

INVESTIGATING ECONOMIC INDICATORS

WEBINAR SERIES

Relationships Between Monthly & Quarterly Indicators, Annual Surveys, and 5-Year Economic Census

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Cheryl Lynne Geter
Survey Statistician

Economic Indicators Division



**SUBMIT QUESTIONS VIA
CHAT TO ASK CENSUS**



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Investigating Economic Indicators

Available at: www.census.gov/econ/webinar

Webinars:

- Measuring Our Economy: A Brief Overview of the Census Bureau's Economic Indicators
- Navigating Indicator Databases
- Understanding Construction and Housing Statistics
- Measuring Our Evolving Economy: Exploring the Quarterly Financial Report and the Quarterly Services Survey's Role in Tracking the Service Industries
- Wholesale, Retail, and International Trade Indicators in a Global Marketplace
- Exciting Changes with USA Trade Online
- Manufacturing, Products, and Goods Across Indicators
- Recent and Upcoming Indicator Improvements
- The Building Blocks of Gross Domestic Product

Prior Webinars:

Click on the "Intro to Economic Indicators" tab.

Webinar Overview

- Building Blocks of Economic Data
 - Economic Census
 - Annual Surveys
 - Economic Indicators
- Relationships between Economic Surveys
 - NAICS
 - Sample and Frame Design
 - Revisions and Benchmarking
- Economic Indicators with Relationships to Annual Surveys and the Economic Census
- Economic Indicators without Direct Relationships to Annual Surveys or the Economic Census
- Conclusion



**SUBMIT QUESTIONS VIA
CHAT TO ASK CENSUS**

Building Blocks of Economic Data

Economic Indicators — census.gov/economic-indicators

- Provide monthly and quarterly data that are **timely**, **reliable**, and offer comprehensive measures of the U.S. economy.
- Fewer Data Items are collected than for annual surveys and the Economic Census.
- Smaller sample size than annual surveys and the Economic Census.
- Collected at the company or company reporting unit level
- National level statistics

Economic Indicators – [census.gov/economic-indicators](https://www.census.gov/economic-indicators)

- Monthly
 - **Advance Report on Durable Goods Manufacturers' Shipments, Inventories, and Orders**
 - **Manufacturers' Shipments, Inventories, and Orders**
 - **Monthly Wholesale Trade**
 - **Advance Monthly Sales for Retail Trade and Food Services**
 - Manufacturing and Trade Inventories and Sales
 - New Residential Construction
 - New Residential Sales
 - Construction Spending or Value of Construction Put in Place
 - U.S. International Trade in Goods and Services
- Quarterly
 - Quarterly Financial Report – Manufacturing, Mining, Wholesale Trade, and Selected Service Industries
 - Quarterly Financial Report – Retail Trade
 - **Quarterly Services Survey**
 - Housing Vacancies and Homeownership



Annual Surveys - census.gov/econ

- Fewer Data Items are collected than on the Economic Census
- Collected at the company level or establishment level
- Provides national or state level statistics
- Provides Year-to-Year Comparisons

Economic Census – business.census.gov

- Conducted once every five (5) years
- Profiles the U.S. economy from the national to the local level
- Years ending in 2 and 7
- Collects data from the business establishments of companies
- **Most detailed** information on the structure of the economy

Data Products

- Industry Series
 - Mining, Construction, Manufacturing
 - Retail, Wholesale, Services
- Geographic Area Series
 - State, Metropolitan
 - County, Zip code
- Subject and Summary Series
 - Product Lines
 - Establishment and Firm size
 - Miscellaneous Subjects
- Data from Economic Census provide framework for measures
 - Calculation of Gross Domestic Product
 - Calculation of National Income and Product Accounts
- Most recent Economic Census is from 2012

Relationships Between Economic Surveys

Relationships between Economic Surveys

- North American Industry Classification System (NAICS)
- Sampling Frame and Design
- Revisions and Benchmarking

North American Industry Classification System (NAICS)

www.census.gov/eos/www/naics

- A hierarchical classification system that groups establishments into industries based on the business activities in which they are primarily engaged.
- A comprehensive system covering the entire field of business activities.
- Used to collect, tabulate, analyze, and disseminate statistics.
- A common language used among U.S., Canadian, and Mexican statistical agencies
- Updated every five years

NAICS Structure - 20 Sectors

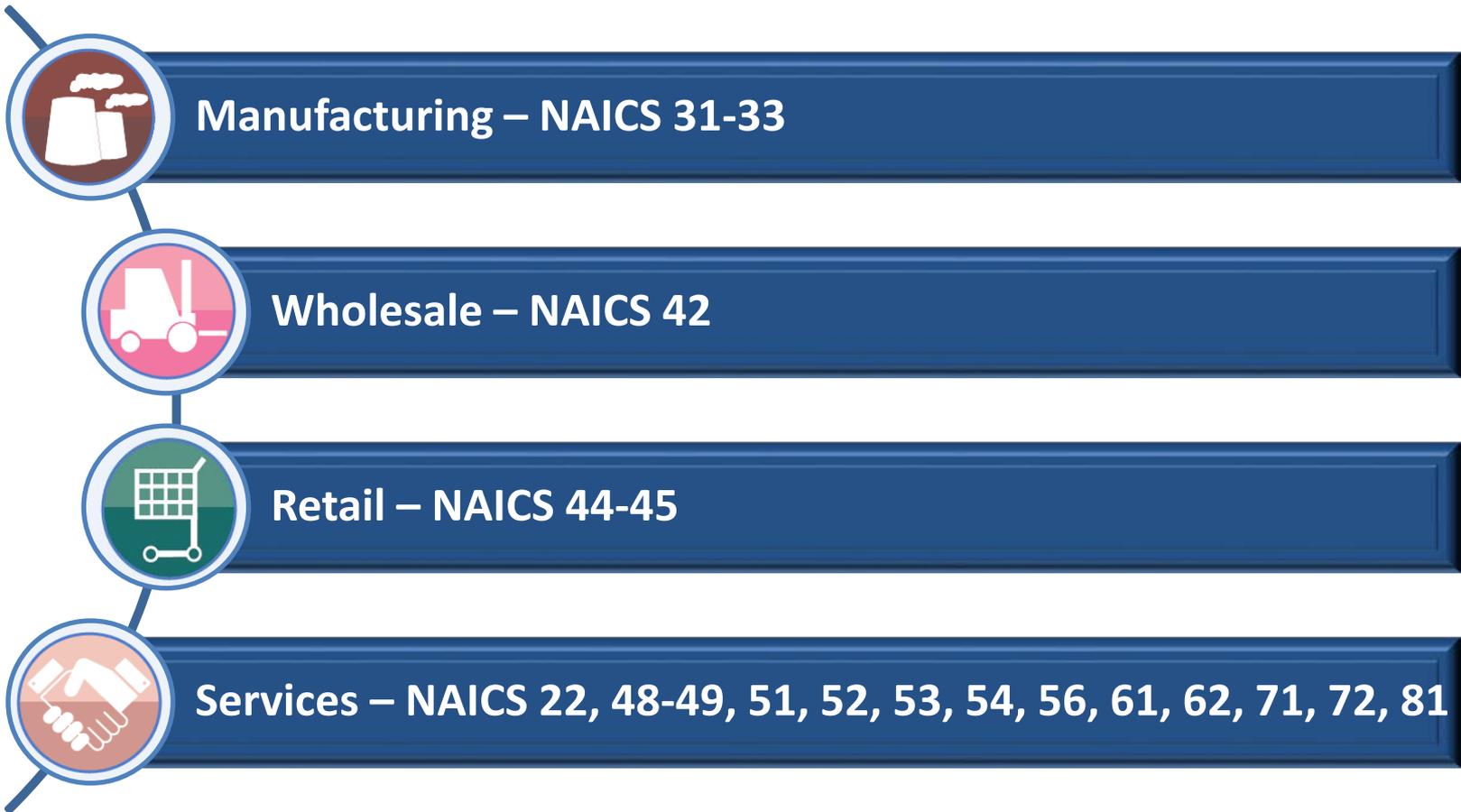
| | | | | | |
|-------|---|---|----|--|---|
| 11 | Agriculture, Forestry, Fishing and Hunting |  | 53 | Real Estate and Rental and Leasing |  |
| 21 | Mining, Quarrying, and Oil and Gas Extraction |  | 54 | Professional, Scientific, and Technical Services |  |
| 22 | Utilities |  | 55 | Management of Companies and Enterprises |  |
| 23 | Construction |  | 56 | Administrative and Support and Waste Management and Remediation Services |  |
| 31-33 | Manufacturing |  | 61 | Educational Services |  |
| 42 | Wholesale Trade |  | 62 | Health Care and Social Assistance |  |
| 44-45 | Retail Trade |  | 71 | Arts, Entertainment, and Recreation |  |
| 48-49 | Transportation and Warehousing |  | 72 | Accommodation and Food Services |  |
| 51 | Information |  | 81 | Other Services (except Public Administration) |  |
| 52 | Finance and Insurance |  | 92 | Public Administration |  |

