

Table M1.5. Cost of Materials of Foreign-Owned Establishments, by Detailed Industry

[Millions of dollars, except as noted]

| NAICS code | Industry  | Cost of materials <sup>1</sup> |                                 |              |                         |              |
|------------|---|--------------------------------|---------------------------------|--------------|-------------------------|--------------|
|            |   | Total                          | Of which:                       |              |                         |              |
|            |   |                                | Purchased fuels and electricity |              |                         | Electricity  |
|            |   |                                | Total                           | Fuels        | Quantity (thousand kWh) |              |
| 31-33      | <b>Manufacturing</b> .....                                  | <b>390,876</b>                 | <b>14,855</b>                   | <b>7,137</b> | <b>172,001,161</b>      | <b>7,718</b> |
| 311        | Food manufacturing .....                                    | 25,376                         | 851                             | 414          | 8,156,929               | 437          |
| 312        | Beverage and tobacco product manufacturing .....            | 5,736                          | 128                             | 47           | 1,463,234               | 81           |
| 313        | Textile mills .....   | 1,861                          | 124                             | 34           | 1,957,736               | 90           |
| 314        | Textile product mills .....                                 | 848                            | 39                              | 10           | 731,935                 | 29           |
| 315        | Apparel manufacturing .....                                 | 661                            | 12                              | 3            | 124,207                 | 9            |
| 316        | Leather and allied product manufacturing .....              | 16                             | *                               | *            | 1,879                   | *            |
| 321        | Wood product manufacturing .....                            | 1,766                          | 69                              | 20           | 831,706                 | 49           |
| 322        | Paper manufacturing .....                                   | 8,511                          | 910                             | 416          | 11,637,109              | 494          |
| 323        | Printing and related support activities .....               | 3,187                          | 153                             | 42           | 2,180,485               | 111          |
| 324        | Petroleum and coal products manufacturing .....             | 46,011                         | 2,039                           | 1,607        | 10,281,877              | 432          |
| 325        | Chemical manufacturing .....                                | 58,155                         | 3,626                           | 2,005        | 37,828,864              | 1,620        |
| 326        | Plastics and rubber products manufacturing .....            | 15,200                         | 672                             | 179          | 9,981,009               | 493          |
| 327        | Nonmetallic mineral product manufacturing .....             | 11,603                         | 1,911                           | 1,055        | 18,162,159              | 855          |
| 331        | Primary metal manufacturing .....                           | 19,857                         | 1,836                           | 670          | 33,401,312              | 1,166        |
| 332        | Fabricated metal product manufacturing .....                | 14,079                         | 484                             | 167          | 6,211,854               | 317          |
| 333        | Machinery manufacturing .....                               | 24,103                         | 318                             | 78           | 4,049,697               | 240          |
| 334        | Computer and electronic product manufacturing .....         | 28,071                         | 450                             | 77           | 6,413,201               | 374          |
| 335        | Electrical equipment and appliance manufacturing .....      | 11,397                         | 216                             | 56           | 2,964,610               | 159          |
| 336        | Transportation equipment manufacturing .....                | 107,899                        | 877                             | 232          | 13,824,346              | 645          |
| 337        | Furniture and related product manufacturing .....           | 794                            | 17                              | 3            | 189,650                 | 14           |
| 339        | Miscellaneous manufacturing .....                           | 5,745                          | 122                             | 21           | 1,607,362               | 102          |
| 311        | <b>Food manufacturing</b> .....                             | <b>25,376</b>                  | <b>851</b>                      | <b>414</b>   | <b>8,156,929</b>        | <b>437</b>   |
| 3111       | Animal food manufacturing .....                             | 3,078                          | 71                              | 36           | 757,176                 | 35           |
| 31111      | Animal food manufacturing .....                             | 3,078                          | 71                              | 36           | 757,176                 | 35           |
| 311111     | Dog and cat food manufacturing .....                        | 2,069                          | 49                              | 25           | 541,880                 | 24           |
| 311119     | Other animal food manufacturing .....                       | 1,010                          | 22                              | 11           | 215,296                 | 10           |
| 3112       | Grain and oilseed milling .....                             | 6,087                          | 308                             | 183          | 2,898,883               | 125          |
| 31121      | Flour milling and malt manufacturing .....                  | (D)                            | (D)                             | (D)          | (D)                     | (D)          |
| 311211     | Flour milling .....   | 252                            | 18                              | 10           | 119,303                 | 8            |
| 311212     | Rice milling .....  | (D)                            | (D)                             | (D)          | (D)                     | (D)          |
| 311213     | Malt manufacturing .....                                    | (D)                            | (D)                             | (D)          | (D)                     | (D)          |
| 31122      | Starch and vegetable oil manufacturing .....                | 5,673                          | 276                             | 165          | 2,674,301               | 112          |
| 311221     | Wet corn milling .....                                      | 833                            | 141                             | 79           | 1,671,288               | 62           |
| 311222     | Soybean processing .....                                    | 3,083                          | 98                              | 67           | 695,556                 | 32           |
| 311223     | Other oilseed processing .....                              | 84                             | 4                               | 2            | 31,478                  | 2            |
| 311225     | Fats and oils refining and blending .....                   | 1,672                          | 33                              | 17           | 275,979                 | 16           |
| 31123      | Breakfast cereal manufacturing .....                        | (D)                            | (D)                             | (D)          | (D)                     | (D)          |
| 311230     | Breakfast cereal manufacturing .....                        | (D)                            | (D)                             | (D)          | (D)                     | (D)          |
| 3113       | Sugar and confectionery product manufacturing .....         | 1,318                          | 35                              | 11           | 363,830                 | 23           |
| 31131      | Sugar manufacturing .....                                   | 43                             | 5                               | 4            | 27,386                  | 1            |
| 311313     | Beet sugar manufacturing .....                              | 43                             | 5                               | 4            | 27,386                  | 1            |
| 31132      | Confectionery manufacturing from cacao beans .....          | 591                            | 11                              | 2            | 133,276                 | 9            |
| 311320     | Confectionery manufacturing from cacao beans .....          | 591                            | 11                              | 2            | 133,276                 | 9            |
| 31133      | Confectionery manufacturing, from purchased chocolate ..... | 325                            | 7                               | 2            | 77,811                  | 5            |
| 311330     | Confectionery manufacturing, from purchased chocolate ..... | 325                            | 7                               | 2            | 77,811                  | 5            |
| 31134      | Nonchocolate confectionery manufacturing .....              | 360                            | 11                              | 3            | 125,357                 | 8            |
| 311340     | Nonchocolate confectionery manufacturing .....              | 360                            | 11                              | 3            | 125,357                 | 8            |
| 3114       | Fruit and vegetable preserving and specialty .....          | 2,968                          | 104                             | 51           | 912,378                 | 52           |
| 31141      | Frozen food manufacturing .....                             | 1,865                          | 67                              | 31           | 671,354                 | 36           |
| 311411     | Frozen fruit and vegetable manufacturing .....              | 907                            | 44                              | 25           | 387,008                 | 19           |
| 311412     | Frozen specialty food manufacturing .....                   | 958                            | 23                              | 7            | 284,346                 | 17           |
| 31142      | Fruit and vegetable canning and drying .....                | 1,102                          | 37                              | 20           | 241,024                 | 16           |
| 311421     | Fruit and vegetable canning .....                           | 629                            | 25                              | 14           | 160,994                 | 11           |
| 311422     | Specialty canning .....                                     | (D)                            | (D)                             | (D)          | (D)                     | (D)          |
| 311423     | Dried and dehydrated food manufacturing .....               | (D)                            | (D)                             | (D)          | (D)                     | (D)          |
| 3115       | Dairy product manufacturing .....                           | 4,540                          | 102                             | 33           | 1,054,210               | 69           |
| 31151      | Dairy product, except frozen, manufacturing .....           | 3,283                          | 70                              | 31           | 651,583                 | 39           |
| 311511     | Fluid milk manufacturing .....                              | 767                            | 14                              | 4            | 158,529                 | 10           |
| 311513     | Cheese manufacturing .....                                  | 1,945                          | 38                              | 17           | 353,077                 | 22           |
| 311514     | Dry, condensed, and evaporated dairy products .....         | 571                            | 18                              | 10           | 139,977                 | 7            |
| 31152      | Ice cream and frozen dessert manufacturing .....            | 1,257                          | 32                              | 2            | 402,627                 | 30           |
| 311520     | Ice cream and frozen dessert manufacturing .....            | 1,257                          | 32                              | 2            | 402,627                 | 30           |
| 3116       | Animal slaughtering and processing .....                    | 2,000                          | 38                              | 15           | 445,620                 | 23           |
| 31161      | Animal slaughtering and processing .....                    | 2,000                          | 38                              | 15           | 445,620                 | 23           |
| 311611     | Animal, except poultry, slaughtering .....                  | 596                            | 6                               | 3            | 67,359                  | 3            |
| 311612     | Meat processed from carcasses .....                         | 399                            | 9                               | 3            | 101,204                 | 6            |
| 311613     | Rendering and meat byproduct processing .....               | 68                             | 1                               | 1            | 7,698                   | 1            |
| 311615     | Poultry processing .....                                    | 937                            | 22                              | 9            | 269,359                 | 13           |

