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Full Report on Manufacturers' Shipments, Inventories and Orders October 2016

Summary

New orders for manufactured goods in October, up four consecutive months, increased \$12.5 billion or 2.7 percent to \$469.4 billion, the U.S. Census Bureau reported today. This followed a 0.6 percent September increase.

Shipments, up seven of the last eight months, increased \$1.7 billion or 0.4 percent to \$464.7 billion. This followed a 0.9 percent September increase.

Unfilled orders, up following four consecutive monthly decreases, increased \$8.2 billion or 0.7 percent to \$1,128.5 billion. This followed a 0.2 percent September decrease. The unfilled orders-to-shipments ratio was 6.78, up from 6.70 in September.

Inventories, up three of the last four months, increased \$0.3 billion or virtually unchanged to \$621.4 billion. This followed a 0.1 percent September decrease. The inventories-to-shipments ratio was 1.34, unchanged from September.

New Orders

New orders for manufactured durable goods in October, up four consecutive months, increased \$10.6 billion or 4.6 percent to \$238.8 billion, down from the previously published 4.8 percent increase. This followed a 0.3 percent September increase.

Transportation equipment, also up four consecutive months, led the increase, \$9.4 billion or 12.0 percent to \$88.1 billion.

New orders for manufactured nondurable goods increased \$2.0 billion or 0.9 percent to \$230.7 billion.

Shipments

Shipments of manufactured durable goods in October, down two of the last three months, decreased \$0.3 billion or 0.1 percent to \$234.1 billion, down from the previously published 0.1 percent increase. This followed a 0.8 percent September increase.

Transportation equipment, down three of the last four months, drove the decrease, \$1.2 billion or 1.5 percent to \$80.7 billion.

Shipments of manufactured nondurable goods, up seven of the last eight months, increased \$2.0 billion or 0.9 percent to \$230.7 billion. This followed a 0.9 percent September increase. Petroleum and coal products, also up seven of the last eight months, drove the increase, \$2.3 billion or 6.2 percent to \$39.3 billion.

Unfilled Orders

Unfilled orders for manufactured durable goods in October, up following four consecutive monthly decreases, increased \$8.2 billion or 0.7 percent to \$1,128.5 billion, virtually unchanged from the previously published increase. This followed a 0.2 percent September decrease.

Transportation equipment, also up following four consecutive monthly decreases, led the increase, \$7.4 billion or 1.0 percent to \$773.0 billion.

Inventories

Inventories of manufactured durable goods in October, up four consecutive months, increased less than \$0.1 billion or virtually unchanged to \$383.7 billion, virtually unchanged from the previously published increase. This followed a virtually unchanged September increase.

Transportation equipment, up three of the last four months, drove the increase, \$0.2 billion or 0.2 percent to \$123.8 billion.

Inventories of manufactured nondurable goods, up two of the last three months, increased \$0.3 billion or 0.1 percent to \$237.8 billion. This followed a 0.2 percent September decrease. Chemical products, up following two consecutive monthly decreases, drove the increase, \$0.3 billion or 0.4 percent to \$81.7 billion.

By stage of fabrication, October materials and supplies were virtually unchanged in durable goods and increased 0.6 percent in nondurable goods. Work in process decreased 0.2 percent in durable goods and decreased 0.7 percent in nondurable goods. Finished goods increased 0.3 percent in durable goods and increased 0.2 percent in nondurable goods.

Figures in text are adjusted for seasonality, but not for inflation. Figures on new and unfilled orders exclude data for semiconductor manufacturing. For data, call (301) 763-4673 or go to www.census.gov/m3. The Advance Report on durable goods for November is scheduled for release on December 22, 2016 at 8:30 a.m. EST and the Full Report on January 6, 2017 at 10:00 a.m. EST. See back page for survey description. To receive the latest updates on the Nation's key economic indicators, download the America's Economy app for Apple and Android smartphones and tablets.

“Virtually unchanged” indicates that the change is less than 0.05 percent for a percent increase or decrease.

Table 1. Value of Manufacturers' Shipments for Industry Groups¹

[Estimates are shown in millions of dollars and are based on data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

