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#### SUMMARY OF FINDINGS

During 2002, manufacturers' shipments of wiring devices and supplies totaled \$9.1 billion, a decrease of 6 percent from \$9.7 billion in 2001. Current-carrying wiring devices accounted for \$4.9 billion, a decrease of 6 percent from

\$5.2 billion in 2001, while the noncurrent-carrying wiring devices accounted for \$4.2 billion, a decrease of 7 percent under 2001. The 2002 shipments included lampholders, valued at \$127 million, down 18 percent from \$155 million in 2001; convenience and power outlets, valued at \$370 million, remained the same as in 2001; switches, valued at \$1.6 billion, down 2 percent from \$1.6 billion in 2001; metal contacts valued at \$175 million, a decrease of 5 percent from \$184 million in 2001; wire connectors, valued at \$1.2 billion, decreased 14 percent from \$1.4 billion in 2001; other current-carrying wiring devices valued at \$1.4 billion, down 2 percent from \$1.5 billion in 2001; pole line and transmission hardware, valued at \$661 million, down from \$778 million in 2001; electrical conduit and conduit fittings, valued at \$1.9 billion, down from \$2.1 billion in 2001; and other non-current carrying devices, valued at \$1.6 billion, down 4 percent from \$1.7 billion in 2001.

For general CIR information, explanation of general terms and historical note, see the appendix.

Address inquiries concerning these data to Investment Goods Industries Branch, Manufacturing and Construction Division (MCD), Washington, DC 20233-6900, or call Vance Davis, 301-763-4790.

For mail or fax copies of this publication, please contact the Information Services Center, MCD, Washington, DC 20233-6900, or call 301-763-4673.

**U S C E N S U S B U R E A U**

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Economics and Statistics Administration  
U.S. CENSUS BUREAU



Table 1. Value of Shipments of Wiring Devices and Supplies by Class of Product: 1993 to 2002  
 [Millions of dollars]

| Product code | Product description   | 2002  | 2001  | 2000  | 1999  | 1998  | 1997  | 1996  | 1995  | 1994  | 1993  |
|--------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 335931       | Current-carrying wiring devices.....  | 4,899 | 5,197 | 5,585 | 5,396 | 5,448 | 5,300 | 4,836 | 4,772 | 4,422 | 4,087 |
| 3359311      | Lampholders.....  | 127   | 155   | 156   | 159   | 194   | 194   | 193   | 201   | 211   | 210   |
| 3359313      | Convenience and power outlets,<br>both general- and special-purpose,<br>excluding pin and sleeve type.....  | 370   | 370   | 409   | 415   | 461   | 436   | 375   | 364   | 341   | 314   |
| 3359315      | Switches for electrical circuitry.....  | 1,600 | 1,635 | 1,869 | 1,752 | 1,840 | 1,775 | 1,612 | 1,623 | 1,526 | 1,474 |
| 3359317      | Metal contacts precious and other.....  | 175   | 184   | 246   | 236   | 226   | 214   | 239   | 259   | 245   | 208   |
| 3359319      | Wire connectors for electrical<br>circuitry.....  | 1,210 | 1,403 | 1,546 | 1,517 | 1,450 | 1,462 | 1,235 | 1,194 | 1,082 | 976   |
| 335931A      | Other current-carrying wiring<br>devices, including attachment<br>plug caps, connector bodies,<br>lightning arrestors, and pin and<br>sleeve convenience power outlets..... | 1,417 | 1,450 | 1,359 | 1,317 | 1,277 | 1,219 | 1,182 | 1,130 | 1,018 | 904   |
| 335932       | Noncurrent-carrying wiring devices.....   | 4,218 | 4,552 | 5,004 | 4,660 | 4,463 | 4,424 | 3,938 | 3,915 | 3,622 | 3,251 |
| 3359321      | Pole line and transmission hardware.....  | 661   | 778   | 939   | 958   | 852   | 856   | 704   | 673   | 641   | 618   |
| 3359323      | Electrical conduit and conduit<br>fittings.....   | 1,932 | 2,079 | 2,308 | 2,306 | 2,126 | 2,184 | 1,960 | 2,050 | 1,866 | 1,634 |
| 3359325      | Other noncurrent-carrying wiring<br>devices and supplies.....   | 1,625 | 1,695 | 1,757 | 1,396 | 1,485 | 1,384 | 1,274 | 1,192 | 1,116 | 999   |

