



FEDERAL RESERVE BANK *of* ST. LOUIS  
CENTRAL TO AMERICA'S ECONOMY®



FDLP Academy Webinar

September 18, 2019

Aaron Collie, Jona Whipple, Matthew Krc

# Disclaimer

**The views expressed in this presentation do not necessarily reflect official positions of the Federal Reserve Bank of St. Louis or the Federal Reserve System.**

# FRASER 101

- [fraser.stlouisfed.org](https://fraser.stlouisfed.org)
- Online for 15 years
- Originally developed as an adjunct to FRED
- In that time, we've amassed over half-a-million documents
- Now collects, curates, and promotes the history of the finance, banking and the U.S. economy.



Fed employees line up to clock in. Photograph by P.R. Papin. Part of the Federal Reserve Bank of St. Louis' Centennial Timeline: <https://fraser.stlouisfed.org/timeline/st-louis-fed-centennial>

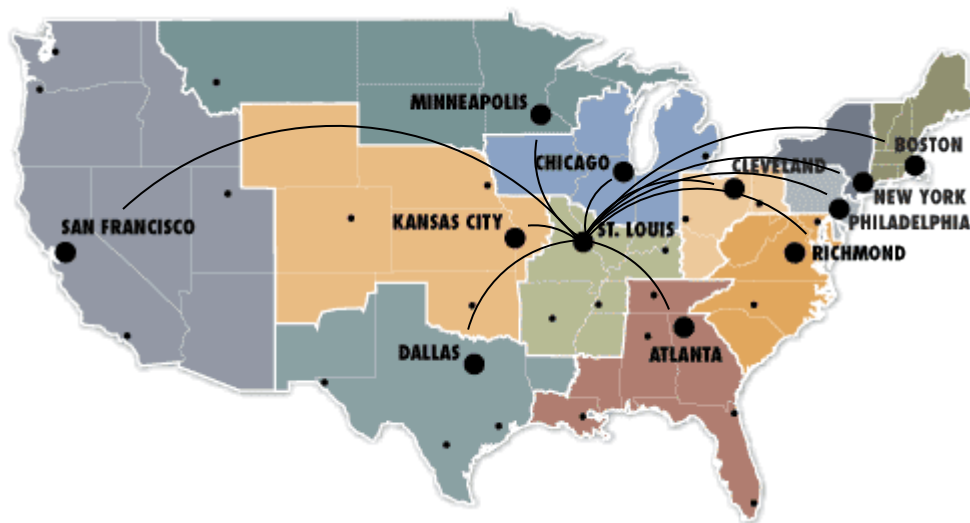
# Our Mission

- Collect materials related to banking, finance, and economic history.
- Curate materials so that they are easy to find and use online.
- Communicate and build relationships with our users and the public.



# Collect

- Partner to digitize materials
- Donations and N&O lists, such as the FDLP eXchange
- Federal Reserve access point



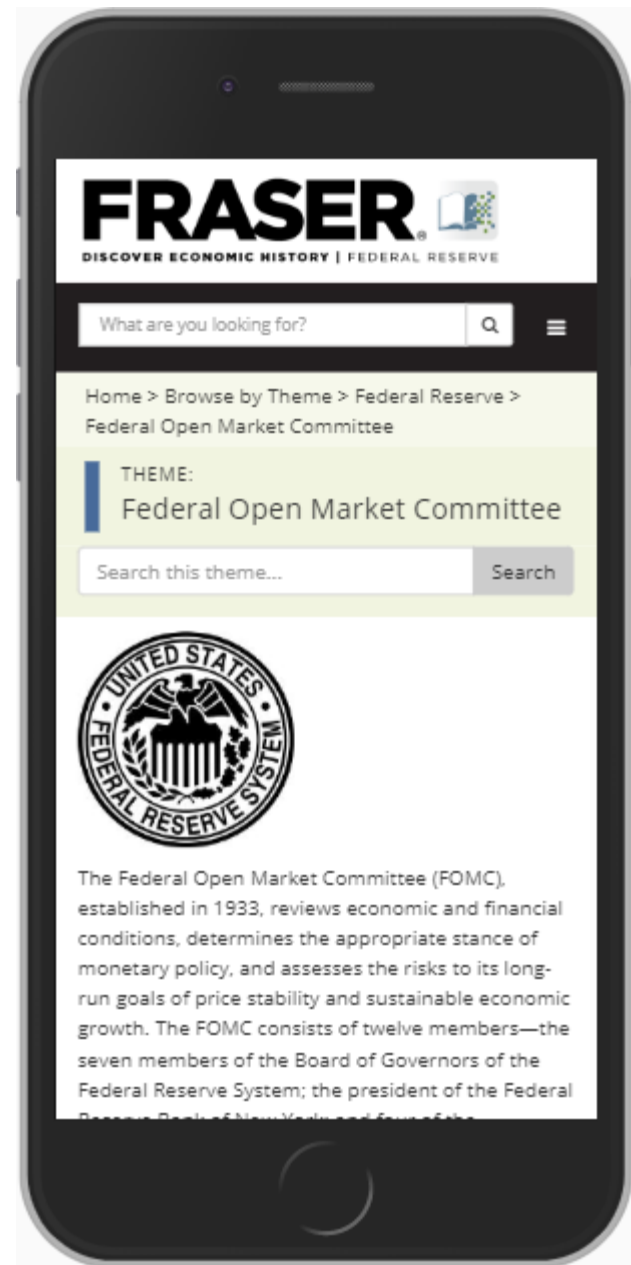
FRASER @FedFRASER · Apr 2

April 2, 1951: William McChesney **Martin** Jr. takes office as Chairman of the Board of Governors. He would serve until 1970, under five US presidents. Browse decades of documents from his personal papers digitized in partnership with @mohistorymuseum [ow.ly/IFaQ30ofuOF](https://ow.ly/IFaQ30ofuOF)



# Curate

- Scanning Operations
- Curation & Metadata
- Web application



# Communicate

- What's New
- Twitter
- Newsletter
- InsideFRASER



What are you looking for?