| Industry | Seasonally Adjusted | | | | | | Not Seasonally Adjusted | | | | | | |
|--|------------------------|------------------------|-----------|----------------|-------------|-------------|-------------------------|------------------------|-----------|--------------|-------------------|-----------|--------------------|
| | Monthly | | | Percent Change | | | Monthly | | | Year to date | | | |
| | Oct. 2016 ^p | Sep. 2016 ^f | Aug. 2016 | Sep. - Oct. | Aug. - Sep. | July - Aug. | Oct. 2016 ^p | Sep. 2016 ^f | Aug. 2016 | Oct. 2015 | 2016 ^p | 2015 | % Change 2016/2015 |
| All manufacturing industries..... | 464,722 | 463,070 | 459,111 | 0.4 | 0.9 | 0.2 | 470,263 | 484,161 | 480,925 | 474,515 | 4,613,063 | 4,722,154 | -2.3 |
| Excluding transportation..... | 384,061 | 381,213 | 378,875 | 0.7 | 0.6 | 0.4 | 389,184 | 395,350 | 396,577 | 390,214 | 3,801,099 | 3,912,055 | -2.8 |
| Excluding defense..... | 452,207 | 450,581 | 446,417 | 0.4 | 0.9 | 0.2 | 458,119 | 470,105 | 468,538 | 461,401 | 4,491,196 | 4,601,622 | -2.4 |
| With unfilled orders..... | 166,359 | 167,154 | 165,300 | -0.5 | 1.1 | -0.2 | 165,850 | 178,853 | 172,425 | 167,762 | 1,658,884 | 1,672,791 | -0.8 |
| Durable goods industries..... | 234,062 | 234,367 | 232,525 | -0.1 | 0.8 | 0.0 | 235,933 | 250,295 | 243,977 | 240,162 | 2,343,044 | 2,364,242 | -0.9 |
| Wood products..... | 8,499 | 8,419 | 8,330 | 1.0 | 1.1 | 0.8 | 8,898 | 8,816 | 9,036 | 8,395 | 84,782 | 81,560 | 4.0 |
| Nonmetallic mineral products..... | 9,979 | 9,893 | 9,890 | 0.9 | 0.0 | 0.5 | 10,708 | 10,716 | 11,223 | 10,475 | 100,891 | 96,520 | 4.5 |
| Primary metals..... | 17,716 | 17,759 | 17,751 | -0.2 | 0.0 | -0.7 | 17,954 | 18,252 | 18,963 | 18,702 | 180,498 | 197,516 | -8.6 |
| Iron and steel mills..... | 7,907 | 7,891 | 7,998 | 0.2 | -1.3 | -1.9 | 8,077 | 8,036 | 8,689 | 8,604 | 81,338 | 92,358 | -11.9 |
| Aluminum and nonferrous metals..... | 8,406 | 8,444 | 8,299 | -0.5 | 1.7 | 0.3 | 8,497 | 8,662 | 8,706 | 8,470 | 84,080 | 88,474 | -5.0 |
| Ferrous metal foundries..... | 1,403 | 1,424 | 1,454 | -1.5 | -2.1 | -0.1 | 1,380 | 1,554 | 1,568 | 1,628 | 15,080 | 16,684 | -9.6 |
| Fabricated metal products..... | 30,250 | 30,082 | 30,159 | 0.6 | -0.3 | 0.2 | 30,935 | 31,650 | 32,569 | 30,606 | 303,476 | 299,916 | 1.2 |
| Machinery..... | 30,073 | 30,070 | 29,896 | 0.0 | 0.6 | 0.6 | 29,816 | 31,098 | 30,316 | 31,657 | 304,493 | 325,042 | -6.3 |
| Farm machinery..... | 1,813 | 1,816 | 1,726 | -0.2 | 5.2 | -1.3 | 1,672 | 1,652 | 1,583 | 1,826 | 18,593 | 21,457 | -13.3 |
| Construction machinery..... | 2,639 | 2,565 | 2,496 | 2.9 | 2.8 | 2.8 | 2,785 | 2,539 | 2,462 | 3,620 | 27,538 | 37,146 | -25.9 |
| Mining, oil field, and gas field machinery..... | 895 | 978 | 891 | -8.5 | 9.8 | 7.3 | 912 | 1,017 | 900 | 1,520 | 9,770 | 17,636 | -44.6 |
| Industrial machinery..... | 2,371 | 2,283 | 2,449 | 3.9 | -6.8 | 1.0 | 2,401 | 2,618 | 2,338 | 2,613 | 23,931 | 23,837 | 0.4 |
| Photographic equipment..... | 403 | 397 | 420 | 1.5 | -5.5 | -0.2 | 413 | 431 | 433 | 470 | 4,158 | 4,218 | -1.4 |
| Ventilation, heating, air-conditioning, and refrigeration equipment..... | 3,486 | 3,472 | 3,565 | 0.4 | -2.6 | 3.4 | 3,163 | 3,732 | 3,887 | 3,333 | 35,224 | 35,894 | -1.9 |
| Metaworking machinery..... | 3,185 | 3,234 | 3,084 | -1.5 | 4.9 | -1.0 | 3,346 | 3,532 | 3,226 | 3,168 | 30,689 | 27,548 | 11.4 |
| Turbines, generators, and other power transmission equipment..... | 3,884 | 4,025 | 3,965 | -3.5 | 1.5 | -3.2 | 3,913 | 3,989 | 4,044 | 3,823 | 40,470 | 44,567 | -9.2 |
| Material handling equipment..... | 3,063 | 2,981 | 2,960 | 2.8 | 0.7 | -1.0 | 3,148 | 3,095 | 3,173 | 2,863 | 29,924 | 26,071 | 14.8 |
| Computers and electronic products ² | 27,549 | 27,262 | 27,433 | 1.1 | -0.6 | 0.6 | 27,392 | 30,360 | 27,680 | 26,093 | 266,463 | 257,171 | 3.6 |
| Computers..... | 616 | 569 | 612 | 8.3 | -7.0 | 1.5 | 611 | 657 | 585 | 694 | 5,935 | 7,757 | -23.5 |
| Computer storage devices..... | 583 | 478 | 593 | 22.0 | -19.4 | -14.4 | 433 | 725 | 476 | 407 | 5,374 | 5,312 | 1.2 |
| Other peripheral equipment..... | 614 | 607 | 643 | 1.2 | -5.6 | -1.4 | 525 | 743 | 564 | 659 | 6,327 | 7,857 | -19.5 |
| Nondefense communications equipment..... | 3,061 | 3,233 | 3,142 | -5.3 | 2.9 | 2.1 | 2,777 | 3,998 | 3,050 | 2,800 | 30,716 | 30,488 | 0.7 |
| Defense communications equipment..... | 282 | 299 | 337 | -5.7 | -11.3 | 14.6 | 283 | 344 | 330 | 343 | 2,902 | 3,130 | -7.3 |
| Audio and video equipment..... | 372 | 346 | 375 | 7.5 | -7.7 | 2.7 | 461 | 339 | 352 | 437 | 3,381 | 2,578 | 31.1 |
| Electronic components..... | 5,004 | 4,964 | 4,950 | 0.8 | 0.3 | 3.4 | 4,895 | 5,211 | 5,332 | 4,444 | 48,032 | 42,907 | 11.9 |
| Nondefense search and navigation equipment..... | 1,405 | 1,395 | 1,369 | 0.7 | 1.9 | -1.9 | 1,334 | 1,598 | 1,417 | 1,279 | 13,699 | 12,627 | 8.5 |
| Defense search and navigation equipment..... | 2,542 | 2,541 | 2,572 | 0.0 | -1.2 | -3.9 | 2,580 | 2,741 | 2,579 | 2,523 | 25,077 | 24,816 | 1.1 |
| Electromedical, measuring, and control instruments..... | 9,263 | 9,169 | 9,270 | 1.0 | -1.1 | 0.3 | 8,786 | 10,535 | 9,005 | 8,529 | 89,654 | 84,502 | 6.1 |
| Electrical equipment, appliances, and components..... | 9,694 | 9,567 | 9,598 | 1.3 | -0.3 | 0.8 | 9,828 | 10,241 | 10,123 | 10,161 | 95,586 | 102,356 | -6.6 |
| Electric lighting equipment..... | 1,052 | 1,034 | 1,091 | 1.7 | -5.2 | -0.6 | 1,116 | 1,075 | 1,149 | 1,138 | 10,592 | 10,224 | 3.6 |
| Household appliances..... | 1,429 | 1,412 | 1,388 | 1.2 | 1.7 | 1.8 | 1,478 | 1,508 | 1,448 | 1,561 | 13,997 | 15,545 | -10.0 |
| Electrical equipment..... | 2,913 | 2,898 | 2,910 | 0.5 | -0.4 | 1.0 | 2,802 | 3,200 | 3,028 | 2,984 | 29,529 | 32,289 | -8.5 |
| Batteries..... | 778 | 757 | 820 | 2.8 | -7.7 | 3.1 | 877 | 820 | 865 | 1,023 | 7,770 | 8,320 | -6.6 |
| Transportation equipment..... | 80,661 | 81,857 | 80,236 | -1.5 | 2.0 | -0.7 | 81,079 | 88,811 | 84,348 | 84,301 | 811,964 | 810,099 | 0.2 |
| Automobiles..... | 8,806 | 9,143 | 9,471 | -3.7 | -3.5 | 0.4 | 9,082 | 9,797 | 10,195 | 10,940 | 97,032 | 106,862 | -9.2 |
| Light trucks and utility vehicles..... | 15,666 | 15,357 | 15,265 | 2.0 | 0.6 | 1.8 | 16,462 | 16,835 | 16,731 | 16,651 | 153,935 | 149,072 | 3.3 |
| Heavy duty trucks..... | 1,979 | 2,085 | 2,050 | -5.1 | 1.7 | -2.3 | 2,067 | 2,220 | 2,142 | 2,858 | 22,526 | 27,217 | -17.2 |
| Motor vehicle bodies, parts, and trailers..... | 28,870 | 29,113 | 28,363 | -0.8 | 2.6 | 0.5 | 29,751 | 30,487 | 30,662 | 27,808 | 285,514 | 260,456 | 9.6 |
| Nondefense aircraft and parts..... | 13,595 | 14,112 | 12,974 | -3.7 | 8.8 | -7.5 | 12,139 | 15,783 | 12,737 | 12,371 | 133,368 | 138,417 | -3.6 |
| Defense aircraft and parts..... | 3,933 | 4,132 | 4,475 | -4.8 | -7.7 | 10.4 | 3,740 | 4,849 | 4,247 | 5,332 | 41,286 | 48,340 | -14.6 |
| Ships and boats..... | 2,964 | 3,118 | 3,143 | -4.9 | -0.8 | -0.3 | 3,053 | 3,306 | 3,107 | 3,077 | 30,444 | 28,004 | 8.7 |
| Furniture and related products..... | 6,382 | 6,353 | 6,292 | 0.5 | 1.0 | 0.4 | 6,278 | 6,586 | 6,789 | 6,242 | 63,400 | 61,093 | 3.8 |
| Miscellaneous durable goods..... | 13,259 | 13,105 | 12,940 | 1.2 | 1.3 | 0.1 | 13,045 | 13,765 | 12,930 | 13,530 | 131,491 | 132,969 | -1.1 |
| Nondurable goods industries..... | 230,660 | 228,703 | 226,586 | 0.9 | 0.9 | 0.5 | 234,330 | 233,866 | 236,948 | 234,353 | 2,270,019 | 2,357,912 | -3.7 |
| Food products..... | 64,630 | 64,940 | 65,011 | -0.5 | -0.1 | 0.1 | 68,012 | 66,712 | 66,389 | 68,414 | 645,185 | 643,433 | 0.3 |
| Grain and oilseed milling..... | 7,929 | 7,984 | 7,870 | -0.7 | 1.4 | -2.7 | 8,700 | 7,980 | 8,306 | 8,854 | 79,451 | 79,329 | 0.2 |
| Dairy products..... | 9,119 | 9,207 | 9,290 | -1.0 | -0.9 | 1.5 | 9,494 | 9,515 | 9,631 | 9,605 | 91,123 | 91,729 | -0.7 |
| Meat, poultry, and seafood products..... | 17,535 | 17,657 | 17,752 | -0.7 | -0.5 | -0.2 | 17,995 | 17,963 | 18,062 | 18,767 | 178,290 | 186,821 | -4.6 |
| Beverage and tobacco products..... | 12,405 | 12,386 | 12,640 | 0.2 | -2.0 | 1.3 | 12,231 | 12,853 | 13,220 | 12,390 | 123,117 | 122,254 | 0.7 |
| Beverages..... | 9,155 | 9,237 | 9,524 | -0.9 | -3.0 | 0.8 | 8,981 | 9,704 | 10,104 | 9,095 | 93,068 | 90,793 | 2.5 |
| Tobacco..... | 3,250 | 3,149 | 3,116 | 3.2 | 1.1 | 2.9 | 3,250 | 3,149 | 3,116 | 3,295 | 30,049 | 31,461 | -4.5 |
| Textile mills..... | 2,509 | 2,476 | 2,525 | 1.3 | -1.9 | 1.0 | 2,612 | 2,538 | 2,670 | 2,679 | 25,622 | 26,247 | -2.4 |
| Textile products..... | 2,014 | 1,990 | 2,018 | 1.2 | -1.4 | 1.8 | 2,042 | 1,970 | 2,131 | 2,084 | 20,203 | 20,786 | -2.8 |
| Apparel..... | 1,043 | 1,047 | 1,065 | -0.4 | -1.7 | -0.9 | 1,220 | 1,121 | 1,193 | 1,205 | 10,453 | 9,901 | 5.6 |
| Leather and allied products..... | 325 | 330 | 336 | -1.5 | -1.8 | 1.5 | 340 | 333 | 343 | 389 | 3,403 | 4,002 | -15.0 |
| Paper products..... | 15,149 | 15,164 | 15,096 | -0.1 | 0.5 | 0.5 | 15,518 | 15,440 | 15,871 | 15,805 | 152,850 | 153,131 | -0.2 |
| Pulp, paper, and paperboard mills..... | 6,693 | 6,722 | 6,683 | -0.4 | 0.6 | -0.2 | 6,780 | 6,822 | 7,063 | 7,024 | 67,910 | 68,844 | -1.4 |
| Paperboard containers..... | 4,683 | 4,686 | 4,648 | -0.1 | 0.8 | 1.5 | 4,832 | 4,820 | 4,940 | 4,845 | 47,131 | 46,678 | 1.0 |
| Printing..... | 7,074 | 7,140 | 7,171 | -0.9 | -0.4 | 0.8 | 7,384 | 7,461 | 7,401 | 7,675 | 71,406 | 71,494 | -0.1 |
| Petroleum and coal products..... | 39,266 | 36,978 | 35,597 | 6.2 | 3.9 | 1.8 | 39,815 | 37,560 | 38,688 | 39,028 | 354,091 | 456,159 | -22.4 |
| Petroleum refineries..... | 35,150 | 33,055 | 31,780 | 6.3 | 4.0 | 2.1 | 35,515 | 33,226 | 34,050 | 35,436 | 315,973 | 421,618 | -25.1 |
| Chemical products..... | 66,790 | 66,827 | 65,918 | -0.1 | 1.4 | 0.2 | 65,393 | 67,916 | 68,589 | 65,148 | 668,794 | 656,530 | 1.9 |
| Pesticides, fertilizers, and other agricultural chemicals..... | 4,127 | 4,141 | 4,239 | -0.3 | -2.3 | 2.5 | 2,924 | 3,653 | 3,684 | 2,971 | 42,435 | 40,086 | 5.9 |
| Pharmaceuticals and medicines..... | 21,845 | 21,796 | 21,381 | 0.2 | 1.9 | -0.5 | 21,814 | 22,349 | 22,295 | 21,099 | 216,697 | 193,329 | 12.1 |
| Paints, coatings, and adhesives..... | 3,709 | 3,658 | 3,642 | 1.4 | 0.4 | 0.7 | 3,671 | 3,746 | 3,931 | 3,534 | 37,565 | 35,041 | 7.2 |
| Plastics and rubber products..... | 19,455 | 19,425 | 19,209 | 0.2 | 1.1 | 0.0 | 19,763 | 19,962 | 20,453 | 19,536 | 194,895 | 193,975 | 0.5 |

^p Preliminary^f Revised data due to late receipts and concurrent seasonal adjustment.

¹ Estimates of shipments and new orders are for the duration of the period, while estimates of unfilled orders and total inventories are for the end of the period. Not seasonally adjusted estimates of shipments and new orders include adjusted data for non-calendar reporters. Seasonally adjusted estimates include concurrent adjustments for holiday and trading-day differences, where appropriate, as well as seasonal variation, based on the results of the latest annual review of the model parameters. Estimates are not adjusted for price changes. See note at end of Table 2 relating to survey error and revision.

² Estimates and percent changes of shipments for the semiconductor industry are included in computers and electronic products, and all other applicable aggregate totals.

Table 2. Value of Manufacturers' New Orders for Industry Groups¹

[Estimates are shown in millions of dollars and are based on data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

