data Notify Me of Updates

Show Only: Show All   Go

Selected Series:

Series 1 - 25 of 25

<input type="checkbox"/>	Title	Observation Range	Freq.	Units	Seas. Adj.	Popularity
		Start End				
<input type="checkbox"/>	Civilian Unemployment Rate	1948-01 2011-04	M	%	SA	
<input checked="" type="checkbox"/>	Civilian Employment-Population Ratio	1948-01 2011-04	M	%	SA	
<input type="checkbox"/>	Unemployed	1948-01 2011-04	M	Thous.	SA	
<input type="checkbox"/>	Civilian Employment	1948-01 2011-04	M	Thous.	SA	
<input type="checkbox"/>	Civilian Participation Rate	1948-01 2011-04	M	%	SA	
<input type="checkbox"/>	Average (Mean) Duration of Unemployment	1948-01 2011-04	M	Weeks	SA	
<input type="checkbox"/>	Civilian Labor Force	1948-01 2011-04	M	Thous.	SA	



12. What does the Civilian Employment-Population Ratio measure?

Discuss at least one factor that led to the general increase in the employment to population ratio starting in the early 1980s.

Then, suggest at least one reason (beyond an increase in the unemployment rate) for the decrease during the last recession.

Finally, using the **View Data** or **Download Data** option, what is the date of the highest employment-population ratio?

13. Next, go back to the Household Survey Data list and choose **Unemployed**.

Home > FRED® Economic Data > Categories > Employment & Population

Household Survey Data

Download Data Notify Me of Updates

Show Only: Show All Go

Selected Series: Add to Data List Add to New Graph Series 1 - 48 of 48

<input type="checkbox"/>	Title	Observation Range	Freq.	Units	Seas. Adj.	Popularity
		Start End				
<input type="checkbox"/>	Civilian Unemployment Rate	1948-01 2011-04	M	%	SA	
<input type="checkbox"/>	Civilian Employment-Population Ratio	1948-01 2011-04	M	%	SA	
<input checked="" type="checkbox"/>	Unemployed	1948-01 2011-04	M	Thous. of Persons	SA	
<input type="checkbox"/>	Civilian Employment	1948-01 2011-04	M	Thous. of Persons	SA	
<input type="checkbox"/>	Civilian Participation Rate	1948-01 2011-04	M	%	SA	

14. Just looking at the graph and thinking about the earlier unemployment rate data, can you explain why the number of unemployed people is so much higher than at any time in the past, but the unemployment rate is not the highest it has ever been?



15. Next, go back to the original **Employment & Population** category, and choose the **Establishment Survey Data**.

Employment & Population

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Categories

- [Establishment Survey Data \(794\)](#) ■ Population (3) ■ Job Openings and Labor Turnover (JOLTS) (423)
- [Household Survey Data \(25\)](#) ■ Weekly Initial Claims (9) ■ ADP Employment (13)

16. Within that category, choose the **Total Nonfarm** category.

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Establishment Survey Data

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Categories:

- [Total Nonfarm \(5\)](#) [Durable Goods \(61\)](#) [Financial Activities \(51\)](#)
- [Total Private \(27\)](#) [Nondurable Goods \(53\)](#) [Professional and Business Services \(55\)](#)
- [Goods-Producing \(27\)](#) [Trade, Transportation, and Utilities \(27\)](#) [Education and Health Services \(51\)](#)
- [Service-Providing \(1\)](#) [Wholesale Trade \(33\)](#) [Leisure and Hospitality \(41\)](#)
- [Private Service-Providing \(27\)](#) [Retail Trade \(55\)](#) [Other Services \(33\)](#)
- [Mining and Logging \(39\)](#) [Transportation and Warehousing \(47\)](#) [Government \(23\)](#)
- [Construction \(41\)](#) [Utilities \(27\)](#)
- [Manufacturing \(31\)](#) [Information \(39\)](#)

*Note that the number of series in a category and its subcategories is shown above in parentheses.

17. Within the **Total Nonfarm** category, choose **All Employees: Total nonfarm**. This series represents the number of people reported as employed by companies (so, if a person has two jobs, they are counted as two employed persons).