Home > Inside FRASER > Staff Picks: Data and Charts in the Statistical Atlases of the United States

Staff Picks: Data and Charts in the Statistical Atlases of the United States

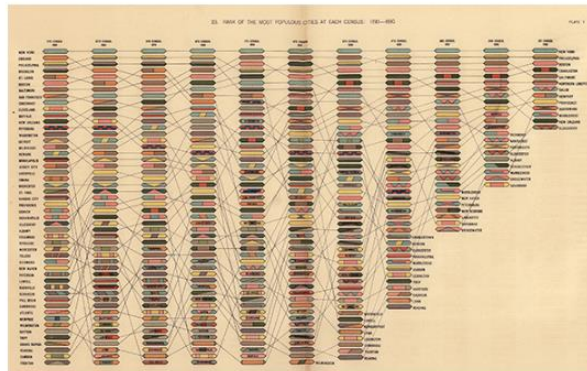
SAVE & SHARE less

TWEET EMAIL +

Posted on April 4, 2018

The **Statistical Atlases of the United States** are rich with information on the historical population of the United States. FRASER has the entire run of the Statistical Atlases, which cover data from the **1870, 1880, 1890, 1900, 1910, 1920, 1970, and 2000** censuses. As expected of an atlas, each publication displays data primarily through various maps.<sup>[1]</sup> However, you may not know that alongside these maps are charts and graphs that also show demographic data. The design of these charts varies across the publications. Some charts, such as common pie or bar charts, will look familiar, but others will require some critical thinking in order to interpret.

Take a look at this **chart** from the 1890 Atlas that shows the most populous cities in the United States from 1790 to 1890:



**FRASER** @FedFRASER · Jun 22

Check out this chart of business booms and depressions from 1775-1943, which touts itself as "an accurate charting of the past and present trend of price inflation, federal debt, business, national income, stocks and bond yields" [ow.ly/sTsp30oRbIk](https://ow.ly/sTsp30oRbIk)

This image was excerpted from the 1943 chart "Business Booms and Depressions since 1775," digitized for FRASER

9 10

Updates from the St. Louis Fed's digital library of economic history

No Images? [Click here](#)



As of July 2, 2019, FRASER has...  
3,305 Titles | 573,226 Items | 5,448 Twitter Followers

## Explore

### New Titles

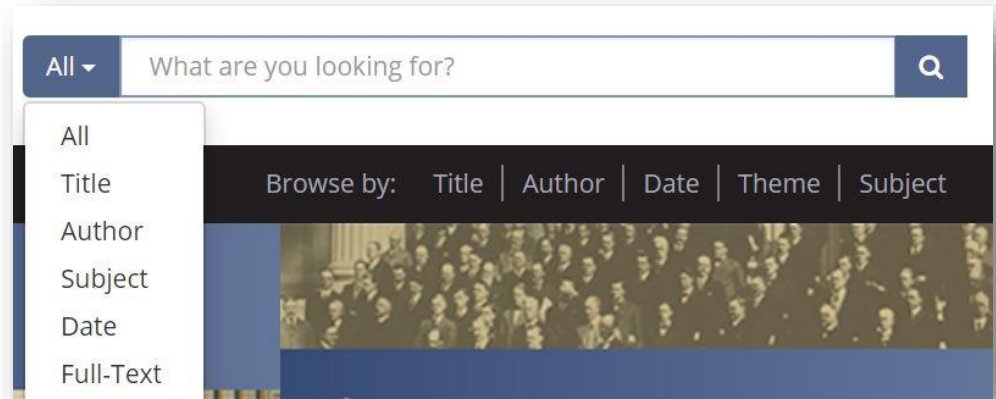
- [Currency in U.S. History](#), a publication from the Federal Reserve Bank of Kansas City
- Additional publications from the Federal Reserve Bank of New York – [The Treasury and the Money Market](#), [The Velocity of Money](#), and [The Key To the Gold Vault](#)

### Expanded Collections

- The Federal Reserve Bank of Dallas's [Economic and Financial Policy Review \(2002-2004\)](#) and its prior titles [Economic and Financial Review \(1999-2001\)](#), [Economic Review \(1982-1999\)](#), and [Voice \(1978-1981\)](#)
- The [Second Quarter 2019 issue of Economic Quarterly](#), the academic journal of the Federal Reserve Bank of Richmond
- The [July 1920](#) and [January 1921](#) issues of the Rand McNally Bankers Directory
- The [2018 Annual Report](#) of the Board of Governors
- Additional [statements and speeches of G. William Miller](#)
- [Publications](#) from the Federal Reserve Bank of New York regarding monetary policy for 1956, 1959, and 1982