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|------------|---|--------------------------------|---------------------------------|-----------|------------------|-----------|
|            |   | Total                          | Of which:                       |           |                  |           |
|            |   |                                | Purchased fuels and electricity |           |                  | Cost      |
|            |   |                                | Total                           | Fuels     | Electricity      |           |
|            |   |                                | Quantity (thousand kWh)         |           |                  |           |
| 3117       | Seafood product preparation and packaging .....         | 884                            | 21                              | 11        | 127,603          | 10        |
| 31171      | Seafood product preparation and packaging .....         | 884                            | 21                              | 11        | 127,603          | 10        |
| 311711     | Seafood canning .....                                   | 154                            | 5                               | 2         | 36,720           | 2         |
| 311712     | Fresh and frozen seafood processing .....               | 731                            | 17                              | 9         | 90,883           | 8         |
| 3118       | Bakeries and tortilla manufacturing .....               | 2,031                          | 87                              | 38        | 754,547          | 49        |
| 31181      | Bread and bakery product manufacturing .....            | 1,067                          | 50                              | 23        | 442,959          | 27        |
| 311811     | Retail bakeries .....                                   | 1                              | *                               | *         | 237              | *         |
| 311812     | Commercial bakeries .....                               | 852                            | 45                              | 23        | 345,085          | 22        |
| 311813     | Frozen cakes and other pastries manufacturing .....     | 213                            | 5                               | *         | 97,637           | 5         |
| 31182      | Cookie, cracker, and pasta manufacturing .....          | 744                            | 24                              | 10        | 217,593          | 14        |
| 311821     | Cookie and cracker manufacturing .....                  | 376                            | 16                              | 7         | 128,647          | 9         |
| 311822     | Mixes and dough made from purchased flour .....         | 275                            | 5                               | 1         | 64,159           | 4         |
| 311823     | Dry pasta manufacturing .....                           | 93                             | 3                               | 2         | 24,787           | 1         |
| 31183      | Tortilla manufacturing .....                            | 220                            | 13                              | 5         | 93,995           | 8         |
| 311830     | Tortilla manufacturing .....                            | 220                            | 13                              | 5         | 93,995           | 8         |
| 3119       | Other food manufacturing .....                          | 2,470                          | 85                              | 34        | 842,682          | 51        |
| 31191      | Snack food manufacturing .....                          | 187                            | 4                               | 2         | 41,734           | 2         |
| 311911     | Roasted nuts and peanut butter manufacturing .....      | (D)                            | (D)                             | (D)       | (D)              | (D)       |
| 311919     | Other snack food manufacturing .....                    | (D)                            | (D)                             | (D)       | (D)              | (D)       |
| 31192      | Coffee and tea manufacturing .....                      | 258                            | 14                              | 7         | 102,171          | 7         |
| 311920     | Coffee and tea manufacturing .....                      | 258                            | 14                              | 7         | 102,171          | 7         |
| 31193      | Flavoring syrup and concentrate manufacturing .....     | 146                            | 2                               | 1         | 17,372           | 1         |
| 311930     | Flavoring syrup and concentrate manufacturing .....     | 146                            | 2                               | 1         | 17,372           | 1         |
| 31194      | Seasoning and dressing manufacturing .....              | 1,181                          | 27                              | 10        | 258,953          | 17        |
| 311941     | Mayonnaise, dressing, and sauce manufacturing .....     | 607                            | 13                              | 4         | 139,734          | 9         |
| 311942     | Spice and extract manufacturing .....                   | 574                            | 14                              | 6         | 119,219          | 7         |
| 31199      | All other food manufacturing .....                      | 698                            | 37                              | 14        | 422,452          | 24        |
| 311991     | Perishable prepared food manufacturing .....            | 151                            | 2                               | 1         | 5,609            | 1         |
| 311999     | All other miscellaneous food manufacturing .....        | 548                            | 35                              | 12        | 416,843          | 23        |
| 312        | <b>Beverage and tobacco product manufacturing .....</b> | <b>5,736</b>                   | <b>128</b>                      | <b>47</b> | <b>1,463,234</b> | <b>81</b> |
| 3121       | Beverage manufacturing .....                            | 4,695                          | 108                             | 39        | 1,153,584        | 68        |
| 31211      | Soft drink and ice manufacturing .....                  | 1,981                          | 40                              | 5         | 537,708          | 35        |
| 312111     | Soft drink manufacturing .....                          | 1,588                          | 16                              | 4         | 174,443          | 12        |
| 312112     | Bottled water manufacturing .....                       | 392                            | 23                              | 1         | 353,624          | 23        |
| 312113     | Ice manufacturing .....                                 | 2                              | *                               | *         | 9,641            | *         |
| 31212      | Breweries .....   | 1,739                          | 53                              | 29        | 486,753          | 24        |
| 312120     | Breweries .....   | 1,739                          | 53                              | 29        | 486,753          | 24        |
| 31213      | Wineries .....  | 400                            | 5                               | 1         | 38,353           | 4         |
| 312130     | Wineries .....  | 400                            | 5                               | 1         | 38,353           | 4         |
| 31214      | Distilleries .....                                      | 575                            | 10                              | 5         | 90,770           | 5         |
| 312140     | Distilleries .....                                      | 575                            | 10                              | 5         | 90,770           | 5         |
| 3122       | Tobacco manufacturing .....                             | 1,040                          | 20                              | 8         | 309,650          | 12        |
| 31221      | Tobacco stemming and redrying .....                     | (D)                            | (D)                             | (D)       | (D)              | (D)       |
| 312210     | Tobacco stemming and redrying .....                     | (D)                            | (D)                             | (D)       | (D)              | (D)       |
| 31222      | Tobacco product manufacturing .....                     | (D)                            | (D)                             | (D)       | (D)              | (D)       |
| 312221     | Cigarette manufacturing .....                           | (D)                            | (D)                             | (D)       | (D)              | (D)       |
| 312229     | Other tobacco product manufacturing .....               | (D)                            | (D)                             | (D)       | (D)              | (D)       |
| 313        | <b>Textile mills .....</b>                              | <b>1,861</b>                   | <b>124</b>                      | <b>34</b> | <b>1,957,736</b> | <b>90</b> |
| 3131       | Fiber, yarn, and thread mills .....                     | 436                            | 26                              | 3         | 467,170          | 23        |
| 31311      | Fiber, yarn, and thread mills .....                     | 436                            | 26                              | 3         | 467,170          | 23        |
| 313111     | Yarn spinning mills .....                               | 189                            | 14                              | 1         | 279,897          | 13        |
| 313112     | Yarn texturizing and twisting mills .....               | (D)                            | (D)                             | (D)       | (D)              | (D)       |
| 313113     | Thread mills .....                                      | (D)                            | (D)                             | (D)       | (D)              | (D)       |
| 3132       | Fabric mills .....                                      | 1,103                          | 77                              | 19        | 1,305,189        | 57        |
| 31321      | Broadwoven fabric mills .....                           | 573                            | 44                              | 9         | 852,372          | 35        |
| 313210     | Broadwoven fabric mills .....                           | 573                            | 44                              | 9         | 852,372          | 35        |
| 31322      | Narrow fabric mills and schiffli embroidery .....       | 114                            | 6                               | 4         | 35,359           | 2         |
| 313221     | Narrow fabric mills .....                               | (D)                            | (D)                             | (D)       | (D)              | (D)       |
| 313222     | Schiffli machine embroidery .....                       | (D)                            | (D)                             | (D)       | (D)              | (D)       |
| 31323      | Nonwoven fabric mills .....                             | 379                            | 24                              | 5         | 393,667          | 18        |
| 313230     | Nonwoven fabric mills .....                             | 379                            | 24                              | 5         | 393,667          | 18        |
| 31324      | Knit fabric mills .....                                 | 38                             | 3                               | 1         | 23,791           | 2         |
| 313249     | Other knit fabric and lace mills .....                  | 38                             | 3                               | 1         | 23,791           | 2         |
| 3133       | Textile and fabric finishing mills .....                | 322                            | 21                              | 11        | 185,377          | 10        |
| 31331      | Textile and fabric finishing mills .....                | 190                            | 13                              | 7         | 121,101          | 6         |
| 313311     | Broadwoven fabric finishing mills .....                 | (D)                            | (D)                             | (D)       | (D)              | (D)       |
| 313312     | Other textile and fabric finishing mills .....          | (D)                            | (D)                             | (D)       | (D)              | (D)       |
| 31332      | Fabric coating mills .....                              | 131                            | 8                               | 4         | 64,276           | 3         |
| 313320     | Fabric coating mills .....                              | 131                            | 8                               | 4         | 64,276           | 3         |

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|------------|--|--------------------------------|---------------------------------|-------------------------|----------------|-----------|
|            |  | Total                          | Of which:                       |                         |                |           |
|            |  |                                | Purchased fuels and electricity |                         |                | Cost      |
|            |  |                                | Total                           | Fuels                   | Electricity    |           |
|            |  |                                |                                 | Quantity (thousand kWh) |                |           |
| 314        | <b>Textile product mills.....</b>                      | <b>848</b>                     | <b>39</b>                       | <b>10</b>               | <b>731,935</b> | <b>29</b> |
| 3141       | Textile furnishings mills.....                         | 180                            | 6                               | 2                       | 90,559         | 4         |
| 31411      | Carpet and rug mills.....                              | 124                            | 6                               | 2                       | 83,252         | 4         |
| 314110     | Carpet and rug mills.....                              | 124                            | 6                               | 2                       | 83,252         | 4         |
| 31412      | Curtain and linen mills.....                           | 56                             | 1                               | *                       | 7,307          | 1         |
| 314121     | Curtain and drapery mills.....                         | (D)                            | (D)                             | (D)                     | (D)            | (D)       |
| 314129     | Other household textile product mills.....             | (D)                            | (D)                             | (D)                     | (D)            | (D)       |
| 3149       | Other textile product mills.....                       | 669                            | 33                              | 8                       | 641,376        | 25        |
| 31491      | Textile bag and canvas mills.....                      | 28                             | *                               | *                       | 4,247          | *         |
| 314911     | Textile bag mills.....                                 | 23                             | *                               | *                       | 2,484          | *         |
| 314912     | Canvas and related product mills.....                  | 6                              | *                               | *                       | 1,763          | *         |
| 31499      | All other textile product mills.....                   | 641                            | 33                              | 8                       | 637,129        | 25        |
| 314991     | Rope, cordage, and twine mills.....                    | (D)                            | (D)                             | (D)                     | (D)            | (D)       |
| 314992     | Tire cord and tire fabric mills.....                   | 463                            | 28                              | 7                       | 589,339        | 22        |
| 314999     | All other miscellaneous textile product mills.....     | (D)                            | (D)                             | (D)                     | (D)            | (D)       |
| 315        | <b>Apparel manufacturing.....</b>                      | <b>661</b>                     | <b>12</b>                       | <b>3</b>                | <b>124,207</b> | <b>9</b>  |
| 3151       | Apparel knitting mills.....                            | 79                             | 5                               | 2                       | 49,124         | 4         |
| 31511      | Hosiery and sock mills.....                            | 64                             | 4                               | 1                       | 36,656         | 3         |
| 315111     | Sheer hosiery mills.....                               | (D)                            | (D)                             | (D)                     | (D)            | (D)       |
| 315119     | Other hosiery and sock mills.....                      | (D)                            | (D)                             | (D)                     | (D)            | (D)       |
| 31519      | Other apparel knitting mills.....                      | 15                             | 2                               | 1                       | 12,468         | 1         |
| 315191     | Outerwear knitting mills.....                          | (D)                            | (D)                             | (D)                     | (D)            | (D)       |
| 315192     | Underwear and nightwear knitting mills.....            | (D)                            | (D)                             | (D)                     | (D)            | (D)       |
| 3152       | Cut and sew apparel manufacturing.....                 | 559                            | 7                               | 1                       | 72,586         | 5         |
| 31521      | Cut and sew apparel contractors.....                   | 2                              | 1                               | *                       | 9,266          | 1         |
| 315211     | Men's cut and sew apparel contractors.....             | (D)                            | (D)                             | (D)                     | (D)            | (D)       |
| 315212     | Women's cut and sew apparel contractors.....           | (D)                            | (D)                             | (D)                     | (D)            | (D)       |
| 31522      | Men's cut and sew apparel manufacturing.....           | 411                            | 5                               | 1                       | 54,176         | 4         |
| 315222     | Men's suit, coat, and overcoat manufacturing.....      | 107                            | 3                               | 1                       | 31,267         | 2         |
| 315223     | Men's shirt, except work shirt, manufacturing.....     | (D)                            | (D)                             | (D)                     | (D)            | (D)       |
| 315224     | Men's pants, except work pants, manufacturing.....     | 245                            | 1                               | *                       | 17,072         | 1         |
| 315225     | Men's work clothing manufacturing.....                 | (D)                            | (D)                             | (D)                     | (D)            | (D)       |
| 31523      | Women's cut and sew apparel manufacturing.....         | 107                            | *                               | *                       | 1,997          | *         |
| 315231     | Women's lingerie and nightwear manufacturing.....      | (D)                            | (D)                             | (D)                     | (D)            | (D)       |
| 315232     | Women's blouse and shirt manufacturing.....            | (D)                            | (D)                             | (D)                     | (D)            | (D)       |
| 315233     | Women's dress manufacturing.....                       | (D)                            | (D)                             | (D)                     | (D)            | (D)       |
| 315239     | Other women's outerwear manufacturing.....             | (D)                            | (D)                             | (D)                     | (D)            | (D)       |
| 31529      | Other cut and sew apparel manufacturing.....           | 40                             | 1                               | *                       | 7,147          | 1         |
| 315299     | All other cut and sew apparel manufacturing.....       | 40                             | 1                               | *                       | 7,147          | 1         |
| 3159       | Accessories and other apparel manufacturing.....       | 23                             | *                               | *                       | 2,497          | *         |
| 31599      | Accessories and other apparel manufacturing.....       | 23                             | *                               | *                       | 2,497          | *         |
| 315992     | Glove and mitten manufacturing.....                    | (D)                            | (D)                             | (D)                     | (D)            | (D)       |
| 315993     | Men's and boys' neckwear manufacturing.....            | (D)                            | (D)                             | (D)                     | (D)            | (D)       |
| 315999     | All other accessory and apparel manufacturing.....     | (D)                            | (D)                             | (D)                     | (D)            | (D)       |
| 316        | <b>Leather and allied product manufacturing.....</b>   | <b>16</b>                      | <b>*</b>                        | <b>*</b>                | <b>1,879</b>   | <b>*</b>  |
| 3169       | Other leather product manufacturing.....               | 16                             | *                               | *                       | 1,879          | *         |
| 31699      | Other leather product manufacturing.....               | 16                             | *                               | *                       | 1,879          | *         |
| 316992     | Women's handbag and purse manufacturing.....           | (D)                            | (D)                             | (D)                     | (D)            | (D)       |
| 316999     | All other leather good manufacturing.....              | (D)                            | (D)                             | (D)                     | (D)            | (D)       |
| 321        | <b>Wood product manufacturing.....</b>                 | <b>1,766</b>                   | <b>69</b>                       | <b>20</b>               | <b>831,706</b> | <b>49</b> |
| 3211       | Sawmills and wood preservation.....                    | 303                            | 13                              | 2                       | 125,060        | 11        |
| 32111      | Sawmills and wood preservation.....                    | 303                            | 13                              | 2                       | 125,060        | 11        |
| 321113     | Sawmills.....  | (D)                            | (D)                             | (D)                     | (D)            | (D)       |
| 321114     | Wood preservation.....                                 | (D)                            | (D)                             | (D)                     | (D)            | (D)       |
| 3212       | Plywood and engineered wood product manufacturing..... | 456                            | 44                              | 16                      | 542,293        | 28        |
| 32121      | Plywood and engineered wood product manufacturing..... | 456                            | 44                              | 16                      | 542,293        | 28        |
| 321211     | Hardwood veneer and plywood manufacturing.....         | 101                            | 3                               | 1                       | 36,243         | 2         |
| 321212     | Softwood veneer and plywood manufacturing.....         | (D)                            | (D)                             | (D)                     | (D)            | (D)       |
| 321214     | Truss manufacturing.....                               | (D)                            | (D)                             | (D)                     | (D)            | (D)       |
| 321219     | Reconstituted wood product manufacturing.....          | 302                            | 41                              | 15                      | 500,650        | 26        |

