Road Transportation of Freight Turnover Measures and Practices at the U.S. Census Bureau

21st Meeting of the Voorburg Group
John Murphy
Assistant Division Chief for Classification Activities
U.S. Census Bureau
Definition of the Service

Revenue received for transportation of goods by road

• Market provision of services
  - Employers
  - Non-employers
• Captive provision of services
  - Cost of services
  - Industry being served
## 2002 Revenue Data

<table>
<thead>
<tr>
<th>Type</th>
<th>Estabs.</th>
<th>Employment</th>
<th>Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employers</td>
<td>112,698</td>
<td>1.4 million</td>
<td>$164 billion</td>
</tr>
<tr>
<td>Enterprise</td>
<td>1,360</td>
<td>88,867</td>
<td>$0.5 billion</td>
</tr>
<tr>
<td>Non-employers</td>
<td>413,100</td>
<td>N/A</td>
<td>$29 billion</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>525,798</td>
<td>1.49 million</td>
<td><strong>$193 billion</strong></td>
</tr>
</tbody>
</table>
Industry Comparison: ISIC, NACE, NAICS United States

ISIC Rev. 4
4923 Freight Transport by Road

NACE Rev. 2
49.41 Freight Transport by Road
49.42 Removal Services

NAICS United States 2007
484110 General Freight Trucking, Local
484121 General Freight Trucking, LD, TL
484122 General Freight Trucking, LD, LTL
484210 Used Household and Office Goods Moving
484220 Specialized Freight Trucking, Local
484230 Specialized Freight Trucking, LD

U.S. Census Bureau
Census Collection Practices

- Single survey form covers multiple NAICS industries
- Industry assigned by respondent based on kind-of-business (kb) activity inquiries
- Common product list collected across many industries
- Both sections (kb and product) of the survey form are considered
- Resulting data tabulated at 2, 3, 4, 5, and 6 digit levels of NAICS
### Additional Details Collected in 2002

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>42000</td>
<td>Local motor carrier revenue</td>
</tr>
<tr>
<td>42010</td>
<td>Long-distance motor carrier revenue</td>
</tr>
<tr>
<td>42020</td>
<td>Courier and messenger services, including parcel delivery</td>
</tr>
<tr>
<td>42030</td>
<td>Contract warehousing and storage</td>
</tr>
<tr>
<td>42040</td>
<td>Public warehousing and storage</td>
</tr>
<tr>
<td>42050</td>
<td>Process, physical distribution, and logistics consulting</td>
</tr>
<tr>
<td>42060</td>
<td>Packing related to motor carrier and storage activities</td>
</tr>
<tr>
<td>42070</td>
<td>Order assembly services related to motor carrier and storage activities</td>
</tr>
<tr>
<td>42080</td>
<td>Physical processing/transforming of goods related to motor carrier activities</td>
</tr>
<tr>
<td>42090</td>
<td>Other related motor carrier and storage activities</td>
</tr>
<tr>
<td>43200</td>
<td>Collection of garbage and trash, excluding hazardous waste</td>
</tr>
<tr>
<td>43250</td>
<td>Hazardous waste collection</td>
</tr>
<tr>
<td>43650</td>
<td>Repair and maintenance, including parts installed</td>
</tr>
<tr>
<td>43750</td>
<td>Sales of other merchandise</td>
</tr>
<tr>
<td>49810</td>
<td>All other operating revenue</td>
</tr>
</tbody>
</table>
Significant Other Products

Warehousing and Storage

Provided by road freight $ 2,114,921,000 (16%)
Sector Total $13,471,830,000

Packaging services

Provided by road freight $ 1,142,888,000 (50%)
Sector Total $ 2,306,338,000
Inquiries for 2007 Products

- Moving and storage (household, office, other)
- Local transport of sold or serviced items
- Bulk liquids and gases (intermodal container, other)
- Dry bulk (intermodal container, other)
- Boxed or palletized goods, not climate controlled (TL, LTL)
- Intermodal containers, climate controlled
- Other commodities (automobiles, livestock, wastes)
- Other goods
Related Products in 2007

- Repositioning services
- Drayage
- Domestic freight arrangement services
- International freight forwarding and customs brokerage services
- Warehousing services
- Rental of transportation equipment without operators
- Van line coordination services
- Logistics and supply chain consulting services
- Other
Comparability of Price and Product Data

• Comparable structure at industry level – the 33 PPI series (by my count) published can be matched to Census data

• Comparable in 2002 at product level but for 2007?
Issues to Consider

• Homogeneity of price trends by commodity
• Price survey coverage compared to Census coverage
• Universe or frame differences
• Separate price indices for significant products not considered primary
Product Turnover Data Method

Proposal for Consideration in Future Turnover Papers

- **Direct collection of data from producing establishments**
  - One time or ad hoc sample survey of producers
  - Annual or other periodic sample survey of producers
  - Census of producers
- **Secondary source of data for producing establishments**
  - Tax or other administrative revenue records
  - Trade association data
  - Other secondary source data for revenues
Questions?

John B. Murphy
Assistant Division Chief for Classification Activities, U.S. Bureau of the Census
John.Burns.Murphy@census.gov
(301) 763-5172