Table 2. Quantity and Value of Shipments of Wiring Devices and Supplies: 2002 and 2001  
 [Quantity in thousands of units. Value in thousands of dollars]

| Product code | Product description  | No. of cos. | 2002       |           |             | 2001  |           |  |
|--------------|--|-------------|------------|-----------|-------------|-------|-----------|--|
|              |  |             | Quantity   | Value     | Quantity    | Value |           |  |
|              | Wiring devices and supplies.....   | (X)         | (X)        | 9,116,380 |             | (X)   | 9,749,007 |  |
| 335931       | Current-carrying wiring devices.....   | (X)         | (X)        | 4,898,874 |             | (X)   | 5,197,286 |  |
| 3359311      | Lampholders.....   | 22          | 303,710    | 127,251   | 349,491     | a/r/  | 155,564   |  |
|              | Incandescent:  |             |            |           |             |       |           |  |
| 3359311102   | Push through and pull types, all materials, threaded, medium base only excluding outlet box type and socket interiors 1/.....  | 3           | (D)        | (D)       | (D)         |       | (D)       |  |
| 3359311104   | Outlet box, threaded, medium base only, pull and keyless types.....  | 3           | a/ 14,526  | 15,442    | 14,085      |       | 15,128    |  |
| 3359311106   | Weatherproof, threaded, medium base only.....  | 3           | 2,322      | 2,598     | 2,432       |       | 2,748     |  |
| 3359311108   | Candelabra base, all types.....  | 7           | 7,072      | 3,792     | 6,785       |       | 3,742     |  |
| 3359311111   | Sign and fixture, medium base only.....  | 4           | a/ 6,015   | 4,616     | b/ 6,105    |       | 5,313     |  |
| 3359311112   | All other incandescent, medium, admedium, intermediate, lumiline, miniature, including but not limited to pin-type, cleat, hasp, and socket interiors sold separately, all bases 1/..... | 10          | 71,134     | 59,592    | a/ 95,582   | r/    | 82,698    |  |
|              | Fluorescent:   |             |            |           |             |       |           |  |
| 3359311114   | Bi-pin.....  | 5           | 166,273    | 21,920    | 185,035     |       | 24,839    |  |
| 3359311116   | Slimline 2/.....   | 4           | (D)        | (D)       | (D)         |       | (D)       |  |
| 3359311118   | Recessed double contact 2/.....  | 5           | (D)        | (D)       | (D)         |       | (D)       |  |
| 3359311121   | All other fluorescent, including but not limited to circlene, panelescent and starter holders 2/.....  | 5           | 34,454     | 16,772    | 37,100      |       | 17,997    |  |
| 3359311122   | All other lampholders, including cold cathode neon and bases for quartz lamps.....   | 3           | c/ 1,914   | c/ 2,519  | c/r/ 2,367  | c/r/  | 3,099     |  |