| Industry | Seasonally Adjusted | | | | | | Not Seasonally Adjusted | | | | | | |
|---|---------------------------|---------------------------|--------------|----------------|----------------|----------------|---------------------------|---------------------------|--------------|--------------|-------------------|-----------|---------------------------|
| | Monthly | | | Percent Change | | | Monthly | | | | Year to date | | |
| | Oct. 2016 ^P | Sep. 2016 ^f | Aug. 2016 | Sep. - Oct. | Aug. - Sep. | July - Aug. | Oct. 2016 ^P | Sep. 2016 ^f | Aug. 2016 | Oct. 2015 | 2016 ^P | 2015 | % Change 2016/ 2015 |
| All manufacturing industries ² | 469,419 | 456,907 | 454,056 | 2.7 | 0.6 | 0.4 | 472,714 | 474,982 | 467,452 | 470,472 | 4,557,407 | 4,651,677 | -2.0 |
| Excluding transportation ² | 381,332 | 378,229 | 375,953 | 0.8 | 0.6 | 0.3 | 384,917 | 390,798 | 390,113 | 385,661 | 3,775,867 | 3,878,045 | -2.6 |
| Excluding defense ² | 457,325 | 444,487 | 439,667 | 2.9 | 1.1 | -0.1 | 461,886 | 460,609 | 455,745 | 458,159 | 4,436,794 | 4,545,001 | -2.4 |
| With unfilled orders ² | 174,564 | 164,356 | 163,548 | 6.2 | 0.5 | 0.2 | 172,653 | 172,822 | 162,660 | 167,334 | 1,635,653 | 1,634,329 | 0.1 |
| Durable goods industries ² | 238,759 | 228,204 | 227,470 | 4.6 | 0.3 | 0.2 | 238,384 | 241,116 | 230,504 | 236,119 | 2,287,388 | 2,293,765 | -0.3 |
| Primary metals..... | 17,949 | 17,966 | 17,827 | -0.1 | 0.8 | 0.1 | 17,912 | 17,591 | 18,467 | 19,029 | 181,455 | 195,930 | -7.4 |
| Iron and steel mills..... | 8,215 | 8,088 | 8,167 | 1.6 | -1.0 | 0.5 | 8,069 | 7,391 | 8,398 | 8,786 | 82,550 | 91,061 | -9.3 |
| Aluminum and nonferrous metals..... | 8,294 | 8,368 | 8,198 | -0.9 | 2.1 | -1.2 | 8,429 | 8,628 | 8,567 | 8,664 | 83,464 | 88,441 | -5.6 |
| Ferrous metal foundries..... | 1,440 | 1,510 | 1,462 | -4.6 | 3.3 | 4.9 | 1,414 | 1,572 | 1,502 | 1,579 | 15,441 | 16,428 | -6.0 |
| Fabricated metal products..... | 30,631 | 30,078 | 30,223 | 1.8 | -0.5 | -0.2 | 30,605 | 30,761 | 32,019 | 29,549 | 305,592 | 298,389 | 2.4 |
| Machinery..... | 29,876 | 29,883 | 29,672 | 0.0 | 0.7 | 0.0 | 29,813 | 30,356 | 29,878 | 31,512 | 301,073 | 319,215 | -5.7 |
| Construction machinery..... | 2,541 | 2,387 | 2,316 | 6.5 | 3.1 | -2.9 | 2,753 | 2,285 | 2,376 | 3,376 | 25,806 | 33,779 | -23.6 |
| Mining, oil field, and gas field machinery..... | 792 | 932 | 836 | -15.0 | 11.5 | 5.7 | 862 | 926 | 895 | 1,266 | 7,414 | 15,783 | -53.0 |
| Industrial machinery..... | 2,147 | 2,133 | 2,369 | 0.7 | -10.0 | 6.0 | 2,206 | 2,375 | 2,162 | 2,577 | 23,017 | 23,204 | -0.8 |
| Photographic equipment..... | 417 | 459 | 475 | -9.2 | -3.4 | 14.7 | 430 | 512 | 497 | 495 | 4,206 | 4,480 | -6.1 |
| Ventilation, heating, air-conditioning, and refrigeration equipment..... | 3,322 | 3,291 | 3,291 | 0.9 | 0.0 | -9.1 | 3,031 | 3,589 | 3,498 | 3,404 | 34,737 | 36,534 | -4.9 |
| Metalworking machinery..... | 3,168 | 3,162 | 3,213 | 0.2 | -1.6 | 0.4 | 3,285 | 3,419 | 3,298 | 3,017 | 31,324 | 26,967 | 16.2 |
| Turbines, generators, and other power transmission equipment..... | 4,015 | 4,111 | 4,030 | -2.3 | 2.0 | -0.4 | 3,959 | 4,012 | 4,004 | 3,932 | 40,456 | 42,500 | -4.8 |
| Material handling equipment..... | 3,311 | 3,124 | 3,055 | 6.0 | 2.3 | -0.5 | 3,163 | 3,255 | 3,100 | 2,770 | 30,421 | 27,374 | 11.1 |
| Computers and electronic products ² | 24,267 | 24,075 | 24,427 | 0.8 | -1.4 | -0.2 | 23,370 | 28,043 | 23,127 | 22,640 | 239,208 | 231,956 | 3.1 |
| Computers..... | 618 | 592 | 615 | 4.4 | -3.7 | 3.4 | 613 | 680 | 588 | 719 | 5,911 | 7,872 | -24.9 |
| Nondefense communications equipment..... | 3,106 | 3,250 | 3,348 | -4.4 | -2.9 | -1.0 | 3,024 | 4,272 | 2,871 | 3,240 | 33,093 | 33,992 | -2.6 |
| Defense communications equipment..... | 292 | 287 | 281 | 1.7 | 2.1 | 6.0 | 259 | 346 | 261 | 299 | 2,918 | 3,211 | -9.1 |
| Electronic components..... | 5,011 | 4,998 | 4,900 | 0.3 | 2.0 | -0.5 | 4,939 | 5,106 | 5,354 | 4,542 | 48,225 | 43,409 | 11.1 |
| Nondefense search and navigation equipment..... | 1,478 | 1,476 | 1,452 | 0.1 | 1.7 | -3.2 | 1,482 | 1,678 | 1,466 | 1,545 | 14,710 | 14,957 | -1.7 |
| Defense search and navigation equipment..... | 2,467 | 2,472 | 2,667 | -0.2 | -7.3 | 10.5 | 2,246 | 2,957 | 2,343 | 2,144 | 25,666 | 23,996 | 7.0 |
| Electromedical, measuring, and control instruments..... | 9,427 | 9,273 | 9,286 | 1.7 | -0.1 | -1.2 | 9,033 | 10,876 | 8,570 | 8,285 | 90,662 | 85,590 | 5.9 |
| Electrical equipment, appliances, and components..... | 9,779 | 9,622 | 9,625 | 1.6 | 0.0 | -2.2 | 9,846 | 10,177 | 10,058 | 9,888 | 96,852 | 101,977 | -5.0 |
| Electric lighting equipment..... | 1,028 | 1,105 | 1,087 | -7.0 | 1.7 | 0.6 | 1,088 | 1,133 | 1,135 | 1,150 | 10,674 | 10,201 | 4.6 |
| Household appliances..... | 1,399 | 1,437 | 1,384 | -2.6 | 3.8 | -4.7 | 1,468 | 1,552 | 1,432 | 1,567 | 14,007 | 15,394 | -9.0 |
| Electrical equipment..... | 2,894 | 2,818 | 2,849 | 2.7 | -1.1 | -2.0 | 2,818 | 2,985 | 2,901 | 2,990 | 29,394 | 32,853 | -10.5 |
| Transportation equipment..... | 88,087 | 78,678 | 78,103 | 12.0 | 0.7 | 0.6 | 87,797 | 84,184 | 77,339 | 84,811 | 781,540 | 773,632 | 1.0 |
| Motor vehicle bodies, parts, and trailers..... | 28,754 | 28,964 | 28,321 | -0.7 | 2.3 | 1.0 | 29,445 | 30,367 | 30,873 | 27,534 | 282,976 | 259,072 | 9.2 |
| Nondefense aircraft and parts..... | 21,829 | 11,264 | 8,626 | 93.8 | 30.6 | -24.3 | 20,309 | 11,354 | 5,310 | 14,176 | 108,541 | 121,482 | -10.7 |
| Defense aircraft and parts..... | 3,677 | 2,776 | 5,251 | 32.5 | -47.1 | 18.2 | 3,637 | 3,276 | 4,064 | 6,420 | 41,630 | 44,184 | -5.8 |
| Ships and boats..... | 2,787 | 2,819 | 3,439 | -1.1 | -18.0 | 16.0 | 2,611 | 2,898 | 3,076 | 1,871 | 27,867 | 19,700 | 41.5 |
| Furniture and related products..... | 6,431 | 6,495 | 6,430 | -1.0 | 1.0 | 3.8 | 6,388 | 6,717 | 6,424 | 6,285 | 64,498 | 61,617 | 4.7 |
| Nondurable goods industries..... | 230,660 | 228,703 | 226,586 | 0.9 | 0.9 | 0.5 | 234,330 | 233,866 | 236,948 | 234,353 | 2,270,019 | 2,357,912 | -3.7 |

^P Preliminary^f Revised data due to late receipts and concurrent seasonal adjustment.

