This issue of *Economic Perspective* examines taxable purchase by businesses. While households pay the majority of sales and use taxes, businesses pay a large share on the goods they purchase for their own use. In this issue we will consider what California businesses buy.

**Taxable Purchases by Businesses Large, Technology-Driven**

Business purchases are hard to estimate precisely, but our research indicates that they pay close to one-third of all sales and use tax.

- U.S. businesses spent about $1.1 trillion on equipment and software in 2011, about seven percent of gross domestic product.
- Information processing accounted for 54 percent of U.S. equipment and software in 2010, over twice as much as any other major type of spending.
- Software spending accounted for 25 percent of all equipment and software spending by U.S. businesses in 2010.
- Manufacturing spent more on equipment and software than any other industry, accounting for about 20 percent of all equipment and software spending.
- Utilities spent more than any other industry on equipment and software per employee in 2010, $93,225.

**Business Share of Sales and Use Tax**

California business purchases of taxable goods are difficult, if not impossible, to accurately estimate. For example, suppose an office supply store sells a computer. The purchaser may be either an individual or a business. Board of Equalization sales and use tax reporting forms do not specify a breakout of the number of computers sold by retailers to businesses and the number sold to individuals. Consequently, we do not know proportions of business and personal purchases made from retailers who may sell products to both groups.

An approximation of sales and use tax paid by businesses is found in the Board of Equalization’s Taxable Sales in California (Sales and Use Tax) report. The reports show taxable sales for two categories: (1) Retail and Food Services and (2) All Other Outlets. Sales made by All Other Outlets are likely made to businesses. In 2010 such nonretail sales accounted for about 32 percent of all taxable sales. However, businesses may make additional purchases from retail stores, which are impossible for us to accurately estimate.

**What do Businesses Buy?**

Available data indicate that the overwhelming majority of business purchases are for structures, equipment, or software. Structures and related materials that become structural components are generally purchased indirectly through the construction industry. However, equipment and software are purchased from many different industries, including retailers. This article will focus on equipment and software because the federal government statistical agencies report more information about these items.

**Equipment and Software Spending**

The U.S. Bureau of Economic Analysis (BEA) tabulates data on equipment and software (combined as a single category) as a part of their gross domestic product data collection efforts. In 2011, businesses spent about $1.1 trillion on equipment and software, a little over seven percent of gross domestic product.

The BEA also provides data on kinds of equipment U.S. businesses purchase. The largest broad category of equipment spending reported by the BEA is information processing equipment. Such spending includes computers and related office equipment such as printers and copiers, software, communications equipment, and medical equipment.
Information Processing a Large Share

As shown in Chart 1, information processing accounted for 54 percent of all equipment and software spending in 2010, by far the largest category. The rest of business equipment and software spending was split among other equipment, industrial equipment, and transportation equipment. Other equipment includes such dissimilar items as furniture, machinery, tractors, and electrical equipment.

Components of Software Spending

BEA data also show that large portions of software are not purchased in market transactions. According to BEA data, in 2010 about 37 percent of business software was “own account” software, that is, the businesses created the software internally. As for the remaining software (which was purchased), the BEA data also show that 28 percent of business software was prepackaged and 34 percent was custom.

Which Industries Buy The Most Equipment and Software?

The U.S. Census Bureau surveys businesses annually, and provides data on equipment and software purchases by major industries. The Census Bureau reports equipment and software spending by industry using the North American Industry Classification System (NAICS). These data indicate that the top ten industries accounted for 86 percent of equipment and software spending in 2010.

Manufacturing Largest Purchasing Industry

As shown in Chart 3, manufacturing had the largest share of equipment and software spending in 2010, accounting for 20 percent of the total. The next largest industries were finance and insurance (14 percent) and information (12 percent).
Spending per Employee

Another way to view equipment and software spending is to calculate it per employee for each industry. Table 1 shows 2010 equipment and software spending per employee by industry, sorted from the highest to lowest industries.

Utilities Spend the Most per Employee

As shown in Table 1, there is a great deal of variation among industries in equipment and software spending per employee. In 2010 equipment and software spending averaged $5,968 per employee. Utilities spent the most per employee, $93,225. Accommodations and food services were at the other end of the spectrum, averaging equipment and software spending of $914 per employee.

Many Industries Well Above Average per Employee

In addition to utilities, many other industries spent well above the average per employee on equipment and software. For example, the information industry spent $27,895 per employee, over four times the average for all industries. The real estate and rental and leasing industry spent $25,235 per employee. The finance and insurance industry spent $11,338 per employee.

<table>
<thead>
<tr>
<th>Industry</th>
<th>Average Spending per Employee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Utilities</td>
<td>$93,225</td>
</tr>
<tr>
<td>Mining</td>
<td>$42,945</td>
</tr>
<tr>
<td>Information</td>
<td>$27,895</td>
</tr>
<tr>
<td>Real estate and rental and leasing</td>
<td>$25,235</td>
</tr>
<tr>
<td>Finance and insurance</td>
<td>$11,338</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>$11,108</td>
</tr>
<tr>
<td>Transportation and warehousing</td>
<td>$8,524</td>
</tr>
<tr>
<td><strong>Average for all industries</strong></td>
<td><strong>$5,968</strong></td>
</tr>
<tr>
<td>Wholesale trade</td>
<td>$4,457</td>
</tr>
<tr>
<td>Professional, scientific, and technical services</td>
<td>$3,162</td>
</tr>
<tr>
<td>Construction</td>
<td>$2,755</td>
</tr>
<tr>
<td>Retail trade</td>
<td>$2,573</td>
</tr>
<tr>
<td>Arts, entertainment, and recreation</td>
<td>$2,310</td>
</tr>
<tr>
<td>Health care and social assistance</td>
<td>$2,171</td>
</tr>
<tr>
<td>Educational services</td>
<td>$1,808</td>
</tr>
<tr>
<td>Administrative and support and waste management</td>
<td>$1,807</td>
</tr>
<tr>
<td>Management of companies and enterprises</td>
<td>$1,606</td>
</tr>
<tr>
<td>Other services (except public administration)</td>
<td>$1,370</td>
</tr>
<tr>
<td>Accommodation and food services</td>
<td>$914</td>
</tr>
</tbody>
</table>

Contact Us

Please contact us if you would like to be added to our mailing list, or have questions or comments.

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www.boe.ca.gov/news/epcont.htm

Taxpayers’ Rights Advocate: 888-324-2798

To contact your Board Member, see  
www.boe.ca.gov/members/board.htm

Online Resources

For more information about topics covered in this publication and previous issues, please visit any of the following websites:

California Department of Finance  
www.dof.ca.gov

California Employment Development Department (EDD),  
Labor Market Conditions in California  
www.labormarketinfo.edd.ca.gov

Federal Reserve Bank of Philadelphia, Survey of  
Professional Forecasters  
www.phil.frb.org/econ/spf/index.html

National Association for Business Economists  
www.nabe.com

U.S. Bureau of Economic Analysis  
www.bea.gov

U.S. Bureau of Labor Statistics  
www.bls.gov/cpi

U.S. Census Bureau  
www.census.gov