## FOR RELEASE AT 10:00 AM EDT, FRIDAY, MAY 12, 2023

## BENCHMARK REPORT ON MANUFACTURERS' SHIPMENTS, INVENTORIES AND ORDERS

Release Number: CB 23-69 M3-3 (23)-B
May 12, 2023 - The U.S. Census Bureau released revisions to the monthly data from the Manufacturers' Shipments, Inventories, and Orders (M3) Survey, which span the seasonally adjusted data for January 2012 through March 2023 and the data not seasonally adjusted for January 2017 through March 2023. These revisions can be found in the "Historical Time Series and M3 Survey Revision Information" section of the "Data" tab located at < www.census.gov/m3>. An updated Benchmark Release contains revised monthly tables for January 2023 through March 2023 on a 2017 North American Industry Classification System (NAICS) basis. Also, four Excel spreadsheets comprise the Benchmark Report, which contain revised data for 2019 through 2022, and can be found in the "Benchmark Report" section at the link listed above. This comprehensive revision includes:

- Benchmarking the M3 shipments and inventories data to the 2021 and 2020 Annual Survey of Manufactures (ASM) data;
- Incorporating the unfilled orders to shipments ratios obtained for 2021, 2020, and 2019 from the Manufacturers' Unfilled Orders (M3UFO) Survey;
- Adjusting the new orders data to be consistent with the benchmarked shipments and unfilled orders data;
- Correcting monthly data for late receipts, reclassifications of reported data, and revisions to previously reported data;
- Updating the seasonally adjusted data based on the results of benchmarking and the recent annual review of the seasonal adjustment models.

Data in the April 2023 Advance Report on Durable Goods, scheduled for release on May 26, 2023, at 8:30 a.m. EDT, and the Full Report, scheduled for release on June 5, 2023, at 10:00 a.m. EDT, will be consistent with the data contained in the report issued today. The full text and tables of this release can be found at <www.census.gov/m3>.

## Data Inquiries

Economic Indicators Division, Shipments, Inventories, and Orders Branch (M3) 301-763-4832
eid.m3.qs@census.gov

## EXPLANATORY NOTES

Figures in text are adjusted for seasonality, but not for inflation. Figures on new and unfilled orders exclude data for semiconductor manufacturing.

## Description of the survey

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-inprocess, and finished goods). Data published from the M3 survey are based on a panel of approximately 5,000 reporting units that represent approximately 3,100 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 60 percent of the total value of shipments for manufacturing establishments in the 2017 Economic Census, and these companies include roughly 61 percent of the manufacturing companies with $\$ 500$ million or more in shipments in the 2017 Economic Census. The companies for which shipments data are currently reported in the M3 survey represent approximately 51 percent of the total value of shipments for manufacturing establishments in the 2017 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:
<www.census.gov/manufacturing/m3/how the data are collected/index.html>.

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Economic Indicators Division, Shipments, Inventories, and Orders Branch (M3) 301-763-4832
eid.m3.qs@census.gov
United States ${ }^{\text {m" }}$

Media Inquiries
Public Information Office 301-763-3030 pio@census.gov

## RESOURCES

## API

The Census Bureau's application programming interface (API) lets developers create custom apps to reach new users and makes key demographic, socio-economic and housing statistics more accessible than ever before.
<www.census.gov/developers/>.

## FRED Mobile App



Receive the latest updates on the nation's key economic indicators by downloading the FRED App [https://fred.stlouisfed.org/fred-mobile/](https://fred.stlouisfed.org/fred-mobile/) for both Apple and Android devices. FRED, the signature database of the Federal Reserve Bank of St. Louis, now incorporates the Census Bureau's 13 economic indicators.
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U.S. Department of Commerce