Table M1.5. Cost of Materials of Foreign-Owned Establishments, by Detailed Industry

[Millions of dollars, except as noted]

| NAICS code | Industry   | Cost of materials <sup>1</sup> |                                 |                         |                   |            |
|------------|--|--------------------------------|---------------------------------|-------------------------|-------------------|------------|
|            |  | Total                          | Of which:                       |                         |                   |            |
|            |  |                                | Purchased fuels and electricity |                         |                   | Cost       |
|            |  |                                | Total                           | Fuels                   | Electricity       |            |
|            |  |                                |                                 | Quantity (thousand kWh) |                   |            |
| 3219       | Other wood product manufacturing .....                     | 1,008                          | 12                              | 2                       | 164,353           | 10         |
| 32191      | Millwork .....   | 896                            | 9                               | 1                       | 135,014           | 8          |
| 321911     | Wood window and door manufacturing.....                    | 662                            | 5                               | 1                       | 65,365            | 4          |
| 321912     | Cut stock, resawing lumber, and planing .....              | 54                             | 1                               | *                       | 8,678             | 1          |
| 321918     | Other millwork, including flooring.....                    | 180                            | 4                               | *                       | 60,971            | 3          |
| 32192      | Wood container and pallet manufacturing.....               | 73                             | 2                               | *                       | 25,109            | 2          |
| 321920     | Wood container and pallet manufacturing.....               | 73                             | 2                               | *                       | 25,109            | 2          |
| 32199      | All other wood product manufacturing.....                  | 39                             | *                               | *                       | 4,230             | *          |
| 321992     | Prefabricated wood building manufacturing.....             | 18                             | *                               | *                       | 1,321             | *          |
| 321999     | Miscellaneous wood product manufacturing.....              | 20                             | *                               | *                       | 2,909             | *          |
| 322        | <b>Paper manufacturing .....</b>                           | <b>8,511</b>                   | <b>910</b>                      | <b>416</b>              | <b>11,637,109</b> | <b>494</b> |
| 3221       | Pulp, paper, and paperboard mills .....                    | 4,689                          | 785                             | 373                     | 10,129,950        | 412        |
| 32211      | Pulp mills.....  | 270                            | 32                              | 23                      | 210,270           | 9          |
| 322110     | Pulp mills.....  | 270                            | 32                              | 23                      | 210,270           | 9          |
| 32212      | Paper mills.....   | 3,896                          | 659                             | 295                     | 8,877,250         | 364        |
| 322121     | Paper, except newsprint, mills .....                       | 3,368                          | 499                             | 244                     | 6,096,089         | 255        |
| 322122     | Newsprint mills.....                                       | 528                            | 160                             | 51                      | 2,781,161         | 109        |
| 32213      | Paperboard mills.....                                      | 522                            | 94                              | 55                      | 1,042,430         | 39         |
| 322130     | Paperboard mills.....                                      | 522                            | 94                              | 55                      | 1,042,430         | 39         |
| 3222       | Converted paper product manufacturing .....                | 3,822                          | 125                             | 43                      | 1,507,159         | 82         |
| 32221      | Paperboard container manufacturing .....                   | 1,151                          | 25                              | 8                       | 251,568           | 16         |
| 322211     | Corrugated and solid fiber box manufacturing.....          | 638                            | 13                              | 5                       | 105,518           | 8          |
| 322212     | Folding paperboard box manufacturing .....                 | 360                            | 5                               | 1                       | 76,404            | 4          |
| 322214     | Fiber can, tube, and drum manufacturing.....               | 32                             | 2                               | 1                       | 26,230            | 1          |
| 322215     | Nonfolding sanitary food container manufacturing.....      | 121                            | 4                               | 1                       | 43,416            | 3          |
| 32222      | Paper bag and coated and treated paper manufacturing.....  | 1,478                          | 61                              | 27                      | 651,689           | 34         |
| 322221     | Coated and laminated packaging materials manufacturing.... | 129                            | 3                               | 1                       | 23,278            | 2          |
| 322222     | Coated and laminated paper manufacturing.....              | 994                            | 48                              | 23                      | 506,326           | 25         |
| 322223     | Plastics, foil, and coated paper bag manufacturing .....   | (D)                            | (D)                             | (D)                     | (D)               | (D)        |
| 322224     | Uncoated paper and multwall bag manufacturing.....         | (D)                            | (D)                             | (D)                     | (D)               | (D)        |
| 322225     | Flexible packaging foil manufacturing .....                | 179                            | 6                               | 1                       | 65,408            | 5          |
| 322226     | Surface-coated paperboard manufacturing .....              | 148                            | 4                               | 1                       | 46,984            | 2          |
| 32223      | Stationery product manufacturing .....                     | 49                             | 4                               | 2                       | 23,182            | 1          |
| 322231     | Die-cut paper office supplies manufacturing.....           | (D)                            | (D)                             | (D)                     | (D)               | (D)        |
| 322232     | Envelope manufacturing .....                               | (D)                            | (D)                             | (D)                     | (D)               | (D)        |
| 322233     | Stationery and related product manufacturing.....          | (D)                            | (D)                             | (D)                     | (D)               | (D)        |
| 32229      | Other converted paper product manufacturing.....           | 1,144                          | 36                              | 5                       | 580,720           | 30         |
| 322291     | Sanitary paper product manufacturing .....                 | 984                            | 19                              | 3                       | 328,722           | 16         |
| 322299     | All other converted paper product manufacturing.....       | 160                            | 17                              | 3                       | 251,998           | 14         |
| 323        | <b>Printing and related support activities.....</b>        | <b>3,187</b>                   | <b>153</b>                      | <b>42</b>               | <b>2,180,485</b>  | <b>111</b> |
| 3231       | Printing and related support activities .....              | 3,187                          | 153                             | 42                      | 2,180,485         | 111        |
| 32311      | Printing.....  | 3,139                          | 151                             | 42                      | 2,159,251         | 109        |
| 323110     | Commercial lithographic printing .....                     | 1,681                          | 78                              | 19                      | 1,088,366         | 58         |
| 323111     | Commercial gravure printing.....                           | 412                            | 35                              | 16                      | 431,022           | 19         |
| 323112     | Commercial flexographic printing .....                     | 224                            | 11                              | 1                       | 246,888           | 10         |
| 323113     | Commercial screen printing.....                            | 72                             | 1                               | *                       | 16,186            | 1          |
| 323114     | Quick printing.....  | (D)                            | (D)                             | (D)                     | (D)               | (D)        |
| 323115     | Digital printing.....                                      | (D)                            | (D)                             | (D)                     | (D)               | (D)        |
| 323116     | Manifold business forms printing .....                     | 373                            | 8                               | 1                       | 126,836           | 7          |
| 323117     | Books printing.....  | 338                            | 17                              | 4                       | 239,312           | 13         |
| 323118     | Blankbook and looseleaf binder manufacturing.....          | (D)                            | (D)                             | (D)                     | (D)               | (D)        |
| 323119     | Other commercial printing .....                            | (D)                            | (D)                             | (D)                     | (D)               | (D)        |
| 32312      | Support activities for printing .....                      | 48                             | 2                               | *                       | 21,234            | 2          |
| 323121     | Tradebinding and related work.....                         | 12                             | *                               | *                       | 4,895             | *          |
| 323122     | Prepress services.....                                     | 37                             | 1                               | *                       | 16,339            | 1          |
| 324        | <b>Petroleum and coal products manufacturing .....</b>     | <b>46,011</b>                  | <b>2,039</b>                    | <b>1,607</b>            | <b>10,281,877</b> | <b>432</b> |
| 3241       | Petroleum and coal products manufacturing .....            | 46,011                         | 2,039                           | 1,607                   | 10,281,877        | 432        |
| 32411      | Petroleum refineries .....                                 | 43,144                         | 1,924                           | 1,534                   | 9,701,204         | 391        |
| 324110     | Petroleum refineries.....                                  | 43,144                         | 1,924                           | 1,534                   | 9,701,204         | 391        |
| 32412      | Asphalt paving and roofing materials manufacturing .....   | 1,460                          | 91                              | 62                      | 386,398           | 30         |
| 324121     | Asphalt paving mixture and block manufacturing .....       | 859                            | 70                              | 50                      | 223,735           | 20         |
| 324122     | Asphalt shingle and coating materials manufacturing .....  | 601                            | 21                              | 12                      | 162,663           | 10         |
| 32419      | Other petroleum and coal products manufacturing.....       | 1,407                          | 24                              | 12                      | 194,275           | 12         |
| 324191     | Petroleum lubricating oil and grease manufacturing.....    | 1,241                          | 16                              | 8                       | 142,616           | 8          |
| 324199     | All other petroleum and coal products manufacturing.....   | 166                            | 8                               | 4                       | 51,659            | 4          |

Table M1.5. Cost of Materials of Foreign-Owned Establishments, by Detailed Industry

[Millions of dollars, except as noted]