Total Nonfarm

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Show Only: Show All Go

Selected Series: Add to Data List Add to New Graph

Series 1 - 5 of 5

<input type="checkbox"/>	Title	Observation Range	Freq.	Units	Seas. Adj.	Popularity
		Start End				
<input checked="" type="checkbox"/>	All Employees: Total nonfarm	1939-01 2011-04	M	Thous.	SA	<div style="width: 100%;"></div>
<input type="checkbox"/>	All Employees: Total nonfarm	1939-01 2011-04	M	Thous.	NSA	<div style="width: 80%;"></div>
<input type="checkbox"/>	Women Employees-To-All Employees Ratio: Total Nonfarm	1964-01 2011-04	M	%	SA	<div style="width: 60%;"></div>
<input type="checkbox"/>	Women Employees: Total Nonfarm	1964-01 2011-04	M	Thous.	SA	<div style="width: 40%;"></div>
<input type="checkbox"/>	Women Employees: Total Nonfarm	1964-01 2011-04	M	Thous.	NSA	<div style="width: 30%;"></div>

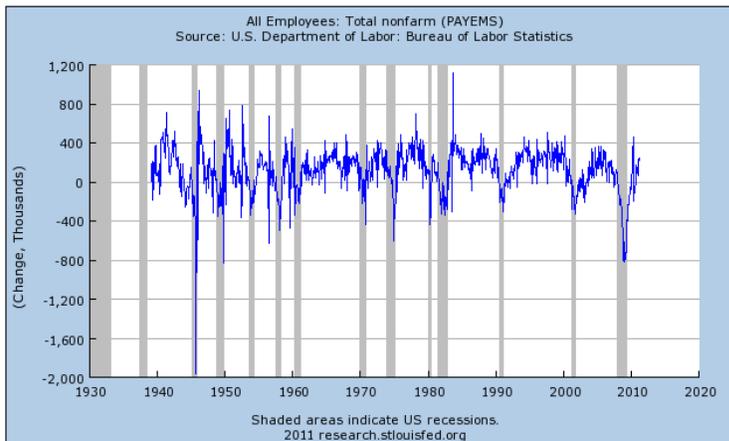
18. Below is an example of the graph of **All Employees: Total nonfarm**. The data are in thousands (see the label on the y-axis). Economists are often interested in the change of the number on a month-to-month basis. To show the data as a **change**, click on **Levels** under the graph in the **Units** section, then choose **Chg.**



19. The graph below shows the monthly change in the number of employees. For a better idea of what has happened recently, we can change the date range to the past 10 yrs.

Graph: All Employees: Total nonfarm (PAYEMS)

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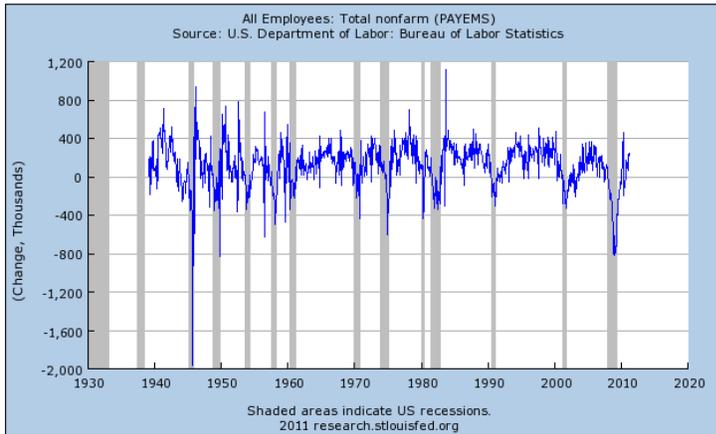


20. Now, scroll down to see the options for **Line 1**. Note the **Observation Date Range** and **Observation Quick Range** options.

Home > FRED® Economic Data

Graph: All Employees: Total nonfarm (PAYEMS)

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Graph

Line 1: All Employees: Total nonfarm (PAYEMS)

Scale: Line Style: Line Width: Mark Type: Mark Width: Color:

Observation Date Range: to [Copy to All Lines](#)

Observation Quick Range: Custom 1yr 5yrs 10yrs Max

To see the past 10 years, click the button next to **10yrs**. Scroll down.