¹ Estimates of shipments and new orders are for the duration of the period, while estimates of unfilled orders and total inventories are for the end of the period. Not seasonally adjusted estimates of shipments and new orders include adjusted data for non-calendar reporters. Seasonally adjusted estimates include concurrent adjustments for holiday and trading-day differences, where appropriate, as well as seasonal variation, based on the results of the latest annual review of the model parameters. Estimates are not adjusted for price changes.

² Data on new orders are not available for the semiconductor industry. Estimates and percent changes for new orders exclude semiconductor industry data.

Note: Estimates of manufacturers' shipments, inventories and orders are subject to survey error and revision. One major component of survey error is nonsampling error, which includes errors of coverage, response, and nonreporting. Since the survey panel is not a probability sample, estimates of sampling error cannot be calculated. For further details on survey design, methodology, and data limitations see <<http://www.census.gov/manufacturing/m3/>>.

Table 3. Value of Manufacturers' Unfilled Orders for Industry Groups¹

[Estimates are shown in millions of dollars and are based on data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

| Industry | Seasonally Adjusted | | | | | | Not Seasonally Adjusted | | | | % Change October 2016/ 2015 |
|---|---------------------------|---------------------------|--------------|----------------|----------------|----------------|---------------------------|---------------------------|--------------|--------------|--------------------------------------|
| | Monthly | | | Percent Change | | | Monthly | | | | |
| | Oct. 2016 ⁹ | Sep. 2016 ^r | Aug. 2016 | Sep. - Oct. | Aug. - Sep. | July - Aug. | Oct. 2016 ⁹ | Sep. 2016 ^r | Aug. 2016 | Oct. 2015 | |
| All manufacturing industries ² | 1,128,492 | 1,120,287 | 1,123,085 | 0.7 | -0.2 | -0.2 | 1,116,469 | 1,109,666 | 1,115,697 | 1,129,107 | -1.1 |
| Excluding transportation ² | 355,447 | 354,668 | 354,287 | 0.2 | 0.1 | 0.1 | 352,035 | 351,950 | 353,354 | 349,481 | 0.7 |
| Excluding defense ² | 954,600 | 945,974 | 948,703 | 0.9 | -0.3 | -0.4 | 944,506 | 936,387 | 942,735 | 959,835 | -1.6 |
| Durable goods industries ² | 1,128,492 | 1,120,287 | 1,123,085 | 0.7 | -0.2 | -0.2 | 1,116,469 | 1,109,666 | 1,115,697 | 1,129,107 | -1.1 |
| Primary metals..... | 32,928 | 32,695 | 32,488 | 0.7 | 0.6 | 0.2 | 31,570 | 31,612 | 32,273 | 31,529 | 0.1 |
| Iron and steel mills..... | 18,818 | 18,510 | 18,313 | 1.7 | 1.1 | 0.9 | 17,572 | 17,580 | 18,225 | 15,932 | 10.3 |
| Aluminum and nonferrous metals..... | 10,201 | 10,313 | 10,389 | -1.1 | -0.7 | -1.0 | 10,200 | 10,268 | 10,302 | 12,132 | -15.9 |
| Ferrous metal foundries..... | 3,909 | 3,872 | 3,786 | 1.0 | 2.3 | 0.2 | 3,798 | 3,764 | 3,746 | 3,465 | 9.6 |
| Fabricated metal products..... | 74,513 | 74,132 | 74,136 | 0.5 | 0.0 | 0.1 | 73,563 | 73,893 | 74,782 | 72,587 | 1.3 |
| Machinery..... | 92,175 | 92,372 | 92,559 | -0.2 | -0.2 | -0.2 | 91,536 | 91,539 | 92,281 | 97,890 | -6.5 |
| Construction machinery..... | 3,835 | 3,933 | 4,111 | -2.5 | -4.3 | -4.2 | 3,663 | 3,695 | 3,949 | 5,503 | -33.4 |
| Mining, oil field, and gas field machinery..... | 5,748 | 5,851 | 5,897 | -1.8 | -0.8 | -0.9 | 5,814 | 5,864 | 5,955 | 9,775 | -40.5 |
| Industrial machinery..... | 7,053 | 7,277 | 7,427 | -3.1 | -2.0 | -1.1 | 7,003 | 7,198 | 7,441 | 8,413 | -16.8 |
| Photographic equipment..... | 1,300 | 1,286 | 1,224 | 1.1 | 5.1 | 4.7 | 1,323 | 1,306 | 1,225 | 1,408 | -6.0 |
| Ventilation, heating, air-conditioning, and refrigeration equipment..... | 5,903 | 6,067 | 6,248 | -2.7 | -2.9 | -4.2 | 5,841 | 5,973 | 6,116 | 6,248 | -6.5 |
| Metalworking machinery..... | 7,360 | 7,377 | 7,449 | -0.2 | -1.0 | 1.8 | 7,254 | 7,315 | 7,428 | 6,581 | 10.2 |
| Turbines, generators, and other power transmission equipment..... | 25,857 | 25,726 | 25,640 | 0.5 | 0.3 | 0.3 | 25,678 | 25,632 | 25,609 | 25,561 | 0.5 |
| Material handling equipment..... | 12,480 | 12,232 | 12,089 | 2.0 | 1.2 | 0.8 | 12,130 | 12,115 | 11,955 | 11,179 | 8.5 |
| Computers and electronic products ² | 129,520 | 129,294 | 129,116 | 0.2 | 0.1 | 0.2 | 129,361 | 129,031 | 128,200 | 123,169 | 5.0 |
| Computers..... | 2,423 | 2,421 | 2,398 | 0.1 | 1.0 | 0.1 | 2,423 | 2,421 | 2,398 | 2,395 | 1.2 |
| Nondefense communications equipment..... | 32,862 | 32,817 | 32,800 | 0.1 | 0.1 | 0.6 | 32,902 | 32,655 | 32,381 | 30,218 | 8.9 |
| Defense communications equipment..... | 2,243 | 2,233 | 2,245 | 0.4 | -0.5 | -2.4 | 2,253 | 2,277 | 2,275 | 2,370 | -4.9 |
| Electronic components..... | 12,161 | 12,154 | 12,120 | 0.1 | 0.3 | -0.4 | 12,147 | 12,103 | 12,208 | 11,899 | 2.1 |
| Nondefense search and navigation equipment..... | 17,978 | 17,905 | 17,824 | 0.4 | 0.5 | 0.5 | 18,136 | 17,988 | 17,908 | 17,142 | 5.8 |
| Defense search and navigation equipment..... | 28,189 | 28,264 | 28,333 | -0.3 | -0.2 | 0.3 | 27,944 | 28,278 | 28,062 | 27,001 | 3.5 |
| Electromedical, measuring, and control instruments..... | 33,664 | 33,500 | 33,396 | 0.5 | 0.3 | 0.0 | 33,556 | 33,309 | 32,968 | 32,144 | 4.4 |
| Electrical equipment, appliances, and components..... | 17,808 | 17,723 | 17,668 | 0.5 | 0.3 | 0.2 | 17,569 | 17,551 | 17,615 | 16,373 | 7.3 |
| Electric lighting equipment..... | 1,366 | 1,390 | 1,319 | -1.7 | 5.4 | -0.3 | 1,350 | 1,378 | 1,320 | 1,250 | 8.0 |
| Household appliances..... | 1,185 | 1,215 | 1,190 | -2.5 | 2.1 | -0.3 | 1,161 | 1,171 | 1,127 | 1,069 | 8.6 |
| Electrical equipment..... | 7,789 | 7,808 | 7,888 | -0.2 | -1.0 | -0.8 | 7,728 | 7,712 | 7,927 | 7,981 | -3.2 |
| Transportation equipment..... | 773,045 | 765,619 | 768,798 | 1.0 | -0.4 | -0.3 | 764,434 | 757,716 | 762,343 | 779,626 | -1.9 |
| Motor vehicle bodies, parts, and trailers..... | 21,687 | 21,803 | 21,952 | -0.5 | -0.7 | -0.2 | 21,021 | 21,327 | 21,447 | 22,611 | -7.0 |
| Nondefense aircraft and parts..... | 592,100 | 583,866 | 586,714 | 1.4 | -0.5 | -0.7 | 585,809 | 577,639 | 582,068 | 598,964 | -2.2 |
| Defense aircraft and parts..... | 69,913 | 70,169 | 71,525 | -0.4 | -1.9 | 1.1 | 68,962 | 69,065 | 70,638 | 65,850 | 4.7 |
| Ships and boats..... | 16,355 | 16,532 | 16,831 | -1.1 | -1.8 | 1.8 | 16,013 | 16,455 | 16,863 | 20,086 | -20.3 |
| Furniture and related products..... | 8,259 | 8,210 | 8,068 | 0.6 | 1.8 | 1.7 | 8,192 | 8,082 | 7,951 | 7,694 | 6.5 |