| 3359313      | Convenience and power outlets, both general- and special-purpose, excluding pin and sleeve type.....   | 10          | a/ 227,554 | 369,914   | 220,546     |       | 369,671   |  |
| 3359313102   | Receptacles with GFIC (all types, all amperages) 3/.....   | 2           | (D)        | (D)       | (D)         |       | (D)       |  |
| 3359313104   | Receptacles without GFIC: 2-pole, 2-wire 2-pole, 2-wire (flush, all types) 3/.....   | 4           | (D)        | (D)       | (D)         |       | (D)       |  |
| 3359313106   | 2-pole, 3-wire and up (flush): Locking, 15 amperes and under 4/.....   | 3           | (D)        | (D)       | (D)         |       | (D)       |  |
| 3359313108   | Locking, 20 amperes and over 4/.....   | 4           | a/ 82,118  | 66,247    | 83,214      |       | 64,862    |  |
| 3359313111   | Nonlocking, 15 amperes and under.....  | 5           | b/ 75,197  | 57,255    | a/ 67,180   |       | 54,641    |  |
| 3359313112   | Nonlocking, 20 amperes and over.....   | 6           | a/ 35,939  | 60,035    | 33,467      |       | 57,370    |  |
| 3359313114   | Appliance and special applications all amperages, all types.....   | 4           | 4,825      | 2,519     | b/ 7,480    | b/    | 3,970     |  |
| 3359313116   | All other types, including dust and explosion proof, surface and 2-pole/ 2-wire 3/.....  | 5           | a/ 29,475  | 183,858   | b/ 29,205   |       | 188,828   |  |
| 3359315      | Switches for electrical circuitry.....   | 68          | a/ 782,275 | 1,600,061 | a/ 819,022  |       | 1,634,506 |  |
|              | General use flush-mounted switches, designed for mounting in switch or outlet boxes (except dimmers):  |             |            |           |             |       |           |  |
|              | Ac (except mercury):   |             |            |           |             |       |           |  |
| 3359315102   | Single pole, 15 amperes and under.....   | 5           | a/ 90,172  | 70,469    | a/ 93,661   |       | 75,446    |  |
| 3359315104   | Single pole, over 15 amperes.....  | 4           | a/ 11,067  | 25,385    | 10,773      |       | 26,065    |  |
| 3359315106   | Other than single pole, including but not limited to double pole 3-way, 4-way.....   | 5           | a/ 43,870  | 78,700    | a/ 39,168   |       | 70,920    |  |
| 3359315108   | Ac-dc (except mercury) 5/.....   | 2           | (D)        | (D)       | (D)         |       | (D)       |  |
| 3359315111   | All other general use switches, including surface mounted, mercury, etc. 5/.....   | 8           | c/ 69,793  | c/ 35,159 | c/r/ 89,805 | r/    | 46,765    |  |
|              | Special-purpose switches:  |             |            |           |             |       |           |  |
| 3359315312   | Appliance and fixture, including pendant and canopy types and variable speed controls.....   | 13          | b/ 54,544  | b/ 99,695 | r/ 53,598   |       | 109,196   |  |