NAICS Hierarchy

| Level | Code | Description |
|----------------|-------------|-----------------------------------|
| Sector | 51 | Information |
| Subsector | 515 | Broadcasting (except Internet) |
| Industry Group | 5151 | Radio and Television Broadcasting |
| Industry | 51511 | Radio Broadcasting |
| U.S. Industry | 515112 | Radio Stations |

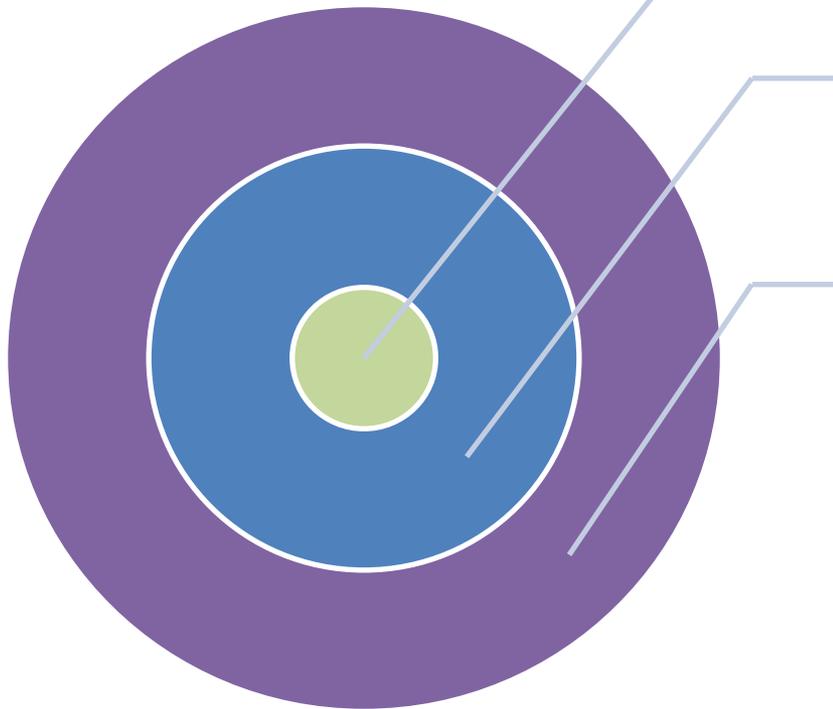


NAICS Tabulation Group



Sampling Frame and Design

*Current Model for many programs



Indicator Samples

(4,000-18,000)

Annual Samples

(9,000-76,000)

FRAME: Economic
Census + Administrative
Data (28 million)

Sampling Frame and Design: The Business Register

- The Economic Programs' ***master business list***
 - Survey sampling frames
- The central repository of administrative data from other government agencies
- The central location for data collection and processing
- The data source for statistical products
- And the Business Register contains the data for economic research
- Business Register has huge impact on economic programs
 - Preserves the information collected from the Economic Census
 - Improves survey data quality
 - Reduces collection and processing costs

The Business Register

Establishment vs Company

Establishment

- An economic unit, **usually at a single physical location**, where business is conducted or where services or Industry operations are performed.