Economics and Statistics Administration
census.gov

Table 1. Value of Manufacturers' Shipments for Industry Groups ${ }^{1}$
January 2023 - March 2023
[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 |  |  |
|  | $\begin{aligned} & \text { Mar. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Feb. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Jan. } \\ & 2023 \end{aligned}$ | Feb. - <br> Mar. | $\begin{aligned} & \text { Jan. - } \\ & \text { Feb. } \end{aligned}$ | Dec. Jan. | $\begin{aligned} & \text { Mar. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Feb. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Jan. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Mar. } \\ & 2022 \end{aligned}$ | 2023 | 2022 | Percent change 2023/ 2022 |
| All manufacturing industries ${ }^{2}$.. | 574,998 | 578,124 | 581,720 | -0.5 | -0.6 | 0.7 | 612,862 | 535,019 | 540,816 | 607,719 | 1,688,697 | 1,627,643 | 3.8 |
| Excluding transportation ${ }^{2}$................ | 486,124 | 491,328 | 494,157 | -1.1 | -0.6 | 1.1 | 510,172 | 452,928 | 463,539 | 517,051 | 1,426,639 | 1,394,639 | 2.3 |
| Excluding defense ${ }^{2}$...................... | 559,965 | 562,951 | 566,355 | -0.5 | -0.6 | 0.7 | 596,143 | 520,451 | 528,057 | 592,053 | 1,644,651 | 1,586,550 | 3.7 |
| With unfilled orders........................ | 194,334 | 192,131 | 192,528 | 1.1 | -0.2 | 0.1 | 213,121 | 179,930 | 174,986 | 201,666 | 568,037 | 539,196 | 5.3 |
| Durable goods industries ${ }^{2}$..................... | 279,706 | 277,684 | 279,043 | 0.7 | -0.5 | 0.1 | 306,448 | 259,423 | 253,017 | 291,764 | 818,888 | 775,754 | 5.6 |
| Wood products............................... | 13,468 | 13,417 | 13,484 | 0.4 | -0.5 | 0.4 | 13,812 | 12,244 | 11,612 | 14,188 | 37,668 | 38,526 | -2.2 |
| Nonmetallic mineral products.............. | 13,080 | 13,222 | 13,369 | -1.1 | -1.1 | 1.2 | 13,318 | 11,516 | 11,781 | 13,091 | 36,615 | 35,216 | 4.0 |
| Primary metals............................ | 26,976 | 26,787 | 26,877 | 0.7 | -0.3 | 1.8 | 29,241 | 25,799 | 26,333 | 29,703 | 81,373 | 80,770 | 0.7 |
| Iron and steel mills....................... | 15,102 | 14,847 | 14,715 | 1.7 | 0.9 | -0.2 | 16,278 | 14,128 | 14,445 | 15,442 | 44,851 | 43,005 | 4.3 |
| Aluminum and nonferrous metals......... | 10,159 | 10,205 | 10,455 | -0.5 | -2.4 | 3.8 | 11,056 | 10,027 | 10,279 | 12,518 | 31,362 | 33,222 | -5.6 |
| Ferrous metal foundries.................... | 1,715 | 1,735 | 1,707 | -1.2 | 1.6 | 7.2 | 1,907 | 1,644 | 1,609 | 1,743 | 5,160 | 4,543 | 13.6 |
| Fabricated metal products................... | 35,380 | 35,329 | 35,288 | 0.1 | 0.1 | -0.2 | 37,390 | 33,132 | 33,071 | 37,543 | 103,593 | 103,760 | -0.2 |
|  | 37,090 | 37,410 | 37,375 | -0.9 | 0.1 | 0.8 | 41,180 | 35,446 | 33,761 | 40,316 | 110,387 | 105,976 | 4.2 |
| Farm machinery........................... | 2,371 | 2,374 | 2,483 | -0.1 | -4.4 | -4.6 | 2,789 | 2,516 | 2,240 | 3,885 | 7,545 | 10,289 | 26.7 |
| Construction machinery................... | 4,225 | 4,107 | 4,260 | 2.9 | -3.6 | 4.7 | 4,774 | 3,968 | 3,816 | 3,877 | 12,558 | 10,003 | 25.5 |
| Mining, oil field, and gas field machinery. $\qquad$ | 1,635 | 1,904 | 1,591 | -14.1 | 19.7 | 0.4 | 1,745 | 1,774 | 1,502 | 1,551 | 5,021 | 4,094 | 22.6 |
| Industrial machinery...................... | 3,702 | 3,834 | 3,834 | -3.4 | 0.0 | 6.4 | 4,113 | 3,261 | 3,264 | 4,288 | 10,638 | 10,768 | -1.2 |
| Photographic equipment................. | 623 | 611 | 622 | 2.0 | -1.8 | -2.7 | 730 | 550 | 523 | 737 | 1,803 | 1,812 | -0.5 |
| Ventilation, heating, air-conditioning, and refrigeration equipment. | 4,676 | 4,734 | 4,788 | -1.2 | -1.1 | 1.9 | 5,126 | 4,039 | 3,908 | 4,856 | 13,073 | 12,224 | 6.9 |
| Metalworking machinery.................. | 2,717 | 2,861 | 2,778 | -5.0 | 3.0 | -1.8 | 2,967 | 2,651 | 2,537 | 3,052 | 8,155 | 8,210 | -0.7 |
| Turbines, generators, and other power transmission equipment....... | 4,051 | 3,837 | 3,740 | 5.6 | 2.6 | -2.0 | 4,131 | 3,858 | 3,567 | 3,612 | 11,556 | 10,561 | 9.4 |
| Material handling equipment............ | 3,795 | 3,760 | 3,843 | 0.9 | -2.2 | 2.2 | 4,365 | 3,666 | 3,612 | 4,181 | 11,643 | 10,829 | 7.5 |
| Computers and electronic products ${ }^{2}$. | 29,342 | 29,423 | 29,430 | -0.3 | 0.0 | 0.5 | 30,888 | 26,514 | 26,893 | 29,997 | 84,295 | 81,122 | 3.9 |
| Computers............................... | 799 | 805 | 798 | -0.7 | 0.9 | 5.1 | 760 | 636 | 697 | 692 | 2,093 | 1,928 | 8.6 |
| Computer storage devices.................. | 370 | 358 | 372 | 3.4 | -3.8 | 6.0 | 481 | 273 | 324 | 431 | 1,078 | 990 | 8.9 |
| Other peripheral equipment.............. | 796 | 765 | 775 | 4.1 | -1.3 | 2.0 | 858 | 602 | 718 | 600 | 2,178 | 1,477 | 47.5 |
| Nondefense communications equipment. | 2,919 | 2,951 | 2,931 | 1.1 | 0.7 | 0.6 | 3,426 | 2,404 | 2,325 | 3,284 | 8,155 | 7,900 | 3.2 |
| Defense communications equipment.... | 203 | 205 | 208 | -1.0 | -1.4 | 2.0 | 209 | 202 | 169 | 203 | 580 | 554 | 4.7 |
| Audio and video equipment................. | 377 | 368 | 467 | 2.4 | -21.2 | 33.0 | 325 | 324 | 402 | 428 | 1,051 | 1,287 | -18.3 |
| Electronic components..................... | 4,766 | 4,861 | 4,760 | -2.0 | 2.1 | 0.9 | 5,113 | 4,492 | 4,373 | 5,025 | 13,978 | 13,362 | 4.6 |
| Nondefense search and navigation equipment. $\qquad$ | ,615 | 1,621 | 1,604 | -0.4 | 1.1 | -1.0 | 1,825 | 1,529 | 1,436 | 1,834 | 4,790 | 4,733 | 1.2 |
| Defense search and navigation equipment. $\qquad$ | 188 | 3,207 | 3,194 | -0.6 | 0.4 | -1.2 | 3,416 | 3,054 | 2,676 | 3,361 | 9,146 | 9,032 | 1.3 |
| Electromedical, measuring, <br> and control instruments.. | 8,811 | 8,736 | 8,711 | 0.9 | 0.3 | -0.4 | 9,742 | 7,801 | 7,569 | 9,473 | 25,112 | 24,739 | 1.5 |
| Electrical equipment, appliances, |  |  |  |  |  |  |  |  |  |  |  |  |  |
| and components........................... | 14,126 | 13,946 | 14,116 | 1.3 | 1.2 | 4.0 | 15,487 | 12,765 | 12,359 | 14,243 | 40,611 | 36,748 | 10.5 |
| Electric lighting equipment.................. | 1,283 | 1,269 | 1,258 | 1.1 | 0.9 | 1.0 | 1,350 | 1,151 | 1,141 | 1,258 | 3,642 | 3,422 | 6.4 |
| Household appliances..................... | 2,346 | 2,361 | 2,437 | -0.6 | -3.1 | 3.4 | 2,621 | 2,081 | 1,980 | 2,690 | 6,682 | 6,594 | 1.3 |
| Electrical equipment....................... | 4,592 | 4,505 | 4,650 | 1.9 | -3.1 | 6.6 | 5,267 | 4,178 | 4,037 | 4,474 | 13,482 | 11,307 | 19.2 |