# Using FRASER

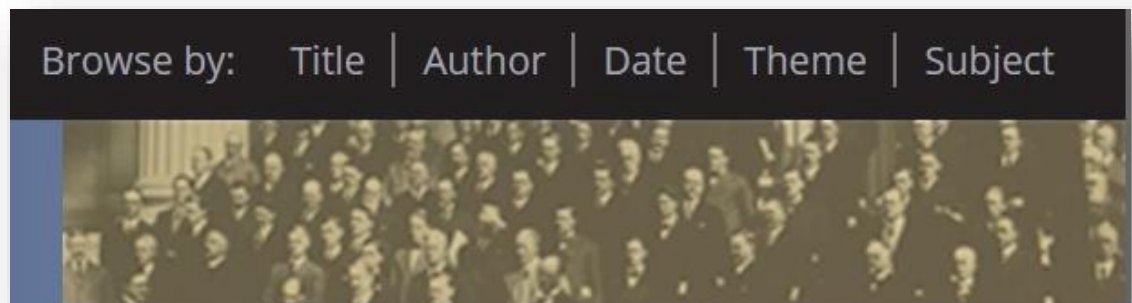
- Search



- Content areas



- Browse





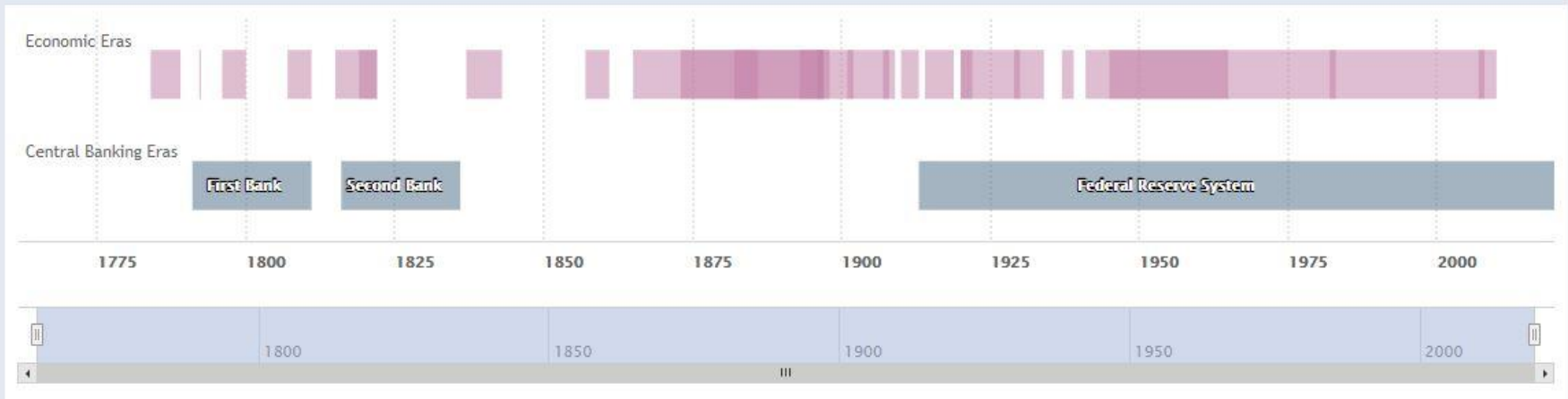
# FRASER Timelines

## Browse by Date

Explore additional timelines of historical context for specific FRASER materials.

START DATE  END DATE

Zoom: 5y 10y 25y ALL



## TITLES BY YEAR





# FRASER Themes

## Browse by Theme

AVAILABLE THEMES (SHOWING 38)


Filter themes by name ...

- African Americans in the Economy *23 items*
- Central Bank History *13 items*
- Depressions and Panics *5 items*
- Financial Crisis of 2007-2009 *209 items*
-  Timeline: Federal Reserve Bank of St. Louis' Financial Crisis Timeline *305 items*
- Great Depression *10 items*
- Economic Data *190 items*
- Employment *8 items***
- Federal Deposit Insurance Corporation (FDIC) *9 items*
- Federal Reserve *0 items*
- Board of Governors of the Federal Reserve System, Federal Reserve Board *17 items*
-  Timeline: Federal Reserve Chair *16 items*
- Federal Open Market Committee *10 items*

## THEME DETAILS

### Employment

[View > \(8 items\)](#)



Employment agency in Gateway District, Minneapolis, Minnesota, September 1939. Credit: Library of Congress, Prints & Photographs Division, FSA/OWI Collection, [LC-USF33-T01-001509-M1]

<http://www.loc.gov/pictures/collection/fsa/item/fsa1997004684/PP/>

A selection of key documents, hearings, data publications, and speeches on employment and the workforce in America.