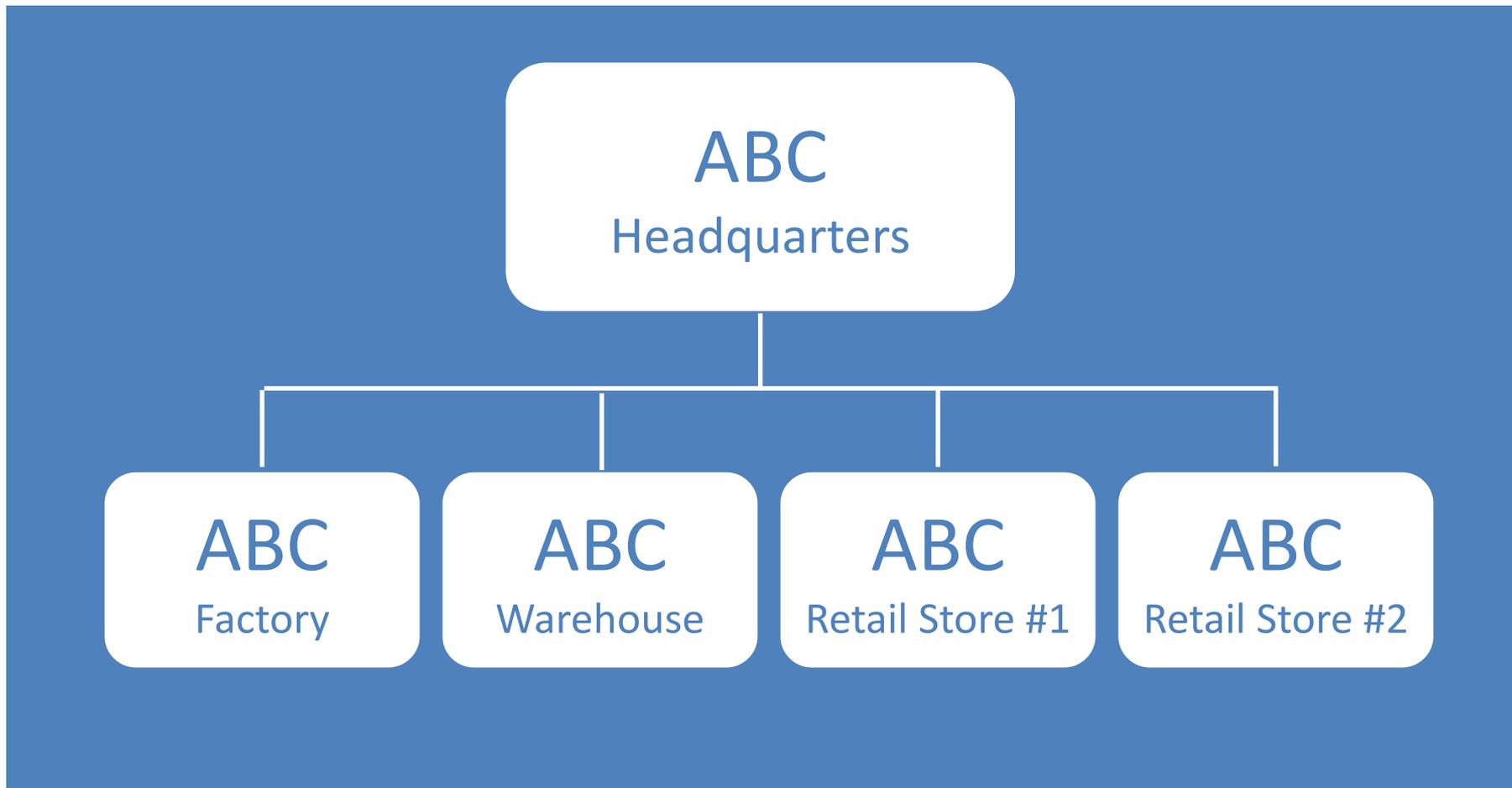
Company

- An economic unit comprising ***one or more establishments under common ownership or control.***
- Often used interchangeably with enterprise or firm.



The Business Register

Establishment vs Company



Revisions and Benchmarking

- **Timing of the data being reported**
 - Data gathered at different frequencies.
- **Late receipts**
 - Data reported late or estimates updated.
- **Response**
 - Process on the monthly surveys assumes that nonresponding firms have trends similar to the responding firms in their respective kinds of business.
- **Benchmarking**
 - Includes methodologies used to measure or adjust according to specific standards in order to compare and improve data quality and reliability.
- **Seasonal Adjustment**
 - Process of estimating and removing seasonal effects from a time series in order to better reveal certain non seasonal features.

Revisions and Benchmarking

Benchmarking :

Adjusts the level of a given series, to the levels of a less frequent data source (referred to as benchmarks) that is considered to be of better quality. This attempts to minimize revisions to the period-to-period changes from the more frequent series.

In this way, we produce consistent time series and attempt to reduce the effects of sampling and non sampling errors in the more frequent, original series.

Benchmarking Goal:

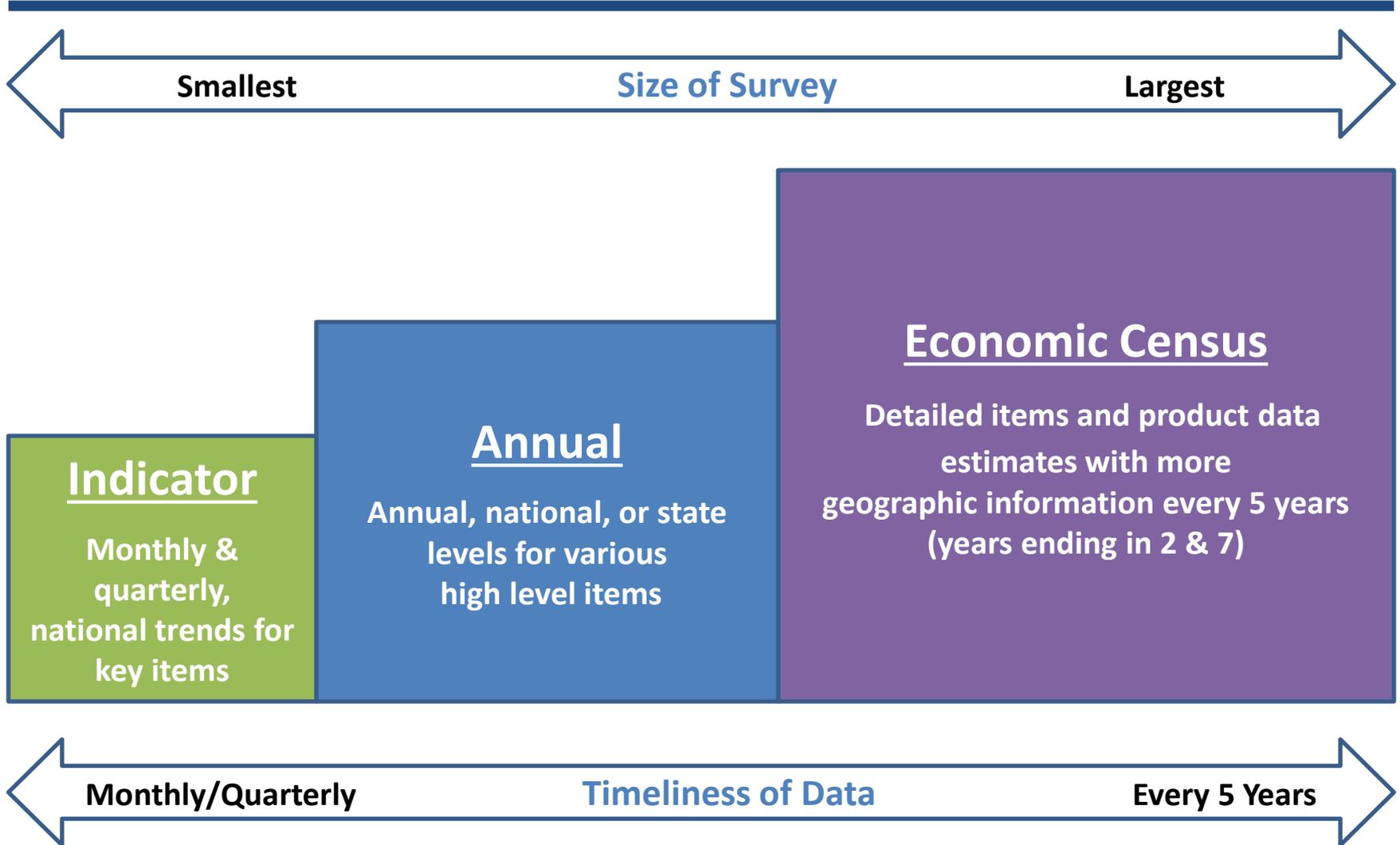
- Preserve the **period-to-period movement** of the original series (higher frequency series) while obtaining the **level** of the benchmarks (lower frequency series).
- Note: Benchmarking is done before seasonal adjustments.