| Batteries.................................. | 1,370 | 1,306 | 1,247 | 4.9 | 4.7 | 5.1 | 1,437 | 1,160 | 1,091 | 1,079 | 3,688 | 2,705 | 36.3 |
| Transportation equipment..................... | 88,874 | 86,796 | 87,563 | 2.4 | -0.9 | -1.4 | 102,690 | 82,091 | 77,277 | 90,668 | 262,058 | 233,004 | 12.5 |
| Automobiles............................ | 8,763 | 8,681 | 8,309 | 0.9 | 4.5 | -0.3 | 10,827 | 8,183 | 6,987 | 9,997 | 25,997 | 23,136 | 12.4 |
| Light trucks and utility vehicles............ | 20,583 | 20,594 | 21,310 | -0.1 | -3.4 | -0.3 | 24,355 | 19,335 | 18,829 | 22,347 | 62,519 | 55,339 | 13.0 |
| Heavy duty trucks ........................ | ,652 | 824 | 2,958 | -6.1 | -4.5 | 3.3 | 3,051 | 2,681 | 2,692 | 2,635 | 8,424 | 6,779 | 24.3 |
| Motor vehicle bodies, parts, and trailers. $\qquad$ | 29,049 | 29,028 | 28,866 | 0.1 | 0.6 | 0.8 | 32,258 | 28,689 | 27,375 | 30,573 | 88,322 | 82,920 | 6.5 |
| Nondefense aircraft and parts............. | 12,570 | 10,205 | 10,392 | 23.2 | -1.8 | -11.8 | 15,275 | 8,282 | 8,362 | 9,576 | 31,919 | 23,779 | 34.2 |
| Defense aircraft and parts................ | 4,652 | 4,681 | 4,864 | -0.6 | -3.8 | 0.9 | 5,176 | 4,266 | 3,982 | 5,080 | 13,424 | 12,836 | 4.6 |
| Ships and boats........................... | 3,832 | 3,852 | 3,855 | -0.5 | -0.1 | 2.5 | 4,203 | 3,921 | 3,192 | 3,780 | 11,316 | 10,034 | 12.8 |
| Furniture and related products............... | 6,905 | 6,896 | 6,993 | 0.1 | -1.4 | 0.6 | 7,016 | 6,590 | 6,462 | 6,891 | 20,068 | 19,489 | 3.0 |
| Miscellaneous durable goods............... | 14,465 | 14,458 | 14,548 | 0.0 | -0.6 | -0.4 | 15,426 | 13,326 | 13,468 | 15,124 | 42,220 | 41,143 | 2.6 |
| Nondurable goods industries................ | 295,292 | 300,440 | 302,677 | -1.7 | 0.7 | 1.2 | 306,414 | 275,596 | 287,799 | 315,955 | 869,809 | 851,889 | 2.1 |
| Food products............................. | 80,326 | 80,257 | 79,999 | 0.1 | 0.3 | 0.3 | 81,725 | 77,142 | 77,185 | 81,330 | 236,052 | 231,775 | 1.8 |
| Grain and oilseed milling................... | 10,146 | 10,212 | 10,180 | -0.6 | 0.3 | 0.6 | 10,384 | 9,833 | 10,090 | 10,333 | 30,307 | 28,912 | 4.8 |
| Dairy products........................... | 11,803 | 11,819 | 11,875 | -0.1 | -0.5 | 0.1 | 11,945 | 11,023 | 11,651 | 11,722 | 34,619 | 33,456 | 3.5 |
| Meat, poultry, and seafood products... | 24,252 | 24,152 | 24,230 | 0.4 | -0.3 | -0.6 | 24,599 | 23,169 | 22,851 | 25,452 | 70,619 | 71,938 | -1.8 |
| Beverage and tobacco products.............. | 17,195 | 16,757 | 16,752 | 2.6 | 0.0 | -1.2 | 17,116 | 15,574 | 15,704 | 15,207 | 48,394 | 42,135 | 14.9 |
| Beverages.................................. | 10,687 | 10,833 | 10,725 | -1.3 | 1.0 | 1.4 | 10,608 | 9,650 | 9,677 | 9,887 | 29,935 | 27,642 | 8.3 |
| Tobacco.................................... | 6,508 | 5,924 | 6,027 | 9.9 | -1.7 | -5.5 | 6,508 | 5,924 | 6,027 | 5,320 | 18,459 | 14,493 | 27.4 |
| Textile mills.................................... | 2,117 | 2,149 | 2,165 | -1.5 | -0.7 | -0.6 | 2,209 | 2,098 | 2,008 | 2,381 | 6,315 | 6,709 | -5.9 |
| Textile products............................. | 2,014 | 2,043 | 2,042 | -1.4 | 0.0 | 0.0 | 2,079 | 1,998 | 1,851 | 2,154 | 5,928 | 6,050 | -2.0 |
| Apparel.................................... | 837 | 858 | 871 | -2.4 | -1.5 | -1.1 | 797 | 805 | 835 | 803 | 2,437 | 2,329 | 4.6 |
| Leather and allied products................. | 498 | 505 | 527 | -1.4 | -4.2 | 1.7 | 503 | 469 | 483 | 449 | 1,455 | 1,173 | 24.0 |
| Paper products.......................... | 17,596 | 17,541 | 17,515 | 0.3 | 0.1 | 1.3 | 18,291 | 16,510 | 17,259 | 18,040 | 52,060 | 50,950 | 2.2 |
| Pulp, paper, and paperboard mills....... | 7,048 | 7,038 | 7,048 | 0.1 | -0.1 | 2.4 | 7,218 | 6,564 | 7,066 | 6,914 | 20,848 | 19,729 | 5.7 |
| Paperboard containers..................... | 6,349 | 6,313 | 6,265 | 0.6 | 0.8 | 0.7 | 6,693 | 5,882 | 6,164 | 6,748 | 18,739 | 18,791 | -0.3 |
| Printing..................................... | 7,346 | 7,410 | 7,380 | -0.9 | 0.4 | -0.1 | 7,566 | 6,777 | 7,047 | 7,370 | 21,390 | 20,201 | 5.9 |
| Petroleum and coal products.............. | 64,762 | 70,223 | 73,138 | -7.8 | -4.0 | 4.1 | 65,454 | 58,993 | 68,043 | 78,319 | 192,490 | 193,767 | -0.7 |
| Petroleum refineries..................... | 59,981 | 65,428 | 68,330 | -8.3 | -4.2 | 4.5 | 60,984 | 55,160 | 64,159 | 74,109 | 180,303 | 182,533 | -1.2 |
| Chemical products....................... | 77,952 | 77,919 | 77,415 | 0.0 | 0.7 | 0.8 | 84,483 | 72,339 | 73,771 | 83,161 | 230,593 | 223,895 | 3.0 |
| Pesticides, fertilizers, and other agricultural chemicals. $\qquad$ | 4,001 | 3,929 | 3,983 | 1.8 | -1.4 | -2.2 | 5,407 | 4,128 | 3,805 | 5,485 | 13,340 | 13,631 | -2.1 |
| Pharmaceuticals and medicines............ | 24,623 | 24,645 | 24,355 | -0.1 | 1.2 | -0.1 | 25,727 | 22,217 | 23,226 | 23,480 | 71,170 | 63,920 | 11.3 |
| Paints, coatings, and adhesives.......... | 4,130 | 4,227 | 4,180 | -2.3 | 1.1 | -1.1 | 4,531 | 3,807 | 3,738 | 4,652 | 12,076 | 12,057 | 0.2 |
| Plastics and rubber products................. | 24,649 | 24,778 | 24,873 | -0.5 | -0.4 | -0.1 | 26,191 | 22,891 | 23,613 | 26,741 | 72,695 | 72,905 | -0.3 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  <br>  price changes. <br> ${ }^{2}$ Estimates and percent changes of shipments for the semiconductor industry are included in computers and electronic products, and all other applicable aggregate totals. <br>  probability sample, estimates of sampling error cannot be calculated. For further details on survey design, methodology, and data limitations see [https://www.census.gov/manufacturing/m3/](https://www.census.gov/manufacturing/m3/). <br> Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, Benchmark Report, May 12, 2023. Information on data sources and methodology can be found on our website at <www.census.gov/manufacturing/m3/how_the_data_are_collected/index.html>. <br>  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Table 2. Value of Manufacturers' New Orders for Industry Groups ${ }^{1}$ January 2023 - March 2023
[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 |  |  |