| NAICS code | Industry  | Cost of materials <sup>1</sup> |                                 |                         |                   |              |
|------------|---|--------------------------------|---------------------------------|-------------------------|-------------------|--------------|
|            |   | Total                          | Of which:                       |                         |                   |              |
|            |   |                                | Purchased fuels and electricity |                         |                   | Cost         |
|            |   |                                | Total                           | Fuels                   | Electricity       |              |
|            |   |                                |                                 | Quantity (thousand kWh) |                   |              |
| 325        | <b>Chemical manufacturing .....</b>                           | <b>58,155</b>                  | <b>3,626</b>                    | <b>2,005</b>            | <b>37,828,864</b> | <b>1,620</b> |
| 3251       | Basic chemical manufacturing .....                            | 17,093                         | 2,118                           | 1,260                   | 22,253,474        | 858          |
| 32511      | Petrochemical manufacturing .....                             | 3,493                          | 313                             | 267                     | 1,260,236         | 46           |
| 325110     | Petrochemical manufacturing .....                             | 3,493                          | 313                             | 267                     | 1,260,236         | 46           |
| 32512      | Industrial gas manufacturing .....                            | 496                            | 261                             | 23                      | 5,723,595         | 238          |
| 325120     | Industrial gas manufacturing .....                            | 496                            | 261                             | 23                      | 5,723,595         | 238          |
| 32513      | Synthetic dye and pigment manufacturing .....                 | 803                            | 62                              | 31                      | 589,425           | 31           |
| 325131     | Inorganic dye and pigment manufacturing .....                 | 68                             | 12                              | 7                       | 94,828            | 5            |
| 325132     | Synthetic organic dye and pigment manufacturing .....         | 734                            | 51                              | 24                      | 494,597           | 27           |
| 32518      | Other basic inorganic chemical manufacturing .....            | 1,892                          | 277                             | 112                     | 4,753,629         | 165          |
| 325181     | Alkalies and chlorine manufacturing .....                     | 197                            | 68                              | 29                      | 1,448,819         | 39           |
| 325182     | Carbon black manufacturing .....                              | 120                            | 19                              | 12                      | 166,765           | 6            |
| 325188     | All other basic inorganic chemical manufacturing .....        | 1,575                          | 191                             | 71                      | 3,138,045         | 120          |
| 32519      | Other basic organic chemical manufacturing .....              | 10,409                         | 1,205                           | 827                     | 9,926,589         | 377          |
| 325191     | Gum and wood chemical manufacturing .....                     | (D)                            | (D)                             | (D)                     | (D)               | (D)          |
| 325192     | Cyclic crude and intermediate manufacturing .....             | 1,129                          | 102                             | 27                      | 2,015,320         | 75           |
| 325193     | Ethyl alcohol manufacturing .....                             | (D)                            | (D)                             | (D)                     | (D)               | (D)          |
| 325199     | All other basic organic chemical manufacturing .....          | 9,060                          | 1,077                           | 783                     | 7,712,200         | 295          |
| 3252       | Resin, rubber, and artificial fibers manufacturing .....      | 10,318                         | 573                             | 304                     | 6,113,998         | 269          |
| 32521      | Resin and synthetic rubber manufacturing .....                | 9,303                          | 500                             | 268                     | 5,101,172         | 232          |
| 325211     | Plastics material and resin manufacturing .....               | 8,429                          | 408                             | 212                     | 4,432,260         | 197          |
| 325212     | Synthetic rubber manufacturing .....                          | 873                            | 91                              | 56                      | 668,912           | 35           |
| 32522      | Artificial fibers and filaments manufacturing .....           | 1,015                          | 73                              | 36                      | 1,012,826         | 37           |
| 325221     | Cellulosic organic fiber manufacturing .....                  | 197                            | 33                              | 29                      | 115,562           | 4            |
| 325222     | Noncellulosic organic fiber manufacturing .....               | 818                            | 40                              | 7                       | 897,264           | 33           |
| 3253       | Agricultural chemical manufacturing .....                     | 2,855                          | 323                             | 214                     | 2,789,627         | 109          |
| 32531      | Fertilizer manufacturing .....                                | 1,586                          | 276                             | 195                     | 2,176,940         | 82           |
| 325311     | Nitrogenous fertilizer manufacturing .....                    | 988                            | 233                             | 182                     | 1,357,715         | 51           |
| 325312     | Phosphatic fertilizer manufacturing .....                     | 540                            | 43                              | 12                      | 812,736           | 30           |
| 325314     | Fertilizer, mixing only, manufacturing .....                  | 58                             | 1                               | *                       | 6,489             | *            |
| 32532      | Pesticide and other agricultural chemical manufacturing ..... | 1,269                          | 47                              | 19                      | 612,687           | 27           |
| 325320     | Pesticide and other agricultural chemical manufacturing ..... | 1,269                          | 47                              | 19                      | 612,687           | 27           |
| 3254       | Pharmaceutical and medicine manufacturing .....               | 14,310                         | 268                             | 75                      | 3,300,096         | 192          |
| 32541      | Pharmaceutical and medicine manufacturing .....               | 14,310                         | 268                             | 75                      | 3,300,096         | 192          |
| 325411     | Medicinal and botanical manufacturing .....                   | 448                            | 21                              | 8                       | 255,469           | 13           |
| 325412     | Pharmaceutical preparation manufacturing .....                | 11,381                         | 169                             | 55                      | 1,875,546         | 114          |
| 325413     | In-vitro diagnostic substance manufacturing .....             | 1,082                          | 41                              | 2                       | 789,382           | 39           |
| 325414     | Other biological product manufacturing .....                  | 1,399                          | 36                              | 10                      | 379,699           | 26           |
| 3255       | Paint, coating, and adhesive manufacturing .....              | 2,341                          | 65                              | 18                      | 788,435           | 47           |
| 32551      | Paint and coating manufacturing .....                         | 1,449                          | 39                              | 7                       | 559,924           | 32           |
| 325510     | Paint and coating manufacturing .....                         | 1,449                          | 39                              | 7                       | 559,924           | 32           |
| 32552      | Adhesive manufacturing .....                                  | 892                            | 25                              | 11                      | 228,511           | 15           |
| 325520     | Adhesive manufacturing .....                                  | 892                            | 25                              | 11                      | 228,511           | 15           |
| 3256       | Soap, cleaning compound, and toiletry manufacturing .....     | 6,298                          | 175                             | 102                     | 1,329,907         | 74           |
| 32561      | Soap and cleaning compound manufacturing .....                | 3,711                          | 151                             | 95                      | 1,057,007         | 56           |
| 325611     | Soap and other detergent manufacturing .....                  | 1,006                          | 17                              | 6                       | 208,017           | 11           |
| 325612     | Polish and other sanitation good manufacturing .....          | 547                            | 15                              | 5                       | 153,852           | 10           |
| 325613     | Surface active agent manufacturing .....                      | 2,158                          | 119                             | 84                      | 695,138           | 34           |
| 32562      | Toilet preparation manufacturing .....                        | 2,587                          | 25                              | 7                       | 272,900           | 18           |
| 325620     | Toilet preparation manufacturing .....                        | 2,587                          | 25                              | 7                       | 272,900           | 18           |
| 3259       | Other chemical product and preparation manufacturing .....    | 4,941                          | 105                             | 33                      | 1,253,327         | 72           |
| 32591      | Printing ink manufacturing .....                              | 1,029                          | 15                              | 4                       | 144,446           | 11           |
| 325910     | Printing ink manufacturing .....                              | 1,029                          | 15                              | 4                       | 144,446           | 11           |
| 32592      | Explosives manufacturing .....                                | 97                             | 3                               | 1                       | 27,655            | 2            |
| 325920     | Explosives manufacturing .....                                | 97                             | 3                               | 1                       | 27,655            | 2            |
| 32599      | All other chemical preparation manufacturing .....            | 3,814                          | 87                              | 28                      | 1,081,226         | 59           |
| 325991     | Custom compounding of purchased resins .....                  | 906                            | 21                              | 2                       | 329,133           | 19           |
| 325992     | Photographic film and chemical manufacturing .....            | 1,220                          | 30                              | 10                      | 330,840           | 20           |
| 325998     | Other miscellaneous chemical product manufacturing .....      | 1,688                          | 36                              | 16                      | 421,253           | 21           |
| 326        | <b>Plastics and rubber products manufacturing .....</b>       | <b>15,200</b>                  | <b>672</b>                      | <b>179</b>              | <b>9,981,009</b>  | <b>493</b>   |
| 3261       | Plastics product manufacturing .....                          | 9,670                          | 422                             | 92                      | 6,209,104         | 330          |
| 32611      | Plastics packaging materials, film and sheet .....            | 2,979                          | 166                             | 47                      | 2,391,066         | 120          |
| 326111     | Plastics bag manufacturing .....                              | 511                            | 22                              | 1                       | 435,702           | 21           |
| 326112     | Plastics packaging film and sheet manufacturing .....         | 593                            | 38                              | 11                      | 474,674           | 27           |
| 326113     | Nonpackaging plastics film and sheet manufacturing .....      | 1,875                          | 107                             | 35                      | 1,480,690         | 72           |
| 32612      | Plastics pipe, fittings, and profile shapes .....             | 1,628                          | 60                              | 6                       | 1,010,038         | 54           |
| 326121     | Unlaminated plastics profile shape manufacturing .....        | 583                            | 23                              | 4                       | 308,421           | 19           |
| 326122     | Plastics pipe and pipe fitting manufacturing .....            | 1,045                          | 37                              | 2                       | 701,617           | 35           |

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[Millions of dollars, except as noted]

| NAICS code | Industry  | Cost of materials <sup>1</sup> |                                 |              |                         |              |
|------------|---|--------------------------------|---------------------------------|--------------|-------------------------|--------------|
|            |   | Total                          | Of which:                       |              |                         |              |
|            |   |                                | Purchased fuels and electricity |              |                         | Electricity  |
|            |   |                                | Total                           | Fuels        | Quantity (thousand kWh) |              |
| 32613      | Laminated plastics plate, sheet, and shapes .....           | 131                            | 6                               | 2            | 59,452                  | 4            |
| 326130     | Laminated plastics plate, sheet, and shapes .....           | 131                            | 6                               | 2            | 59,452                  | 4            |
| 32614      | Polystyrene foam product manufacturing .....                | 210                            | 20                              | 13           | 116,741                 | 7            |
| 326140     | Polystyrene foam product manufacturing .....                | 210                            | 20                              | 13           | 116,741                 | 7            |
| 32615      | Urethane and other foam product manufacturing .....         | 415                            | 13                              | 4            | 132,709                 | 9            |
| 326150     | Urethane and other foam product manufacturing .....         | 415                            | 13                              | 4            | 132,709                 | 9            |
| 32616      | Plastics bottle manufacturing .....                         | 127                            | 9                               | *            | 154,615                 | 9            |
| 326160     | Plastics bottle manufacturing .....                         | 127                            | 9                               | *            | 154,615                 | 9            |
| 32619      | Other plastics product manufacturing .....                  | 4,179                          | 147                             | 19           | 2,344,483               | 128          |
| 326191     | Plastics plumbing fixture manufacturing .....               | (D)                            | (D)                             | (D)          | (D)                     | (D)          |
| 326192     | Resilient floor covering manufacturing .....                | (D)                            | (D)                             | (D)          | (D)                     | (D)          |
| 326199     | All other plastics product manufacturing .....              | 3,956                          | 137                             | 16           | 2,236,182               | 121          |
| 3262       | Rubber product manufacturing .....                          | 5,530                          | 250                             | 87           | 3,771,905               | 163          |
| 32621      | Tire manufacturing .....                                    | 3,429                          | 171                             | 64           | 2,671,360               | 107          |
| 326211     | Tire manufacturing, except retreading .....                 | 3,399                          | 170                             | 64           | 2,656,817               | 106          |
| 326212     | Tire retreading .....                                       | 30                             | 1                               | *            | 14,543                  | 1            |
| 32622      | Rubber and plastics hose and belting manufacturing .....    | 611                            | 27                              | 10           | 336,544                 | 17           |
| 326220     | Rubber and plastics hose and belting manufacturing .....    | 611                            | 27                              | 10           | 336,544                 | 17           |
| 32629      | Other rubber product manufacturing .....                    | 1,490                          | 52                              | 13           | 764,001                 | 39           |
| 326291     | Rubber product manufacturing, for mechanical use .....      | 676                            | 25                              | 8            | 319,949                 | 17           |
| 326299     | All other rubber product manufacturing .....                | 814                            | 28                              | 6            | 444,052                 | 22           |
| 327        | <b>Nonmetallic mineral product manufacturing .....</b>      | <b>11,603</b>                  | <b>1,911</b>                    | <b>1,055</b> | <b>18,162,159</b>       | <b>855</b>   |
| 3271       | Clay product and refractory manufacturing .....             | 784                            | 165                             | 114          | 974,241                 | 51           |
| 32711      | Pottery, ceramics, and plumbing fixture manufacturing ..... | 150                            | 14                              | 6            | 144,640                 | 8            |
| 327112     | Vitreous china and earthenware articles manufacturing ..... | 30                             | 4                               | 3            | 28,271                  | 1            |
| 327113     | Porcelain electrical supply manufacturing .....             | 120                            | 10                              | 3            | 116,369                 | 6            |
| 32712      | Clay building material and refractories manufacturing ..... | 634                            | 151                             | 108          | 829,601                 | 43           |
| 327121     | Brick and structural clay tile manufacturing .....          | 209                            | 104                             | 82           | 389,185                 | 22           |
| 327122     | Ceramic wall and floor tile manufacturing .....             | 110                            | 15                              | 10           | 111,959                 | 5            |
| 327123     | Other structural clay product manufacturing .....           | (D)                            | (D)                             | (D)          | (D)                     | (D)          |
| 327124     | Clay refractory manufacturing .....                         | (D)                            | (D)                             | (D)          | (D)                     | (D)          |
| 327125     | Nonclay refractory manufacturing .....                      | 155                            | 20                              | 8            | 260,666                 | 11           |
| 3272       | Glass and glass product manufacturing .....                 | 2,890                          | 435                             | 247          | 3,921,561               | 187          |
| 32721      | Glass and glass product manufacturing .....                 | 2,890                          | 435                             | 247          | 3,921,561               | 187          |
| 327211     | Flat glass manufacturing .....                              | 271                            | 104                             | 81           | 536,479                 | 23           |
| 327212     | Other pressed and blown glass and glassware .....           | 462                            | 104                             | 65           | 816,364                 | 40           |
| 327213     | Glass container manufacturing .....                         | 572                            | 155                             | 83           | 1,488,948               | 72           |
| 327215     | Glass product manufacturing, made of purchased glass .....  | 1,585                          | 71                              | 19           | 1,079,770               | 53           |
| 3273       | Cement and concrete product manufacturing .....             | 6,369                          | 973                             | 479          | 10,640,859              | 494          |
| 32731      | Cement manufacturing .....                                  | 2,153                          | 852                             | 421          | 9,755,747               | 431          |
| 327310     | Cement manufacturing .....                                  | 2,153                          | 852                             | 421          | 9,755,747               | 431          |
| 32732      | Ready-mix concrete manufacturing .....                      | 2,848                          | 52                              | 27           | 325,104                 | 25           |
| 327320     | Ready-mix concrete manufacturing .....                      | 2,848                          | 52                              | 27           | 325,104                 | 25           |
| 32733      | Concrete pipe, brick, and block manufacturing .....         | 743                            | 28                              | 12           | 235,653                 | 16           |
| 327331     | Concrete block and brick manufacturing .....                | 434                            | 15                              | 6            | 128,936                 | 9            |
| 327332     | Concrete pipe manufacturing .....                           | 309                            | 13                              | 6            | 106,717                 | 7            |
| 32739      | Other concrete product manufacturing .....                  | 624                            | 41                              | 19           | 324,355                 | 22           |
| 327390     | Other concrete product manufacturing .....                  | 624                            | 41                              | 19           | 324,355                 | 22           |
| 3274       | Lime and gypsum product manufacturing .....                 | 494                            | 176                             | 135          | 915,612                 | 41           |
| 32741      | Lime manufacturing .....                                    | 239                            | 110                             | 81           | 696,121                 | 29           |
| 327410     | Lime manufacturing .....                                    | 239                            | 110                             | 81           | 696,121                 | 29           |
| 32742      | Gypsum product manufacturing .....                          | 255                            | 66                              | 54           | 219,491                 | 12           |
| 327420     | Gypsum product manufacturing .....                          | 255                            | 66                              | 54           | 219,491                 | 12           |
| 3279       | Other nonmetallic mineral products .....                    | 1,066                          | 162                             | 80           | 1,709,886               | 82           |
| 32791      | Abrasive product manufacturing .....                        | 352                            | 29                              | 15           | 264,998                 | 15           |
| 327910     | Abrasive product manufacturing .....                        | 352                            | 29                              | 15           | 264,998                 | 15           |
| 32799      | All other nonmetallic mineral products manufacturing .....  | 715                            | 132                             | 65           | 1,444,888               | 67           |
| 327991     | Cut stone and stone product manufacturing .....             | 25                             | 2                               | *            | 24,079                  | 2            |
| 327992     | Ground or treated minerals and earths manufacturing .....   | 164                            | 27                              | 11           | 296,218                 | 17           |
| 327993     | Mineral wool manufacturing .....                            | 397                            | 96                              | 51           | 1,073,634               | 45           |
| 327999     | Miscellaneous nonmetallic mineral products .....            | 128                            | 7                               | 4            | 50,957                  | 3            |
| 331        | <b>Primary metal manufacturing .....</b>                    | <b>19,857</b>                  | <b>1,836</b>                    | <b>670</b>   | <b>33,401,312</b>       | <b>1,166</b> |
| 3311       | Iron and steel mills and ferroalloy manufacturing .....     | 7,012                          | 795                             | 380          | 11,425,770              | 415          |
| 33111      | Iron and steel mills and ferroalloy manufacturing .....     | 7,012                          | 795                             | 380          | 11,425,770              | 415          |
| 331111     | Iron and steel mills .....                                  | (D)                            | (D)                             | (D)          | (D)                     | (D)          |
| 331112     | Ferroalloy and related product manufacturing .....          | (D)                            | (D)                             | (D)          | (D)                     | (D)          |