Revisions and Benchmarking

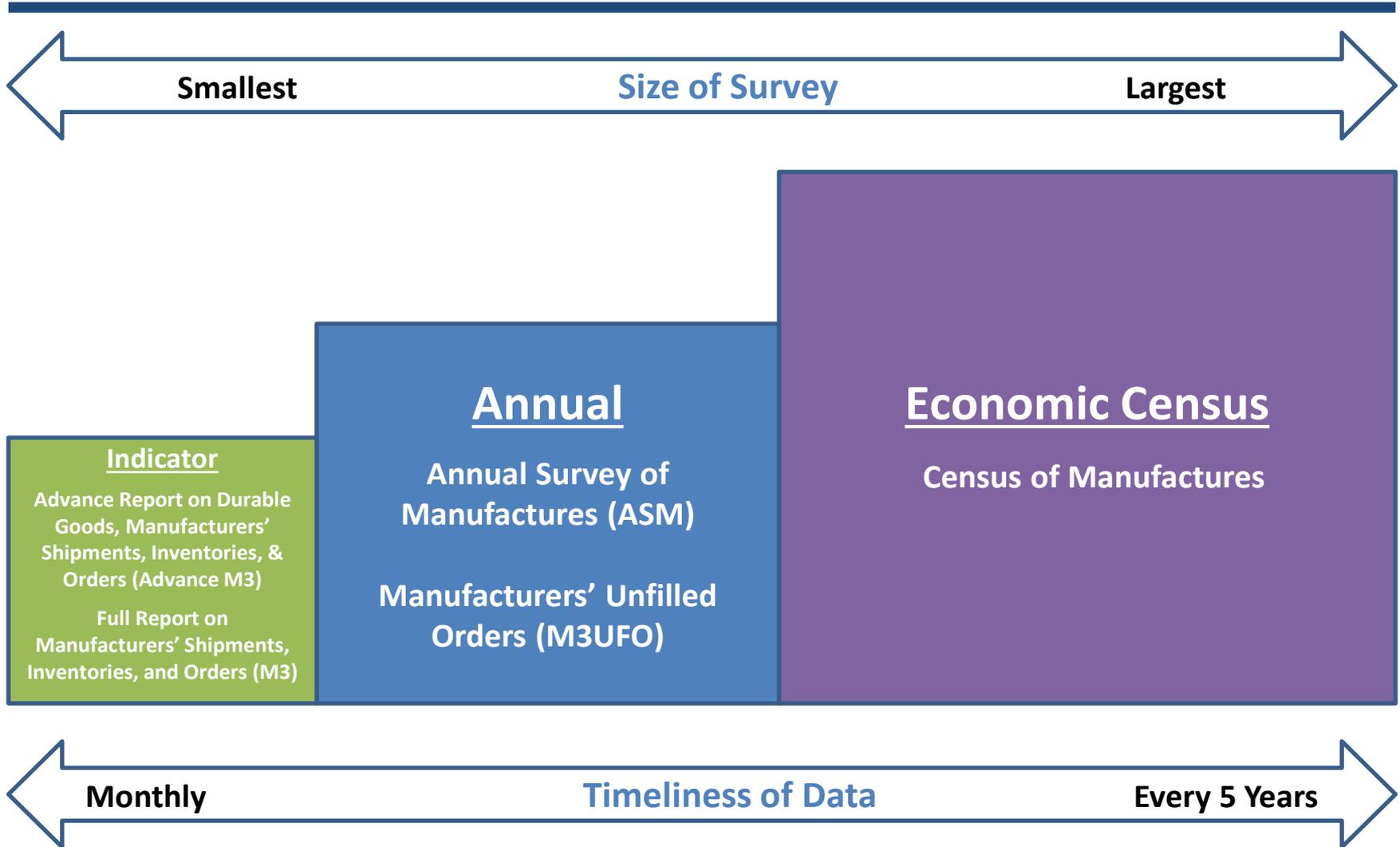
- Once a year we benchmark the monthly or quarterly survey estimates to the annual survey estimates
- Annual samples are larger
 - The sampling error of the estimates is lower in the annual surveys
- Every **5** years we benchmark the monthly and annual estimates to the Economic Census
- Economic Census and annual surveys provide more reliable detailed level estimates
- Monthly and quarterly economic indicators surveys provide more timely estimates of trend (period-to-period changes)