|  | Mar. $2023$ | $\begin{aligned} & \text { Feb. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Jan. } \\ & 2023 \end{aligned}$ | Feb. - <br> Mar. | $\begin{gathered} \text { Jan. - } \\ \text { Feb. } \end{gathered}$ | $\begin{aligned} & \text { Dec. - } \\ & \text { Jan. } \end{aligned}$ | $\begin{aligned} & \text { Mar. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Feb. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Jan. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Mar. } \\ & 2022 \end{aligned}$ | 2023 | 2022 | Percent change 2023/ $2022$ |
| All manufacturing industries ${ }^{2}$..................... | 573,809 | 571,265 | 581,049 | 0.4 | -1.7 | 0.0 | 618,458 | 532,423 | 542,609 | 614,653 | 1,693,490 | 1,655,878 | 2.3 |
| Excluding transportation ${ }^{2} . . . . . . . . . . . . . . . . .$. | 480,824 | 485,546 | 487,600 | -1.0 | -0.4 | 0.9 | 508,467 | 450,774 | 462,194 | 517,251 | 1,421,435 | 1,397,781 | 1.7 |
| Excluding defense ${ }^{2}$.......................... | 558,249 | 555,847 | 564,163 | 0.4 | -1.5 | -0.2 | 597,936 | 518,089 | 529,198 | 596,400 | 1,645,223 | 1,614,754 | 1.9 |
| With unfilled orders......................... | 198,491 | 190,665 | 197,315 | 4.1 | -3.4 | -1.9 | 223,287 | 182,385 | 182,836 | 213,110 | 588,508 | 582,105 | 1.1 |
| Durable goods industries ${ }^{2}$...................... | 278,517 | 270,825 | 278,372 | 2.8 | -2.7 | -1.3 | 312,044 | 256,827 | 254,810 | 298,698 | 823,681 | 803,989 | 2.4 |
| Primary metals................................ | 26,920 | 26,708 | 26,548 | 0.8 | 0.6 | 0.7 | 29,373 | 26,530 | 26,580 | 30,244 | 82,483 | 83,546 | -1.3 |
| Iron and steel mills.......................... | 15,095 | 14,863 | 14,452 | 1.6 | 2.8 | -1.9 | 16,481 | 14,652 | 14,423 | 15,915 | 45,556 | 44,659 | 2.0 |
| Aluminum and nonferrous metals......... | 10,115 | 10,113 | 10,458 | 0.0 | -3.3 | 4.4 | 11,024 | 10,176 | 10,539 | 12,474 | 31,739 | 33,983 | -6.6 |
| Ferrous metal foundries.................... | 1,710 | 1,732 | 1,638 | -1.3 | 5.7 | 1.9 | 1,868 | 1,702 | 1,618 | 1,855 | 5,188 | 4,904 | 5.8 |
| Fabricated metal products..................... | 35,209 | 35,056 | 34,958 | 0.4 | 0.3 | -0.8 | 39,004 | 33,820 | 33,915 | 39,548 | 106,739 | 108,453 | -1.6 |
| Machinery...................................... | 36,863 | 37,201 | 37,254 | -0.9 | -0.1 | 0.2 | 40,698 | 36,279 | 36,487 | 40,634 | 113,464 | 111,750 | 1.5 |
| Construction machinery..................... | 4,169 | 3,665 | 3,860 | 13.8 | -5.1 | 0.0 | 4,688 | 3,740 | 4,041 | 4,003 | 12,469 | 11,281 | 10.5 |
| Mining, oil field, and gas field machinery $\qquad$ | 1,573 | 1,933 | 1,605 | -18.6 | 20.4 | 0.8 | 1,683 | 1,803 | 1,516 | 1,425 | 5,002 | 3,881 | 28.9 |
| Industrial machinery........................ | 3,604 | 3,886 | 4,192 | -7.3 | -7.3 | 13.9 | 3,981 | 3,228 | 4,372 | 4,383 | 11,581 | 11,610 | -0.2 |
| Photographic equipment..................... | 694 | 720 | 640 | -3.6 | 12.5 | 2.6 | 734 | 787 | 536 | 655 | 2,057 | 1,773 | 16.0 |
| Ventilation, heating, air-conditioning, and refrigeration equipment. | 4,907 | 4,713 | 4,829 | 4.1 | -2.4 | -1.7 | 5,543 | 4,135 | 4,390 | 4,892 | 14,068 | 13,246 | 6.2 |
| Metalworking machinery.................... | 2,649 | 2,896 | 2,758 | -8.5 | 5.0 | 3.2 | 2,730 | 2,967 | 2,665 | 3,044 | 8,362 | 8,509 | -1.7 |
| Turbines, generators, and other power transmission equipment. | 3,915 | 3,865 | 3,563 | 1.3 | 8.5 | -7.0 | 3,995 | 3,886 | 3,390 | 3,601 | 11,271 | 10,675 | 5.6 |
| Material handling equipment................ | 3,797 | 3,809 | 3,980 | -0.3 | -4.3 | 2.6 | 4,243 | 3,767 | 3,907 | 4,434 | 11,917 | 11,795 | 1.0 |
| Computers and electronic products ${ }^{2}$.......... | 24,509 | 23,976 | 23,850 | 2.2 | 0.5 | -0.2 | 27,768 | 21,339 | 20,820 | 26,791 | 69,927 | 68,319 | 2.4 |
| Computers.................................. | 815 | 799 | 819 | 2.0 | -2.4 | 8.5 | 776 | 630 | 718 | 694 | 2,124 | 1,913 | 11.0 |
| Nondefense communications equipment. $\qquad$ | 2,885 | 2,897 | 2,942 | -0.4 | -1.5 | 1.6 | 3,451 | 2,415 | 2,298 | 3,461 | 8,164 | 8,232 | -0.8 |
| Defense communications equipment...... | 195 | 201 | 201 | -3.0 | 0.0 | 3.1 | 201 | 202 | 172 | 202 | 575 | 549 | 4.7 |
| Electronic components..................... | 4,695 | 4,742 | 4,589 | -1.0 | 3.3 | -0.6 | 4,897 | 4,352 | 4,358 | 5,060 | 13,607 | 13,838 | -1.7 |
| Nondefense search and navigation equipment. $\qquad$ | 1,761 | 1,709 | 1,647 | 3.0 | 3.8 | -14.0 | 2,040 | 1,612 | 1,575 | 2,020 | 5,227 | 5,298 | -1.3 |
| Defense search and navigation equipment. $\qquad$ | 3,626 | 3,208 | 3,157 | 13.0 | 1.6 | 2.9 | 4,521 | 2,968 | 2,431 | 3,938 | 9,920 | 8,955 | 10.8 |
| Electromedical, measuring, and control instruments. | 8,837 | 8,776 | 8,729 | 0.7 | 0.5 | -1.1 | 10,055 | 7,815 | 7,677 | 9,801 | 25,547 | 25,334 | 0.8 |
| Electrical equipment, appliances, and components. | 14,200 | 14,165 | 13,975 | 0.2 | 1.4 | 2.9 | 15,565 | 13,299 | 13,081 | 14,673 | 41,945 | 38,849 | 8.0 |
| Electric lighting equipment................... | 1,336 | 1,296 | 1,223 | 3.1 | 6.0 | -10.1 | 1,438 | 1,192 | 1,115 | 1,316 | 3,745 | 3,526 | 6.2 |
| Household appliances....................... | 2,423 | 2,547 | 2,439 | -4.9 | 4.4 | -2.7 | 2,780 | 2,060 | 2,010 | 2,696 | 6,850 | 6,436 | 6.4 |
| Electrical equipment........................ | 4,503 | 4,523 | 4,574 | -0.4 | -1.1 | 13.3 | 5,064 | 4,443 | 4,669 | 4,694 | 14,176 | 13,129 | 8.0 |
| Transportation equipment..................... | 92,985 | 85,719 | 93,449 | 8.5 | -8.3 | -4.2 | 109,991 | 81,649 | 80,415 | 97,402 | 272,055 | 258,097 | 5.4 |
| Motor vehicle bodies, parts, and trailers. $\qquad$ | 29,104 | 29,362 | 28,888 | -0.9 | 1.6 | 1.4 | 32,030 | 29,754 | 27,920 | 30,654 | 89,704 | 84,421 | 6.3 |
| Nondefense aircraft and parts.............. | 16,598 | 8,560 | 14,770 | 93.9 | -42.0 | -27.8 | 20,211 | 6,942 | 10,186 | 14,202 | 37,339 | 47,084 | -20.7 |
| Defense aircraft and parts.................. | 5,528 | 4,598 | 5,281 | 20.2 | -12.9 | 12.7 | 6,681 | 3,638 | 4,888 | 4,961 | 15,207 | 11,224 | 35.5 |
| Ships and boats............................. | 2,725 | 3,474 | 4,441 | -21.6 | -21.8 | -0.6 | 4,402 | 4,739 | 4,201 | 5,092 | 13,342 | 11,608 | 14.9 |
| Furniture and related products................. | 6,854 | 6,955 | 7,013 | -1.5 | -0.8 | 1.4 | 7,125 | 6,877 | 6,727 | 6,999 | 20,729 | 19,845 | 4.5 |
| Nondurable goods industries................... | 295,292 | 300,440 | 302,677 | -1.7 | -0.7 | 1.2 | 306,414 | 275,596 | 287,799 | 315,955 | 869,809 | 851,889 | 2.1 |