⁹ Preliminary ^r Revised data due to late receipts and concurrent seasonal adjustment.¹ Estimates of shipments and new orders are for the duration of the period, while estimates of unfilled orders and total inventories are for the end of the period. Not seasonally adjusted estimates of shipments and new orders include adjusted data for non-calendar reporters. Seasonally adjusted estimates include concurrent adjustments for holiday and trading-day differences, where appropriate, as well as seasonal variation, based on the results of the latest annual review of the model parameters. Estimates are not adjusted for price changes.² Data on unfilled orders are not available for the semiconductor industry. Estimates and percent changes for unfilled orders exclude semiconductor industry data.

See note at end of Table 2 relating to survey error and revision.

Table 4. Value of Manufacturers' Inventories for Industry Groups¹

[Estimates are shown in millions of dollars and are based on data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

| Industry | Seasonally Adjusted | | | | | | Not Seasonally Adjusted | | | | % Change October 2016/ 2015 |
|---|---------------------------|---------------------------|--------------|----------------|----------------|----------------|---------------------------|---------------------------|--------------|--------------|--------------------------------------|
| | Monthly | | | Percent Change | | | Monthly | | | | |
| | Oct. 2016 ² | Sep. 2016 ² | Aug. 2016 | Sep. - Oct. | Aug. - Sep. | July - Aug. | Oct. 2016 ² | Sep. 2016 ² | Aug. 2016 | Oct. 2015 | |
| All manufacturing industries..... | 621,438 | 621,128 | 621,552 | 0.0 | -0.1 | 0.1 | 626,401 | 620,659 | 626,826 | 634,867 | -1.3 |
| Excluding transportation..... | 497,593 | 497,493 | 497,959 | 0.0 | -0.1 | 0.2 | 502,118 | 497,616 | 502,410 | 509,515 | -1.5 |
| Excluding defense..... | 595,562 | 595,634 | 596,000 | 0.0 | -0.1 | 0.2 | 600,674 | 595,227 | 601,188 | 609,129 | -1.4 |
| With unfilled orders..... | 311,733 | 311,748 | 311,286 | 0.0 | 0.1 | 0.1 | 312,010 | 310,521 | 314,287 | 317,527 | -1.7 |
| Durable goods industries..... | 383,666 | 383,629 | 383,467 | 0.0 | 0.0 | 0.1 | 383,936 | 381,889 | 386,776 | 388,972 | -1.3 |
| Wood products..... | 11,430 | 11,402 | 11,384 | 0.2 | 0.2 | 0.9 | 11,375 | 11,302 | 11,281 | 11,277 | 0.9 |
| Nonmetallic mineral products..... | 13,139 | 13,123 | 13,113 | 0.1 | 0.1 | 0.6 | 12,789 | 12,897 | 13,013 | 12,411 | 3.0 |
| Primary metals..... | 31,643 | 31,609 | 31,718 | 0.1 | -0.3 | 0.2 | 31,664 | 31,627 | 31,938 | 34,138 | -7.2 |
| Iron and steel mills..... | 17,321 | 17,297 | 17,377 | 0.1 | -0.5 | 0.7 | 17,472 | 17,424 | 17,516 | 19,419 | -10.0 |
| Aluminum and nonferrous metals..... | 12,303 | 12,299 | 12,298 | 0.0 | 0.0 | -0.2 | 12,210 | 12,247 | 12,371 | 12,670 | -3.6 |
| Ferrous metal foundries..... | 2,019 | 2,013 | 2,043 | 0.3 | -1.5 | -1.6 | 1,982 | 1,956 | 2,051 | 2,049 | -3.3 |
| Fabricated metal products..... | 48,981 | 48,939 | 48,886 | 0.1 | 0.1 | -0.5 | 48,641 | 48,588 | 48,902 | 49,107 | -0.9 |
| Machinery..... | 65,416 | 65,760 | 65,645 | -0.5 | 0.2 | 0.5 | 65,488 | 65,653 | 66,467 | 67,324 | -2.7 |
| Farm machinery..... | 3,110 | 3,048 | 2,967 | 2.0 | 2.7 | 2.6 | 2,839 | 2,826 | 2,871 | 3,017 | -5.9 |
| Construction machinery..... | 5,413 | 5,483 | 5,554 | -1.3 | -1.3 | 1.3 | 5,477 | 5,522 | 5,535 | 6,027 | -9.1 |
| Mining, oil field, and gas field machinery..... | 7,357 | 7,391 | 7,364 | -0.5 | 0.4 | 1.8 | 7,251 | 7,384 | 7,488 | 7,591 | -4.5 |
| Industrial machinery..... | 6,328 | 6,452 | 6,439 | -1.9 | 0.2 | 0.9 | 6,345 | 6,499 | 6,489 | 6,332 | 0.2 |
| Photographic equipment..... | 1,615 | 1,590 | 1,563 | 1.6 | 1.7 | -1.3 | 1,628 | 1,604 | 1,619 | 1,566 | 4.0 |
| Ventilation, heating, air-conditioning, and refrigeration equipment..... | 4,526 | 4,582 | 4,431 | -1.2 | 3.4 | 2.1 | 4,457 | 4,442 | 4,410 | 4,509 | -1.2 |
| Metalworking machinery..... | 5,829 | 5,729 | 5,692 | 1.7 | 0.7 | 0.1 | 5,862 | 5,796 | 5,817 | 5,685 | 3.1 |
| Turbines, generators, and other power transmission equipment..... | 9,021 | 9,275 | 9,278 | -2.7 | 0.0 | -1.1 | 9,322 | 9,367 | 9,565 | 10,151 | -8.2 |
| Material handling equipment..... | 4,681 | 4,657 | 4,633 | 0.5 | 0.5 | 0.4 | 4,807 | 4,787 | 4,806 | 4,542 | 5.8 |
| Computers and electronic products ² | 42,475 | 42,471 | 42,651 | 0.0 | -0.4 | 0.2 | 42,648 | 42,122 | 43,524 | 42,862 | -0.5 |
| Computers..... | 1,596 | 1,619 | 1,642 | -1.4 | -1.4 | 3.3 | 1,601 | 1,689 | 1,750 | 1,461 | 9.6 |
| Computer storage devices..... | 945 | 1,003 | 995 | -5.8 | 0.8 | 1.1 | 994 | 1,016 | 1,028 | 1,078 | -7.8 |
| Other peripheral equipment..... | 1,006 | 1,026 | 1,061 | -1.9 | -3.3 | 2.6 | 1,007 | 989 | 1,098 | 1,045 | -3.6 |
| Nondefense communications equipment..... | 3,924 | 3,924 | 3,986 | 0.0 | -1.6 | 0.4 | 3,957 | 3,857 | 4,078 | 4,234 | -6.5 |
| Defense communications equipment..... | 556 | 549 | 565 | 1.3 | -2.8 | -6.1 | 556 | 549 | 565 | 754 | -26.3 |
| Audio and video equipment..... | 673 | 675 | 792 | -0.3 | -14.8 | -0.1 | 758 | 757 | 854 | 842 | -10.0 |
| Electronic components..... | 7,774 | 7,693 | 7,660 | 1.1 | 0.4 | -0.3 | 7,744 | 7,559 | 7,709 | 7,495 | 3.3 |
| Nondefense search and navigation equipment..... | 3,072 | 3,084 | 3,069 | -0.4 | 0.5 | 0.5 | 3,123 | 3,085 | 3,123 | 3,126 | -0.1 |
| Defense search and navigation equipment..... | 3,076 | 3,080 | 3,024 | -0.1 | 1.9 | 2.3 | 3,034 | 3,009 | 3,045 | 2,723 | 11.4 |
| Electromedical, measuring and control instruments..... | 14,107 | 14,146 | 14,051 | -0.3 | 0.7 | 0.0 | 14,143 | 13,994 | 14,453 | 14,573 | -3.0 |
| Electrical equipment, appliances, and components..... | 16,337 | 16,362 | 16,210 | -0.2 | 0.9 | -0.9 | 16,378 | 16,172 | 16,479 | 16,624 | -1.5 |
| Electric lighting equipment..... | 2,049 | 2,042 | 2,001 | 0.3 | 2.0 | 0.0 | 2,042 | 2,039 | 2,035 | 1,934 | 5.6 |
| Household appliances..... | 2,248 | 2,246 | 2,240 | 0.1 | 0.3 | 0.9 | 2,313 | 2,262 | 2,330 | 2,331 | -0.8 |
| Electrical equipment..... | 4,845 | 4,860 | 4,868 | -0.3 | -0.2 | 0.1 | 4,820 | 4,612 | 4,905 | 5,006 | -3.7 |
| Batteries..... | 1,296 | 1,328 | 1,306 | -2.4 | 1.7 | -0.7 | 1,327 | 1,396 | 1,398 | 1,407 | -5.7 |
| Transportation equipment..... | 123,845 | 123,635 | 123,593 | 0.2 | 0.0 | -0.1 | 124,283 | 123,043 | 124,416 | 125,352 | -0.9 |
| Automobiles..... | 4,207 | 4,303 | 4,361 | -2.2 | -1.3 | -6.9 | 4,367 | 4,333 | 4,398 | 4,725 | -7.6 |
| Light trucks and utility vehicles..... | 4,404 | 4,417 | 4,392 | -0.3 | 0.6 | 2.5 | 4,572 | 4,365 | 4,418 | 4,327 | 5.7 |
| Heavy duty trucks..... | 1,906 | 1,878 | 2,028 | 1.5 | -7.4 | -3.0 | 1,926 | 1,830 | 2,033 | 2,060 | -6.5 |
| Motor vehicle bodies, parts, and trailers..... | 24,081 | 23,947 | 23,940 | 0.6 | 0.0 | 0.3 | 24,075 | 23,817 | 24,118 | 23,582 | 2.1 |
| Nondefense aircraft and parts..... | 62,531 | 62,765 | 62,426 | -0.4 | 0.5 | 0.5 | 62,562 | 62,238 | 62,707 | 63,882 | -2.1 |
| Defense aircraft and parts..... | 11,218 | 11,090 | 11,285 | 1.2 | -1.7 | -2.3 | 11,205 | 11,071 | 11,300 | 11,313 | -1.0 |
| Ships and boats..... | 2,873 | 2,856 | 2,945 | 0.6 | -3.0 | -0.2 | 2,854 | 2,851 | 2,931 | 2,809 | 1.6 |
| Furniture and related products..... | 7,223 | 7,169 | 7,147 | 0.8 | 0.3 | 0.1 | 7,216 | 7,160 | 7,300 | 7,085 | 1.8 |
| Miscellaneous durable goods..... | 23,177 | 23,159 | 23,120 | 0.1 | 0.2 | 0.6 | 23,454 | 23,325 | 23,456 | 22,792 | 2.9 |
| Non-durable goods industries..... | 237,772 | 237,499 | 238,085 | 0.1 | -0.2 | 0.1 | 242,465 | 238,770 | 240,050 | 245,895 | -1.4 |
| Food products..... | 53,224 | 53,599 | 53,995 | -0.7 | -0.7 | 0.5 | 56,827 | 54,435 | 54,545 | 57,083 | -0.4 |
| Grain and oilseed milling..... | 5,783 | 5,783 | 5,766 | 0.0 | 0.3 | 0.6 | 6,286 | 5,544 | 5,527 | 6,294 | -0.1 |
| Dairy products..... | 7,369 | 7,409 | 7,410 | -0.5 | 0.0 | 0.7 | 7,376 | 7,464 | 7,595 | 7,381 | -0.1 |
| Meat, poultry, and seafood products..... | 8,854 | 8,876 | 8,950 | -0.2 | -0.8 | -0.5 | 9,101 | 8,811 | 9,053 | 9,930 | -8.3 |
| Beverage and tobacco products..... | 20,479 | 20,599 | 20,664 | -0.6 | -0.3 | 0.6 | 21,222 | 20,656 | 20,099 | 21,106 | 0.5 |
| Beverages..... | 16,659 | 16,758 | 16,850 | -0.6 | -0.5 | 0.6 | 17,312 | 16,894 | 16,525 | 17,091 | 1.3 |
| Tobacco..... | 3,820 | 3,841 | 3,814 | -0.5 | 0.7 | 0.8 | 3,910 | 3,762 | 3,574 | 4,015 | -2.6 |
| Textile mills..... | 3,192 | 3,184 | 3,183 | 0.3 | 0.0 | 0.2 | 3,185 | 3,186 | 3,198 | 3,112 | 2.3 |
| Textile products..... | 3,053 | 3,054 | 3,063 | 0.0 | -0.3 | -0.2 | 3,056 | 3,065 | 3,076 | 3,071 | -0.5 |
| Apparel..... | 2,497 | 2,485 | 2,530 | 0.5 | -1.8 | -1.2 | 2,557 | 2,581 | 2,694 | 2,494 | 2.5 |
| Leather and allied products..... | 787 | 784 | 789 | 0.4 | -0.6 | -0.9 | 792 | 796 | 808 | 825 | -4.0 |
| Paper products..... | 16,143 | 16,158 | 16,111 | -0.1 | 0.3 | 0.3 | 16,002 | 16,145 | 16,168 | 16,379 | -2.3 |
| Pulp, paper, and paperboard mills..... | 6,639 | 6,645 | 6,646 | -0.1 | 0.0 | -0.3 | 6,527 | 6,569 | 6,619 | 6,653 | -1.9 |
| Paperboard containers..... | 5,115 | 5,117 | 5,070 | 0.0 | 0.9 | -1.1 | 5,084 | 5,118 | 5,079 | 5,234 | -2.9 |
| Printing..... | 5,895 | 5,867 | 5,861 | 0.5 | 0.1 | -0.1 | 6,095 | 5,929 | 6,062 | 6,190 | -1.5 |
| Petroleum and coal products..... | 25,243 | 24,973 | 25,192 | 1.1 | -0.9 | 0.9 | 26,976 | 26,110 | 26,440 | 30,911 | -12.7 |
| Petroleum refineries..... | 20,645 | 20,388 | 20,582 | 1.3 | -0.9 | 1.2 | 22,514 | 21,642 | 21,786 | 26,407 | -14.7 |
| Chemical products..... | 81,691 | 81,384 | 81,406 | 0.4 | 0.0 | -0.1 | 80,571 | 80,651 | 81,744 | 79,972 | 0.7 |
| Pesticides, fertilizers, and other agricultural chemicals..... | 4,283 | 4,209 | 4,206 | 1.8 | 0.1 | -0.7 | 4,067 | 3,921 | 3,987 | 4,233 | -3.9 |
| Pharmaceuticals and medicines..... | 32,529 | 32,652 | 32,807 | -0.4 | -0.5 | -0.3 | 32,189 | 32,366 | 32,844 | 31,692 | 1.6 |
| Paints, coatings, and adhesives..... | 3,757 | 3,753 | 3,744 | 0.1 | 0.2 | 1.4 | 3,619 | 3,657 | 3,699 | 3,461 | 4.6 |
| Plastics and rubber products..... | 25,568 | 25,412 | 25,291 | 0.6 | 0.5 | -0.2 | 25,182 | 25,216 | 25,216 | 24,752 | 1.7 |