Economic Indicators with Relationships to Annual Surveys and the Economic Census

Economic Indicators with Relationships to Annual Surveys and the Economic Census



Manufacturing



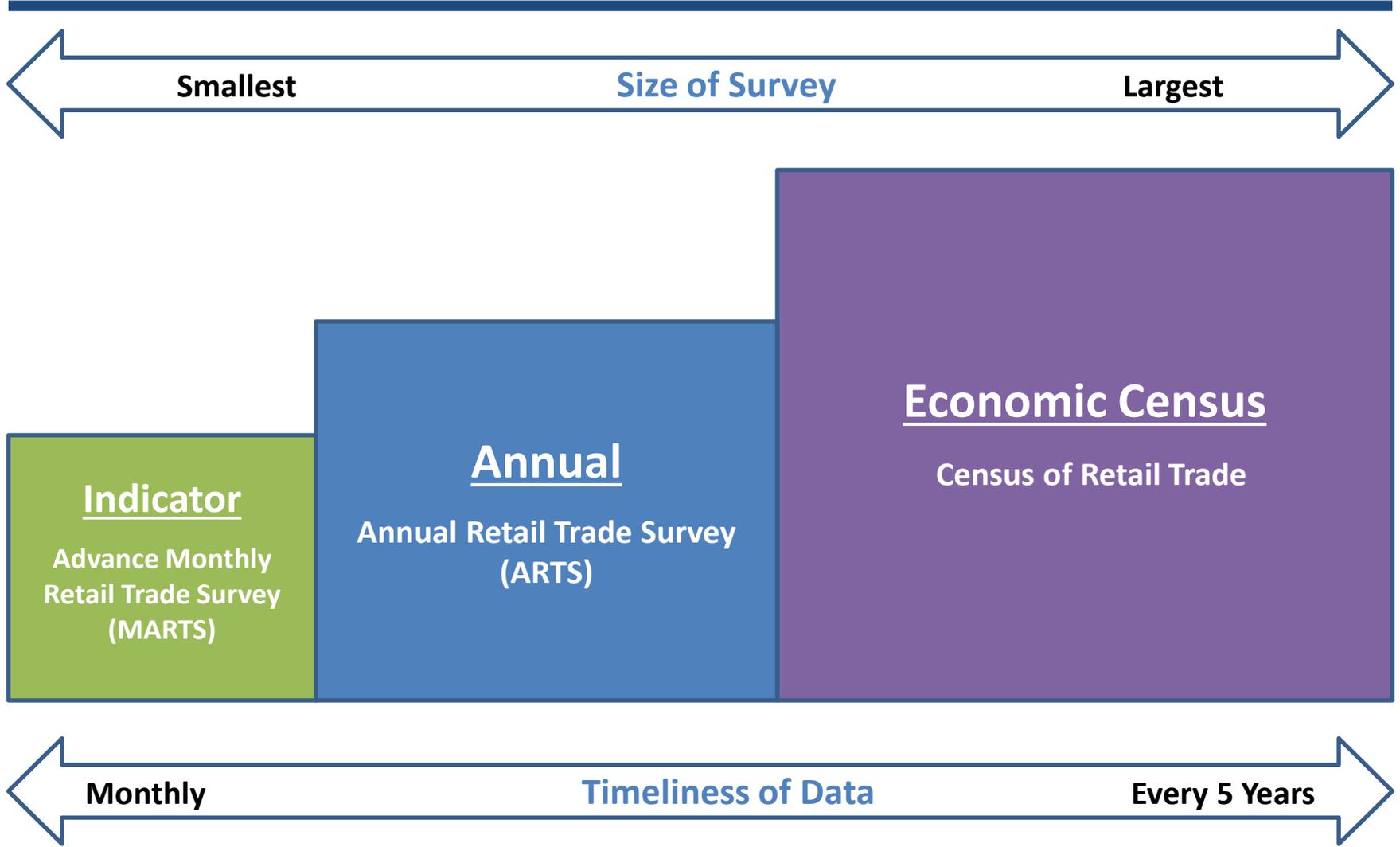
Comparison of Manufacturing Surveys

| | Economic Census (Census of Manufactures) | Annual Survey of Manufactures (ASM) | Manufacturers' Unfilled Orders (M3UFO) | Manufacturers' Shipments, Inventories, & Orders (M3) |
|-------------------------------|---|--|--|---|
| Sample Size | 290,000+ establishments of 250,000+ companies | 50,000 Establishments | 6,000 companies | 3,100 companies (5,000 reporting units) |
| Sample Revision | Every 5 Years | Every 5 years | Every 5 years | Ongoing |
| Items Collected | Information collected on employment, payroll, inventories, shipments, materials used, and capital expenditures. | Information collected on employment, payroll, inventories, shipments, materials used, and capital expenditures., and presented by state. | Shipments and Unfilled Orders | Shipments Total Inventories Stages of Fabrication New Orders |
| Data Products | Census of Manufacturers Geographic Area, Industry Series, Product Lines, Firm size | Annual Survey of Manufactures (ASM) | N/A | Advance Report on Durable Goods Manufacturers' Shipments, Inventories, and Orders (Advance M3) Full Report on Manufacturers' Shipments, Inventories, and Orders (M3) |
| Release Date | Flow basis starting 1 year after the reference period | Targeted release dates are 12 months from the end of the reference period. | N/A | Advance M3 is available about 18 working days after each month. M3 is available about 23 working days after each month. |
| Benchmark Products | None | ASM estimates are benchmarked to data from the Census of Manufactures | Data released as part of the annual M3 benchmark report; data are used to benchmark M3 unfilled orders data | This report presents the results of the benchmarking operation that revises monthly data based on the ASM. |

Comparison of Wholesale Trade Surveys

| | Economic Census (Census of Wholesale Trade) | Annual Wholesale Trade Survey (AWTS) | Monthly Wholesale Trade Survey (MWTS) |
|-------------------------------|---|---|---|
| Sample Size | 419,000+ establishments of 310,000+ companies | 8,000 Companies | 4,500 Companies |
| Sample Revision | N/A | Every 5 years | Every 5 years |
| Items Collected | Sales, Annual and first quarter payroll, Employment, Inventories, Operating Expenses, Kind of Business, Type of operation, Class of Customer, Method of Selling, Product lines, Shipping and handling, Special Inquiries | Sales, Inventories, Purchases, Operating Expenses, inventories held outside the U.S., Commissions, Sales on Own Account, Gross Selling Value, E- Commerce | Sales, Inventories |
| Data Products | Census of Wholesale Trade Advance Report, Industry Series, Geographic Area, Product Lines, Establishment & Firm size, Miscellaneous Subjects | Annual Wholesale Trade Report, E-Stats | Monthly Wholesale Trade Survey (MWTS) |
| Release Date | Flow basis starting 1 year after the reference period | 14 months after the reference period | 6 weeks after the reference period |
| Benchmark Products | None | AWTS estimates were revised to reflect benchmarking to final results of the 2012 Economic Census | This report presents the results of the benchmarking operation that revises monthly sales and inventories estimates based on the Annual Wholesale Trade Survey. Estimates are both seasonally adjusted and unadjusted. |

Retail Trade



Comparison of Retail Trade Surveys

| | Economic Census (Census of Retail Trade) | Annual Retail Trade Survey (ARTS) | Monthly Retail Trade Survey (MRTS) | Advance Monthly Retail Trade Survey (MARTS) (Economic Indicator) |
|-------------------------------|---|--|--|---|
| Sample Size | 1,100,000 establishments of 650,000+ companies | 22,000 companies | 12,000 companies | 4,900 companies |
| Sample Revision | N/A | Every 5-6 years | Every 5-6 years | Every 2-3 years |
| Items Collected | Sales, Annual and First Quarter payroll, Employment, Kind of Business, Class of Customer, Method of Selling, Product lines, Shipping and handling, Special inquiries | Sales, e-commerce sales, end- of-year inventories, inventories held outside the U.S., purchases, accounts receivables, operating expenses | Sales, e-commerce sales, end- of-month inventories, number of establishments | Sales, e-commerce sales, number of establishments |
| Data Products | Census of Retail Trade Advance Report, Industry Series, Geographic Area, Product Lines, Establishment & Firm size, Miscellaneous Subjects , Zip Code | Annual Retail Trade Report, E-Stats | Advance Monthly Sales for Retail and Food Services (MARTS), Manufacturing and Trade Inventories and Sales (MTIS), Quarterly Retail E-commerce Sales | Advance Monthly Sales for Retail and Food Services (MARTS) |
| Release Date | Flow basis starting 1 year after the reference period | 15 months after the reference period | 6 weeks after the reference period | 2 weeks after the reference period |
| Benchmark Products | None | ARTS estimates were revised to reflect benchmarking to final results of the 2012 Economic Census | Monthly retail sales, inventories, and inventories- to-sales ratios estimates are revised to reflect the final ARTS results. | N/A |