 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.
 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 [https://www.census.gov/manufacturing/m3/](https://www.census.gov/manufacturing/m3/).
Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, Benchmark Report, May 12, 2023. Information on data sources and methodology can be found on our website at
<www.census.gov/manufacturing/m3/how_the_data_are_collected/index.html>.
 FY23-0294).

Table 3. Value of Manufacturers' Unfilled Orders for Industry Groups ${ }^{1}$ January 2023 - March 2023
[Estimates are shown in millions of dollars and are based on data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

${ }^{1}$ 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
 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.
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
[https://www.census.gov/manufacturing/m3/](https://www.census.gov/manufacturing/m3/).
Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, Benchmark Report, May 12, 2023. Information on data sources and methodology can be found on our website at
<www.census.gov/manufacturing/m3/how_the_data_are_collected/index.html>.
The Census Bureau has reviewed this data product to ensure appropriate access, use, and disclosure avoidance protection of the confidential source data (Project No. P-6000307, Disclosure Review Board (DRB) approval number: CBDRB-FY23-0294).

Table 4. Value of Manufacturers' Inventories for Industry Groups ${ }^{1}$
January 2023 - March 2023
[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 |  |  |  | $\begin{gathered} \text { Percent } \\ \text { Change } \\ \text { Mar. } \\ 2023 / \\ 2022 \\ \hline \end{gathered}$ |
|  | Mar. <br> 2023 | $\begin{aligned} & \text { Feb. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Jan. } \\ & 2023 \end{aligned}$ | Feb. - <br> Mar. | Jan. - <br> Feb. | Dec. Jan. | $\begin{aligned} & \text { Mar. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Feb. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Jan. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Mar. } \\ & 2022 \end{aligned}$ |  |
| All manufacturing industries ${ }^{2}$...................... | 853,732 | 859,843 | 860,359 | -0.7 | -0.1 | 0.1 | 853,755 | 861,700 | 857,451 | 836,408 | 2.1 |
| Excluding transportation ${ }^{2}$................... | 694,664 | 695,895 | 696,733 | -0.2 | -0.1 | 0.0 | 695,498 | 698,165 | 695,428 | 675,600 | 2.9 |
| Excluding defense ${ }^{2}$....................... | 824,737 | 830,852 | 831,353 | -0.7 | -0.1 | 0.0 | 824,795 | 832,811 | 828,646 | 808,595 | 2.0 |
| With unfilled orders......................... | 417,164 | 421,487 | 421,440 | -1.0 | 0.0 | 0.2 | 417,251 | 421,982 | 419,601 | 408,084 | 2.2 |
| Durable goods industries ${ }^{2} . . . . . . . . . . . . . . . . . . . .$. | 516,982 | 521,701 | 521,279 | -0.9 | 0.1 | 0.2 | 517,074 | 523,637 | 519,556 | 505,094 | 2.4 |
| Wood products......................................... | 16,178 | 16,247 | 16,326 | -0.4 | -0.5 | -0.7 | 16,577 | 16,766 | 16,685 | 16,935 | -2.1 |
| Nonmetallic mineral products................. | 16,865 | 16,895 | 16,865 | -0.2 | 0.2 | 0.3 | 17,121 | 17,155 | 16,895 | 15,809 | 8.3 |
| Primary metals.............................. | 46,597 | 46,817 | 46,859 | -0.5 | -0.1 | -0.4 | 46,633 | 47,163 | 47,128 | 47,205 | -1.2 |
| Iron and steel mills......................... | 27,219 | 27,338 | 27,397 | -0.4 | -0.2 | 0.3 | 27,223 | 27,545 | 27,774 | 28,017 | -2.8 |
| Aluminum and nonferrous metals........ | 16,275 | 16,387 | 16,362 | -0.7 | 0.2 | -1.5 | 16,243 | 16,434 | 16,225 | 16,228 | 0.1 |
| Ferrous metal foundries.................... | 3,103 | 3,092 | 3,100 | 0.4 | -0.3 | 0.6 | 3,167 | 3,184 | 3,129 | 2,960 | 7.0 |
| Fabricated metal products................. | 64,810 | 64,720 | 64,929 | 0.1 | -0.3 | -0.1 | 65,064 | 64,908 | 64,856 | 64,219 | 1.3 |
| Machinery......................................... | 93,899 | 93,585 | 93,209 | 0.3 | 0.4 | 0.5 | 94,856 | 94,290 | 92,438 | 85,773 | 10.6 |
| Farm machinery........................... | 5,904 | 5,894 | 5,891 | 0.2 | 0.1 | 0.4 | 6,104 | 6,235 | 6,025 | 5,941 | 2.7 |
| Construction machinery....................... | 9,353 | 9,380 | 9,402 | -0.3 | -0.2 | 1.6 | 9,605 | 9,508 | 9,333 | 8,349 | 15.0 |
| Mining, oil field, and gas field machinery $\qquad$ | 5,814 | 5,821 | 5,763 | -0.1 | 1.0 | 3.1 | 5,750 | 5,920 | 5,727 | 4,946 | 16.3 |
| Industrial machinery....................... | 11,112 | 11,111 | 11,114 | 0.0 | 0.0 | -1.1 | 11,447 | 11,031 | 10,569 | 10,344 | 10.7 |
| Photographic equipment................... | 1,469 | 1,446 | 1,445 | 1.6 | 0.1 | 0.5 | 1,428 | 1,473 | 1,449 | 1,354 | 5.5 |
| Ventilation, heating, air-conditioning, and refrigeration equipment. | 9,224 | 9,183 | 9,153 | 0.4 | 0.3 | 0.1 | 9,713 | 9,500 | 9,166 | 7,993 | 21.5 |
| Metalworking machinery.................... | 7,463 | 7,399 | 7,358 | 0.9 | 0.6 | 1.0 | 7,364 | 7,285 | 7,267 | 6,787 | 8.5 |
| Turbines, generators, and other power transmission equipment. | 11,840 | 11,765 | 11,703 | 0.6 | 0.5 | 1.2 | 11,857 | 11,819 | 11,622 | 10,655 | 11.3 |
| Material handling equipment................ | 7,901 | 7,878 | 7,770 | 0.3 | 1.4 | 0.8 | 7,833 | 7,780 | 7,667 | 6,896 | 13.6 |
| Computers and electronic products ${ }^{2}$........ | 55,268 | 55,354 | 55,458 | -0.2 | -0.2 | -0.3 | 54,480 | 55,414 | 55,450 | 53,156 | 2.5 |
| Computers................................. | 1,992 | 1,957 | 2,062 | 1.8 | -5.1 | -1.7 | 1,896 | 1,868 | 1,943 | 1,984 | -4.4 |
| Computer storage devices................. | 643 | 624 | 596 | 3.0 | 4.7 | -3.4 | 585 | 633 | 583 | 616 | -5.0 |
| Other peripheral equipment................. | 1,030 | 1,028 | 999 | 0.2 | 2.9 | -1.1 | 1,006 | 1,063 | 991 | 891 | 12.9 |
| Nondefense communications equipment. $\qquad$ | 4,420 | 4,425 | 4,467 | -0.1 | -0.9 | -0.2 | 4,304 | 4,403 | 4,380 | 4,205 | 2.4 |