Table M1.5. Cost of Materials of Foreign-Owned Establishments, by Detailed Industry

[Millions of dollars, except as noted]

| NAICS code | Industry  | Cost of materials <sup>1</sup> |                                 |            |                  |            |
|------------|---|--------------------------------|---------------------------------|------------|------------------|------------|
|            |   | Total                          | Of which:                       |            |                  |            |
|            |   |                                | Purchased fuels and electricity |            |                  | Cost       |
|            |   |                                | Total                           | Fuels      | Electricity      |            |
|            |   |                                | Quantity (thousand kWh)         |            |                  |            |
| 3312       | Steel product manufacturing, from purchased steel .....     | 1,781                          | 82                              | 28         | 1,098,179        | 54         |
| 33121      | Iron, steel pipe and tube from purchase steel .....         | 748                            | 20                              | 3          | 262,171          | 16         |
| 331210     | Iron, steel pipe and tube from purchase steel .....         | 748                            | 20                              | 3          | 262,171          | 16         |
| 33122      | Rolling and drawing of purchased steel .....                | 1,033                          | 63                              | 25         | 836,008          | 38         |
| 331221     | Rolled steel shape manufacturing .....                      | 597                            | 38                              | 17         | 442,779          | 21         |
| 331222     | Steel wire drawing .....                                    | 436                            | 25                              | 8          | 393,229          | 17         |
| 3313       | Alumina and aluminum production .....                       | 5,617                          | 545                             | 112        | 13,594,537       | 433        |
| 33131      | Alumina and aluminum production .....                       | 5,617                          | 545                             | 112        | 13,594,537       | 433        |
| 331312     | Primary aluminum production .....                           | 915                            | 372                             | 17         | 11,570,492       | 356        |
| 331314     | Secondary smelting and alloying of aluminum .....           | 761                            | 17                              | 11         | 125,514          | 6          |
| 331315     | Aluminum sheet, plate, and foil manufacturing .....         | 3,217                          | 126                             | 72         | 1,608,515        | 54         |
| 331316     | Aluminum extruded product manufacturing .....               | 527                            | 25                              | 10         | 243,154          | 15         |
| 331319     | Other aluminum rolling and drawing .....                    | 197                            | 4                               | 1          | 46,862           | 3          |
| 3314       | Other nonferrous metal production .....                     | 3,518                          | 217                             | 79         | 3,516,652        | 138        |
| 33141      | Other nonferrous metal production .....                     | 1,662                          | 123                             | 45         | 2,356,875        | 78         |
| 331411     | Primary smelting and refining of copper .....               | 1,208                          | 76                              | 36         | 1,114,771        | 40         |
| 331419     | Primary nonferrous metal, except copper and aluminum .....  | 455                            | 48                              | 9          | 1,242,104        | 39         |
| 33142      | Rolled, drawn, extruded, and alloyed copper .....           | 892                            | 39                              | 11         | 557,488          | 28         |
| 331421     | Copper rolling, drawing, and extruding .....                | 568                            | 30                              | 8          | 445,265          | 22         |
| 331422     | Copper wire, except mechanical, drawing .....               | (D)                            | (D)                             | (D)        | (D)              | (D)        |
| 331423     | Secondary processing of copper .....                        | (D)                            | (D)                             | (D)        | (D)              | (D)        |
| 33149      | Nonferrous metal, except copper and aluminum, shaping ..... | 964                            | 54                              | 23         | 602,289          | 31         |
| 331491     | Nonferrous metal, except copper and aluminum, shaping ..... | 622                            | 34                              | 14         | 412,543          | 20         |
| 331492     | Secondary processing of other nonferrous .....              | 342                            | 20                              | 9          | 189,746          | 11         |
| 3315       | Foundries .....   | 1,929                          | 197                             | 71         | 3,766,174        | 126        |
| 33151      | Ferrous metal foundries .....                               | 970                            | 143                             | 49         | 3,093,996        | 94         |
| 331511     | Iron foundries .....  | 556                            | 84                              | 38         | 1,154,150        | 46         |
| 331512     | Steel investment foundries .....                            | (D)                            | (D)                             | (D)        | (D)              | (D)        |
| 331513     | Steel foundries, except investment .....                    | (D)                            | (D)                             | (D)        | (D)              | (D)        |
| 33152      | Nonferrous metal foundries .....                            | 959                            | 54                              | 22         | 672,178          | 32         |
| 331521     | Aluminum die-casting foundries .....                        | 510                            | 24                              | 11         | 300,121          | 14         |
| 331522     | Nonferrous, except aluminum, die-casting foundries .....    | 108                            | 5                               | 1          | 88,984           | 4          |
| 331524     | Aluminum foundries, except die-casting .....                | 296                            | 22                              | 10         | 242,123          | 11         |
| 331525     | Copper foundries, except die-casting .....                  | (D)                            | (D)                             | (D)        | (D)              | (D)        |
| 331528     | Other nonferrous foundries, excluding die-casting .....     | (D)                            | (D)                             | (D)        | (D)              | (D)        |
| 332        | <b>Fabricated metal product manufacturing .....</b>         | <b>14,079</b>                  | <b>484</b>                      | <b>167</b> | <b>6,211,854</b> | <b>317</b> |
| 3321       | Forging and stamping .....                                  | 1,494                          | 69                              | 35         | 758,014          | 34         |
| 33211      | Forging and stamping .....                                  | 1,494                          | 69                              | 35         | 758,014          | 34         |
| 332111     | Iron and steel forging .....                                | 375                            | 24                              | 12         | 254,473          | 12         |
| 332112     | Nonferrous forging .....                                    | (D)                            | (D)                             | (D)        | (D)              | (D)        |
| 332114     | Custom roll forming .....                                   | 529                            | 17                              | 12         | 73,692           | 4          |
| 332115     | Crown and closure manufacturing .....                       | (D)                            | (D)                             | (D)        | (D)              | (D)        |
| 332116     | Metal stamping .....  | 336                            | 7                               | 1          | 85,991           | 6          |
| 332117     | Powder metallurgy part manufacturing .....                  | 108                            | 11                              | 4          | 248,791          | 7          |
| 3322       | Cutlery and handtool manufacturing .....                    | 534                            | 17                              | 3          | 223,575          | 14         |
| 33221      | Cutlery and handtool manufacturing .....                    | 534                            | 17                              | 3          | 223,575          | 14         |
| 332211     | Cutlery and flatware, except precious, manufacturing .....  | 95                             | 1                               | *          | 17,620           | 1          |
| 332212     | Hand and edge tool manufacturing .....                      | 240                            | 13                              | 3          | 170,768          | 10         |
| 332213     | Saw blade and handsaw manufacturing .....                   | (D)                            | (D)                             | (D)        | (D)              | (D)        |
| 332214     | Kitchen utensil, pot, and pan manufacturing .....           | (D)                            | (D)                             | (D)        | (D)              | (D)        |
| 3323       | Architectural and structural metals manufacturing .....     | 2,743                          | 50                              | 16         | 579,907          | 34         |
| 33231      | Plate work and fabricated structural products .....         | 1,097                          | 23                              | 7          | 287,208          | 15         |
| 332311     | Prefabricated metal buildings and components .....          | 215                            | 2                               | 1          | 25,904           | 2          |
| 332312     | Fabricated structural metal manufacturing .....             | 754                            | 18                              | 6          | 233,115          | 12         |
| 332313     | Plate work manufacturing .....                              | 127                            | 2                               | *          | 28,189           | 2          |
| 33232      | Ornamental and architectural metal products .....           | 1,646                          | 27                              | 9          | 292,699          | 18         |
| 332321     | Metal window and door manufacturing .....                   | 724                            | 11                              | 4          | 124,715          | 7          |
| 332322     | Sheet metal work manufacturing .....                        | 698                            | 11                              | 3          | 109,711          | 8          |
| 332323     | Ornamental and architectural metal work manufacturing ..... | 224                            | 5                               | 2          | 58,273           | 4          |
| 3324       | Boiler, tank, and shipping container manufacturing .....    | 1,882                          | 63                              | 22         | 743,326          | 42         |
| 33241      | Power boiler and heat exchanger manufacturing .....         | 262                            | 14                              | 7          | 127,894          | 8          |
| 332410     | Power boiler and heat exchanger manufacturing .....         | 262                            | 14                              | 7          | 127,894          | 8          |
| 33242      | Metal tank, heavy gauge, manufacturing .....                | 236                            | 4                               | 1          | 38,490           | 3          |
| 332420     | Metal tank, heavy gauge, manufacturing .....                | 236                            | 4                               | 1          | 38,490           | 3          |
| 33243      | Metal can, box, and other container manufacturing .....     | 1,384                          | 45                              | 14         | 576,942          | 31         |
| 332431     | Metal can manufacturing .....                               | 1,306                          | 42                              | 13         | 549,395          | 30         |
| 332439     | Other metal container manufacturing .....                   | 78                             | 3                               | 1          | 27,547           | 2          |