 Services 



Comparison of Services Surveys

| | Economic Census (Census of Services) | Services Annual Survey (SAS) | Quarterly Services Survey (QSS) |
|-------------------------------|--|---|---|
| Sample Size | 2,500,000 establishments of 4,700,000 service establishments | 76,000 Companies | 19,500 Companies |
| Sample Revision | Every 5 Years | Every 5 years | Every 5 years |
| Items Collected | Operating revenue, sources of revenue and expenses, select industry-specific questions | Operating revenue and expenses, sources of revenue and expenses, e- commerce, exports, inventory, select industry-specific questions | Operating revenue and the percentage by class of customer, operating expenses for tax-exempt firms in industries with a large not- for-profit component, inpatient days and discharges for hospital services |
| Data Products | Census of Services Geographic Area, Industry Series, Product Lines, Firm size and miscellaneous subjects. | Services Annual Survey release | Quarterly Services Survey release |
| Release Date | Flow basis starting 1 year after the reference period | No later than 13 months after the end of the reporting year. | Approximately every 75 days, after each calendar quarter |
| Benchmark Products | None | SAS estimates are benchmarked to data maintained by the Economic Census. | QSS estimates are benchmarked to SAS estimates to ensure that data collection of each company is complete. |

Composite Reports Using Economic Indicators Data

- Manufacturing, Trade, Inventories, and Sales (MTIS)
- Advance Economic Indicators Report

Manufacturing, Trade, Inventories, and Sales (MTIS)

- Estimates in the report are based on data from three surveys
 - Monthly Retail Trade Survey (MRTS)
 - Monthly Wholesale Trade Survey (MWTS)
 - Manufacturers' Shipments, Inventories, and Orders Survey (M3)
- Released approximately 43 days after close of reference month.
 - Preliminary current month estimates and final data for previous month
- Data Items
 - Total Business Inventories
 - Total Business Sales
 - Inventories/Sales Ratios

Advance Economic Indicators Report

- Estimates in the report present data on the following:
 - Advance U.S. International Trade in Goods
 - Advance Monthly Wholesale Trade Inventories
 - Advance Monthly Retail Trade Inventories

- Released approximately 25 to 29 calendar days after the end of the calendar month.

- Data Items
 - Retail and Wholesale Inventories
 - U.S. trade in goods by broad commodity groupings

FOR RELEASE AT 8:30 AM EDT, FRIDAY, AUGUST 26, 2016

MONTHLY ADVANCE ECONOMIC INDICATORS REPORT, JULY 2016
 Release Number: CB16-144

August 26, 2016 — The U.S. Census Bureau announced the following international trade, wholesale inventories, and retail inventories advance statistics for July 2016:

| |  ADVANCE INTERNATIONAL TRADE: GOODS DEFICIT |  ADVANCE WHOLESALE INVENTORIES |  ADVANCE RETAIL INVENTORIES |
|-----------|--|---|--|
| JULY 2016 | \$59.3 Billion -8.1%* | \$590.2 Billion 0.0%* | \$600.6 Billion -0.4% |
| JUNE 2016 | \$64.5 Billion | \$590.3 Billion (R) | \$602.9 Billion (R) |

Next Advance Indicator Release: September 29, 2016.
 Source: U.S. Census Bureau, U.S. International Trade in Goods; Monthly Wholesale Trade Survey; Monthly Retail Trade Survey. All data adjusted for seasonality but not for price changes. *The 50 percent confidence interval includes zero. †Statistical significance is not applicable or not measurable.

Advance International Trade in Goods
 The international trade deficit was \$59.3 billion in July, down \$5.2 billion from \$64.5 billion in June. Exports of goods for July were \$122.8 billion, \$2.9 billion more than June exports. Imports of goods for July were \$182.1 billion, \$2.4 billion less than June imports.

Advance Wholesale Inventories
 Wholesale inventories for July, adjusted for seasonal variations but not for price changes, were estimated at an end-of-month level of \$590.2 billion, virtually unchanged (± 0.2 percent)* from June 2016, and were up 0.3 percent (± 1.8 percent)* from July 2015. The May 2016 to June 2016 percentage change was revised from up 0.3 percent (± 0.2 percent) to up 0.2 percent (± 0.2 percent)*.

Advance Retail Inventories
 Retail inventories for July, adjusted for seasonal variations but not for price changes, were estimated at an end-of-month level of \$600.6 billion, a decrease of 0.4 percent (± 0.2 percent) from June 2016, and were up 4.2 percent (± 0.7 percent) from July 2015. The May 2016 to June 2016 percentage change was revised from up 0.5 percent (± 0.2 percent) to up 0.3 percent (± 0.2 percent).

Next release: September 29, 2016. View the full schedule in the Economic Briefing Room: www.census.gov/economic-indicators/.

EXPLANATORY NOTES

International Trade in Goods

Goods (Census Basis)
 Data for goods on a Census basis are compiled from the documents collected by the U.S. Customs and Border Protection and reflect the movement of goods between foreign countries and the 50 states, the

Data Inquiries
 International Trade Indicator Branch: 301-763-2311 eid.international.trade.data@census.gov
 Retail Indicator Branch: 301-763-2713 eid.retail.indicator.branch@census.gov
 Wholesale Indicator Branch: 301-763-6856 eid.wholesale.indicator.branch@census.gov

Media Inquiries
 Public Information Office
 301-763-3050
pio@census.gov

Economic Indicators without Direct Relationships to Annual Surveys and the Economic Census