Table 2. Quantity and Value of Shipments of Wiring Devices and Supplies: 2002 and 2001  
 [Quantity in thousands of units. Value in thousands of dollars]

| Product code | Product description  | No. of cos. | 2002       |           | 2001         |             |
|--------------|--|-------------|------------|-----------|--------------|-------------|
|              |  |             | Quantity   | Value     | Quantity     | Value       |
| 3359315314   | Precision (1/8-inch gap or less) snap-acting switches, excluding limit switches.....   | 8           | 81,283     | 63,058    | 73,582       | b/r/ 57,460 |
| 3359315616   | Aircraft types 6/.....   | 9           | (D)        | (D)       | (D)          | (D)         |
| 3359315218   | Automotive types.....  | 25          | 303,178    | 701,472   | a/r/ 315,585 | 693,744     |
| 3359315321   | All other special-purpose switches, including foot actuated, light sensing and signal actuated 6/.....   | 22          | b/ 116,628 | 317,424   | b/r/ 131,999 | r/ 359,096  |
|              | Dimmers:   |             |            |           |              |             |
|              | Incandescent:  |             |            |           |              |             |
| 3359315422   | Infinitely variable, 600 watts or less.....  | 6           | a/ 8,815   | 108,082   | 8,152        | 103,771     |
| 3359315424   | Infinitely variable, over 600 watts.....   | 6           | c/ 643     | a/ 27,099 | 647          | 26,564      |
| 3359315426   | All other types, including but not limited to portable lamps and high-low switches.....  | 5           | 2,282      | 73,518    | r/ 2,052     | 65,479      |
| 3359317      | Metal contacts, precious and other.....  | 17          | (S)        | 174,586   | (S)          | 184,283     |
| 3359319      | Wire connectors, including connectors used under national electrical application.....  | 75          | 34,073,800 | 1,210,356 | 35,871,896   | 1,403,353   |
| 3359319102   | Pressure connectors, where pressure is applied by screw, cone, or mechanical device.....   | 23          | a/ 537,842 | 153,632   | a/ 522,668   | r/ 162,406  |
| 3359319104   | Compression connectors, uninsulated terminals and splicers, tool installed.....  | 27          | 3,659,737  | 186,011   | 3,825,555    | 198,539     |
| 3359319106   | Preinsulated terminals and splicers, tool installed.....   | 17          | 803039     | 108,805   | r/ 1,046,169 | 140,807     |
| 3359319108   | Banded or strip terminals and splicers, machine installed.....   | 12          | 1,791,783  | 51,048    | a/ 1,778,191 | 49,066      |
| 3359319111   | Pigtail connectors, including wire nuts 7/.....  | 13          | (D)        | (D)       | (D)          | (D)         |
| 3359319112   | Blade or pin type, separable terminations and splicers 7/.....   | 12          | (D)        | (D)       | (D)          | (D)         |
| 3359319114   | Other wire connectors, n.e.c., including solder type 7/.....   | 36          | 28,084,438 | 710,860   | 28,699,313   | r/ 852,535  |
| 335931A      | Other current-carrying wiring devices, including attachment plug caps, connector bodies, lightening arrestors, pin and sleeve convenience power outlets, etc. .... | 109         | (X)        | 1,416,706 | (X)          | 1,449,909   |
|              | Attachment plug caps and flanged outlets, including motor bases, all types; including fused, fuseless, switch, and switchless:                                     |             |            |           |              |             |
| 335931A102   | 2-pole, 2-wire, all types, general use locking and nonlocking, all amperages....   | 7           | a/ 16,843  | 9,160     | a/ 29,889    | 15,859      |
|              | 2-pole, 3-wire and up:   |             |            |           |              |             |
| 335931A104   | Locking, all amperes.....  | 6           | a/ 850     | 3,590     | 701          | 3,762       |
| 335931A106   | Locking, 20 amperes and over.....  | 6           | c/ 3,407   | a/ 19,208 | 2,100        | 16,177      |
| 335931A107   | Nonlocking, all amperes 8/.....  | 12          | (D)        | (D)       | (D)          | (D)         |
| 335931A112   | All other types (except pin and sleeve), including dust and explosion proof, appliance and other special application 8/.....                                       | 5           | c/ 14,724  | 56,114    | b/ 13,952    | 60,910      |
|              | Connector bodies and flanged outlets, all types:   |             |            |           |              |             |
| 335931A114   | 2-pole, 2-wire, all types, all amperages.....  | 4           | b/ 921     | 1,341     | b/ 1,111     | 1,577       |
|              | 2-pole, 3-wire and up:   |             |            |           |              |             |
| 335931A116   | Locking, 15 amperes and under.....   | 7           | a/ 3,204   | 26,700    | 2,827        | 23,757      |
| 335931A118   | Locking, 20 amperes and over.....  | 8           | 1,027      | 14,574    | 975          | 12,825      |
| 335931A119   | Nonlocking, all amperes .....  | 9           | a/ 5,558   | 20,876    | a/ 5,681     | 22,786      |
| 335931A124   | All other types, except pin and sleeve, including dust and explosion proof, appliance, and other special application .....   | 8           | c/ 37,802  | c/ 51,337 | 43,863       | 58,558      |
|              | Pin and sleeve convenience and power outlets, attachment plug caps and connector bodies:   |             |            |           |              |             |