21. Click **Redraw Graph** box to see the change.

Graph

Line 1: All Employees: Total nonfarm (PAYEMS)

Scale: Line Style: Line Width: Mark Type: Mark Width: Color:

Observation Date Range: to [Copy to All Lines](#)

Observation Quick Range: Custom 1yr 5yrs 10yrs Max

Frequency:

(a) All Employees: Total nonfarm (PAYEMS), Monthly, Seasonally Adjusted, 1939-01-01 to 2011-04-01

Units:

[Create Your Own Data Transformation](#)

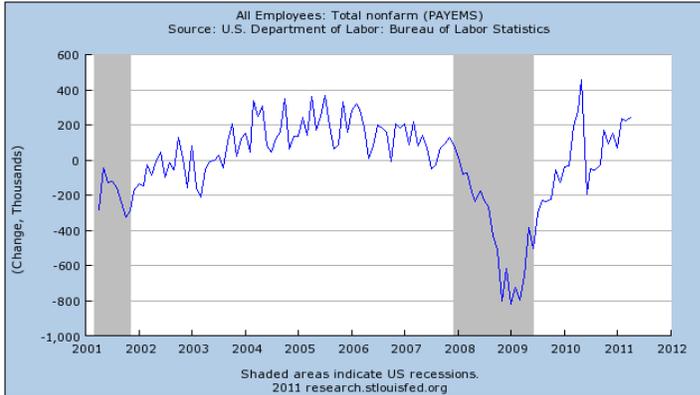
Add Data Series

[Notes on growth rate calculations, US recession dates, and frequency aggregation](#)

22. Below is the graph of the change, in thousands, over the past 10 years. Use the redrawn graph to compare the recession of 2001 and the most recent recession. What do the data reveal about the severity of the most recent recession?

FRED Graph

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Graph

Line 1: All Employees: Total nonfarm (PAYEMS)

Scale: Line Style: Line Width: Mark Type: Mark Width: Color:

Observation Date Range: to

Observation Quick Range: Custom 1yr 5yrs 10yrs Max

23. Going back to the category of **Establishment Survey Data**, we can compare the number of jobs from several different areas of the economy (for this lesson, we'll use construction and retail). This requires locating one series and then adding others to the graph. To do this, first choose **Construction** as a category.

Home > FRED® Economic Data > Categories > Employment & Population

Establishment Survey Data

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Categories

- Total Nonfarm (5)
- Total Private (27)
- Goods-Producing (27)
- Service-Providing (1)
- Private Service-Providing (27)
- Mining and Logging (39)
- **Construction (41)**
- Manufacturing (31)
- Durable Goods (61)
- Nondurable Goods (53)
- Trade, Transportation, and Utilities (27)
- Wholesale Trade (33)
- Retail Trade (55)
- Transportation and Warehousing (47)
- Utilities (27)
- Information (39)
- Financial Activities (51)
- Professional and Business Services (55)
- Education and Health Services (51)
- Leisure and Hospitality (41)
- Other Services (33)
- Government (23)

*Note that the number of series in a category and its subcategories is shown above in parentheses.

24. Choose the **All Employees: Construction** series in the category (again, sorted by popularity).

Home > FRED® Economic Data > Categories > Employment & Population > Establishment Survey Data

Construction

Download Data Notify Me of Updates

Show Only :

Selected Series :

Series 1 - 41 of 41

<input type="checkbox"/>	Title	Observation Range Start	Observation Range End	Freq.	Units	Seas. Adj.	Popularity
<input type="checkbox"/>	All Employees: Construction	1939-01	2011-04	M	Thous.	SA	
<input type="checkbox"/>	All Employees: Construction: Residential Building	1985-01	2011-04	M	Thous.	SA	
<input type="checkbox"/>	Average Hourly Earnings Of Production And Nonsupervisory Employees: Construction	1947-01	2011-04	M	\$ per Hour	NSA	
<input type="checkbox"/>	Average Weekly Earnings of All Employees: Construction	2006-03	2011-04	M	\$ per Week	NSA	
<input type="checkbox"/>	All Employees: Construction: Nonresidential Building	1990-01	2011-04	M	Thous.	NSA	
<input type="checkbox"/>	Average Weekly Hours Of All Employees: Construction	2006-03	2011-04	M	Hours	SA	

25. Below is the graph of the number of employees in construction, in thousands. Quick question: What happened to construction in the last recession? Is this a common event during a recession?