**RELATED LINKS:**

- [United States Bureau of Labor Statistics](#)
- [Institute for Research on Labor and Employment, University of California, Berkeley, Digital Collection](#)

**SUBJECTS:**

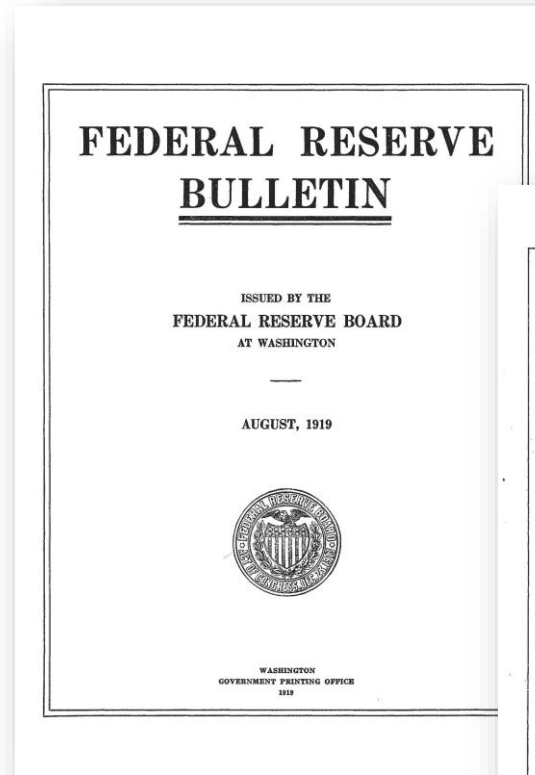
- Labor
- Human capital
- Labor market

# FRASER in the classroom

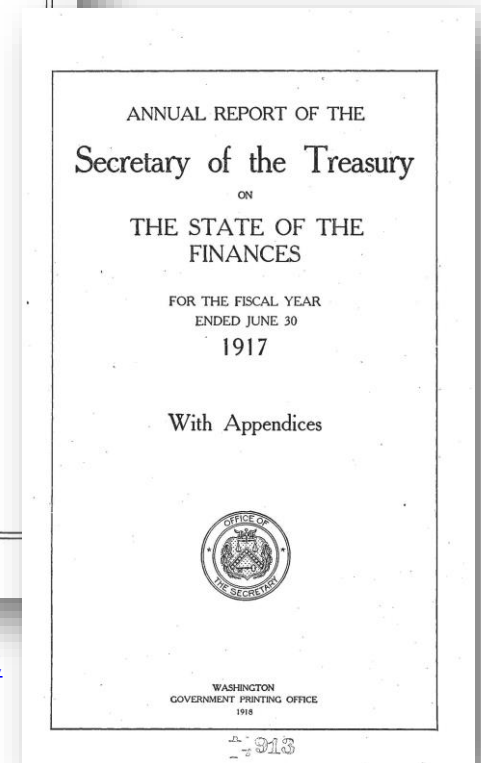
BROWSE RESOURCES FOR		BROWSE ALL RECORDS	
Filter items by title...	Filter items by title...	Filter items by title...	Filter items by title...
<p><b>Teachers</b></p> <p><b>Professors</b></p> <p><b>Librarians</b>            These resources have been selected with various library reference and instruction uses in mind. Many of the classroom lessons cover information and data literacy topics, and lessons, newsletters, and handouts link to primary source or reliable secondary source materials. These materials may also provide ideas for student research projects.</p> <p><b>Students</b></p> <p><b>Anyone</b></p>	<p><b>School</b></p> <p><b>Academic</b>            Educational resources for academic librarians are appropriate for library instruction, and can be remixed for inclusion in library resource guides.</p> <p><b>Public</b></p>	<p><b>Economics</b></p> <p><b>Finance and Business</b></p> <p><b>History and Economic History</b>            These newsletters, handouts, and classroom lesson can be used as-is or as reference materials for a variety of topics in history, particularly U.S. economic and banking history.</p> <p><b>Government, Public Policy, and Political Science</b></p> <p><b>The Federal Reserve</b></p> <p><b>Data</b></p>	<p><b>Learning Toolkit: Historical Inquiry With Charts</b></p> <p><b>Booklet: Benjamin Franklin and the Birth of a Paper Money Economy</b></p> <p><b>Classroom Lesson: Benjamin Franklin and the Birth of a Paper Money Economy</b></p> <p><b>Classroom Lesson: From Raw Materials to Riches: Mercantilism and the British North American Colonies</b></p> <p><b>Booklet: The First Bank of the United States</b></p> <p><b>Classroom Lesson: The First Bank of the United States: A Chapter in the History of Central Banking</b></p> <p><b>Classroom Lesson: Hamilton's National Bank</b></p> <p><b>Booklet: The Second Bank of the</b></p>

# Making research possible

- What was the total number and amount of victory bonds in the first World War?