Table M1.5. Cost of Materials of Foreign-Owned Establishments, by Detailed Industry

[Millions of dollars, except as noted]

| NAICS code | Industry  | Cost of materials <sup>1</sup> |                                 |           |                  |            |
|------------|---|--------------------------------|---------------------------------|-----------|------------------|------------|
|            |   | Total                          | Of which:                       |           |                  |            |
|            |   |                                | Purchased fuels and electricity |           | Electricity      | Cost       |
|            |   |                                | Total                           | Fuels     |                  |            |
| 3325       | Hardware manufacturing .....  | 1,054                          | 26                              | 9         | 326,100          | 18         |
| 33251      | Hardware manufacturing .....  | 1,054                          | 26                              | 9         | 326,100          | 18         |
| 332510     | Hardware manufacturing .....  | 1,054                          | 26                              | 9         | 326,100          | 18         |
| 3326       | Spring and wire product manufacturing .....                         | 291                            | 10                              | 3         | 141,681          | 8          |
| 33261      | Spring and wire product manufacturing .....                         | 291                            | 10                              | 3         | 141,681          | 8          |
| 332611     | Spring, heavy gauge, manufacturing .....                            | 107                            | 4                               | 1         | 61,979           | 3          |
| 332612     | Spring, light gauge, manufacturing .....                            | 67                             | 2                               | *         | 21,737           | 1          |
| 332618     | Other fabricated wire product manufacturing .....                   | 117                            | 5                               | 1         | 57,965           | 4          |
| 3327       | Machine shops and threaded product manufacturing .....              | 755                            | 22                              | 5         | 264,730          | 17         |
| 33271      | Machine shops .....   | 468                            | 11                              | 2         | 131,095          | 9          |
| 332710     | Machine shops .....   | 468                            | 11                              | 2         | 131,095          | 9          |
| 33272      | Turned product and screw, nut, and bolt manufacturing .....         | 287                            | 11                              | 3         | 133,635          | 8          |
| 332721     | Precision turned product manufacturing .....                        | 52                             | 2                               | *         | 30,153           | 2          |
| 332722     | Bolt, nut, screw, rivet, and washer manufacturing .....             | 235                            | 9                               | 2         | 103,482          | 7          |
| 3328       | Coating, engraving, and heat treating metals .....                  | 2,034                          | 102                             | 45        | 1,409,220        | 57         |
| 33281      | Coating, engraving, and heat treating metals .....                  | 2,034                          | 102                             | 45        | 1,409,220        | 57         |
| 332811     | Metal heat treating .....   | 543                            | 38                              | 15        | 573,697          | 22         |
| 332812     | Metal coating and nonprecious engraving .....                       | 1,329                          | 60                              | 29        | 768,528          | 31         |
| 332813     | Electroplating, anodizing, and coloring metal .....                 | 162                            | 5                               | 1         | 66,995           | 4          |
| 3329       | Other fabricated metal product manufacturing .....                  | 3,292                          | 124                             | 29        | 1,765,301        | 95         |
| 33291      | Metal valve manufacturing .....                                     | 1,420                          | 44                              | 11        | 598,782          | 34         |
| 332911     | Industrial valve manufacturing .....                                | 730                            | 20                              | 4         | 285,964          | 16         |
| 332912     | Fluid power valve and hose fitting manufacturing .....              | 405                            | 8                               | 2         | 98,595           | 6          |
| 332913     | Plumbing fixture fitting and trim manufacturing .....               | 53                             | 1                               | *         | 12,701           | 1          |
| 332919     | Other metal valve and pipe fitting manufacturing .....              | 232                            | 16                              | 5         | 201,522          | 10         |
| 33299      | All other fabricated metal product manufacturing .....              | 1,872                          | 80                              | 18        | 1,166,519        | 61         |
| 332991     | Ball and roller bearing manufacturing .....                         | 1,052                          | 58                              | 12        | 906,708          | 46         |
| 332992     | Small arms ammunition manufacturing .....                           | (D)                            | (D)                             | (D)       | (D)              | (D)        |
| 332993     | Ammunition, except small arms, manufacturing .....                  | (D)                            | (D)                             | (D)       | (D)              | (D)        |
| 332994     | Small arms manufacturing .....                                      | (D)                            | (D)                             | (D)       | (D)              | (D)        |
| 332995     | Other ordnance and accessories manufacturing .....                  | (D)                            | (D)                             | (D)       | (D)              | (D)        |
| 332996     | Fabricated pipe and pipe fitting manufacturing .....                | 159                            | 3                               | 1         | 35,532           | 2          |
| 332997     | Industrial pattern manufacturing .....                              | (D)                            | (D)                             | (D)       | (D)              | (D)        |
| 332998     | Enameled iron and metal sanitary ware manufacturing .....           | (D)                            | (D)                             | (D)       | (D)              | (D)        |
| 332999     | Miscellaneous fabricated metal product manufacturing .....          | 524                            | 12                              | 3         | 158,179          | 9          |
| 333        | <b>Machinery manufacturing .....</b>                                | <b>24,103</b>                  | <b>318</b>                      | <b>78</b> | <b>4,049,697</b> | <b>240</b> |
| 3331       | Agriculture, construction, and mining machinery manufacturing ..... | 6,410                          | 59                              | 24        | 704,991          | 36         |
| 33311      | Agricultural implement manufacturing .....                          | 3,665                          | 34                              | 15        | 375,351          | 19         |
| 333111     | Farm machinery and equipment manufacturing .....                    | 1,350                          | 21                              | 11        | 186,127          | 10         |
| 333112     | Lawn and garden equipment manufacturing .....                       | 2,315                          | 13                              | 4         | 189,224          | 9          |
| 33312      | Construction machinery manufacturing .....                          | 2,316                          | 19                              | 7         | 248,878          | 12         |
| 333120     | Construction machinery manufacturing .....                          | 2,316                          | 19                              | 7         | 248,878          | 12         |
| 33313      | Mining and oil and gas field machinery manufacturing .....          | 429                            | 6                               | 2         | 80,762           | 5          |
| 333131     | Mining machinery and equipment manufacturing .....                  | 106                            | 1                               | *         | 14,093           | 1          |
| 333132     | Oil and gas field machinery and equipment .....                     | 322                            | 5                               | 1         | 66,669           | 4          |
| 3332       | Industrial machinery manufacturing .....                            | 2,485                          | 38                              | 7         | 469,887          | 31         |
| 33321      | Sawmill and woodworking machinery .....                             | (D)                            | (D)                             | (D)       | (D)              | (D)        |
| 333210     | Sawmill and woodworking machinery .....                             | (D)                            | (D)                             | (D)       | (D)              | (D)        |
| 33322      | Plastics and rubber industry machinery .....                        | (D)                            | (D)                             | (D)       | (D)              | (D)        |
| 333220     | Plastics and rubber industry machinery .....                        | (D)                            | (D)                             | (D)       | (D)              | (D)        |
| 33329      | Other industrial machinery manufacturing .....                      | 2,214                          | 34                              | 6         | 414,108          | 28         |
| 333291     | Paper industry machinery manufacturing .....                        | 248                            | 4                               | 1         | 54,457           | 4          |
| 333292     | Textile machinery manufacturing .....                               | 46                             | 2                               | *         | 27,264           | 1          |
| 333293     | Printing machinery and equipment manufacturing .....                | 570                            | 7                               | 2         | 87,286           | 5          |
| 333294     | Food product machinery manufacturing .....                          | 183                            | 2                               | *         | 33,735           | 2          |
| 333295     | Semiconductor machinery manufacturing .....                         | 575                            | 10                              | 1         | 117,779          | 9          |
| 333298     | All other industrial machinery manufacturing .....                  | 592                            | 8                               | 2         | 93,587           | 7          |
| 3333       | Commercial and service industry machinery .....                     | 1,580                          | 27                              | 3         | 312,334          | 24         |
| 33331      | Commercial and service industry machinery .....                     | 1,580                          | 27                              | 3         | 312,334          | 24         |
| 333311     | Automatic vending machine manufacturing .....                       | (D)                            | (D)                             | (D)       | (D)              | (D)        |
| 333312     | Commercial laundry and drycleaning machinery .....                  | (D)                            | (D)                             | (D)       | (D)              | (D)        |
| 333313     | Office machinery manufacturing .....                                | 215                            | 2                               | *         | 29,019           | 2          |
| 333314     | Optical instrument and lens manufacturing .....                     | 77                             | 1                               | *         | 17,391           | 1          |
| 333315     | Photographic and photocopying equipment manufacturing .....         | 342                            | 13                              | *         | 149,625          | 13         |
| 333319     | Other commercial and service machinery manufacturing .....          | 832                            | 9                               | 2         | 106,548          | 7          |
| 3334       | HVAC and commercial refrigeration equipment .....                   | 2,127                          | 32                              | 8         | 404,550          | 24         |
| 33341      | HVAC and commercial refrigeration equipment .....                   | 2,127                          | 32                              | 8         | 404,550          | 24         |
| 333411     | Air purification equipment manufacturing .....                      | 94                             | 4                               | 1         | 36,796           | 2          |
| 333412     | Industrial and commercial fan and blower manufacturing .....        | 151                            | 3                               | 1         | 40,838           | 2          |
| 333414     | Heating equipment, except warm air furnaces .....                   | 167                            | 4                               | 1         | 37,650           | 3          |
| 333415     | AC, refrigeration, and forced air heating .....                     | 1,714                          | 21                              | 5         | 289,266          | 16         |
| 3335       | Metalworking machinery manufacturing .....                          | 1,469                          | 27                              | 3         | 389,076          | 24         |



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[Millions of dollars, except as noted]