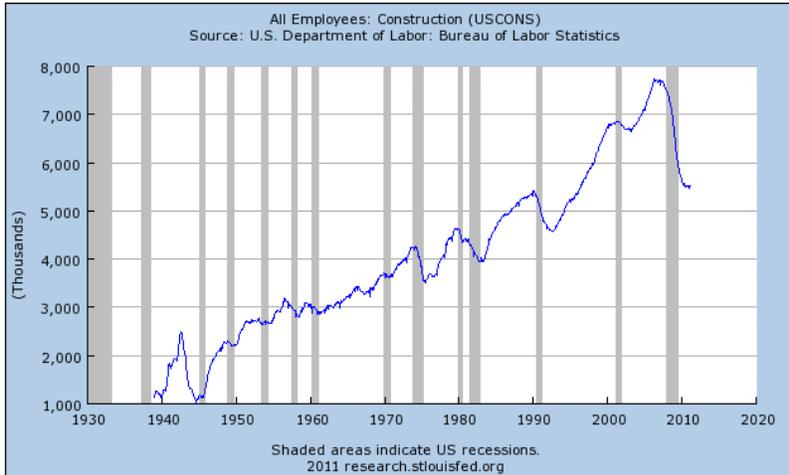


26. To add another series for comparison, choose the **Edit Graph** link below the graph.

27. This brings up the editable graph. Scroll down and click on the green triangle to expand the **Add Data Series** section. The default option is to **add a new line** (which is what you want to do). To add a line showing the number of employees in the retail trade industry, begin typing **Employees Retail Trade**. **FRED** will suggest likely data series as you type. Choose **All Employees: Retail Trade (USTRADE)** and either click on it or hit <enter>.

Graph: All Employees: Construction (USCONS)

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Settings [Restore Defaults](#) | [Save Settings](#) | [Apply Saved Settings](#)

Graph

Line 1: All Employees: Construction (USCONS)

Add Data Series

To: New Line Line 1 [What's This?](#)

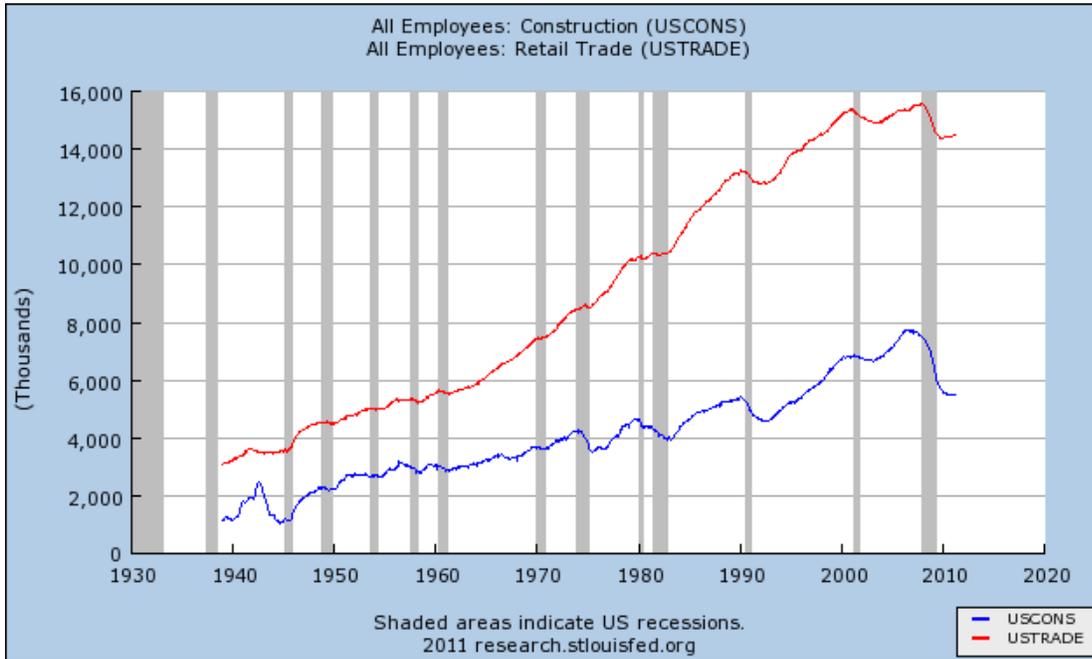
Search: employees retail tr [Browse](#)

- All Employees: Retail Trade
USTRADE, M, Thous., SA
- All Employees: Retail Trade
CEU4200000001, M, Thous., NSA
- All Employees: Retail Trade: Clothing and Clothing Accessories Stores

[Notes on gray](#)

28. Now you have a graph with the number of **construction** employees in **blue**, and the number of **retail trade** employees in **red**.

Consider adding other industries to the graph. You may want to add **All Employees: Financial Activities** or **All Employees: Professional and Business Services**. Compare at least three different industries and suggest reasons for the number of employees or the recent change in the number of employees.



29. As a final way of studying employment, let's look at the average hourly earnings of employees in different industries. Because the data are organized by industry, the easiest way to get a list of the data series with hourly earnings is to use the search box. Type **average hourly earnings** in the Search box at the top of the page and <enter>.