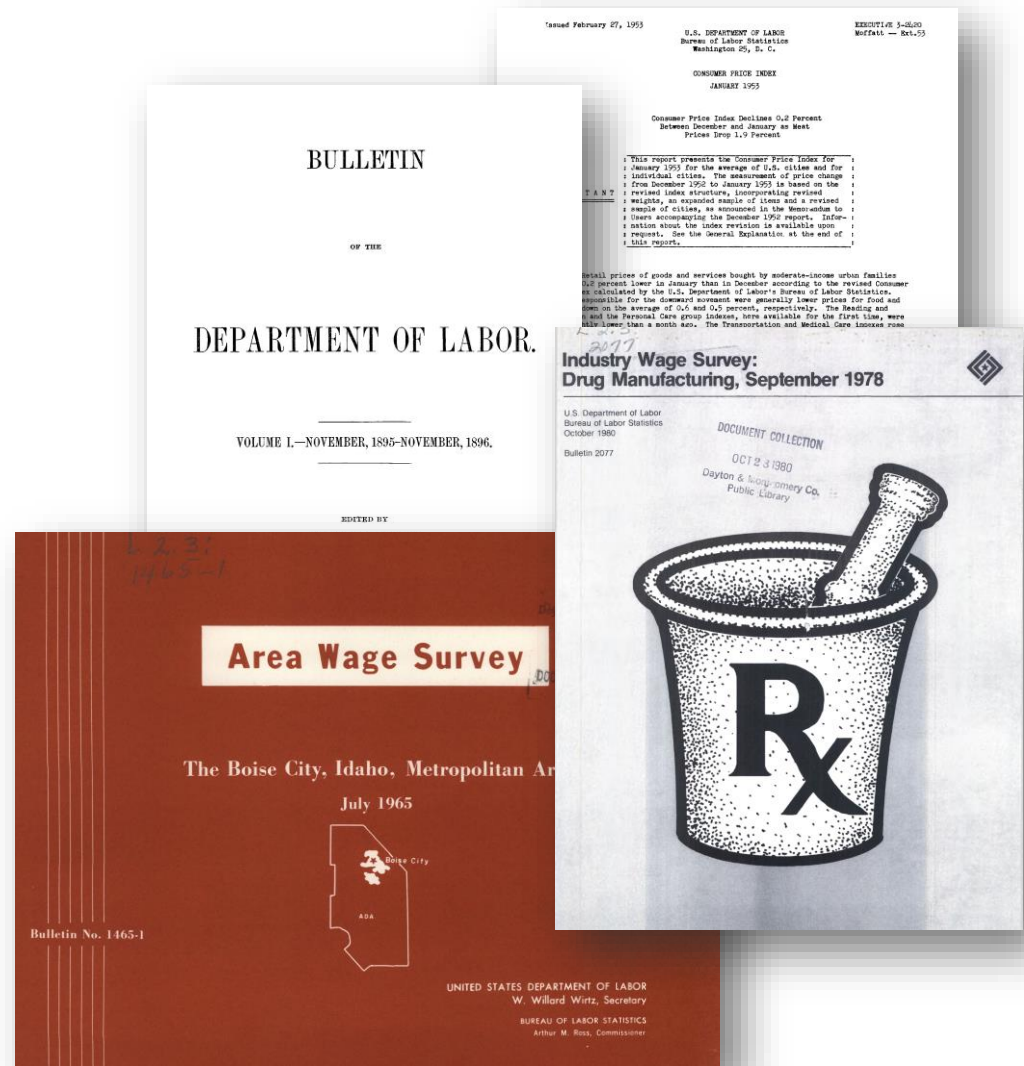
<https://fraser.stlouisfed.org/title/62>



<https://fraser.stlouisfed.org/title/194>

# How is FRASER used?

- Archival publications of many government agencies
- Bureau of Labor Statistics



<https://fraser.stlouisfed.org/author/7>

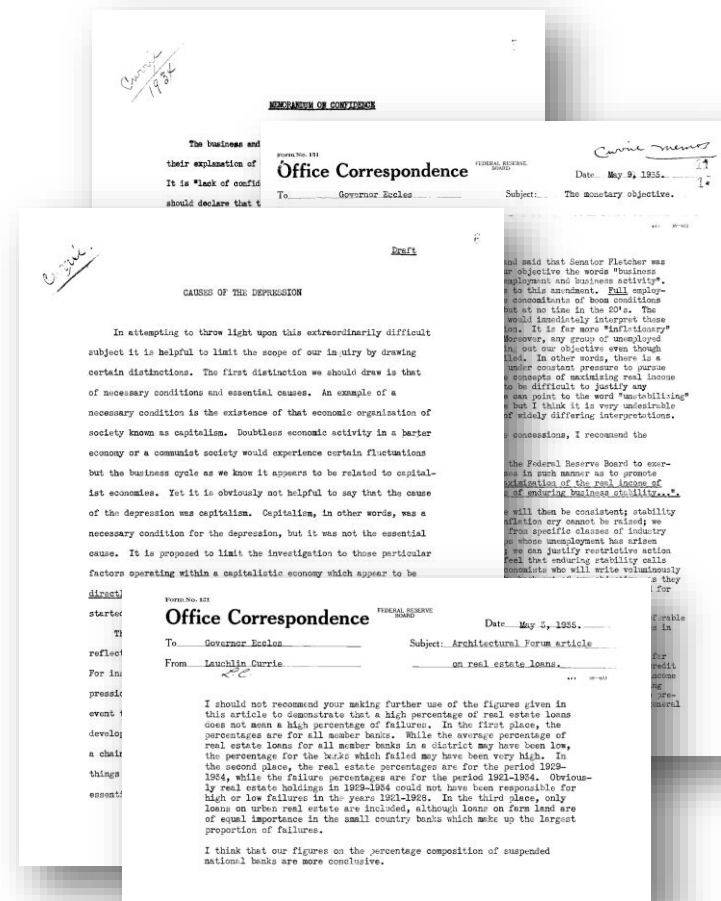
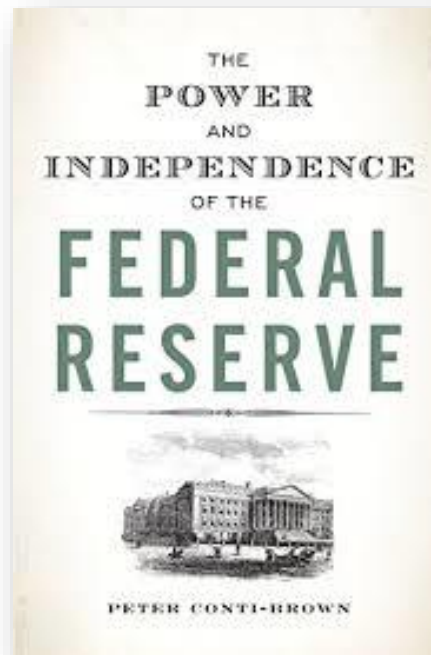
# How is FRASER used?