| Defense communications equipment... | 610 | 613 | 607 | -0.5 | 1.0 | 0.3 | 610 | 613 | 607 | 604 | 1.0 |
| Audio and video equipment.................. | 862 | 858 | 821 | 0.5 | 4.5 | 0.5 | 868 | 843 | 798 | 798 | 8.8 |
| Electronic components................... | 10,866 | 11,101 | 11,247 | -2.1 | -1.3 | -1.5 | 10,864 | 11,262 | 11,587 | 11,419 | -4.9 |
| Nondefense search and navigation equipment. $\qquad$ | 4,165 | 4,179 | 4,144 | -0.3 | 0.8 | -0.5 | 4,105 | 4,157 | 4,151 | 3,826 | 7.3 |
| Defense search and navigation equipment. $\qquad$ | 3,346 | 3,337 | 3,353 | 0.3 | -0.5 | 0.3 | 3,347 | 3,374 | 3,357 | 3,362 | -0.4 |
| Electromedical, measuring and control instruments. | 19,072 | 18,992 | 18,937 | 0.4 | 0.3 | 0.2 | 18,877 | 18,836 | 18,671 | 17,861 | 5.7 |
| Electrical equipment, appliances, and components. | 26,048 | 25,875 | 25,760 | 0.7 | 0.4 | -0.6 | 26,228 | 26,279 | 25,894 | 24,358 | 7.7 |
| Electric lighting equipment................. | 2,545 | 2,557 | 2,553 | -0.5 | 0.2 | -0.2 | 2,512 | 2,584 | 2,606 | 2,456 | 2.3 |
| Household appliances...................... | 3,614 | 3,568 | 3,504 | 1.3 | 1.8 | -5.2 | 3,627 | 3,618 | 3,447 | 3,553 | 2.1 |
| Electrical equipment........................ | 9,588 | 9,493 | 9,490 | 1.0 | 0.0 | 0.1 | 9,599 | 9,754 | 9,684 | 8,479 | 13.2 |
| Batteries.................................... | 1,841 | 1,831 | 1,849 | 0.5 | -1.0 | -0.5 | 1,970 | 1,773 | 1,734 | 1,959 | 0.6 |
| Transportation equipment.................... | 159,068 | 163,948 | 163,626 | -3.0 | 0.2 | 0.7 | 158,257 | 163,535 | 162,023 | 160,808 | -1.6 |
| Automobiles............................... | 5,639 | 5,721 | 5,665 | -1.4 | 1.0 | -0.4 | 5,444 | 5,754 | 5,683 | 5,548 | -1.9 |
| Light trucks and utility vehicles............. | 9,368 | 9,719 | 9,581 | -3.6 | 1.4 | 0.3 | 9,150 | 9,893 | 9,213 | 9,239 | -1.0 |
| Heavy duty trucks .......................... | 2,966 | 2,908 | 2,889 | 2.0 | 0.7 | -0.2 | 2,978 | 2,995 | 2,864 | 2,842 | 4.8 |
| Motor vehicle bodies, parts, and trailers. $\qquad$ | 35,152 | 35,346 | 35,373 | -0.5 | -0.1 | 0.5 | 35,321 | 35,528 | 35,690 | 34,596 | 2.1 |
| Nondefense aircraft and parts.............. | 73,298 | 77,756 | 77,639 | -5.7 | 0.2 | 0.1 | 72,793 | 77,012 | 76,368 | 77,889 | -6.5 |
| Defense aircraft and parts................. | 14,062 | 13,924 | 13,979 | 1.0 | -0.4 | 1.3 | 13,986 | 13,943 | 13,928 | 13,670 | 2.3 |
| Ships and boats............................. | 4,563 | 4,709 | 4,706 | -3.1 | 0.1 | 7.6 | 4,593 | 4,561 | 4,565 | 4,371 | 5.1 |
| Furniture and related products............... | 10,517 | 10,509 | 10,554 | 0.1 | -0.4 | -0.5 | 10,390 | 10,512 | 10,658 | 10,107 | 2.8 |
| Miscellaneous durable goods................. | 27,732 | 27,751 | 27,693 | -0.1 | 0.2 | 0.2 | 27,468 | 27,615 | 27,529 | 26,724 | 2.8 |
| Nondurable goods industries................. | 336,750 | 338,142 | 339,080 | -0.4 | -0.3 | 0.0 | 336,681 | 338,063 | 337,895 | 331,314 | 1.6 |
| Food products................................ | 72,588 | 72,430 | 72,411 | 0.2 | 0.0 | 0.5 | 71,785 | 72,784 | 72,702 | 68,490 | 4.8 |
| Grain and oilseed milling..................... | 7,975 | 8,017 | 7,949 | -0.5 | 0.9 | 0.3 | 8,113 | 8,335 | 8,156 | 7,773 | 4.4 |
| Dairy products............................ | 10,855 | 10,759 | 10,765 | 0.9 | -0.1 | 0.7 | 10,968 | 10,740 | 10,590 | 10,146 | 8.1 |
| Meat, poultry, and seafood products....... | 13,372 | 13,383 | 13,426 | -0.1 | -0.3 | 0.0 | 13,323 | 13,494 | 13,275 | 13,072 | 1.9 |
| Beverage and tobacco products............... | 31,406 | 31,072 | 30,983 | 1.1 | 0.3 | -0.2 | 31,513 | 31,520 | 31,450 | 30,439 | 3.5 |
| Beverages.................................... | 27,698 | 27,359 | 27,302 | 1.2 | 0.2 | -0.1 | 27,711 | 27,621 | 27,577 | 26,518 | 4.5 |
| Tobacco..................................... | 3,708 | 3,713 | 3,681 | -0.1 | 0.9 | -1.0 | 3,802 | 3,899 | 3,873 | 3,921 | -3.0 |
| Textile mills.................................... | 3,624 | 3,619 | 3,625 | 0.1 | -0.2 | -1.4 | 3,602 | 3,616 | 3,642 | 3,501 | 2.9 |
| Textile products.............................. | 3,804 | 3,805 | 3,831 | 0.0 | -0.7 | -1.3 | 3,789 | 3,840 | 3,880 | 3,832 | -1.1 |
| Apparel..................................... | 2,292 | 2,285 | 2,302 | 0.3 | -0.7 | -1.2 | 2,172 | 2,198 | 2,245 | 1,890 | 14.9 |
| Leather and allied products.................. | 1,321 | 1,325 | 1,332 | -0.3 | -0.5 | -2.6 | 1,299 | 1,302 | 1,333 | 1,099 | 18.2 |
| Paper products............................... | 18,431 | 18,439 | 18,372 | 0.0 | 0.4 | -0.1 | 18,362 | 18,541 | 18,477 | 17,964 | 2.2 |
| Pulp, paper, and paperboard mills........... | 5,694 | 5,682 | 5,664 | 0.2 | 0.3 | -0.1 | 5,744 | 5,751 | 5,682 | 5,535 | 3.8 |
| Paperboard containers...................... | 6,980 | 6,985 | 6,963 | -0.1 | 0.3 | 0.5 | 6,915 | 7,040 | 7,073 | 6,594 | 4.9 |
| Printing...................................... | 6,986 | 7,101 | 7,131 | -1.6 | -0.4 | -0.1 | 6,935 | 7,101 | 7,105 | 7,032 | -1.4 |
| Petroleum and coal products................ | 47,648 | 50,023 | 51,709 | -4.7 | -3.3 | 1.0 | 47,634 | 48,406 | 49,497 | 50,529 | -5.7 |
| Petroleum refineries.......................... | 40,465 | 42,899 | 44,660 | -5.7 | -3.9 | 1.0 | 40,397 | 41,213 | 42,424 | 43,969 | -8.1 |
| Chemical products........................... | 113,804 | 113,402 | 112,834 | 0.4 | 0.5 | -0.2 | 114,529 | 113,786 | 112,898 | 112,449 | 1.8 |
| Pesticides, fertilizers, and other agricultural chemicals $\qquad$ | 5,940 | 5,946 | 5,856 | -0.1 | 1.5 | -2.3 | 6,281 | 6,334 | 6,188 | 6,086 | 3.2 |
| Pharmaceuticals and medicines............ | 48,117 | 47,609 | 47,237 | 1.1 | 0.8 | 1.5 | 48,263 | 47,174 | 47,228 | 47,286 | 2.1 |
| Paints, coatings, and adhesives............. | 5,910 | 5,958 | 5,976 | -0.8 | -0.3 | -0.2 | 6,064 | 6,088 | 6,015 | 5,483 | 10.6 |
| Plastics and rubber products.................. | 34,846 | 34,641 | 34,550 | 0.6 | 0.3 | -0.6 | 35,061 | 34,969 | 34,666 | 34,089 | 2.9 |