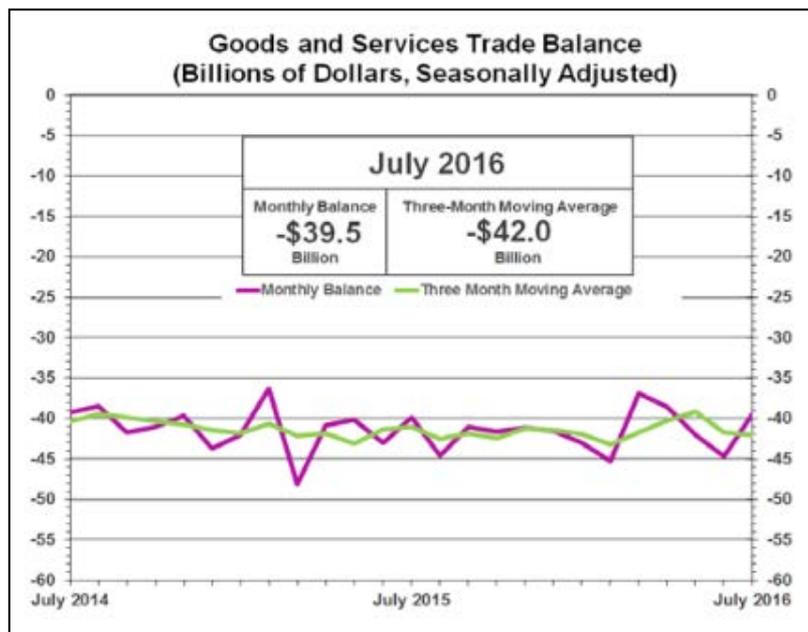
Economic Indicators without Direct Relationships to Annual Surveys and/or the Economic Census

- **International Trade**
 - U.S. International Trade in Goods and Services (FT-900)
- **Economic Indicators Related to Construction and Housing**
 - Construction Spending
 - New Residential Construction
 - New Residential Sales
 - Housing Vacancies and Homeownership
- **Quarterly Financial Report (QFR)**
 - QFR – Manufacturing, Mining, Wholesale Trade, and Select Service Industries
 - QFR – Retail Trade

U.S. International Trade in Goods and Services (FT-900)

census.gov/foreign-trade

- Joint Release with the Bureau of Economic Analysis (BEA)
- Exports, Imports, and the Balance of Trade
 - Monthly (32-36 days after the calendar month)
 - Commodity, Country, and State level detail in NAICS, End-Use, and Harmonized System
- Reporting is mandatory



Source: U.S. Census Bureau, U.S. International Trade in Goods and Services Report

Construction and Housing Indicators

census.gov/econ/construction.html

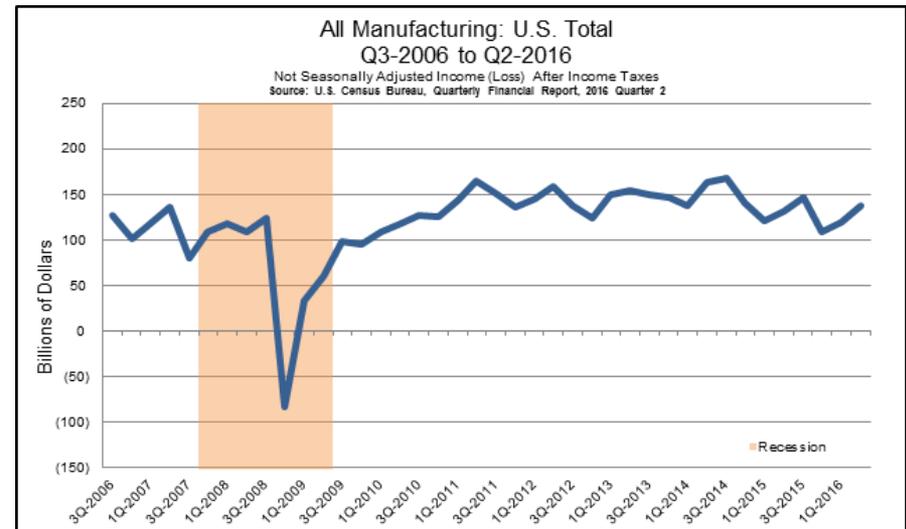
census.gov/housing/hvs

| Release | Survey / Source | Release Frequency | How Are Data Collected? | Key Statistics |
|--|--|---|--|---|
| New Residential Construction | Building Permits Survey / Survey of Construction | Monthly, 12 days after the reference month | Reports from permit-issuing jurisdictions and interviews with builders or owners | Units authorized, Units started, Units completed, Units authorized not started, Units under construction |
| New Residential Sales | Survey of Construction | Monthly, 17 days after the reference month | Interviews with builders or owners | New single-family homes sold, New single-family homes for sale, prices |
| Construction Spending | Construction Progress Reporting Surveys. Survey of Construction Consumer Expenditure Survey, and other sources | Monthly, first workday 2 months after the reference month | Reports from owners on progress and spending, data collected from additional sources | Total spending, Private nonresidential spending, Private residential spending, Federal spending, State and local spending |
| Housing Vacancies and Homeownership | Current Population Survey / Housing Vacancy Survey | Quarterly | Interview conducted with resident or knowledgeable person | Homeownership rate, Rental vacancy rate, Homeowner vacancy rate |

Quarterly Financial Report

census.gov/econ/qfr

- QFR-MMWS - Manufacturing, Mining, Wholesale Trade, & Selected Services Industries
- QFR-RT - Retail Trade
- Corporate financial conditions
 - Privately and publicly held non-financial corporations
 - 63 data points including sales, profits, assets, liabilities, stockholders' equity, and related accounts and ratios
 - Small, medium, and large corporations (manufacturing)
 - Historical data spans over 65 years
- Sample survey of 13,000 companies
 - Participant Corporations
 - Manufacturing - \$250,000 in assets
 - All Others - \$50 million in assets
- Service Sector Expansion (2010)
 - Information, professional and technical services (except legal services)



Conclusion

3 Building Blocks for Economic Indicator Data:

- The Economic Census
- The Annual Surveys
- The Monthly and Quarterly Surveys

Sampling Frame is the Business Register

Use North American Industry Classification System (NAICS)

Undergo a Revision and Benchmark processes

Conclusion

- Once a year we benchmark the monthly survey estimates to the annual survey estimates
- The sampling error of the estimates is lower in the annual surveys
- Every **5** years we benchmark the monthly and annual estimates to the Economic Census

Conclusion

Not every Economic Indicator, however, has a direct relationship to an annual survey or the Economic Census

US International Trade in Goods and Services (International Trade)

4 Economic Indicators Related to Construction and Housing

- New Residential Construction
- New Residential Sales
- Construction Spending and
- Housing Vacancies and Homeownership

2 Quarterly Financial Report Indicators

- The QFR for Manufacturing, Mining, Wholesale Trade, and Selected Service Industries, and
- The QFR for Retail Trade.