² Preliminary ¹ Revised data due to late receipts and concurrent seasonal adjustment.¹ Estimates of shipments and new orders are for the duration of the period, while estimates of unfilled orders and total inventories are for the end of the period. Not seasonally adjusted estimates of shipments and new orders include adjusted data for non-calendar reporters. Seasonally adjusted estimates include concurrent adjustments for holiday and trading-day differences, where appropriate, as well as seasonal variation, based on the results of the latest annual review of the model parameters. Estimates are not adjusted for price changes.² Estimates of inventories for the semiconductor industry data are included in computers and electronic products, and all other applicable aggregate totals.

See note at end of Table 2 relating to survey error and revision.

Table 5. Value of Manufacturers' Shipments, New Orders, Unfilled Orders, and Total Inventories for Topical Series^{1, 2}

[Estimates are shown in millions of dollars and are based on data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

| Industry | Seasonally Adjusted | | | | | | Not Seasonally Adjusted | | | | | | % Change ⁶ |
|---|------------------------|------------------------|-----------|----------------|-------------|-------------|-------------------------|------------------------|-----------|--------------|-------------------|-----------|-----------------------|
| | Monthly | | | Percent Change | | | Monthly | | | Year to date | | | |
| | Oct. 2016 ⁶ | Sep. 2016 ⁷ | Aug. 2016 | Sep. - Oct. | Aug. - Sep. | July - Aug. | Oct. 2016 ⁶ | Sep. 2016 ⁷ | Aug. 2016 | Oct. 2015 | 2016 ⁶ | 2015 | |
| SHIPMENTS | | | | | | | | | | | | | |
| All manufacturing industries..... | 464,722 | 463,070 | 459,111 | 0.4 | 0.9 | 0.2 | 470,263 | 484,161 | 480,925 | 474,515 | 4,613,063 | 4,722,154 | -2.3 |
| Construction materials and supplies..... | 46,777 | 46,383 | 46,571 | 0.8 | -0.4 | 0.5 | 48,714 | 48,996 | 51,279 | 48,579 | 474,180 | 465,540 | 1.9 |
| Information technology..... | 22,962 | 22,796 | 22,989 | 0.7 | -0.8 | -0.4 | 22,113 | 26,070 | 22,706 | 21,959 | 223,862 | 222,445 | 0.6 |
| Computers and related products..... | 1,813 | 1,654 | 1,848 | 9.6 | -10.5 | -5.1 | 1,569 | 2,125 | 1,625 | 1,760 | 17,636 | 20,926 | -15.7 |
| Motor vehicle and parts..... | 55,321 | 55,698 | 55,149 | -0.7 | 1.0 | 0.7 | 57,362 | 59,339 | 59,730 | 58,257 | 559,007 | 543,607 | 2.8 |
| Capital goods..... | 81,969 | 82,302 | 80,679 | -0.4 | 2.0 | -1.6 | 79,594 | 90,042 | 81,075 | 84,230 | 813,602 | 851,821 | -4.5 |
| Nondefense capital goods ³ | 71,356 | 71,965 | 70,340 | -0.8 | 2.3 | -1.5 | 69,293 | 78,469 | 70,854 | 73,689 | 713,194 | 755,458 | -5.6 |
| Excluding aircraft..... | 62,511 | 62,586 | 62,263 | -0.1 | 0.5 | 0.1 | 61,490 | 67,536 | 62,706 | 65,483 | 627,974 | 662,081 | -5.2 |
| Defense capital goods ⁴ | 10,613 | 10,337 | 10,339 | 2.7 | 0.0 | -2.3 | 10,301 | 11,573 | 10,221 | 10,541 | 100,408 | 96,363 | 4.2 |
| Consumer goods..... | 188,550 | 186,446 | 185,049 | 1.1 | 0.8 | 0.6 | 193,457 | 192,408 | 193,490 | 194,300 | 1,847,104 | 1,926,130 | -4.1 |
| Consumer durable goods..... | 37,949 | 37,801 | 37,872 | 0.4 | -0.2 | 0.8 | 38,919 | 40,527 | 40,104 | 40,557 | 383,241 | 386,464 | -0.8 |
| Consumer nondurable goods..... | 150,601 | 148,645 | 147,177 | 1.3 | 1.0 | 0.6 | 154,538 | 151,881 | 153,386 | 153,743 | 1,463,863 | 1,539,666 | -4.9 |
| NEW ORDERS | | | | | | | | | | | | | |
| All manufacturing industries ⁵ | 469,419 | 456,907 | 454,056 | 2.7 | 0.6 | 0.4 | 472,714 | 474,982 | 467,452 | 470,472 | 4,557,407 | 4,651,677 | -2.0 |
| Construction materials and supplies..... | 46,780 | 46,113 | 46,206 | 1.4 | -0.2 | -0.1 | 48,434 | 48,354 | 50,366 | 47,976 | 474,817 | 466,507 | 1.8 |
| Information technology..... | 23,353 | 23,041 | 23,487 | 1.4 | -1.9 | -0.3 | 22,456 | 27,136 | 21,995 | 21,751 | 230,196 | 228,236 | 0.9 |
| Computers and related products..... | 1,815 | 1,677 | 1,851 | 8.2 | -9.4 | -4.6 | 1,571 | 2,148 | 1,628 | 1,785 | 17,612 | 21,041 | -16.3 |
| Motor vehicle and parts..... | 55,205 | 55,549 | 55,107 | -0.6 | 0.8 | 1.0 | 57,056 | 59,219 | 59,941 | 57,983 | 556,469 | 542,223 | 2.6 |
| Capital goods..... | 90,765 | 81,131 | 79,511 | 11.9 | 2.0 | -0.1 | 87,512 | 86,023 | 74,164 | 82,510 | 796,281 | 817,412 | -2.6 |
| Nondefense capital goods ³ | 79,957 | 69,877 | 67,265 | 14.4 | 3.9 | -3.9 | 78,603 | 73,156 | 64,043 | 74,873 | 695,501 | 734,714 | -5.3 |
| Excluding aircraft..... | 62,864 | 62,710 | 63,681 | 0.2 | -1.5 | 1.2 | 62,047 | 67,124 | 62,537 | 64,739 | 632,000 | 658,319 | -4.0 |
| Defense capital goods ⁴ | 10,808 | 11,254 | 12,246 | -4.0 | -8.1 | 27.5 | 8,909 | 12,867 | 10,121 | 7,637 | 100,780 | 82,698 | 21.9 |
| Consumer goods..... | 188,564 | 186,544 | 185,060 | 1.1 | 0.8 | 0.6 | 193,518 | 192,576 | 193,361 | 194,367 | 1,847,322 | 1,925,897 | -4.1 |
| Consumer durable goods..... | 37,963 | 37,899 | 37,883 | 0.2 | 0.0 | 0.6 | 38,980 | 40,695 | 39,975 | 40,624 | 383,459 | 386,231 | -0.7 |
| Consumer nondurable goods..... | 150,601 | 148,645 | 147,177 | 1.3 | 1.0 | 0.6 | 154,538 | 151,881 | 153,386 | 153,743 | 1,463,863 | 1,539,666 | -4.9 |
| UNFILLED ORDERS | | | | | | | | | | | | | |
| All manufacturing industries ⁵ | 1,128,492 | 1,120,287 | 1,123,085 | 0.7 | -0.2 | -0.2 | 1,116,469 | 1,109,666 | 1,115,697 | 1,129,107 | (X) | (X) | -1.1 |
| Construction materials and supplies..... | 45,273 | 45,270 | 45,540 | 0.0 | -0.6 | -0.8 | 44,944 | 45,224 | 45,866 | 45,075 | (X) | (X) | -0.3 |
| Information technology..... | 126,127 | 125,736 | 125,491 | 0.3 | 0.2 | 0.4 | 125,867 | 125,524 | 124,458 | 118,751 | (X) | (X) | 6.0 |
| Computers and related products..... | 2,423 | 2,421 | 2,398 | 0.1 | 1.0 | 0.1 | 2,423 | 2,421 | 2,398 | 2,395 | (X) | (X) | 1.2 |
| Motor vehicle and parts..... | 21,687 | 21,803 | 21,952 | -0.5 | -0.7 | -0.2 | 21,021 | 21,327 | 21,447 | 22,611 | (X) | (X) | -7.0 |
| Capital goods..... | 841,577 | 832,781 | 833,952 | 1.1 | -0.1 | -0.1 | 833,555 | 825,637 | 829,656 | 848,201 | (X) | (X) | -1.7 |
| Nondefense capital goods ³ | 702,856 | 694,255 | 696,343 | 1.2 | -0.3 | -0.4 | 696,779 | 687,469 | 692,782 | 715,905 | (X) | (X) | -2.7 |
| Excluding aircraft..... | 222,860 | 222,507 | 222,383 | 0.2 | 0.1 | 0.6 | 221,712 | 221,155 | 221,567 | 222,017 | (X) | (X) | -0.1 |
| Defense capital goods ⁴ | 138,721 | 138,526 | 137,609 | 0.1 | 0.7 | 1.4 | 136,776 | 138,168 | 136,874 | 132,296 | (X) | (X) | 3.4 |
| Consumer goods..... | 4,545 | 4,531 | 4,433 | 0.3 | 2.2 | 0.2 | 4,410 | 4,349 | 4,181 | 4,095 | (X) | (X) | 7.7 |
| Consumer durable goods..... | 4,545 | 4,531 | 4,433 | 0.3 | 2.2 | 0.2 | 4,410 | 4,349 | 4,181 | 4,095 | (X) | (X) | 7.7 |
| TOTAL INVENTORIES | | | | | | | | | | | | | |
| All manufacturing industries..... | 621,438 | 621,128 | 621,552 | 0.0 | -0.1 | 0.1 | 626,401 | 620,659 | 626,826 | 634,867 | (X) | (X) | -1.3 |
| Construction materials and supplies..... | 65,758 | 65,667 | 65,399 | 0.1 | 0.4 | 0.2 | 64,858 | 65,022 | 65,248 | 64,511 | (X) | (X) | 0.5 |
| Information technology..... | 36,665 | 36,776 | 36,743 | -0.3 | 0.1 | -0.1 | 36,874 | 36,602 | 37,633 | 37,551 | (X) | (X) | -1.8 |
| Computers and related products..... | 3,547 | 3,648 | 3,698 | -2.8 | -1.4 | 2.5 | 3,602 | 3,694 | 3,876 | 3,584 | (X) | (X) | 0.5 |
| Motor vehicle and parts..... | 34,598 | 34,545 | 34,721 | 0.2 | -0.5 | -0.5 | 34,940 | 34,345 | 34,967 | 34,694 | (X) | (X) | 0.7 |
| Capital goods..... | 190,662 | 190,952 | 190,693 | -0.2 | 0.1 | 0.1 | 191,187 | 190,292 | 193,002 | 194,669 | (X) | (X) | -1.8 |
| Nondefense capital goods ³ | 169,477 | 170,159 | 169,875 | -0.4 | 0.2 | 0.3 | 170,138 | 169,542 | 172,113 | 173,837 | (X) | (X) | -2.1 |
| Excluding aircraft..... | 118,179 | 118,551 | 118,591 | -0.3 | 0.0 | 0.2 | 118,817 | 118,367 | 120,671 | 120,858 | (X) | (X) | -1.7 |
| Defense capital goods ⁴ | 21,185 | 20,793 | 20,818 | 1.9 | -0.1 | -1.5 | 21,049 | 20,750 | 20,889 | 20,832 | (X) | (X) | 1.0 |
| Consumer goods..... | 176,159 | 176,581 | 177,611 | -0.2 | -0.6 | 0.2 | 182,605 | 178,639 | 179,568 | 186,329 | (X) | (X) | -2.0 |
| Consumer durable goods..... | 29,492 | 29,551 | 29,713 | -0.2 | -0.5 | -0.2 | 30,075 | 29,630 | 30,152 | 30,014 | (X) | (X) | 0.2 |
| Consumer nondurable goods..... | 146,667 | 147,030 | 147,898 | -0.2 | -0.6 | 0.3 | 152,530 | 149,009 | 149,416 | 156,315 | (X) | (X) | -2.4 |

X Not Applicable ⁶ Preliminary ⁷ Revised data due to late receipts and concurrent seasonal adjustment.

¹ Estimates of shipments and new orders are for the duration of the period, while estimates of unfilled orders and total inventories are for the end of the period. Not seasonally adjusted estimates of shipments and new orders include adjusted data for non-calendar reporters. Seasonally adjusted estimates include concurrent adjustments for holiday and trading-day differences where appropriate, as well as seasonal variation, based on the results of the latest annual review of the model parameters. Estimates are not adjusted for price changes.

² Topical series are regroupings of the separate industry categories.

³ Nondefense capital goods industries include: small arms and ordnance; farm machinery and equipment; construction machinery; mining, oil, and gas field machinery; industrial machinery vending, laundry, and other machinery; photographic equipment; metalworking machinery; turbines and generators; other power transmission equipment; pumps and compressors material handling equipment; all other machinery; electronic computers; computer storage devices; other computer peripheral equipment; communications equipment; search and navigator equipment; electromedical, measuring, and control instruments; electrical equipment; other electrical equipment, appliances, and components; heavy duty trucks; aircraft; railroad rolling stock ships and boats; office and institutional furniture; and medical equipment and supplies.

⁴ Defense capital goods industries include: small arms and ordnance; communications equipment; aircraft; missiles, space vehicles, and parts; ships and boats and search and navigation equipment.

⁵ Estimates and percent changes exclude semiconductor industry data.

⁶ Based on year-to-date for shipments and new orders, but on same month prior year for unfilled orders and inventories.

See note at end of Table 2 relating to survey error and revision.

Table 6. Value of Manufacturers' Inventories, by Stage of Fabrication, by Industry Group¹

[Estimates are shown in millions of dollars and are based on data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