| NAICS code              | Industry  | Cost of materials <sup>1</sup> |                                 |           |                  |            |
|-------------------------|---|--------------------------------|---------------------------------|-----------|------------------|------------|
|                         |   | Total                          | Of which:                       |           |                  |            |
|                         |   |                                | Purchased fuels and electricity |           |                  | Cost       |
|                         |   |                                | Total                           | Fuels     | Electricity      |            |
| Quantity (thousand kWh) |   |                                |                                 |           |                  |            |
| 33351                   | Metalworking machinery manufacturing.....                   | 1,469                          | 27                              | 3         | 389,076          | 24         |
| 333511                  | Industrial mold manufacturing.....                          | 43                             | 2                               | *         | 27,220           | 2          |
| 333512                  | Metal cutting machine tool manufacturing.....               | 585                            | 5                               | 1         | 82,169           | 5          |
| 333513                  | Metal forming machine tool manufacturing.....               | 61                             | 1                               | *         | 13,514           | 1          |
| 333514                  | Special tool, die, jig, and fixture manufacturing.....      | 231                            | 5                               | 1         | 65,466           | 4          |
| 333515                  | Cutting tool and machine tool accessory manufacturing.....  | 224                            | 11                              | 1         | 143,913          | 10         |
| 333516                  | Rolling mill machinery and equipment manufacturing.....     | 16                             | *                               | *         | 3,491            | *          |
| 333518                  | Other metalworking machinery manufacturing.....             | 309                            | 3                               | 1         | 53,303           | 3          |
| 3336                    | Turbine and power transmission equipment manufacturing..... | 2,964                          | 50                              | 16        | 637,715          | 34         |
| 33361                   | Turbine and power transmission equipment manufacturing..... | 2,964                          | 50                              | 16        | 637,715          | 34         |
| 333611                  | Turbine and turbine generator set units manufacturing.....  | 570                            | 14                              | 5         | 176,823          | 9          |
| 333612                  | Speed changer, drive, and gear manufacturing.....           | 106                            | 2                               | *         | 25,872           | 1          |
| 333613                  | Mechanical power transmission equipment manufacturing.....  | 272                            | 7                               | 2         | 94,301           | 6          |
| 333618                  | Other engine equipment manufacturing.....                   | 2,016                          | 26                              | 9         | 340,719          | 18         |
| 3339                    | Other general purpose machinery manufacturing.....          | 7,067                          | 85                              | 17        | 1,131,144        | 68         |
| 33391                   | Pump and compressor manufacturing.....                      | 1,663                          | 23                              | 6         | 264,008          | 18         |
| 333911                  | Pump and pumping equipment manufacturing.....               | 538                            | 8                               | 2         | 98,313           | 6          |
| 333912                  | Air and gas compressor manufacturing.....                   | 897                            | 13                              | 4         | 132,880          | 9          |
| 333913                  | Measuring and dispensing pump manufacturing.....            | 228                            | 2                               | *         | 32,815           | 2          |
| 33392                   | Material handling equipment manufacturing.....              | 2,453                          | 20                              | 5         | 239,856          | 15         |
| 333921                  | Elevator and moving stairway manufacturing.....             | 395                            | 5                               | 1         | 57,343           | 4          |
| 333922                  | Conveyor and conveying equipment manufacturing.....         | 835                            | 6                               | 2         | 70,310           | 4          |
| 333923                  | Overhead cranes, hoists, and monorail systems.....          | 175                            | 2                               | *         | 26,578           | 2          |
| 333924                  | Industrial truck, trailer, and stacker manufacturing.....   | 1,048                          | 7                               | 2         | 85,625           | 5          |
| 33399                   | All other general purpose machinery manufacturing.....      | 2,952                          | 42                              | 6         | 627,280          | 36         |
| 333991                  | Power-driven handtool manufacturing.....                    | 448                            | 7                               | 1         | 111,041          | 6          |
| 333992                  | Welding and soldering equipment manufacturing.....          | 627                            | 11                              | 2         | 189,186          | 10         |
| 333993                  | Packaging machinery manufacturing.....                      | 370                            | 4                               | 1         | 49,334           | 3          |
| 333994                  | Industrial process furnace and oven manufacturing.....      | 45                             | 1                               | *         | 6,762            | *          |
| 333995                  | Fluid power cylinder and actuator manufacturing.....        | 84                             | 1                               | *         | 15,638           | 1          |
| 333996                  | Fluid power pump and motor manufacturing.....               | 568                            | 8                               | 1         | 117,474          | 7          |
| 333997                  | Scale and balance, except laboratory, manufacturing.....    | 24                             | *                               | *         | 3,859            | *          |
| 333999                  | Miscellaneous general purpose machinery manufacturing.....  | 785                            | 11                              | 2         | 133,986          | 9          |
| 334                     | <b>Computer and electronic product manufacturing.....</b>   | <b>28,071</b>                  | <b>450</b>                      | <b>77</b> | <b>6,413,201</b> | <b>374</b> |
| 3341                    | Computer and peripheral equipment manufacturing.....        | 4,726                          | 43                              | 5         | 581,263          | 38         |
| 33411                   | Computer and peripheral equipment manufacturing.....        | 4,726                          | 43                              | 5         | 581,263          | 38         |
| 334111                  | Electronic computer manufacturing.....                      | 3,504                          | 13                              | 3         | 153,669          | 10         |
| 334112                  | Computer storage device manufacturing.....                  | (D)                            | (D)                             | (D)       | (D)              | (D)        |
| 334113                  | Computer terminal manufacturing.....                        | (D)                            | (D)                             | (D)       | (D)              | (D)        |
| 334119                  | Other computer peripheral equipment manufacturing.....      | 839                            | 9                               | 1         | 135,920          | 7          |
| 3342                    | Communications equipment manufacturing.....                 | 6,190                          | 28                              | 4         | 291,982          | 25         |
| 33421                   | Telephone apparatus manufacturing.....                      | 555                            | 5                               | 1         | 45,655           | 4          |
| 334210                  | Telephone apparatus manufacturing.....                      | 555                            | 5                               | 1         | 45,655           | 4          |
| 33422                   | Broadcast and wireless communications equipment.....        | 5,051                          | 15                              | 2         | 182,566          | 14         |
| 334220                  | Broadcast and wireless communications equipment.....        | 5,051                          | 15                              | 2         | 182,566          | 14         |
| 33429                   | Other communications equipment manufacturing.....           | 583                            | 9                               | 1         | 63,761           | 7          |
| 334290                  | Other communications equipment manufacturing.....           | 583                            | 9                               | 1         | 63,761           | 7          |
| 3343                    | Audio and video equipment manufacturing.....                | 3,522                          | 25                              | 8         | 446,938          | 17         |
| 33431                   | Audio and video equipment manufacturing.....                | 3,522                          | 25                              | 8         | 446,938          | 17         |
| 334310                  | Audio and video equipment manufacturing.....                | 3,522                          | 25                              | 8         | 446,938          | 17         |
| 3344                    | Semiconductor and electronic component manufacturing.....   | 6,361                          | 235                             | 43        | 3,552,176        | 192        |
| 33441                   | Semiconductor and electronic component manufacturing.....   | 6,361                          | 235                             | 43        | 3,552,176        | 192        |
| 334411                  | Electron tube manufacturing.....                            | 994                            | 29                              | 10        | 421,066          | 19         |
| 334412                  | Bare printed circuit board manufacturing.....               | 206                            | 19                              | 5         | 194,599          | 14         |
| 334413                  | Semiconductors and related device manufacturing.....        | 3,005                          | 139                             | 22        | 2,255,442        | 117        |
| 334414                  | Electronic capacitor manufacturing.....                     | 386                            | 10                              | *         | 165,597          | 9          |
| 334415                  | Electronic resistor manufacturing.....                      | (D)                            | (D)                             | (D)       | (D)              | (D)        |
| 334416                  | Electronic coils, transformers, and inductors.....          | (D)                            | (D)                             | (D)       | (D)              | (D)        |
| 334417                  | Electronic connector manufacturing.....                     | 356                            | 11                              | 2         | 166,239          | 9          |
| 334418                  | Printed circuit assembly manufacturing.....                 | 856                            | 10                              | 1         | 131,104          | 9          |
| 334419                  | Other electronic component manufacturing.....               | 483                            | 15                              | 2         | 185,726          | 13         |
| 3345                    | Electronic instrument manufacturing.....                    | 6,085                          | 77                              | 11        | 976,157          | 66         |
| 33451                   | Electronic instrument manufacturing.....                    | 6,085                          | 77                              | 11        | 976,157          | 66         |
| 334510                  | Electromedical apparatus manufacturing.....                 | 1,779                          | 15                              | 3         | 205,994          | 12         |
| 334511                  | Search, detection, and navigation instruments.....          | 1,153                          | 23                              | 3         | 262,334          | 20         |
| 334512                  | Automatic environmental control manufacturing.....          | 325                            | 5                               | *         | 58,033           | 4          |
| 334513                  | Industrial process variable instruments.....                | 544                            | 10                              | 1         | 124,877          | 9          |
| 334514                  | Totalizing fluid meters and counting devices.....           | 596                            | 6                               | 1         | 89,363           | 5          |
| 334515                  | Electricity and signal testing instruments.....             | 317                            | 3                               | *         | 52,399           | 3          |
| 334516                  | Analytical laboratory instrument manufacturing.....         | 154                            | 1                               | *         | 18,892           | 1          |
| 334517                  | Irradiation apparatus manufacturing.....                    | 823                            | 5                               | *         | 48,973           | 4          |
| 334518                  | Watch, clock, and part manufacturing.....                   | 48                             | 1                               | *         | 15,186           | 1          |
| 334519                  | Other measuring and controlling device manufacturing.....   | 346                            | 8                               | 1         | 100,106          | 7          |

Table M1.5. Cost of Materials of Foreign-Owned Establishments, by Detailed Industry

[Millions of dollars, except as noted]

| NAICS code | Industry   | Cost of materials <sup>1</sup> |                                 |            |                         |             |
|------------|--|--------------------------------|---------------------------------|------------|-------------------------|-------------|
|            |  | Total                          | Of which:                       |            |                         |             |
|            |  |                                | Purchased fuels and electricity |            |                         | Electricity |
|            |  |                                | Total                           | Fuels      | Quantity (thousand kWh) |             |
| 3346       | Magnetic media manufacturing and reproducing.....            | 1,188                          | 41                              | 6          | 564,685                 | 35          |
| 33461      | Magnetic media manufacturing and reproducing.....            | 1,188                          | 41                              | 6          | 564,685                 | 35          |
| 334611     | Software reproducing.....                                    | (D)                            | (D)                             | (D)        | (D)                     | (D)         |
| 334612     | Audio and video media reproduction.....                      | 697                            | 30                              | 3          | 421,326                 | 26          |
| 334613     | Magnetic and optical recording media manufacturing.....      | (D)                            | (D)                             | (D)        | (D)                     | (D)         |
| 335        | <b>Electrical equipment and appliance manufacturing.....</b> | <b>11,397</b>                  | <b>216</b>                      | <b>56</b>  | <b>2,964,610</b>        | <b>159</b>  |
| 3351       | Electric lighting equipment manufacturing.....               | 889                            | 28                              | 10         | 353,835                 | 18          |
| 33511      | Electric lamp bulb and part manufacturing.....               | 477                            | 25                              | 9          | 314,156                 | 16          |
| 335110     | Electric lamp bulb and part manufacturing.....               | 477                            | 25                              | 9          | 314,156                 | 16          |
| 33512      | Lighting fixture manufacturing.....                          | 412                            | 3                               | 1          | 39,679                  | 2           |
| 335121     | Residential electric lighting fixture manufacturing.....     | 24                             | *                               | *          | 987                     | *           |
| 335122     | Nonresidential electric lighting fixture manufacturing.....  | 229                            | 2                               | *          | 24,814                  | 1           |
| 335129     | Other lighting equipment manufacturing.....                  | 159                            | 1                               | *          | 13,878                  | 1           |
| 3352       | Household appliance manufacturing.....                       | 3,068                          | 28                              | 8          | 402,009                 | 19          |
| 33521      | Small electrical appliance manufacturing.....                | 545                            | 4                               | *          | 65,027                  | 3           |
| 335211     | Electric housewares and household fan manufacturing.....     | (D)                            | (D)                             | (D)        | (D)                     | (D)         |
| 335212     | Household vacuum cleaner manufacturing.....                  | (D)                            | (D)                             | (D)        | (D)                     | (D)         |
| 33522      | Major appliance manufacturing.....                           | 2,523                          | 24                              | 8          | 336,982                 | 16          |
| 335221     | Household cooking appliance manufacturing.....               | (D)                            | (D)                             | (D)        | (D)                     | (D)         |
| 335222     | Household refrigerator and home freezer manufacturing.....   | 982                            | 9                               | 2          | 158,315                 | 7           |
| 335224     | Household laundry equipment manufacturing.....               | (D)                            | (D)                             | (D)        | (D)                     | (D)         |
| 335228     | Other major household appliance manufacturing.....           | 438                            | 8                               | 4          | 77,609                  | 4           |
| 3353       | Electrical equipment manufacturing.....                      | 4,222                          | 58                              | 15         | 781,624                 | 43          |
| 33531      | Electrical equipment manufacturing.....                      | 4,222                          | 58                              | 15         | 781,624                 | 43          |
| 335311     | Electric power and specialty transformer manufacturing.....  | 586                            | 15                              | 4          | 209,712                 | 11          |
| 335312     | Motor and generator manufacturing.....                       | 717                            | 16                              | 6          | 163,653                 | 9           |
| 335313     | Switchgear and switchboard apparatus manufacturing.....      | 1,592                          | 18                              | 3          | 276,028                 | 14          |
| 335314     | Relay and industrial control manufacturing.....              | 1,326                          | 10                              | 1          | 132,231                 | 9           |
| 3359       | Other electrical equipment and component manufacturing.....  | 3,218                          | 102                             | 23         | 1,427,142               | 79          |
| 33591      | Battery manufacturing.....                                   | 175                            | 5                               | 1          | 70,532                  | 4           |
| 335911     | Storage battery manufacturing.....                           | 44                             | 2                               | 1          | 25,438                  | 2           |
| 335912     | Primary battery manufacturing.....                           | 130                            | 3                               | *          | 45,094                  | 3           |
| 33592      | Communication and energy wire and cable manufacturing.....   | 1,210                          | 22                              | 4          | 311,064                 | 18          |
| 335921     | Fiber optic cable manufacturing.....                         | 320                            | 6                               | 1          | 111,417                 | 5           |
| 335929     | Other communication and energy wire manufacturing.....       | 891                            | 16                              | 3          | 199,647                 | 13          |
| 33593      | Wiring device manufacturing.....                             | 1,120                          | 31                              | 4          | 410,298                 | 28          |
| 335931     | Current-carrying wiring device manufacturing.....            | 700                            | 13                              | 2          | 178,198                 | 12          |
| 335932     | Noncurrent-carrying wiring device manufacturing.....         | 420                            | 18                              | 2          | 232,100                 | 16          |
| 33599      | Other electrical equipment and component manufacturing.....  | 712                            | 43                              | 13         | 635,248                 | 30          |
| 335991     | Carbon and graphite product manufacturing.....               | 351                            | 37                              | 12         | 566,950                 | 25          |
| 335999     | Miscellaneous electrical equipment manufacturing.....        | 361                            | 6                               | 1          | 68,298                  | 5           |
| 336        | <b>Transportation equipment manufacturing.....</b>           | <b>107,899</b>                 | <b>877</b>                      | <b>232</b> | <b>13,824,346</b>       | <b>645</b>  |
| 3361       | Motor vehicle manufacturing.....                             | 63,382                         | 285                             | 109        | 4,105,962               | 175         |
| 33611      | Automobile and light truck manufacturing.....                | 57,100                         | 263                             | 102        | 3,817,222               | 161         |
| 336111     | Automobile manufacturing.....                                | 28,766                         | 132                             | 51         | 2,053,033               | 81          |
| 336112     | Light truck and utility vehicle manufacturing.....           | 28,334                         | 131                             | 51         | 1,764,189               | 81          |
| 33612      | Heavy duty truck manufacturing.....                          | 6,282                          | 22                              | 8          | 288,740                 | 14          |
| 336120     | Heavy duty truck manufacturing.....                          | 6,282                          | 22                              | 8          | 288,740                 | 14          |
| 3362       | Motor vehicle body and trailer manufacturing.....            | 1,157                          | 8                               | 2          | 111,787                 | 6           |
| 33621      | Motor vehicle body and trailer manufacturing.....            | 1,157                          | 8                               | 2          | 111,787                 | 6           |
| 336211     | Motor vehicle body manufacturing.....                        | (D)                            | (D)                             | (D)        | (D)                     | (D)         |
| 336214     | Travel trailer and camper manufacturing.....                 | (D)                            | (D)                             | (D)        | (D)                     | (D)         |
| 3363       | Motor vehicle parts manufacturing.....                       | 36,566                         | 504                             | 104        | 8,533,793               | 400         |
| 33631      | Motor vehicle gasoline engine and parts manufacturing.....   | 8,824                          | 99                              | 20         | 1,702,102               | 79          |
| 336311     | Carburetor, piston, ring, and valve manufacturing.....       | 279                            | 13                              | 3          | 191,717                 | 10          |
| 336312     | Gasoline engine and engine parts manufacturing.....          | 8,545                          | 86                              | 17         | 1,510,385               | 69          |
| 33632      | Motor vehicle electric equipment.....                        | 4,025                          | 41                              | 6          | 561,547                 | 35          |
| 336321     | Vehicular lighting equipment manufacturing.....              | 522                            | 12                              | 2          | 177,133                 | 11          |
| 336322     | Other motor vehicle electric equipment manufacturing.....    | 3,502                          | 29                              | 5          | 384,414                 | 24          |
| 33633      | Motor vehicle steering and suspension parts.....             | 2,106                          | 27                              | 6          | 429,983                 | 22          |
| 336330     | Motor vehicle steering and suspension parts.....             | 2,106                          | 27                              | 6          | 429,983                 | 22          |
| 33634      | Motor vehicle brake system manufacturing.....                | 3,760                          | 43                              | 8          | 771,282                 | 35          |
| 336340     | Motor vehicle brake system manufacturing.....                | 3,760                          | 43                              | 8          | 771,282                 | 35          |
| 33635      | Motor vehicle power train components manufacturing.....      | 6,314                          | 100                             | 22         | 1,719,564               | 77          |
| 336350     | Motor vehicle power train components manufacturing.....      | 6,314                          | 100                             | 22         | 1,719,564               | 77          |
| 33636      | Motor vehicle seating and interior trim manufacturing.....   | 2,496                          | 23                              | 4          | 319,841                 | 19          |
| 336360     | Motor vehicle seating and interior trim manufacturing.....   | 2,496                          | 23                              | 4          | 319,841                 | 19          |
| 33637      | Motor vehicle metal stamping.....                            | 2,760                          | 59                              | 14         | 1,000,405               | 45          |
| 336370     | Motor vehicle metal stamping.....                            | 2,760                          | 59                              | 14         | 1,000,405               | 45          |
| 33639      | Other motor vehicle parts manufacturing.....                 | 6,281                          | 111                             | 22         | 2,029,069               | 89          |
| 336391     | Motor vehicle air-conditioning manufacturing.....            | 1,866                          | 41                              | 3          | 1,049,473               | 38          |