- Do you have a list of all historical FOMC meetings, the dates they occurred on, and a similar list of all minutes, and when they were released?

The screenshot displays the FRASER website interface. On the left, there is a sidebar with a list of decades from the 1930s to the 2010s. The '1930s' decade is selected. The main content area shows a list of meetings for the 1930s, with the first entry, 'Meeting, July 20, 1933', highlighted. A search bar at the top of the main area is labeled 'Filter issues by name ...'. On the right side, a detailed view of the 'Meeting, July 20, 1933' is shown. This view includes a 'View' button, a 'DATE: July 20, 1933' field, and a 'PART OF:' section with a bullet point: 'Federal Open Market Committee Meeting Minutes, Transcripts, and Other Documents'. Below this, there is a 'Download (PDF)' button. At the bottom of the right panel, there are two sections: 'MORE INFORMATION' and 'SAVE & SHARE', each with a 'more' link and a downward arrow icon.

# How is FRASER used?

- Peter Conti-Brown, *The Power and Independence of the Federal Reserve* (2016)



<https://fraser.stlouisfed.org/archival/1343>

# Using the FRASER API for Metadata Harvesting and in the Digital Humanities

## Request (HTTPS GET)

https://fraser.stlouisfed.org/oai/?verb=GetRecord&

## Response

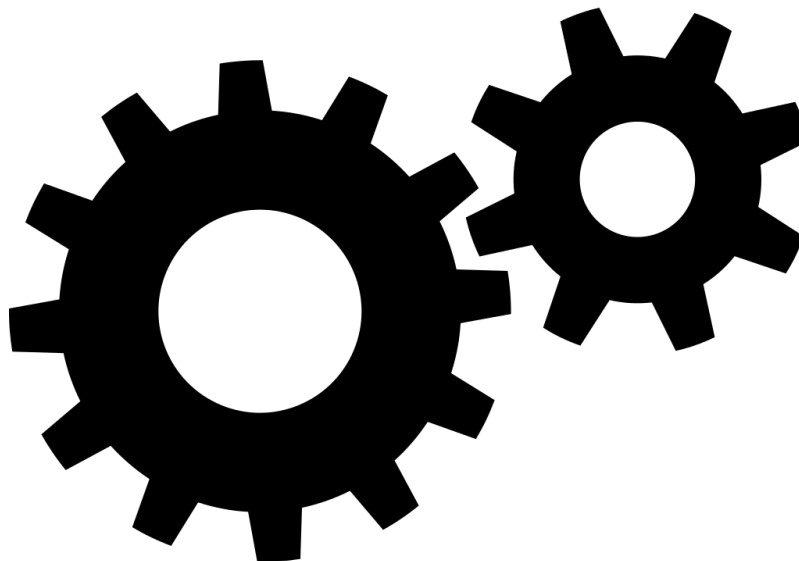
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```

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```



# An Introduction to APIs

- API – Application Programming Interface
- Allows access to specific server data via a series of public-facing “endpoints” that allow for programmatic access to data.
- Gives access to information about FRASER documents at a scale that wouldn’t be feasible using the website.
- GET, POST, PUT, DELETE
  - FRASER API only uses GET



# OAI-PMH

- **O**pen **A**rchives **I**nitiative **P**rotocol for **M**etadata **H**arvesting
- <https://www.openarchives.org/OAI/openarchivesprotocol.html>
- “[...] provides an application-independent interoperability framework based on *metadata harvesting*”



# Request GET endpoints

- <https://research.stlouisfed.org/docs/api/fraser/>
- **Identify**
  - Returns information about the FRASER repository
- **ListMetadataFormats**
  - Returns information about metadata formats used by FRASER (FRASER currently only returns MODS metadata)
- **ListRecords**
  - Returns metadata for all or specific set of records from FRASER
- **ListIdentifiers**
  - Returns unique identifiers for all or specific set of FRASER records
- **ListSets**
  - Returns all setSpec identifiers for use in FRASER API set parameters
- **GetRecord**
  - Returns a single record's metadata based on unique identifier

# Harvesting Metadata

- Allows other digital repositories to link back to FRASER content
- <https://fraser.stlouisfed.org/oai/?verb=ListRecords&metadataPrefix=mods>

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# Digital Public Library of America

- <http://missourihub.org/>
- <https://dp.la>



**Missouri Hub**  
A Service Hub for the Digital Public Library of America

BROWSE BY TOPIC BROWSE BY PARTNER EXHIBITIONS PRIMARY SOURCE

**D P L A** DIGITAL PUBLIC LIBRARY OF AMERICA

Discover 35,259,925 items and sounds from across America

Search the collection

Browse by Topic



**DPLA Release**

3,213 results

Sort by: Relevance | Items per page: 20 | Layout: [Grid] [List]

