ECONOMIC INDICATOR
webinar
SERIES

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Passcode 8312817
U.S. Quarterly Services Report

Comprehensive Data on the Service Economy
Overview

- Introduction to the Survey
  - Origin
  - Expansion
- Under the Hood
  - Designing the QSS
  - Collection strategies
  - Producing estimates
  - Seasonal adjustment
  - Revisions & benchmarking
- Core Products
- Data Users
- Visualizing the Data (live demo)
Introduction to the Survey: Origin

- Otherwise known as the QSS
- Developed to address critical gaps in federal statistics covering the service economy
- First new U.S. federal government economic indicator in nearly 30 years
- Launched in 2004
- Produces quarterly estimates of revenue and expenses for service industries

“"The Census Bureau’s new Quarterly Services Survey will give the nation valuable data and will help ensure that our economic statistics continue to support private sector decision making and public policy.”"

-Alan Greenspan
Former Chairman, U.S. Federal Reserve Board
Introduction to the Survey: Expansion

- Initially covered 3 NAICS sectors accounting for roughly 15% of GDP (highlighted)

- Expanded to produce estimates covering 11 sectors accounting for over 50% of GDP

- March 2014 release included for the first time quarterly estimates of revenue for the Accommodation subsector (NAICS 721)

<table>
<thead>
<tr>
<th>NAICS Sector Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
</tr>
<tr>
<td>48-49</td>
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<td>51</td>
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<td>52</td>
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<td>61</td>
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<td>62</td>
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<tr>
<td>71</td>
</tr>
<tr>
<td>721</td>
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<tr>
<td>81</td>
</tr>
</tbody>
</table>
Under the Hood: Designing the QSS

- Sub-sample of Service Annual Survey (SAS)
- Sampling units are U.S businesses with paid employees
- Stratified by industry and size
- Sample reselected every 5 to 7 years
Under the Hood: Collection Strategies

- Mail initial questionnaires
- Businesses respond via the Internet, mail, fax, or phone
- Fax reminders for delinquent respondents
- Telephone follow-up for delinquent respondents and response validation
Under the Hood: Collection Strategies
Under the Hood: Collection Strategies
Under the Hood: Producing Estimates

- Account for nonresponse through modeling
- Compute detailed industry estimates using Horvitz-Thompson estimator
- Compute broader industry levels by summing detailed levels

![Diagram showing the process of producing estimates]

National estimates of total revenue
Under the Hood: Seasonal Adjustment

- Reveals meaningful non-seasonal features
- Limited number of series
- Revenue only
- Data are not adjusted for price changes
- Additional info: [www.census.gov/srd/www/x13as/](http://www.census.gov/srd/www/x13as/)

<table>
<thead>
<tr>
<th>Seasonally Adjusted Series in the Quarterly Services Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>51</td>
</tr>
<tr>
<td>512</td>
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<tr>
<td>5112</td>
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<td>5411</td>
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<td>5613</td>
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<td>5615</td>
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<td>561pt</td>
</tr>
<tr>
<td>562</td>
</tr>
<tr>
<td>622</td>
</tr>
</tbody>
</table>
Under the Hood: Revisions & Benchmarking

- Typically limited to prior quarter
  - Late receipts
  - Respondent corrections
- Reconciliation to Service Annual Survey and Economic Census
- Benchmarked every 4th quarter to incorporate the latest results of the SAS. Technical details at: [http://www2.census.gov/services/qss/2012/benchmark_text-2012.pdf](http://www2.census.gov/services/qss/2012/benchmark_text-2012.pdf)
- Incorporate results of the Economic Census
Core Products: Quarterly Services Press Release

- Released approximately 75 days after close of reference quarter
- Both seasonally-adjusted and not-adjusted data
- Basic write-ups for each of the 11 sector totals (plus the Accommodation subsector)
- National level estimates of revenue for 11 sectors, 36 subsectors, and 84 detail level industries
- Measures of error
- Available as PDF and XLS
Core Products:
Full Quarterly Services Report

- Released simultaneously with press release
- Contains all estimates found in press release plus:
  - Taxable and tax-exempt breakouts
  - Source-of-revenue detail
  - Total expenses
  - Inpatient days and discharges for hospitals
- Available in XLS format

### Table 10: Health Care and Social Assistance (NAICS 62):
Estimated Quarterly Revenues, Expenses, Inpatient Days, and Discharges for Employer Firms