| Industry | Seasonally Adjusted | | | | | | Not Seasonally Adjusted | | | | % Change October 2016/ 2015 |
|--|---------------------------|---------------------------|--------------|----------------|----------------|----------------|---------------------------|---------------------------|--------------|--------------|--------------------------------------|
| | Monthly | | | Percent Change | | | Monthly | | | | |
| | Oct. 2016 ^p | Sep. 2016 ^f | Aug. 2016 | Sep. - Oct. | Aug. - Sep. | July - Aug. | Oct. 2016 ^p | Sep. 2016 ^f | Aug. 2016 | Oct. 2015 | |
| MATERIALS AND SUPPLIES | | | | | | | | | | | |
| All manufacturing industries..... | 208,856 | 208,438 | 208,409 | 0.2 | 0.0 | -0.6 | 209,360 | 208,333 | 209,570 | 209,944 | -0.3 |
| Durable goods industries..... | 130,015 | 130,039 | 129,925 | 0.0 | 0.1 | -0.7 | 129,912 | 130,264 | 131,226 | 130,220 | -0.2 |
| Wood products..... | 4,634 | 4,680 | 4,694 | -1.0 | -0.3 | 1.1 | 4,773 | 4,809 | 4,731 | 4,808 | -0.7 |
| Nonmetallic mineral products..... | 5,278 | 5,276 | 5,259 | 0.0 | 0.3 | 0.8 | 5,250 | 5,264 | 5,257 | 5,139 | 2.2 |
| Primary metals..... | 12,704 | 12,681 | 12,747 | 0.2 | -0.5 | 1.7 | 12,873 | 12,785 | 12,785 | 13,169 | -2.2 |
| Fabricated metal products..... | 17,897 | 17,955 | 17,934 | -0.3 | 0.1 | -0.3 | 17,781 | 17,992 | 17,957 | 18,055 | -1.5 |
| Machinery..... | 23,334 | 23,698 | 23,664 | -1.5 | 0.1 | -0.5 | 23,274 | 23,715 | 23,979 | 25,551 | -8.9 |
| Computers and electronic products..... | 17,677 | 17,433 | 17,473 | 1.4 | -0.2 | -1.0 | 17,593 | 17,311 | 17,686 | 16,880 | 4.2 |
| Electrical equipment, appliances, and components..... | 6,601 | 6,575 | 6,470 | 0.4 | 1.6 | -1.0 | 6,569 | 6,465 | 6,560 | 6,827 | -3.8 |
| Transportation equipment..... | 30,788 | 30,660 | 30,553 | 0.4 | 0.4 | -2.8 | 30,716 | 30,824 | 30,976 | 28,832 | 6.5 |
| Furniture and related products..... | 3,631 | 3,616 | 3,664 | 0.4 | -1.3 | 0.6 | 3,616 | 3,608 | 3,693 | 3,619 | -0.1 |
| Miscellaneous products..... | 7,471 | 7,465 | 7,467 | 0.1 | 0.0 | 0.2 | 7,467 | 7,491 | 7,602 | 7,340 | 1.7 |
| Nondurable goods industries..... | 78,841 | 78,399 | 78,484 | 0.6 | -0.1 | -0.3 | 79,448 | 78,069 | 78,344 | 79,724 | -0.3 |
| Food products..... | 18,070 | 18,089 | 18,189 | -0.1 | -0.5 | -0.4 | 18,943 | 17,886 | 17,925 | 19,081 | -0.7 |
| Beverage and tobacco products..... | 4,933 | 5,021 | 5,057 | -1.8 | -0.7 | 0.1 | 5,012 | 4,924 | 4,778 | 5,063 | -1.0 |
| Textiles..... | 1,167 | 1,157 | 1,164 | 0.9 | -0.6 | -0.1 | 1,159 | 1,149 | 1,171 | 1,159 | 0.0 |
| Textile products..... | 1,046 | 1,057 | 1,059 | -1.0 | -0.2 | -0.7 | 1,040 | 1,064 | 1,062 | 1,055 | -1.4 |
| Apparel..... | 666 | 656 | 679 | 1.5 | -3.4 | -1.6 | 693 | 683 | 701 | 781 | -11.3 |
| Leather and allied products..... | 231 | 232 | 235 | -0.4 | -1.3 | -1.3 | 232 | 234 | 241 | 249 | -6.8 |
| Paper products..... | 8,306 | 8,281 | 8,249 | 0.3 | 0.4 | -0.1 | 8,186 | 8,276 | 8,256 | 8,357 | -2.0 |
| Printing..... | 2,725 | 2,697 | 2,687 | 1.0 | 0.4 | 0.4 | 2,767 | 2,736 | 2,744 | 2,882 | -4.0 |
| Petroleum and coal products..... | 5,759 | 5,596 | 5,802 | 2.9 | -3.6 | -2.7 | 6,093 | 5,761 | 6,062 | 7,391 | -17.6 |
| Chemical products..... | 25,795 | 25,489 | 25,303 | 1.2 | 0.7 | -0.1 | 25,370 | 25,243 | 25,363 | 23,777 | 6.7 |
| Plastics and rubber products..... | 10,143 | 10,124 | 10,060 | 0.2 | 0.6 | 0.3 | 9,953 | 10,113 | 10,041 | 9,929 | 0.2 |
| WORK IN PROCESS | | | | | | | | | | | |
| All manufacturing industries..... | 190,973 | 191,578 | 191,724 | -0.3 | -0.1 | 0.6 | 193,260 | 190,252 | 192,737 | 199,289 | -3.0 |
| Durable goods industries..... | 143,177 | 143,424 | 143,327 | -0.2 | 0.1 | 0.6 | 143,467 | 142,605 | 144,557 | 148,417 | -3.3 |
| Wood products..... | 2,367 | 2,307 | 2,260 | 2.6 | 2.1 | 2.9 | 2,343 | 2,281 | 2,235 | 2,167 | 8.1 |
| Nonmetallic mineral products..... | 1,480 | 1,477 | 1,476 | 0.2 | 0.1 | 0.5 | 1,410 | 1,444 | 1,471 | 1,362 | 3.5 |
| Primary metals..... | 9,054 | 9,146 | 9,214 | -1.0 | -0.7 | 0.7 | 9,061 | 9,127 | 9,393 | 10,487 | -13.6 |
| Fabricated metal products..... | 12,818 | 12,841 | 12,835 | -0.2 | 0.0 | -0.2 | 12,904 | 12,868 | 12,963 | 13,059 | -1.2 |
| Machinery..... | 19,257 | 19,245 | 19,177 | 0.1 | 0.4 | -0.7 | 19,643 | 19,284 | 19,559 | 18,519 | 6.1 |
| Computers and electronic products..... | 13,071 | 13,196 | 13,277 | -0.9 | -0.6 | 2.0 | 13,067 | 12,929 | 13,533 | 14,245 | -8.3 |
| Electrical equipment, appliances, and components..... | 3,427 | 3,447 | 3,443 | -0.6 | 0.1 | -2.1 | 3,417 | 3,413 | 3,490 | 3,430 | -0.4 |
| Transportation equipment..... | 76,599 | 76,711 | 76,621 | -0.1 | 0.1 | 0.8 | 76,494 | 76,159 | 76,813 | 80,402 | -4.9 |
| Furniture and related products..... | 1,107 | 1,084 | 1,070 | 2.1 | 1.3 | 0.2 | 1,102 | 1,082 | 1,079 | 1,008 | 9.3 |
| Miscellaneous products..... | 3,970 | 3,970 | 3,954 | 0.7 | 0.4 | 1.6 | 4,026 | 4,018 | 4,021 | 3,738 | 7.7 |
| Nondurable goods industries..... | 47,796 | 48,154 | 48,397 | -0.7 | -0.5 | 0.8 | 49,793 | 47,647 | 48,180 | 50,872 | -2.1 |
| Food products..... | 5,816 | 6,058 | 6,156 | -4.0 | -1.6 | 1.2 | 6,893 | 5,579 | 5,655 | 7,176 | -3.9 |
| Beverage and tobacco products..... | 7,659 | 7,635 | 7,572 | 0.3 | 0.8 | 0.3 | 8,168 | 7,585 | 7,088 | 8,016 | 1.9 |
| Textiles..... | 669 | 670 | 660 | -0.1 | 1.5 | -1.6 | 674 | 678 | 667 | 695 | -3.0 |
| Textile products..... | 434 | 432 | 439 | 0.5 | -1.6 | -0.7 | 436 | 437 | 443 | 435 | 0.2 |
| Apparel..... | 321 | 325 | 332 | -1.2 | -2.1 | 1.8 | 325 | 341 | 357 | 335 | -3.0 |
| Leather and allied products..... | 109 | 108 | 108 | 0.9 | 0.0 | 0.0 | 109 | 110 | 109 | 104 | 4.8 |
| Paper products..... | 1,255 | 1,256 | 1,231 | -0.1 | 2.0 | -1.8 | 1,234 | 1,257 | 1,254 | 1,266 | -2.5 |
| Printing..... | 1,458 | 1,498 | 1,543 | -2.7 | -2.9 | -2.0 | 1,555 | 1,516 | 1,682 | 1,672 | -7.0 |
| Petroleum and coal products..... | 8,072 | 8,062 | 7,923 | 0.1 | 1.8 | 0.5 | 8,792 | 8,403 | 8,350 | 9,784 | -10.1 |
| Chemical products..... | 18,868 | 19,031 | 19,377 | -0.9 | -1.8 | 1.5 | 18,526 | 18,703 | 19,527 | 18,487 | 0.2 |
| Plastics and rubber products..... | 3,135 | 3,079 | 3,056 | 1.8 | 0.8 | 0.9 | 3,081 | 3,038 | 3,048 | 2,902 | 6.2 |
| FINISHED GOODS | | | | | | | | | | | |
| All manufacturing industries..... | 221,609 | 221,112 | 221,419 | 0.2 | -0.1 | 0.3 | 223,781 | 222,074 | 224,519 | 225,634 | -0.8 |
| Durable goods industries..... | 110,474 | 110,166 | 110,215 | 0.3 | 0.0 | 0.3 | 110,557 | 109,020 | 110,993 | 110,335 | 0.2 |
| Wood products..... | 4,429 | 4,415 | 4,430 | 0.3 | -0.3 | -0.3 | 4,259 | 4,212 | 4,315 | 4,302 | -1.0 |
| Nonmetallic mineral products..... | 6,381 | 6,370 | 6,378 | 0.2 | -0.1 | 0.5 | 6,129 | 6,189 | 6,285 | 5,910 | 3.7 |
| Primary metals..... | 9,885 | 9,782 | 9,757 | 1.1 | 0.3 | -2.1 | 9,730 | 9,715 | 9,760 | 10,482 | -7.2 |
| Fabricated metal products..... | 18,266 | 18,143 | 18,117 | 0.7 | 0.1 | -0.7 | 17,956 | 17,728 | 17,982 | 17,993 | -0.2 |
| Machinery..... | 22,825 | 22,817 | 22,804 | 0.0 | 0.1 | 2.5 | 22,571 | 22,654 | 22,929 | 23,254 | -2.9 |
| Computers and electronic products..... | 11,727 | 11,842 | 11,901 | -1.0 | -0.5 | 0.0 | 11,988 | 11,882 | 12,305 | 11,737 | 2.1 |
| Electrical equipment, appliances, and components..... | 6,309 | 6,340 | 6,297 | -0.5 | 0.7 | 0.0 | 6,392 | 6,294 | 6,429 | 6,367 | 0.4 |
| Transportation equipment..... | 16,458 | 16,264 | 16,419 | 1.2 | -0.9 | 0.3 | 17,073 | 16,060 | 16,627 | 16,118 | 5.9 |
| Furniture and related products..... | 2,485 | 2,469 | 2,413 | 0.6 | 2.3 | -0.6 | 2,498 | 2,470 | 2,528 | 2,458 | 1.6 |
| Miscellaneous products..... | 11,709 | 11,724 | 11,699 | -0.1 | 0.2 | 0.6 | 11,961 | 11,816 | 11,833 | 11,714 | 2.1 |
| Nondurable goods industries..... | 111,135 | 110,946 | 111,204 | 0.2 | -0.2 | 0.2 | 113,224 | 113,054 | 113,526 | 115,299 | -1.8 |
| Food products..... | 29,338 | 29,452 | 29,650 | -0.4 | -0.7 | 0.9 | 30,991 | 30,970 | 30,965 | 30,826 | 0.5 |
| Beverage and tobacco products..... | 7,887 | 7,943 | 8,035 | -0.7 | -1.1 | 1.3 | 8,042 | 8,147 | 8,233 | 8,027 | 0.2 |
| Textiles..... | 1,356 | 1,357 | 1,359 | -0.1 | -0.1 | 1.3 | 1,352 | 1,359 | 1,360 | 1,258 | 7.5 |
| Textile products..... | 1,573 | 1,565 | 1,565 | 0.5 | 0.0 | 0.3 | 1,580 | 1,564 | 1,571 | 1,581 | -0.1 |
| Apparel..... | 1,510 | 1,504 | 1,519 | 0.4 | -1.0 | -1.6 | 1,539 | 1,557 | 1,636 | 1,378 | 11.7 |
| Leather and allied products..... | 447 | 444 | 446 | 0.7 | -0.4 | -0.9 | 451 | 452 | 458 | 472 | -4.4 |
| Paper products..... | 6,582 | 6,621 | 6,631 | -0.6 | -0.2 | -0.8 | 6,582 | 6,612 | 6,658 | 6,756 | -2.6 |
| Printing..... | 1,712 | 1,672 | 1,631 | 2.4 | 2.5 | 0.8 | 1,773 | 1,677 | 1,636 | 1,636 | 8.4 |
| Petroleum and coal products..... | 11,412 | 11,315 | 11,467 | 0.9 | -1.3 | 3.0 | 12,091 | 11,946 | 12,028 | 13,736 | -12.0 |
| Chemical products..... | 37,028 | 36,864 | 36,726 | 0.4 | 0.4 | -0.9 | 36,675 | 36,705 | 36,854 | 37,708 | -2.7 |
| Plastics and rubber products..... | 12,290 | 12,209 | 12,175 | 0.7 | 0.3 | -0.9 | 12,148 | 12,065 | 12,127 | 11,921 | 1.9 |

^p Preliminary ^f Revised data due to late receipts and concurrent seasonal adjustment.¹ Estimates of shipments and new orders are for the duration of the period, while estimates of unfilled orders and total inventories are for the end of the period. Not seasonally adjusted estimates of shipments and new orders include adjusted data for non-calendar reporters. Seasonally adjusted estimates include concurrent adjustments for holiday and trading-day differences, where appropriate, as well as seasonal variation, based on the results of the latest annual review of the model parameters. Estimates are not adjusted for price changes.

See note at end of Table 2 relating to survey error and revisions.