**Table M1.5. Cost of Materials of Foreign-Owned Establishments, by Detailed Industry**

[Millions of dollars, except as noted]

| NAICS code | Industry  | Cost of materials <sup>1</sup> |                                 |                         |                  |            |
|------------|---|--------------------------------|---------------------------------|-------------------------|------------------|------------|
|            |   | Total                          | Of which:                       |                         |                  |            |
|            |   |                                | Purchased fuels and electricity |                         |                  | Cost       |
|            |   |                                | Total                           | Fuels                   | Electricity      |            |
|            |   |                                |                                 | Quantity (thousand kWh) |                  |            |
| 336399     | All other motor vehicle parts manufacturing .....                 | 4,415                          | 71                              | 20                      | 979,596          | 51         |
| 3364       | Aerospace product and parts manufacturing .....                   | 4,205                          | 67                              | 13                      | 917,481          | 53         |
| 33641      | Aerospace product and parts manufacturing .....                   | 4,205                          | 67                              | 13                      | 917,481          | 53         |
| 336411     | Aircraft manufacturing.....                                       | 2,259                          | 9                               | 2                       | 96,045           | 7          |
| 336412     | Aircraft engine and engine parts manufacturing.....               | 1,009                          | 23                              | 6                       | 285,406          | 17         |
| 336413     | Other aircraft parts and equipment.....                           | 904                            | 32                              | 5                       | 514,413          | 27         |
| 336415     | Space vehicle propulsion units and parts manufacturing .....      | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 336419     | Other guided missile and space vehicle parts.....                 | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 3365       | Railroad rolling stock manufacturing.....                         | 382                            | 4                               | 1                       | 28,805           | 3          |
| 33651      | Railroad rolling stock manufacturing .....                        | 382                            | 4                               | 1                       | 28,805           | 3          |
| 336510     | Railroad rolling stock manufacturing.....                         | 382                            | 4                               | 1                       | 28,805           | 3          |
| 3366       | Ship and boat building .....                                      | 200                            | 3                               | 1                       | 27,205           | 2          |
| 33661      | Ship and boat building.....                                       | 200                            | 3                               | 1                       | 27,205           | 2          |
| 336611     | Ship building and repairing .....                                 | 20                             | 1                               | *                       | 11,715           | 1          |
| 336612     | Boat building .....   | 180                            | 2                               | 1                       | 15,490           | 1          |
| 3369       | Other transportation equipment manufacturing .....                | 2,007                          | 7                               | 2                       | 99,313           | 5          |
| 33699      | Other transportation equipment manufacturing.....                 | 2,007                          | 7                               | 2                       | 99,313           | 5          |
| 336991     | Motorcycle, bicycle, and parts manufacturing.....                 | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 336999     | All other transportation equipment manufacturing.....             | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 337        | <b>Furniture and related product manufacturing .....</b>          | <b>794</b>                     | <b>17</b>                       | <b>3</b>                | <b>189,650</b>   | <b>14</b>  |
| 3371       | Household and institutional furniture manufacturing .....         | 413                            | 9                               | 1                       | 86,599           | 7          |
| 33711      | Wood kitchen cabinet and countertop manufacturing .....           | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 337110     | Wood kitchen cabinet and countertop manufacturing.....            | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 33712      | Other household and institutional furniture .....                 | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 337121     | Upholstered household furniture manufacturing.....                | 304                            | 4                               | *                       | 37,583           | 3          |
| 337122     | Nonupholstered wood household furniture manufacturing .....       | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 337124     | Metal household furniture manufacturing .....                     | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 337125     | Household furniture, excluding wood or metal, manufacturing ..... | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 337127     | Institutional furniture manufacturing .....                       | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 337129     | Wood TV, radio, and sewing machine housings .....                 | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 3372       | Office furniture and fixtures manufacturing.....                  | 129                            | 6                               | 1                       | 63,617           | 4          |
| 33721      | Office furniture and fixtures manufacturing .....                 | 129                            | 6                               | 1                       | 63,617           | 4          |
| 337211     | Wood office furniture manufacturing.....                          | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 337214     | Office furniture, except wood, manufacturing .....                | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 337215     | Showcases, partitions, shelving, and lockers .....                | 67                             | 4                               | 1                       | 42,317           | 3          |
| 3379       | Other furniture related product manufacturing.....                | 252                            | 3                               | *                       | 39,434           | 3          |
| 33792      | Blind and shade manufacturing.....                                | 252                            | 3                               | *                       | 39,434           | 3          |
| 337920     | Blind and shade manufacturing .....                               | 252                            | 3                               | *                       | 39,434           | 3          |
| 339        | <b>Miscellaneous manufacturing .....</b>                          | <b>5,745</b>                   | <b>122</b>                      | <b>21</b>               | <b>1,607,362</b> | <b>102</b> |
| 3391       | Medical equipment and supplies manufacturing.....                 | 3,231                          | 63                              | 9                       | 869,810          | 55         |
| 33911      | Medical equipment and supplies manufacturing .....                | 3,231                          | 63                              | 9                       | 869,810          | 55         |
| 339111     | Laboratory apparatus and furniture manufacturing .....            | 140                            | 1                               | *                       | 14,328           | 1          |
| 339112     | Surgical and medical instrument manufacturing.....                | 1,432                          | 27                              | 4                       | 337,992          | 23         |
| 339113     | Surgical appliance and supplies manufacturing .....               | 815                            | 16                              | 3                       | 245,768          | 13         |
| 339114     | Dental equipment and supplies manufacturing.....                  | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 339115     | Ophthalmic goods manufacturing .....                              | 777                            | 18                              | 1                       | 262,655          | 17         |
| 339116     | Dental laboratories .....   | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 3399       | Other miscellaneous manufacturing .....                           | 2,514                          | 59                              | 12                      | 737,552          | 47         |
| 33991      | Jewelry and silverware manufacturing .....                        | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 339911     | Jewelry, except costume, manufacturing .....                      | 138                            | 1                               | *                       | 7,310            | 1          |
| 339913     | Jewelers' material and lapidary work manufacturing .....          | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 339914     | Costume jewelry and novelty manufacturing .....                   | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 33992      | Sporting and athletic goods manufacturing.....                    | 427                            | 6                               | 2                       | 90,925           | 4          |
| 339920     | Sporting and athletic goods manufacturing .....                   | 427                            | 6                               | 2                       | 90,925           | 4          |
| 33993      | Doll, toy, and game manufacturing .....                           | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 339932     | Game, toy, and children's vehicle manufacturing .....             | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 33994      | Office supplies, except paper, manufacturing.....                 | 407                            | 7                               | 1                       | 85,160           | 6          |
| 339941     | Pen and mechanical pencil manufacturing .....                     | 343                            | 6                               | 1                       | 76,102           | 5          |
| 339942     | Lead pencil and art good manufacturing .....                      | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 339943     | Marking device manufacturing .....                                | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 339944     | Carbon paper and inked ribbon manufacturing .....                 | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 33995      | Sign manufacturing .....  | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 339950     | Sign manufacturing.....   | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 33999      | All other miscellaneous manufacturing .....                       | 1,220                          | 43                              | 9                       | 531,154          | 34         |
| 339991     | Gasket, packing, and sealing device manufacturing.....            | 527                            | 24                              | 5                       | 268,178          | 20         |
| 339992     | Musical instrument manufacturing.....                             | 91                             | 2                               | *                       | 21,431           | 2          |
| 339993     | Fastener, button, needle, and pin manufacturing.....              | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 339994     | Broom, brush, and mop manufacturing .....                         | (D)                            | (D)                             | (D)                     | (D)              | (D)        |
| 339999     | All other miscellaneous manufacturing .....                       | 477                            | 7                               | 2                       | 64,069           | 4          |