<table>
<thead>
<tr>
<th>Kind of Business</th>
<th>2007 NAICS Code</th>
<th>Total Revenues</th>
<th>Percent Change</th>
<th>Year to Date</th>
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<tbody>
<tr>
<td>622 Hospitals</td>
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<tr>
<td>Total revenues</td>
<td>220,214</td>
<td>218,251</td>
<td>217,399</td>
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<tr>
<td>Expenses</td>
<td>135,061</td>
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<tr>
<td>Inpatient days</td>
<td>2,110,122</td>
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<tr>
<td>Discharges</td>
<td>1,124</td>
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<tr>
<td>622 Hospitals - taxable</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total revenues</td>
<td>20,010</td>
<td>20,010</td>
<td>20,010</td>
<td>20,010</td>
</tr>
<tr>
<td>Expenses</td>
<td>15,010</td>
<td>15,010</td>
<td>15,010</td>
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<tr>
<td>Inpatient days</td>
<td>2,000,000</td>
<td>2,000,000</td>
<td>2,000,000</td>
<td>2,000,000</td>
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<tr>
<td>Discharges</td>
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<td>1,000</td>
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<tr>
<td>622 Hospitals - tax-exempt</td>
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<tr>
<td>Total revenues</td>
<td>15,010</td>
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<td>15,010</td>
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<tr>
<td>Expenses</td>
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<td>10,000</td>
<td>10,000</td>
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<tr>
<td>Inpatient days</td>
<td>1,000,000</td>
<td>1,000,000</td>
<td>1,000,000</td>
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<td>Discharges</td>
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</tr>
</tbody>
</table>

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**United States Census Bureau**
Economics and Statistics Administration

U.S. CENSUS BUREAU
Core Products:
Time Series & Trend Charts

- Released simultaneously with press release and full report
- Contains all estimates found in full report plus:
  - All available quarters
  - Integrated graphing tools
  - Export functionality

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**Source:** Quarterly Services Survey (Definitions)

6112: Software Publishers: U.S. Total — Seasonally Adjusted Total Revenue [Millions of Dollars]

<table>
<thead>
<tr>
<th>Year</th>
<th>1st Quarter</th>
<th>2nd Quarter</th>
<th>3rd Quarter</th>
<th>4th Quarter</th>
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<td>2003</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td>27.791</td>
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<td>2005</td>
<td>28.287</td>
<td>29.168</td>
<td>29.536</td>
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<tr>
<td>2006</td>
<td>30.278</td>
<td>30.927</td>
<td>31.922</td>
<td>32.136</td>
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<td>2007</td>
<td>34.616</td>
<td>33.470</td>
<td>33.207</td>
<td>34.131</td>
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<tr>
<td>2008</td>
<td>35.907</td>
<td>36.254</td>
<td>36.103</td>
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<tr>
<td>2009</td>
<td>33.867</td>
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<td>34.495</td>
<td>36.371</td>
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<tr>
<td>2010</td>
<td>35.506</td>
<td>36.105</td>
<td>36.607</td>
<td>37.010</td>
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<tr>
<td>2011</td>
<td>37.858</td>
<td>38.564</td>
<td>39.396</td>
<td>39.450</td>
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<tr>
<td>2012</td>
<td>38.770</td>
<td>38.958</td>
<td>38.783</td>
<td>40.202</td>
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<tr>
<td>2013</td>
<td>42.797</td>
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</tr>
</tbody>
</table>

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United States Census Bureau
Economics and Statistics Administration
U.S. CENSUS BUREAU
Core Products: Datasets

- The ‘complete’ collection of data published by the Quarterly Services Survey
- Made available shortly after the press release
- Developed for power users and available as a .csv flat file.
Core Products: Access

www.census.gov/services

Annual & Quarterly Services

Are You In a Survey?
- Is this form legitimate?
- Get help with your form

NEWS
- Estimated Quarterly Revenue (2nd Quarter 2013) [PDF, 36KB]
- Revenue Grew in Most Service Sectors in 2011, Census Bureau Reports

RELATED SITES
- Business and Industry
- Economic Census
- Economic Indicators
- E-Stats
- North American Industry Classification System

Latest Quarterly Services Report
The 2nd Quarter 2013 report was released on September 4, 2013 at 10:00 a.m.
- The 3rd Quarter 2013 report will be released on December 4, 2013 at 10:00 a.m.

Quarterly Services Press Release: 2nd Quarter 2013
Seasonal Adjustment Factors
Full Quarterly Services Report: 2nd Quarter 2013

Annual Benchmark Report: Services through 2013:
- 4th Quarter 2003 - 4th Quarter 2012 (Adjusted): Excel [90KB]
- 4th Quarter 2003 - 4th Quarter 2012 (Not Adjusted): Excel [971KB]
- Benchmark Text: PDF [85KB]
- Appendix: PDF [90KB]

- Individual Tables for 2nd Quarter 2013
- Reliability of Estimates
- 2007 to 2002 NAICS Concordance [9KB]

Time Series/Trend Charts: Create your own customizable time series

U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU
Data Users

- Input to estimates of gross domestic product (GDP)
- GDP-by-industry statistics
- Estimate near-term growth in consumer expenditures
- Track business investment in service industries
- National Health Expenditure projections
- Market Research
- Academia, Consultants, Media
Visualizing the Data

NAICS 5613: Employment Services: U.S. Total
Q4-2003 to Q2-2013
Seasonally Adjusted Total Revenue

Recession
Visualizing the Data

NAICS 5413: Architectural, Engineering, and Related Services: U.S. Total
Q3-2006 to Q2-2013
Not Seasonally Adjusted Total Revenue

Recession
Visualizing the Data

Live Demo
For More Information

Services Indicators Branch

U.S. Census Bureau – Economic Statistics

Phone: 301-763-2960
Fax: 301-763-8645
Email: sssd.qss@census.gov
Web site: www.census.gov/services
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

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Services Indicators Branch

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