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Federal Reserve Economic Data

30. You can filter the results to show only those series that are **seasonally adjusted** by using the pull-down **Show Only** box, and then choose Seasonal Adjustment.

Home > FRED® Economic Data

Search Results

Everything FRED Publications Working Papers

Series matching "average hourly earnings".

Selected Series :

Show Only : 1 2 Next >

Title **Observation Range** **Units** **Exclude Regional Series** **Popularity**

<input type="checkbox"/>	Title	Start	End	Freq.	Units	Seas. Adj.	Popularity
<input type="checkbox"/>	Average Hourly Earnings of Production and Nonsupervisory Employees: Total Private	1964-01	2011-04	M	\$ per Hour	SA	<div style="width: 100%;"></div>
<input type="checkbox"/>	Average Hourly Earnings of All Employees: Total Private	2006-03	2011-04	M	\$ per Hour	SA	<div style="width: 100%;"></div>
<input type="checkbox"/>	Average Hourly Earnings Of Production And Nonsupervisory Employees: Manufacturing	1939-01	2011-04	M	\$ per Hour	NSA	<div style="width: 100%;"></div>
<input type="checkbox"/>	Average Hourly Earnings of Production and Nonsupervisory Employees: Total Private	1964-01	2011-04	M	\$ per Hour	NSA	<div style="width: 100%;"></div>
<input type="checkbox"/>	Average Hourly Earnings of Production And Nonsupervisory Employees: Construction	1947-01	2011-04	M	\$ per Hour	NSA	<div style="width: 100%;"></div>
<input type="checkbox"/>	Average Hourly Earnings of All Employees: Financial Activities	2006-03	2011-04	M	\$ per Hour	SA	<div style="width: 100%;"></div>
<input type="checkbox"/>	Average Hourly Earnings of Production and Nonsupervisory Employees: Manufacturing	1939-01	2011-04	M	\$ per Hour	SA	<div style="width: 100%;"></div>
<input type="checkbox"/>	Average Hourly Earnings of All Employees: Manufacturing	2006-03	2011-04	M	\$ per Hour	SA	<div style="width: 100%;"></div>
<input type="checkbox"/>	Average Hourly Earnings of All Employees: Total Private	2006-03	2011-04	M	\$ per Hour	NSA	<div style="width: 100%;"></div>
<input type="checkbox"/>	Average Hourly Earnings of All Employees: Construction	2006-03	2011-04	M	\$ per Hour	NSA	<div style="width: 100%;"></div>
<input type="checkbox"/>	Average Hourly Earnings of All Employees: Financial Activities	2006-03	2011-04	M	\$ per Hour	NSA	<div style="width: 100%;"></div>
<input type="checkbox"/>	Average Hourly Earnings of All Employees: Goods-Producing	2006-03	2011-04	M	\$ per Hour	SA	<div style="width: 100%;"></div>

31. A second pull down box will then pop up, choose **Seasonally Adjusted** from the list.

Search Results

Everything FRED Publications Working Papers

Series matching "average hourly earnings".

Selected Series :

Show Only : Seasonal Adjustment Next >

Title **Observation Range** **Freq.** **Units** **Seas. Adj.** **Popularity**

<input type="checkbox"/>	Title	Start	End	Freq.	Units	Seas. Adj.	Popularity
<input type="checkbox"/>	Average Hourly Earnings of Production and Nonsupervisory Employees: Total Private	1964-01	2011-04	M	\$ per Hour	SA	<div style="width: 100%;"></div>
<input type="checkbox"/>	Average Hourly Earnings of All Employees: Total Private	2006-03	2011-04	M	\$ per Hour	SA	<div style="width: 100%;"></div>

32. Click on **Title** to sort the series by title and then use the **check boxes** next to the series to choose three series to compare—**information**, **manufacturing**, and **retail trade**. (Hint: Look at the end of the Title line for the words “information,” “manufacturing,” and “retail trade.” The choices are arranged alphabetically.) Then click **Add to New Graph**.