Table 2. Quantity and Value of Shipments of Wiring Devices and Supplies: 2002 and 2001  
 [Quantity in thousands of units. Value in thousands of dollars]

| Product code | Product description   | No. of cos. | 2002     |           | 2001     |           |
|--------------|---|-------------|----------|-----------|----------|-----------|
|              |   |             | Quantity | Value     | Quantity | Value     |
|              | Pin and sleeve, general-purpose (120 volts and over, 20 amperes and over):  |             |          |           |          |           |
| 335931A126   | Convenience and power outlets 9/.....   | 7           | (D)      | (D)       | (D)      | (D)       |
| 335931A128   | Attachment plug caps.....   | 6           | 80       | 9,093     | 99       | 11,833    |
| 335931A131   | Connector bodies.....   | 6           | 477      | 24,199    | 472      | 23,784    |
| 335931A132   | All other pin and sleeve, including dust and explosion proof 20 amperers types, etc. 9/.....  | 4           | 24,879   | 81,734    | 12,991   | 62,982    |
| 335931A134   | Fluorescent starters.....   | 4 c/        | 3,546 c/ | 846 c/    | 3,480 c/ | 811       |
| 335931A136   | Terminal blocks.....  | 20          | 462,819  | 385,547   | 446,688  | 369,980   |
| 335931A138   | Lightning arrestors for alternating current power transmission systems and substations; U.S. designation, station and intermediate, I.E.C. designation 10ka and 5ka Series A.....         | 4           | (X)      | 31,943    | (X) r/   | 37,223    |
| 335931A141   | Lightning arrestors for alternating current power distribution systems and substations; U.S. designation distribution and secondary I.E.C. designation 5ka Series B, 2.5ka and 1.5ka..... | 6           | (X)      | 112,587   | (X) r/   | 121,037   |
| 335931A144   | Surge suppressors, designed for equipment operating on 110/120 volt circuits.....   | 16          | (X) b/   | 101,216   | (X) r/   | 130,695   |
| 335931A146   | Electric harnesses and assemblies, excluding engine harnesses (from purchased wire).....  | 19          | (X)      | 155,207   | (X)      | 195,285   |
| 335931A148   | All other wiring devices with integral ground fault circuit interrupting capabilities, excluding circuit breakers 10/.....  | 5           | (D)      | (D)       | (D)      | (D)       |
| 335931A151   | Miscellaneous, including combination devices, adapters, current taps, surface extensions, rosettes, choke coils, rail bonds, and overhead trolley line materials 10/.....                 | 37          | (X)      | 311,434   | (X)      | 280,068   |
| 335932       | Noncurrent-carrying wiring devices.....   | (X)         | (X)      | 4,217,506 | (X)      | 4,551,721 |
| 3359321      | Pole and transmission line hardware.....  | 35          | (X)      | 660,604   | (X)      | 778,051   |
| 3359321102   | Pole and transmission line construction materials, also known as overhead and underground line hardware for electric transmission, distribution, and communication lines.....             | 27          | (X)      | 495,530   | (X)      | 604,578   |
| 3359321104   | Pole and transmission line anchors.....   | 5           | (X)      | 14,533    | (X)      | 16,716    |
| 3359321106   | All other pole and transmission line hardware.....  | 11          | (X)      | 150,541   | (X)      | 156,757   |
| 3359323      | Electrical conduit and conduit fittings.....  | 66          | (X)      | 1,932,071 | (X)      | 2,078,521 |
| 3359323101   | Rigid metal conduit, excluding couplings, nipples, bends, and elbows.....   | 9           | 239,194  | 231,296   | 247,679  | 236,579   |
| 3359323106   | Nonmetallic conduit (1,000 lbs).....  | 13          | 708,709  | 291,271   | 749,400  | 288,029   |
| 3359323108   | Electrical metallic (short tons).....   | 8           | 465,047  | 416,188   | 480,718  | 410,625   |
| 3359323111   | Flexible steel and aluminum conduit (1,000 feet).....   | 6 a/        | 194,938  | 67,118    | 217,257  | 70,136    |
| 3359323112   | Flexible nonmetallic conduit (1,000 pounds).....  | 8           | 205,415  | 83,891    | 212,956  | 90,528    |
| 3359323114   | Raceways and wire ways, including fittings, metal.....  | 11          | (X)      | 118,619   | (X)      | 141,499   |
| 3359323116   | Ventilated cable tray and accessories.....  | 6           | (X) b/   | 54,980    | (X)      | 63,643    |
| 3359323118   | Cast conduit bodies, covers, and gaskets.....   | 6           | (X)      | 52,075    | (X)      | 58,092    |
|              | Rigid conduit fittings, including couplings, nipples, bends, and elbows:  |             |          |           |          |           |
| 3359323221   | Couplings, connectors, and unions.....  | 16          | (X) b/   | 90,404    | (X) a/r/ | 84,603    |
| 3359323222   | Locknuts and bushings.....  | 7           | (X)      | 22,751    | (X)      | 22,354    |

Table 2. Quantity and Value of Shipments of Wiring Devices and Supplies: 2002 and 2001  
 [Quantity in thousands of units. Value in thousands of dollars]