${ }^{1}$ 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 noncalendar 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.
Estimates of inventories for the semiconductor industry data are included in computers and electronic products, and all other applicable aggregate totals.
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 <https://www.census.gov $/ \mathrm{manufacturing} / \mathrm{m} 3 />$.

Table 5. Value of Manufacturers' Shipments, New Orders, Unfilled Orders, and Total Inventories for Topical Series ${ }^{1,2}$
January 2023 - March 2023
[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 |  | $\begin{gathered} \text { Percent } \\ \text { Change }^{6} \\ 2023 / \\ 2022 \end{gathered}$ |
|  | $\begin{aligned} & \text { Mar. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Feb. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Jan. } \\ & 2023 \end{aligned}$ | Feb. - <br> Mar. | $\begin{gathered} \text { Jan. - } \\ \text { Feb. } \end{gathered}$ | Dec. - <br> Jan. | Mar. <br> 2023 | $\begin{aligned} & \text { Feb. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Jan. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Mar. } \\ & 2022 \end{aligned}$ | 2023 | 2022 |  |
| SHIPMENTS |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All manufacturing industries................. | 574,998 | 578,124 | 581,720 | -0.5 | -0.6 | 0.7 | 612,862 | 535,019 | 540,816 | 607,719 | 1,688,697 | 1,627,643 | 3.8 |
| Construction materials and supplies....... | 61,886 | 62,000 | 62,225 | -0.2 | -0.4 | -0.1 | 64,006 | 55,545 | 55,088 | 64,443 | 174,639 | 173,938 | 0.4 |
| Information technology..................... | 24,388 | 24,285 | 24,358 | 0.4 | -0.3 | 0.9 | 26,747 | 21,716 | 21,096 | 25,941 | 69,559 | 67,618 | 2.9 |
| Computers and related products.......... | 1,965 | 1,928 | 1,945 | 1.9 | -0.9 | 4.0 | 2,099 | 1,511 | 1,739 | 1,723 | 5,349 | 4,395 | 21.7 |
| Motor vehicle and parts...................... | 61,047 | 61,127 | 61,443 | -0.1 | -0.5 | 0.4 | 70,491 | 58,888 | 55,883 | 65,552 | 185,262 | 168,174 | 10.2 |
| Capital goods................................ | 94,298 | 92,516 | 93,289 | 1.9 | -0.8 | -0.8 | 105,563 | 85,275 | 81,914 | 96,750 | 272,752 | 253,094 | 7.8 |
| Nondefense capital goods ${ }^{3}$................ | 81,460 | 79,537 | 80,110 | 2.4 | -0.7 | -0.9 | 91,281 | 72,637 | 70,938 | 83,326 | 234,856 | 217,565 | 7.9 |
| Excluding aircraft......................... | 73,321 | 73,623 | 73,850 | -0.4 | -0.3 | 1.1 | 80,887 | 68,564 | 66,569 | 77,658 | 216,020 | 204,705 | 5.5 |
| Defense capital goods ${ }^{4}$..................... | 12,838 | 12,979 | 13,179 | -1.1 | -1.5 | -0.7 | 14,282 | 12,638 | 10,976 | 13,424 | 37,896 | 35,529 | 6.7 |
| Consumer goods............................ | 243,700 | 248,675 | 251,714 | -2.0 | -1.2 | 1.3 | 254,363 | 228,178 | 236,659 | 259,541 | 719,200 | 690,465 | 4.2 |
| Consumer durable goods............... | 44,738 | 44,647 | 45,332 | 0.2 | -1.5 | 0.2 | 51,487 | 42,056 | 39,917 | 48,630 | 133,460 | 122,709 | 8.8 |
| Consumer nondurable goods............ | 198,962 | 204,028 | 206,382 | -2.5 | -1.1 | 1.6 | 202,876 | 186,122 | 196,742 | 210,911 | 585,740 | 567,756 | 3.2 |
| NEW ORDERS |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All manufacturing industries ${ }^{5}$................. | 573,809 | 571,265 | 581,049 | 0.4 | -1.7 | 0.0 | 618,458 | 532,423 | 542,609 | 614,653 | 1,693,490 | 1,655,878 | 2.3 |
| Construction materials and supplies....... | 62,037 | 61,886 | 62,019 | 0.2 | -0.2 | -0.3 | 65,862 | 56,080 | 55,965 | 66,249 | 177,907 | 178,330 | -0.2 |
| Information technology...................... | 25,076 | 24,447 | 24,393 | 2.6 | 0.2 | 0.0 | 28,451 | 22,218 | 21,194 | 27,274 | 71,863 | 69,307 | 3.7 |
| Computers and related products ${ }^{5}$.......... | 1,981 | 1,922 | 1,966 | 3.1 | -2.2 | 5.4 | 2,115 | 1,505 | 1,760 | 1,725 | 5,380 | 4,380 | 22.8 |
| Motor vehicle and parts...................... | 61,102 | 61,461 | 61,465 | -0.6 | 0.0 | 0.6 | 70,263 | 59,953 | 56,428 | 65,633 | 186,644 | 169,675 | 10.0 |
| Capital goods................................ | 97,755 | 90,496 | 98,883 | 8.0 | -8.5 | -4.9 | 113,243 | 84,690 | 87,261 | 105,571 | 285,194 | 285,896 | -0.2 |
| Nondefense capital goods ${ }^{3}$................ | 84,793 | 77,659 | 84,527 | 9.2 | -8.1 | -6.3 | 95,628 | 72,745 | 76,071 | 89,415 | 244,444 | 249,806 | -2.1 |
| Excluding aircraft......................... | 72,653 | 73,468 | 73,619 | -1.1 | -0.2 | 0.9 | 80,391 | 70,055 | 69,979 | 79,164 | 220,425 | 213,641 | 3.2 |
| Defense capital goods ${ }^{4}$..................... | 12,962 | 12,837 | 14,356 | 1.0 | -10.6 | 4.2 | 17,615 | 11,945 | 11,190 | 16,156 | 40,750 | 36,090 | 12.9 |
| Consumer goods............................ | 243,669 | 248,837 | 251,634 | -2.1 | -1.1 | 1.2 | 254,437 | 228,351 | 236,760 | 259,496 | 719,548 | 690,645 | 4.2 |
| Consumer durable goods................ | 44,707 | 44,809 | 45,252 | -0.2 | -1.0 | -0.3 | 51,561 | 42,229 | 40,018 | 48,585 | 133,808 | 122,889 | 8.9 |
| Consumer nondurable goods............ | 198,962 | 204,028 | 206,382 | -2.5 | -1.1 | 1.6 | 202,876 | 186,122 | 196,742 | 210,911 | 585,740 | 567,756 | 3.2 |
| UNFILLED ORDERS |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All manufacturing industries ${ }^{5}$................. | 1,279,679 | 1,275,522 | 1,276,988 | 0.3 | -0.1 | 0.4 | 1,290,767 | 1,280,601 | 1,278,146 | 1,232,263 | (X) | (X) | 4.7 |
| Construction materials and supplies....... | 100,559 | 100,408 | 100,522 | 0.2 | -0.1 | -0.2 | 101,015 | 99,159 | 98,624 | 99,644 | (X) | (X) | 1.4 |
| Information technology...................... | 134,335 | 133,647 | 133,485 | 0.5 | 0.1 | 0.0 | 135,414 | 133,710 | 133,208 | 132,230 | (X) | (X) | 2.4 |
| Computers and related products ${ }^{5}$.......... | 1,314 | 1,298 | 1,304 | 1.2 | -0.5 | 1.6 | 1,314 | 1,298 | 1,304 | 1,312 | (X) | (X) | 0.2 |
| Motor vehicle and parts...................... | 35,051 | 34,996 | 34,662 | 0.2 | 1.0 | 0.1 | 36,323 | 36,551 | 35,486 | 37,406 | (X) | (X) | -2.9 |
| Capital goods................................ | 939,849 | 936,392 | 938,412 | 0.4 | -0.2 | 0.6 | 946,328 | 938,648 | 939,233 | 891,831 | (X) | (X) | 6.1 |
| Nondefense capital goods ${ }^{3}$................ | 735,033 | 731,700 | 733,578 | 0.5 | -0.3 | 0.6 | 738,232 | 733,885 | 733,777 | 687,946 | (X) | (X) | 7.3 |
| Excluding aircraft......................... | 273,167 | 273,835 | 273,990 | -0.2 | -0.1 | -0.1 | 275,085 | 275,581 | 274,090 | 271,614 | (X) | (X) | 1.3 |
| Defense capital goods ${ }^{4}$..................... | 204,816 | 204,692 | 204,834 | 0.1 | -0.1 | 0.6 | 208,096 | 204,763 | 205,456 | 203,885 | (X) | (X) | 2.1 |
| Consumer goods............................ | 12,078 | 12,109 | 11,947 | -0.3 | 1.4 | -0.7 | 12,226 | 12,152 | 11,979 | 12,575 | (X) | (X) | -2.8 |
| Consumer durable goods............... | 12,078 | 12,109 | 11,947 | -0.3 | 1.4 | -0.7 | 12,226 | 12,152 | 11,979 | 12,575 | (X) | (X) | -2.8 |
| TOTAL INVENTORIES |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All manufacturing industries................. | 853,732 | 859,843 | 860,359 | -0.7 | -0.1 | 0.1 | 853,755 | 861,700 | 857,451 | 836,408 | (X) | (X) | 2.1 |
| Construction materials and supplies....... | 92,902 | 92,835 | 93,031 | 0.1 | -0.2 | -0.1 | 94,260 | 94,155 | 93,549 | 91,119 | (X) | (X) | 3.4 |
| Information technology..................... | 46,236 | 46,055 | 45,963 | 0.4 | 0.2 | 0.0 | 45,711 | 45,995 | 45,535 | 43,568 | (X) | (X) | 4.9 |
| Computers and related products.......... | 3,665 | 3,609 | 3,657 | 1.6 | -1.3 | -1.8 | 3,487 | 3,564 | 3,517 | 3,491 | (X) | (X) | -0.1 |
| Motor vehicle and parts...................... | 53,125 | 53,694 | 53,508 | -1.1 | 0.3 | 0.3 | 52,893 | 54,170 | 53,450 | 52,225 | (X) | (X) | 1.3 |
| Capital goods................................ | 244,657 | 248,587 | 248,145 | -1.6 | 0.2 | 0.5 | 244,124 | 248,219 | 245,387 | 237,194 | (X) | (X) | 2.9 |
| Nondefense capital goods ${ }^{3}$................ | 220,846 | 224,752 | 224,288 | -1.7 | 0.2 | 0.2 | 220,272 | 224,505 | 221,680 | 214,340 | (X) | (X) | 2.8 |
| Excluding aircraft......................... | 161,342 | 160,766 | 160,361 | 0.4 | 0.3 | 0.3 | 161,259 | 161,263 | 159,097 | 149,869 | (X) | (X) | 7.6 |
| Defense capital goods ${ }^{4}$..................... | 23,811 | 23,835 | 23,857 | -0.1 | -0.1 | 2.8 | 23,852 | 23,714 | 23,707 | 22,854 | (X) | (X) | 4.4 |
| Consumer goods............................ | 257,819 | 259,687 | 260,582 | -0.7 | -0.3 | 0.4 | 256,269 | 258,564 | 258,779 | 253,138 | (X) | (X) | 1.2 |
| Consumer durable goods................ | 42,642 | 43,092 | 42,763 | -1.0 | 0.8 | -0.6 | 41,944 | 43,355 | 42,445 | 41,330 | (X) | (X) | 1.5 |
| Consumer nondurable goods............ | 215,177 | 216,595 | 217,819 | -0.7 | -0.6 | 0.6 | 214,325 | 215,209 | 216,334 | 211,808 | (X) | (X) | 1.2 |

