Online Appendix

Minding Your Ps and Qs:
Going from Micro to Macro in Measuring Prices and Quantities

by

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Figure A.1. Measuring Real and Nominal Consumer Spending: Current Architecture

<table>
<thead>
<tr>
<th>Census (nominal spending)</th>
<th>BLS (prices)</th>
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<tbody>
<tr>
<td><strong>Data collection:</strong></td>
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<tr>
<td>Retail Trade surveys (monthly and annual)</td>
<td>Telephone Point of Purchase survey (purchase location)</td>
</tr>
<tr>
<td>Economic Census (quinquennial)</td>
<td>CPI price enumeration (Probability sampling of goods within outlets)</td>
</tr>
<tr>
<td>Consumer expenditure survey (spending weights – under contract with BLS)</td>
<td>Published statistics:</td>
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<td>Consumer Price Index (monthly)</td>
</tr>
<tr>
<td>Retail Trade (monthly)</td>
<td>Bureau of Economic Analysis</td>
</tr>
</tbody>
</table>

| Published statistics: |
| Personal Consumption Expenditure: Nominal, real, and price (monthly) |
| GDP (quarterly) |

Bureau of Economic Analysis
Data collection:
Census and BLS data supplemented by multiple sources

Published statistics:
Personal Consumption Expenditure: Nominal, real, and price (monthly)
GDP (quarterly)
Figure A.2. Quarterly Growth Rates of Nominal Sales of Food: Scanner, Census Retail Sales, and BEA PCE

-6%  -4%  -2%  0%  2%  4%  6%  8%  10%


-6%  -4%  -2%  0%  2%  4%  6%  8%  10%

PCE Food and Non-alcoholic Beverages-off premises (SA)
Scanner Food (NSA)
Census MRTS Grocery Stores (NSA)
Figure A.3. Comparisons of BLS CPI and Nielsen-Scanner Based Price Indices, Quarterly Changes

A. Food

B. Non-Food
Figure A.4. Comparisons of BLS CPI and Nielsen-Consumer Panel (CP) Based Price Indices, Annual Averages of Quarterly Changes

A. Food

B. Non-Food
Figure A.5. Comparisons of BLS CPI and Nielsen-Consumer Panel (CP) Based Price Indices, Quarterly Changes

A. Food

B. Non-Food