Table 7. Ratios of Manufacturers' Inventories to Shipments and Unfilled Orders to Shipments, by Industry Group¹

[Based on Seasonally Adjusted data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

| Industry | Inventory/Shipments ratio | | | | Unfilled Orders/Shipments ratio ² | | | |
|--|---|-----------------------|----------|----------|--|-----------------------|----------|----------|
| | Oct 2016 ³ | Sep 2016 ¹ | Aug 2016 | Jul 2016 | Oct 2016 ³ | Sep 2016 ¹ | Aug 2016 | Jul 2016 |
| | All manufacturing industries ³ | 1.34 | 1.34 | 1.35 | 1.36 | (X) | (X) | (X) |
| Durable goods industries ³ | 1.64 | 1.64 | 1.65 | 1.65 | 6.78 | 6.70 | 6.79 | 6.79 |
| Wood products..... | 1.34 | 1.35 | 1.37 | 1.37 | (X) | (X) | (X) | (X) |
| Nonmetallic mineral products..... | 1.32 | 1.33 | 1.33 | 1.32 | (X) | (X) | (X) | (X) |
| Primary metals..... | 1.79 | 1.78 | 1.79 | 1.77 | 1.86 | 1.84 | 1.83 | 1.81 |
| Fabricated metal products..... | 1.62 | 1.63 | 1.62 | 1.63 | 2.53 | 2.53 | 2.53 | 2.53 |
| Machinery..... | 2.18 | 2.19 | 2.20 | 2.20 | 3.35 | 3.36 | 3.38 | 3.41 |
| Computers and electronic products ³ | 1.54 | 1.56 | 1.55 | 1.56 | 5.84 | 5.83 | 5.80 | 5.83 |
| Electrical equipment, appliances, and components..... | 1.69 | 1.71 | 1.69 | 1.72 | 2.00 | 2.01 | 2.01 | 2.02 |
| Transportation equipment..... | 1.54 | 1.51 | 1.54 | 1.53 | 14.26 | 13.85 | 14.38 | 14.21 |
| Furniture and related products..... | 1.13 | 1.13 | 1.14 | 1.14 | 1.53 | 1.53 | 1.52 | 1.50 |
| Miscellaneous products..... | 1.75 | 1.77 | 1.79 | 1.78 | (X) | (X) | (X) | (X) |
| Nondurable goods industries..... | 1.03 | 1.04 | 1.05 | 1.05 | (X) | (X) | (X) | (X) |
| Food products..... | 0.82 | 0.83 | 0.83 | 0.83 | (X) | (X) | (X) | (X) |
| Beverage and tobacco products..... | 1.65 | 1.66 | 1.63 | 1.65 | (X) | (X) | (X) | (X) |
| Textiles..... | 1.27 | 1.29 | 1.26 | 1.27 | (X) | (X) | (X) | (X) |
| Textile products..... | 1.52 | 1.53 | 1.52 | 1.55 | (X) | (X) | (X) | (X) |
| Apparel..... | 2.39 | 2.37 | 2.38 | 2.38 | (X) | (X) | (X) | (X) |
| Leather and allied products..... | 2.42 | 2.38 | 2.35 | 2.40 | (X) | (X) | (X) | (X) |
| Paper products..... | 1.07 | 1.07 | 1.07 | 1.08 | (X) | (X) | (X) | (X) |
| Printing..... | 0.83 | 0.82 | 0.82 | 0.83 | (X) | (X) | (X) | (X) |
| Petroleum and coal products..... | 0.64 | 0.68 | 0.71 | 0.71 | (X) | (X) | (X) | (X) |
| Chemical products..... | 1.22 | 1.22 | 1.23 | 1.24 | (X) | (X) | (X) | (X) |
| Plastics and rubber products..... | 1.31 | 1.31 | 1.32 | 1.32 | (X) | (X) | (X) | (X) |

X Not Applicable ¹ Preliminary ² Revised data due to late receipts and concurrent seasonal adjustment.

² Excludes the following industries with no unfilled orders: Wood products; nonmetallic mineral products; medical equipment and supplies; office supplies; other miscellaneous manufacturing; cutlery and handtools; farm and garden machinery; computer storage and peripheral devices; audio and video equipment; manufacturing and reproducing magnetic and optical media; batteries; automobiles; light trucks and utility vehicles; heavy duty trucks; and miscellaneous furniture.

³ Unfilled orders to shipments ratio excludes semiconductor manufacturing.

Table 8. Revisions to Previously Published Monthly Percent Changes¹

[Based on Seasonally Adjusted data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

| Industry | Shipments | | New Orders | | Unfilled Orders | | Inventories | |
|--|-----------------------------------|--------------------------------|-----------------------|--------------------------------|-----------------------|--------------------------------|-----------------------|--------------------------------|
| | Oct ² 2016 | Oct ³ 2015-Sep 2016 | Oct ² 2016 | Oct ³ 2015-Sep 2016 | Oct ² 2016 | Oct ³ 2015-Sep 2016 | Oct ² 2016 | Oct ³ 2015-Sep 2016 |
| | All manufacturing industries..... | (X) | 0.2 | (X) | 0.3 | (X) | 0.1 | (X) |
| Durable goods industries..... | -0.2 | 0.2 | -0.2 | 0.5 | 0.0 | 0.1 | 0.0 | 0.1 |
| Wood products..... | (X) | 0.5 | (X) | (NA) | (X) | (NA) | (X) | 0.2 |
| Nonmetallic mineral products..... | (X) | 0.1 | (X) | (NA) | (X) | (NA) | (X) | 0.2 |
| Primary metals..... | 0.1 | 0.4 | 0.0 | 0.8 | -0.1 | 0.4 | 0.0 | 0.4 |
| Fabricated metal products..... | -0.5 | 0.2 | -0.4 | 0.3 | 0.1 | 0.2 | 0.0 | 0.3 |
| Machinery..... | -0.7 | 0.6 | -0.2 | 0.6 | 0.0 | 0.2 | 0.0 | 0.1 |
| Computers and electronic products..... | 0.2 | 0.3 | -0.1 | 0.6 | 0.0 | 0.1 | -0.1 | 0.2 |
| Electrical equipment, appliances, and components..... | -0.4 | 0.4 | -0.7 | 0.8 | 0.1 | 0.3 | -0.1 | 0.2 |
| Transportation equipment..... | -0.1 | 0.3 | 0.0 | 0.9 | 0.0 | 0.1 | 0.0 | 0.2 |
| Furniture and related products..... | (X) | 0.3 | (X) | 0.8 | (X) | 0.4 | (X) | 0.3 |
| Miscellaneous products..... | (X) | 0.5 | (X) | 0.5 | (X) | 0.3 | (X) | 0.2 |
| Nondurable goods industries..... | (X) | 0.2 | (X) | (NA) | (X) | (NA) | (X) | 0.2 |
| Food products..... | (X) | 0.2 | (X) | (NA) | (X) | (NA) | (X) | 0.3 |
| Beverage and tobacco products..... | (X) | 0.7 | (X) | (NA) | (X) | (NA) | (X) | 0.3 |
| Textiles..... | (X) | 0.5 | (X) | (NA) | (X) | (NA) | (X) | 0.2 |
| Textile products..... | (X) | 0.8 | (X) | (NA) | (X) | (NA) | (X) | 0.3 |
| Apparel..... | (X) | 0.8 | (X) | (NA) | (X) | (NA) | (X) | 0.3 |
| Leather and allied products..... | (X) | 1.5 | (X) | (NA) | (X) | (NA) | (X) | 0.5 |
| Paper products..... | (X) | 0.2 | (X) | (NA) | (X) | (NA) | (X) | 0.2 |
| Printing..... | (X) | 0.3 | (X) | (NA) | (X) | (NA) | (X) | 0.4 |
| Petroleum and coal products..... | (X) | 1.1 | (X) | (NA) | (X) | (NA) | (X) | 1.1 |
| Chemical products..... | (X) | 0.2 | (X) | (NA) | (X) | (NA) | (X) | 0.1 |
| Plastics and rubber products..... | (X) | 0.4 | (X) | (NA) | (X) | (NA) | (X) | 0.2 |

X Not Applicable NA Not Available

¹ Estimates of shipments and new orders are for the duration of the period, while estimates of unfilled orders and total inventories are for the end of the period. Not seasonally adjusted estimates of shipments and new orders include adjusted data for non-calendar reporters. Seasonally adjusted estimates include concurrent adjustments for holiday and trading-day differences, where appropriate, as well as seasonal variation, based on the results of the latest annual review of the model parameters. Estimates are not adjusted for price changes.

² The current month revisions are the difference between the advance percent change and the percent change as shown in this publication.

³ The twelve month revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the absolute values of the differences for the months specified. The advance to final percent change revisions for the durable goods industries are shown in the advance report for the month.

Survey Description

This report is compiled from results of the U.S. Census Bureau's Manufacturers' Shipments, Inventories, and Orders (M3) survey, which is a voluntary survey authorized by Title 13 of the United States Code. This survey provides statistics on a calendar-month basis for manufacturers' value of shipments, new orders (net of cancellations), end-of-month order backlog (unfilled orders), end-of-month total inventory (at current cost or market value), and inventories by stage of fabrication (materials and supplies, work-in-process, and finished goods). Data published from the M3 survey are based on a panel of approximately 4,800 reporting units that represent approximately 3,000 companies and provide an indication of month-to-month change for the Manufacturing Sector. These reporting units may be divisions of diversified large companies, large homogenous companies, or single-unit manufacturers in 92 industry categories, which are combined into 65 publication levels due to the small monthly panel size. The survey methodology assumes that the month-to-month changes of the total operations of the reporting units in the M3 panel effectively represent the month-to-month movements of all establishments that make up the category.

The companies for which shipments data are currently reported or imputed in the M3 survey represent approximately 61 percent of the total value of shipments for manufacturing establishments in the 2012 Economic Census, and these companies include almost two-thirds of the manufacturing companies with \$500 million or more in shipments in the 2012 Economic Census. The companies for which shipments data are currently reported in the M3 survey represent approximately 54 percent of the total value of shipments for manufacturing establishments in the 2012 Economic Census. Statistics based on the M3 panel differ from the results that would be obtained from a complete enumeration of all manufacturing companies. The M3 panel is not based on a probability sample; therefore, the sampling errors that are normally provided with sample surveys cannot be measured. Nonsampling errors are attributable to many sources. The use of company or divisional reports to estimate the monthly change for establishments is one source of nonsampling error. The use of primarily large companies to represent the month-to-month movement of all companies is another potential source. Any corrections will be published in the full report. Corrections received after the full report will be released in the next month's advance report. Any revisions made later than two months will be reflected in the annual benchmark publication.

Additional survey documentation can be found on our web site: <http://www.census.gov/m3>.

2017 Release Dates for the M3 Survey

| Survey month | Advance Report (8:30 a.m. release time) | Full Report (10:00 a.m. release time) |
|--------------|--|--|
| Nov-16 | Thu 12/22/2016 | Fri 1/6/2017 |
| Dec-16 | Fri 1/27/2017 | Fri 2/3/2017 |
| Jan-17 | Mon 2/27/2017 | Mon 3/6/2017 |
| Feb-17 | Fri 3/24/2017 | Tue 4/4/2017 |
| Mar-17 | Thu 4/27/2017 | Thu 5/4/2017 |
| Apr-17 | Fri 5/26/2017 | Mon 6/5/2017 |
| May-17 | Mon 6/26/2017 | Wed 7/5/2017 |
| Jun-17 | Thu 7/27/2017 | Thu 8/3/2017 |
| Jul-17 | Fri 8/25/2017 | Tue 9/5/2017 |
| Aug-17 | Wed 9/27/2017 | Thu 10/5/2017 |
| Sep-17 | Wed 10/25/2017 | Fri 11/3/2017 |
| Oct-17 | Wed 11/22/2017 | Mon 12/4/2017 |
| Nov-17 | Fri 12/22/2017 | Not available at this time |