Filtered by: provider: Federal Reserve Bank of St. Louis X Clear all filters

Create a list from these items

### Refine your search

Subject	Count
United States	1,761
Statistics	357
Wages	347
Law and legislation	271
Banks and banking	253
Congressional hearings	253
Employment	132
Manufacturing industries	127
Federal Reserve banks	123
Congressional reports	114
Women	104
Banking law	89

Date

Between Year:

and Year:


Update

Language: +


Contributing Institution: -

Federal Reserve Bank of St. Louis 3,213

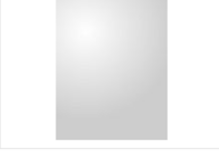
Partner: +




**Trend of Earnings Among White-Collar Workers During the War**  
G.P.O.  
[View Full Item](#) in Federal Reserve Bank of St. Louis



**Currency Bill**  
Government Printing Office  
[View Full Item](#) in Federal Reserve Bank of St. Louis



**Temporary Increase in Debt Ceiling**  
Government Printing Office  
[View Full Item](#) in Federal Reserve Bank of St. Louis



**The Bank of France in Its Relation to National and International Credit**  
Government Printing Office  
[View Full Item](#) in Federal Reserve Bank of St. Louis

# Worldcat

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[<< Return to Search Results](#)

[Add to list](#) [Add tags](#) [Write a review](#) Rate this item: ☆☆☆☆☆

## Statements and speeches of G. William Miller.

Author: [G William Miller](#)

Publisher: St Louis, Missouri : Federal Reserve Bank of St. Louis, [201-?]

Edition/Format:  eBook : Document : National government publication : English [View all editions and formats](#)

Rating: ☆☆☆☆☆ (not yet rated) [0 with reviews - Be the first.](#)

Subjects: [Board of Governors of the Federal Reserve System \(U.S.\)](#)  
[Banks and banking -- United States -- Sources.](#)  
[Speeches, addresses, etc.](#)  
[View all subjects](#)

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Links to this item

[fraser.stlouisfed.org](http://fraser.stlouisfed.org)  
FRASER Publications

# Analyzing Sentiment in Economic Reports

- <https://fraser.stlouisfed.org/title/45>

PUBLICATION:  
**Economic Report of the President**  
1947-2019

Search within this title...

**AUTHORS:**

- United States. President
- Council of Economic Advisers (U.S.)

**ABSTRACT:** The Economic Report of the President is a report prepared by the Council of Economic Advisers. It overviews the nation's economic conditions and provides recommendations for policy.

**ALTERNATE TITLES:**

- Midyear Economic Report of the President to the President
- Economic Report of the President
- Economic Report of the President Transmitted to the Congress

ALL ISSUES    STATISTICAL DATA

1940s    Filter issues by name ...

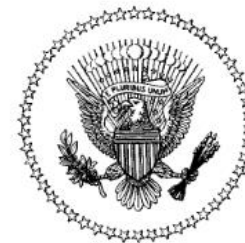
1940s  
1950s  
1960s  
1970s  
1980s  
1990s  
2000s  
2010s

Filter issues by name ...

1980s

1980  
1981  
1982  
1983  
1984  
1985  
1986  
1987  
1988  
1989

## Economic Report of the President



Transmitted to the Congress  
January 1980

TOGETHER WITH  
THE ANNUAL REPORT  
OF THE  
COUNCIL OF ECONOMIC ADVISERS  
UNITED STATES GOVERNMENT PRINTING OFFICE  
WASHINGTON : 1980

# GetRecord endpoint

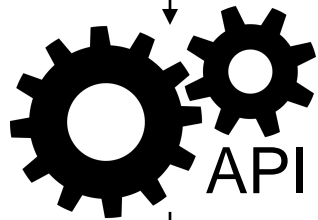
- Documentation:  
<https://research.stlouisfed.org/docs/api/fraser/getRecord.html>
- <https://fraser.stlouisfed.org/oai/?verb=GetRecord&identifier=oai:fraser.stlouisfed.org:title:45>