| Product code | Product description  | No. of cos. | 2002     |           | 2001       |           |
|--------------|--|-------------|----------|-----------|------------|-----------|
|              |  |             | Quantity | Value     | Quantity   | Value     |
| 3359323224   | All other rigid conduit fittings.....  | 7           | (X)      | 47,553    | (X)        | r/ 76,581 |
| 3359323226   | Nonmetallic conduit fittings.....  | 10          | (X)      | 133,353   | (X)        | 144,005   |
|              | EMT fittings (couplings and connectors):                                       |             |          |           |            |           |
| 3359323228   | Gland type.....  | 5           | (X)      | 18,840    | (X)        | 24,455    |
| 3359323231   | Set-screw type.....  | 5           | (X)      | 21,657    | (X)        | 27,591    |
| 3359323232   | All others.....  | 7           | (X)      | 8,711     | (X)        | 9,698     |
| 3359323234   | Service entrance caps, ells, and connectors.....                               | 7           | (X)      | 6,952     | (X)        | 9,850     |
|              | Cable, cord, and flexible conduit fittings:                                    |             |          |           |            |           |
| 3359323236   | Armored cable, metallic sheathed cable, and flexible conduit fittings.....     | 13          | (X) a/   | 137,054   | (X) b/r/   | 182,282   |
| 3359323238   | Liquid-tight flexible conduit fittings.....                                    | 11          | (X)      | 77,049    | (X) a/r/   | 83,180    |
| 3359323241   | Nonmetallic sheathed cable and cord fittings.....                              | 8           | (X)      | 12,638    | (X)        | 14,023    |
| 3359323242   | Other electric conduit fittings.....   | 12          | (X)      | 39,671    | (X)        | 40,768    |
| 3359325      | Other noncurrent-carrying wiring devices and supplies.....                     | 69          | (X) a/   | 1,624,831 | (X) r/     | 1,695,149 |
|              | Stamped metal boxes, covers, and accessories, including stamped conduit boxes: |             |          |           |            |           |
| 3359325102   | Switch and receptacle boxes.....   | 11          | (X)      | 405,622   | (X)        | 422,356   |
| 3359325204   | Outlet boxes.....  | 6           | (X)      | 136,852   | (X)        | 136,124   |
| 3359325206   | Covers.....  | 8           | (X)      | 38,067    | (X)        | 39,192    |
| 3359325208   | Supports, bar hangers, and other accessories.....                              | 12          | (X)      | 60,316    | (X)        | 62,235    |
|              | Cast metal boxes, covers, gaskets, and accessories:                            |             |          |           |            |           |
| 3359325311   | FS and FD switch and receptacle type....                                       | 8           | (X)      | 15,285    | (X)        | 15,707    |
| 3359325312   | Outlet type.....   | 6           | (X)      | 42,449    | (X)        | 47,285    |
| 3359325314   | Junction type.....   | 13          | (X) c/   | 130,562   | (X)        | 139,960   |
|              | Switch, outlet, FM/TV, and telephone wall plates:                              |             |          |           |            |           |
| 3359325316   | Metallic.....  | 8           |          | 49,969    | 50,241     | 28,992    |
| 3359325318   | Nonmetallic.....   | 9           | a/       | 449,101   | a/ 442,160 | 100,446   |
| 3359325321   | Plastic boxes and covers.....  | 16          | (X)      | 268,024   | (X) r/     | 257,374   |
| 3359325322   | Floor boxes and covers.....  | 6           | (X)      | 38,213    | (X)        | 42,254    |
| 3359325324   | Other noncurrent-carrying wiring devices and supplies.....                     | 32          | (X) b/   | 360,813   | (X) r/     | 403,224   |

D Withheld to avoid disclosing data for individual companies. n.e.c. Not elsewhere classified. r/Revised by 5 percent or more from previously published data. S Does not meet publication standards. X Not applicable.

- 1/Product code 3359311102 is combined with product code 3359311112 to avoid disclosing data for individual companies.
- 2/Product codes 3359311116 and 3359311118 are combined with product code 3359311116 to avoid disclosing data for individual companies.
- 3/Product codes 3359313102 and 3359313104 are combined with product code 3359313116 to avoid disclosing data for individual companies.
- 4/Product code 3359313106 is combined with product code 3359313108 to avoid disclosing data for individual companies.
- 5/Product code 3359315108 is combined with product code 3359315111 to avoid disclosing data for individual companies.
- 6/Product code 3359315616 is combined with product code 3359315321 to avoid disclosing data for individual companies.
- 7/Product codes 3359319111 and 3359319012 are combined with product code 3359319114 to avoid disclosing data for individual companies.
- 8/Product code 335931A107 is combined with product code 335931A112 to avoid disclosing data for individual companies.
- 9/Product code 335931A126 is combined with product code 335931A132 to avoid disclosing data for individual companies.
- 10/Product code 335931A148 is combined with product code 335931A151 to avoid disclosing data for individual companies.

Note: Percent of estimation of each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 percent of this item is estimated. c/Over 50 percent of this item is estimated.