Additional Information

census.gov/econ/webinar



Data, Tools, Apps, & Training

Information on All Economic Programs



Industry Statistics Portal
Business Data from the U.S. Census Bureau

SELECT AN INDUSTRY

- 21 - Mining, quarrying, and oil and gas extraction
- 22 - Utilities
- 23 - Construction
- 31-33 - Manufacturing
- 42 - Wholesale trade
- 44-45 - Retail trade
- 48-49 - Transportation and warehousing
- 51 - Information
- 52 - Finance and insurance
- 53 - Real estate and rental and leasing
- 54 - Professional, scientific, and technical services
- 55 - Management of companies and enterprises
- 56 - Administrative and support and waste management and remediation services
- 61 - Educational services
- 62 - Health care and social assistance
- 71 - Arts, entertainment, and recreation
- 72 - Accommodation and food services
- 81 - Other services (except public administration)

2012 NAICS SEARCH

Enter a NAICS code or Title

This application provides access to the Census Bureau programs that provide economic data for a user-selected industry. To choose the industry you are interested in:

- Enter the **2012 North American Industry Classification System (NAICS) code or keyword** into the NAICS SEARCH box above, or
- Choose the industry from the **SELECT AN INDUSTRY** menu to the left.

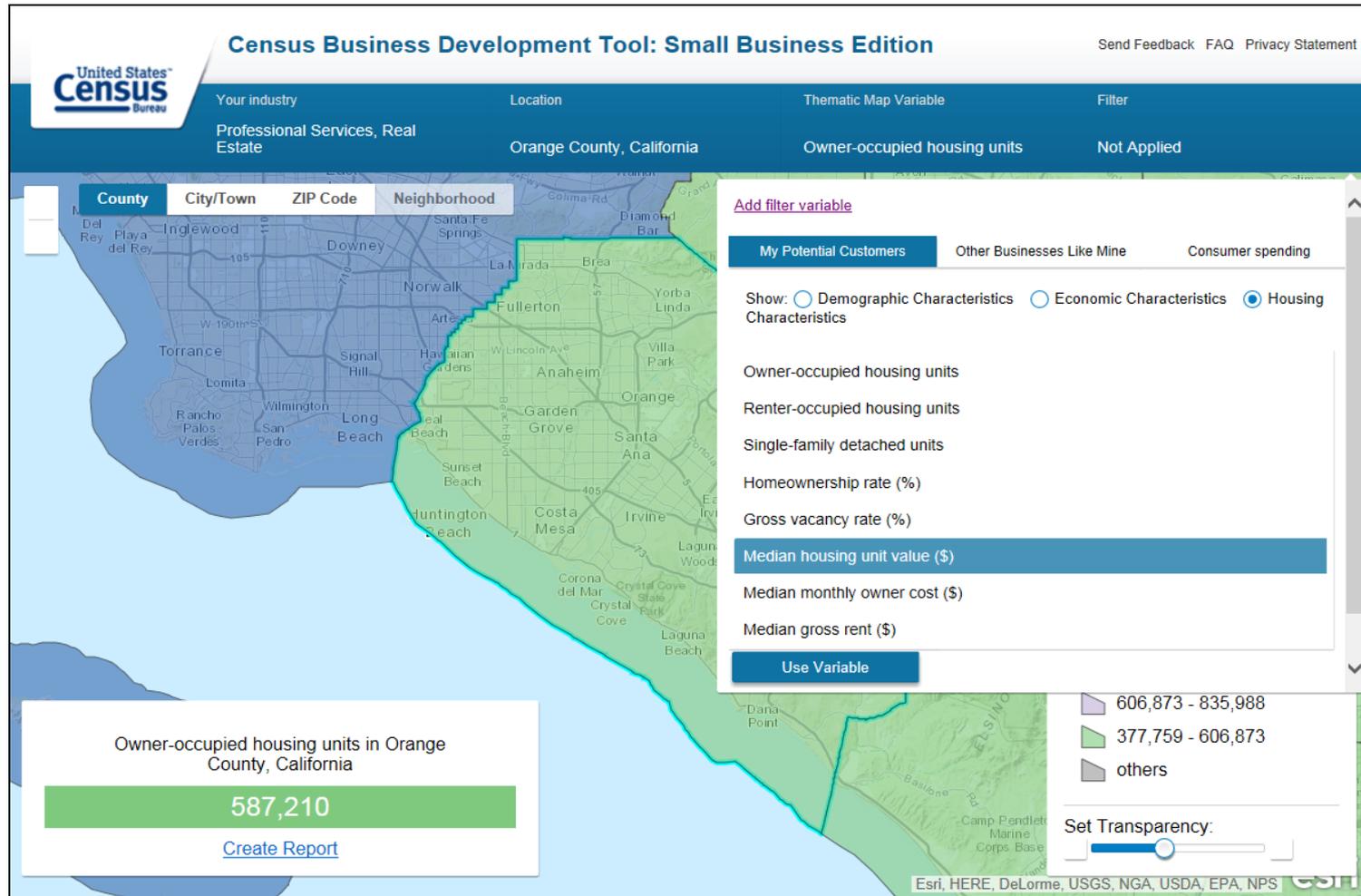
For an overview of the information presented in the ISP, see [ISP Preview](#).

For tips on how to use the ISP, see [ISP Tips and Tricks](#)

Economic Data from the Census Bureau

- Economic Indicators Briefing Room - <http://www.census.gov/economic-indicators/> Access all monthly and quarterly Economic Indicators data presented by the Census Bureau, including the data presented today.
- Business and Industry - <http://www.census.gov/econ/>
 - Access all of the annual Economic data presented by the Census Bureau, including County Business Patterns and the *Census of Governments* and *Governments Finances*
- Economic Census - business.census.gov
 - Access the latest data from the 2012 Economic Census

Census Business Builder



www.census.gov/data/data-tools/cbb

America's Economy: Mobile App

Video Tutorial: <https://www.youtube.com/watch?v=cd9cZ9sPSpl>

Indicators Available:

- Advance Monthly Retail Sales
- Advance Report Durable Goods
- Business Inventories
- Construction Spending
- Consumer Price Index
- Homeownership Rate
- International Trade
- Manufacturers' Goods
- Monthly Wholesale
- New Residential Construction
- New Residential Sales
- Nonfarm Payroll
- Personal Income
- Producer Price Index
- QFR–Manufacturing
- QFR–Retail Trade
- Quarterly Services Survey
- Real Gross Domestic Product
- Unemployment Rate



www.census.gov/mobile

Available for iPhone, iPad, and
Android devices

Please complete a short survey at
<https://questionweb.com/21106>

Visit www.census.gov/econ/webinar for a complete list of webinars.

Submit Questions Via Chat to Ask Census

Cheryl Lynne Geter
Economic Indicators Division
U.S. Census Bureau

Direct Phone: (301) 763-7123

Email: Cheryl.Lynne.Geter@census.gov

Web site: <http://www.census.gov/economic-indicators/>

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Web site: <http://www.census.gov/economic-indicators/>

Email: Cheryl.Lynne.Geter@census.gov