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# Request

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# XML Response

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"1986" "https://fraser.stlouisfed.org/docs/publications/ERP/1986/ERP_1986.pdf"
"1987" "https://fraser.stlouisfed.org/docs/publications/ERP/1987/ERP_1987.pdf"
"1988" "https://fraser.stlouisfed.org/docs/publications/ERP/1988/ERP_1988.pdf"
"1989" "https://fraser.stlouisfed.org/docs/publications/ERP/1989/ERP_1989.pdf"
"1990" "https://fraser.stlouisfed.org/docs/publications/ERP/1990/ERP_1990.pdf"
"1991" "https://fraser.stlouisfed.org/docs/publications/ERP/1991/ERP_1991.pdf"
"1992" "https://fraser.stlouisfed.org/docs/publications/ERP/1992/ERP_1992.pdf"
"1993" "https://fraser.stlouisfed.org/docs/publications/ERP/1993/ERP_1993.pdf"
"1994" "https://fraser.stlouisfed.org/docs/publications/ERP/1994/ERP_1994.pdf"
"1995" "https://fraser.stlouisfed.org/docs/publications/ERP/1995/ERP_1995.pdf"
"1996" "https://fraser.stlouisfed.org/docs/publications/ERP/1996/ERP_1996.pdf"
"1997" "https://fraser.stlouisfed.org/docs/publications/ERP/1997/ERP_1997.pdf"
```

XML Parser of your choice



# Text Analysis

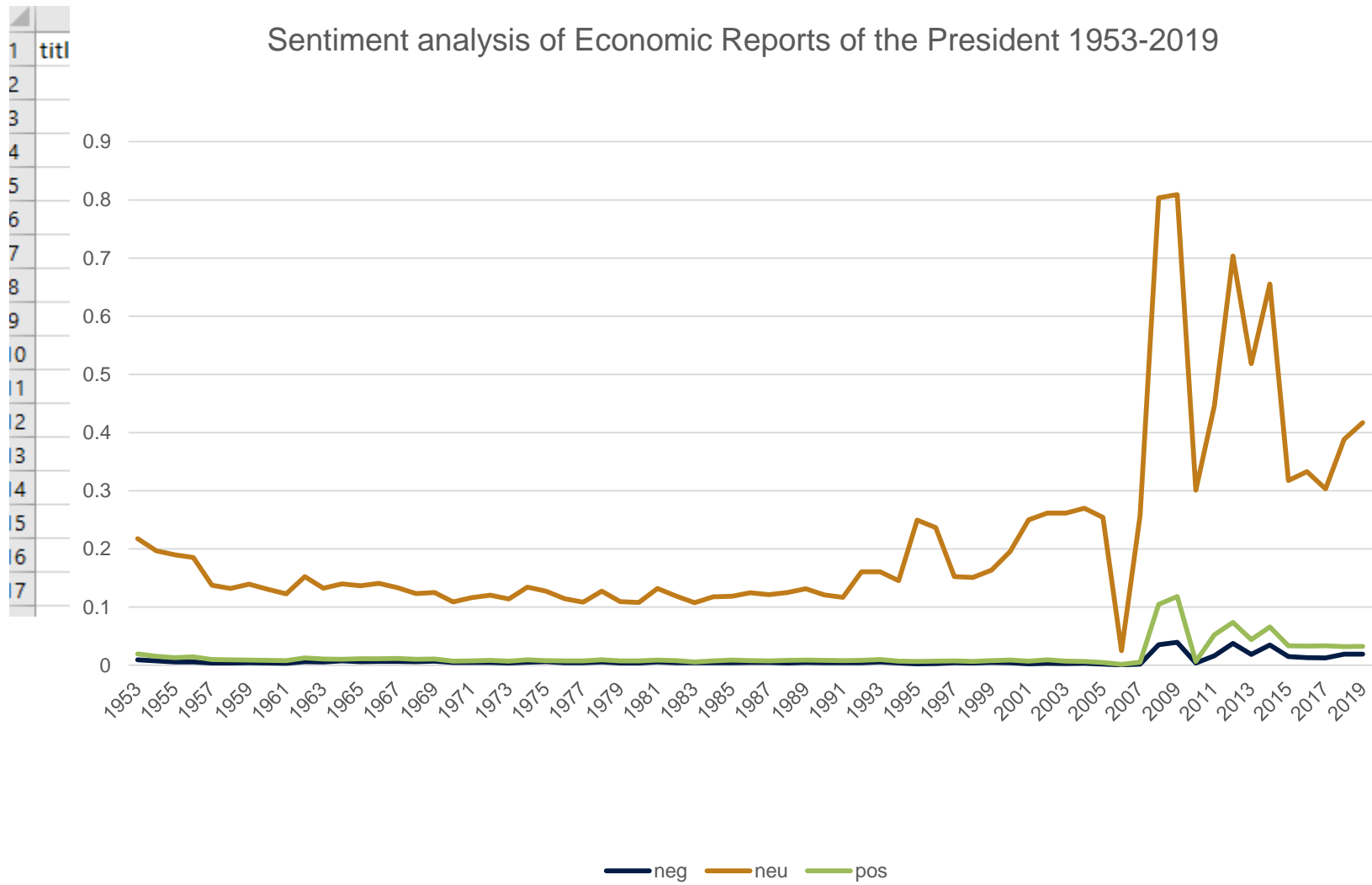
```
for pdf_url in pdf_urls:  
    url = pdf_url[1]  
    ti  
    if  
    pr  
    dc  
    pa  
    co  
    fo  
    .....  
    av  
    av  
    rc  
    dc  
    os
```

Anaconda Powershell Prompt

```
(base) PS C:\users\h1mxk04\desktop> python api_test.py
```

# Final Data

Sentiment analysis of Economic Reports of the President 1953-2019



# Questions and Suggestions?

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A screenshot of the FRASER search interface. At the top, the word "FRASER" is written in large, bold, black letters, followed by a small icon of an open book with a grid of dots. Below this, the text "DISCOVER ECONOMIC HISTORY | FEDERAL RESERVE" is displayed in a smaller, black, sans-serif font. Underneath, a paragraph of text reads: "Search across our many collections for over half a million documents that span the history of banking, finance, and economics." Below the text, there is a search bar with the placeholder text "Enter a search phrase" and a "Search" button to its right. The entire interface is enclosed in a thin black border.

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