Search Results

Everything FRED Publications Working Papers

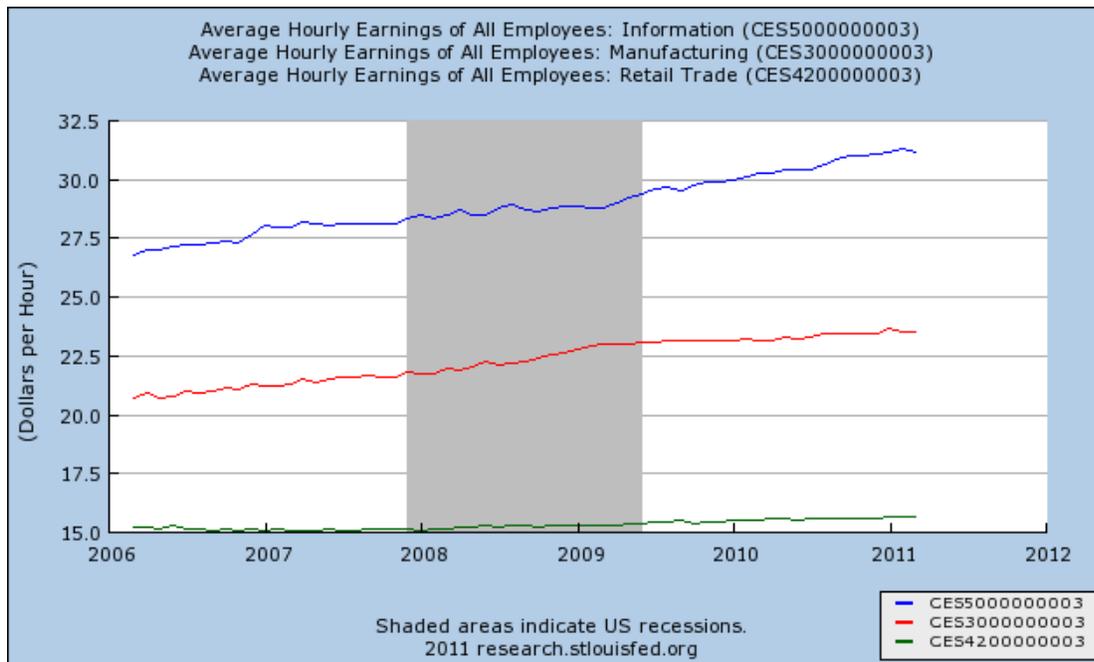
Series matching "average hourly earnings".

Show Only: Seasonal Adjustment Seasonally Adjusted Go

Selected Series: Add to Data List Add to New Graph Series 1 - 38 of 38

<input type="checkbox"/>	Title ▲	Observation Range Start	End	Freq.	Units	Seas. Adj.	Popularity
<input type="checkbox"/>	Average Hourly Earnings of All Employees: Construction	2006-03	2011-04	M	\$ per Hour	SA	
<input type="checkbox"/>	Average Hourly Earnings of All Employees: Durable Goods	2006-03	2011-04	M	\$ per Hour	SA	
<input type="checkbox"/>	Average Hourly Earnings of All Employees: Education and Health Services	2006-03	2011-04	M	\$ per Hour	SA	■
<input type="checkbox"/>	Average Hourly Earnings of All Employees: Financial Activities	2006-03	2011-04	M	\$ per Hour	SA	■
<input type="checkbox"/>	Average Hourly Earnings of All Employees: Goods-Producing	2006-03	2011-04	M	\$ per Hour	SA	■
<input type="checkbox"/>	Average Hourly Earnings of All Employees: Information	2006-03	2011-04	M	\$ per Hour	SA	
<input type="checkbox"/>	Average Hourly Earnings of All Employees: Leisure and Hospitality	2006-03	2011-04	M	\$ per Hour	SA	■
<input type="checkbox"/>	Average Hourly Earnings of All Employees: Manufacturing	2006-03	2011-04	M	\$ per Hour	SA	■
<input type="checkbox"/>	Average Hourly Earnings of All Employees: Mining and Logging	2006-03	2011-04	M	\$ per Hour	SA	■
<input type="checkbox"/>	Average Hourly Earnings of All Employees: Nondurable Goods	2006-03	2011-04	M	\$ per Hour	SA	
<input type="checkbox"/>	Average Hourly Earnings of All Employees: Other Services	2006-03	2011-04	M	\$ per Hour	SA	
<input type="checkbox"/>	Average Hourly Earnings of All Employees: Private Service-Providing	2006-03	2011-04	M	\$ per Hour	SA	
<input type="checkbox"/>	Average Hourly Earnings of All Employees: Professional and Business Services	2006-03	2011-04	M	\$ per Hour	SA	
<input type="checkbox"/>	Average Hourly Earnings of All Employees: Retail Trade	2006-03	2011-04	M	\$ per Hour	SA	■

33. The graph for this example is below:



Using your economic reasoning, speculate on reasons for the difference in average hourly earnings for employees in the **Information**, **Manufacturing**, and **Retail Trade** industries.