**Table 3. Value of Shipments, Exports, and Imports of Selected Wiring Devices: 2002 and 2001**  
**[Millions of dollars]**

| <b>Product description</b> | <b>Manufacturers' shipments<br/>f.o.b. plant 1/</b> | <b>Exports of domestic<br/>merchandise<br/>at port 1/2/</b> | <b>Imports for<br/>consumption 1/3/</b> |
|----------------------------|---|---|---|
| <b>2002</b>                |   |   |   |
| Lampholders.....           | 127.2   | 33.7  | 63.8                                    |
| Metal contacts.....        | 174.6   | 142.6   | 72.2                                    |
| <b>2001</b>                |   |   |   |
| Lampholders.....           | 155.6   | 37.0  | 64.1                                    |
| Metal contacts.....        | 184.3   | 132.8   | 83.0                                    |

1/For comparison of the North American Industry Classification System (NAICS)-based product codes with Schedule B export codes and HTSUSA import codes, see Table 4.

2/Source: Census Bureau report EM 545, U.S. Exports.

3/Source: Census Bureau report IM 145, U.S. Imports for Consumption.

**Table 4. Comparison of the North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes and HTSUSA Import Codes: 2002**

| <b>Product code</b>  | <b>Production description</b>     | <b>Export code 1/</b>  | <b>Import code 2/</b>   |
|--|-----------------------------------|--|---|
| 3359311  | Lampholders.....                  | 8536.61.0000   | 8536.61.0000  |
| 3359317  | Metal contacts.....               | 8538.90.7040   | 8538.90.8040  |
| 3359315102,<br>104, 106,<br>108, 111,<br>218, 312,<br>314, 321,<br>616 | Switches, other than dimmers..... | 8535.30.0040<br>8536.50.9065   | 8535.30.0040<br>8536.50.9025<br>8536.50.9035<br>8536.50.9050<br>8536.50.9055<br>*8536.50.9065 |
| 3359315422,<br>424,426   | Dimmer switches.....              | *8533.39.0040<br>8536.50.9040  | *8533.39.0040   |
| 3359319  | Wire connectors.....              | 8536.69.5050   | *8536.69.8000   |
| 3359323  | Conduit fittings.....             | *8547.20.0000<br>8547.90.0010<br>*8547.90.0020<br>*8547.90.0030<br>*8547.90.0040 | 8547.20.0000<br>8547.90.0010<br>*8547.90.0020<br>*8547.90.0030<br>*8547.90.0040               |

\* This code is partially correlated with the products described.

1/Source: Harmonized System-Based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported for the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (2002).



# Appendix.

## General CIR Survey Information, Explanation of General Terms and Historical Note

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### GENERAL

The CIR program has been providing monthly, quarterly, and annual measures of industrial activity for many years. Since 1904, with its cotton and fats and oils surveys, the CIR program has formed an essential part of an integrated statistical system involving the quinquennial economic census, manufacturing sector, and the annual survey of manufactures. The CIR surveys, however, provide current statistics at a more detailed product level than either of the other two statistical programs.

The primary objective of the CIR program is to produce timely, accurate data on production and shipments of selected products. The data are used to satisfy economic policy needs and for market analysis, forecasting, and decision making in the private sector. The product-level data generated by these surveys are used extensively by individual firms, trade associations, and market analysts in planning or recommending marketing and legislative strategies, particularly if their industry is significantly affected by foreign trade. Although production and shipments information are the two most common data items collected, the CIR program collects other measures also such as inventories, orders, and consumption. These surveys measure manufacturing activity in important commodity areas such as textiles and apparel, chemicals, primary metals, computer and electronic components, industrial equipment, aerospace equipment, and consumer goods.

The CIR program uses a unified data collection, processing, and publication system. The U.S. Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broader-based annual survey of manufactures and the economic census, manufacturing sector. The manufacturing sector provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is too large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. The CIR program includes a group of mandatory and voluntary surveys. Typically the monthly and quarterly surveys are conducted on a voluntary basis. Those companies that choose not to respond to the voluntary surveys are required to submit a mandatory annual counterpart corresponding to the more frequent survey.

### NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS), 1997

The adoption of the North American Industry Classification System (NAICS) in the 1997 Economic Census has had a major impact on the comparability of current and historic data. Approximately half of the industries in the manufacturing sector of NAICS do not have comparable industries in the Standard Industrial Classification (SIC) system that was used in the past.

While most of the change affecting the manufacturing sector was change within the sector, some industries left manufacturing and others came into manufacturing. Prominent among those that left manufacturing are logging and portions of publishing. Prominent among the industries that came into the manufacturing sector are bakeries, candy stores where candy is made on the premises, custom tailors, makers of custom draperies, and tire retreading. The net effect of the classification changes are such that if the 1997 value of shipments data for all manufacturers were tabulated on an SIC basis, it would be approximately 3 percent higher.

Listed below are the NAICS sectors:

- 21 Mining
- 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 Foodservices
- 81 Other Services (except Public Administration)

(Not listed above are the Agriculture, Forestry, Fishing, and Hunting sector (NAICS 11), partially covered by the census of agriculture conducted by the U.S. Department of Agriculture, and the Public Administration sector (NAICS 92), covered by the census of governments conducted by the Census Bureau.)

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The 20 NAICS sectors are subdivided into 96 subsectors (three-digit codes), 313 industry groups (four-digit codes), and, as implemented in the United States, 1170 industries (five- and six-digit codes).

## FUNDING

The Census Bureau funds most of the surveys. However, a number of surveys are paid for either fully or partially by other Federal Government agencies or private trade associations. A few surveys are mandated, but all are authorized by Title 13 of the United States Code.

## RELIABILITY OF DATA

Survey error may result from several sources including the inability to obtain information about all cases in the survey, response errors, definitional difficulties, differences in the interpretation of questions, mistakes in recording or coding the reported data, and other errors of collection, response, coverage, and estimation. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to these nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is the imputing of data for nonrespondents, for late reporters, and for data that fail logic edits. Missing figures are imputed based on period-to-period movements shown by reporting firms. A figure is considered to be an impute if the value was not directly reported on the questionnaire, directly derived from other reported items, directly available from supplemental sources, or obtained from the respondent during the analytical review phase. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are suppressed or footnoted. The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, because the actual yearly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is assumed to be small. The degree of uncertainty regarding the accuracy of the published data increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

## DATA REVISIONS

Statistics for previous years may be revised as the result of corrected figures from respondents, late reports for which imputations were originally made, or other corrections. Data that have been revised by more than 5 percent from previously published data are indicated by footnotes.

## DISCLOSURE

The Census Bureau collects the CIR data under the authority of Title 13, United States Code, which specifies that the information can only be used for statistical purposes and cannot be published or released in any manner that would identify a person, household, or establishment. "D" indicates that data in the cell have been suppressed to avoid disclosure of information pertaining to individual companies.

## EXPLANATION OF GENERAL TERMS

**Capacity.** The maximum quantity of a product that can be produced in a plant in 1 day if operating for 24 hours. Includes the capacity of idle plants until the plant is reported to be destroyed, dismantled, or abandoned.

**Consumption.** Materials used in producing or processing a product or otherwise removing the product from the inventory.

**Exports.** Includes all types of products shipped to foreign countries, or to agents or exporters for reshipment to foreign countries.

**Gross shipments.** The quantity or value of physical shipments from domestic establishments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale or use. Shipments of products purchased for resale are omitted. Shipments of products made under toll arrangements are included.

**Interplant transfers.** Shipments to other domestic plants within a company for further assembly, fabrication, or manufacture.

**Inventories.** The quantity or value of finished goods, work in progress, and materials on hand.

**Machinery in place.** The number of machines of a particular type in place as of a particular date whether the machinery was used for production, prototype, or sampling, or was idle. Machinery in place includes all machinery set up in operating positions.

**Net receipts.** Derived by subtracting the materials held at the end of the previous month from the sum of materials used during the current month.

**Production.** The total volume of products produced, including: products sold; products transferred or added to inventory after adjustments for breakage, shrinkage, and obsolescence, plus any other inventory adjustment; and products that undergo further manufacture at the same establishment.

**Quantities produced and consumed.** Quantities of each type of product produced by a company for internal consumption within that same company.

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**Quantity and value of new orders.** The sales value of orders received during the current reporting period for products and services to be delivered immediately or at some future date. Also represents the net sales value of contract change documents that increase or decrease the sales value of the orders to which they are related, when the parties concerned are in substantial agreement as to the amount involved. Included as orders are only those that are supported by binding legal documents such as signed contracts or letter contracts.

**Quantity and value of shipments.** The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and

returns. Shipments to a company's own branches are assigned the same value as comparable appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

**Stocks.** Total quantity of ending finished inventory.

**Unfilled orders (backlog).** Calculated by adding net new orders and subtracting net sales from the backlog at the end of the preceding year.

#### **HISTORICAL NOTE**

Data on wiring devices and supplies have been collected by the Census Bureau since 1960. Historical data may be obtained from Current Industrial Reports available at your local Federal Depository Library.