[^0]Table 6. Value of Manufacturers' Inventories, by Stage of Fabrication, by Industry Group ${ }^{1}$ January 2023 - March 2023
[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 |  |  |  | Percent <br> Change <br> Mar. <br> $2023 /$ <br> 2022 |
|  | $\begin{aligned} & \text { Mar. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Feb. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Jan. } \\ & 2023 \end{aligned}$ | Feb. - <br> Mar. | $\begin{aligned} & \text { Jan. - } \\ & \text { Feb. } \end{aligned}$ | Dec. Jan. | $\begin{aligned} & \text { Mar. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Feb. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Jan. } \\ & 2023 \end{aligned}$ | Mar. $2022$ |  |
| MATERIALS AND SUPPLIES |  |  |  |  |  |  |  |  |  |  |  |
| All manufacturing industries................... | 316,788 | 317,245 | 318,076 | -0.1 | -0.3 | -0.1 | 316,297 | 317,212 | 318,553 | 305,716 | 3.5 |
| Durable goods industries.................... | 196,750 | 196,519 | 196,709 | 0.1 | -0.1 | 0.4 | 196,210 | 196,194 | 196,896 | 186,796 | 5.0 |
| Wood products........................... | 7,813 | 7,756 | 7,789 | 0.7 | -0.4 | 0.7 | 7,844 | 7,950 | 7,985 | 7,748 | 1.2 |
| Nonmetallic mineral products............. | 7,707 | 7,715 | 7,655 | -0.1 | 0.8 | 1.2 | 7,746 | 7,750 | 7,640 | 6,851 | 13.1 |
| Primary metals.......................... | 19,257 | 18,925 | 18,828 | 1.8 | 0.5 | 0.4 | 18,986 | 18,851 | 18,792 | 18,893 | 0.5 |
| Fabricated metal products............... | 24,578 | 24,592 | 24,783 | -0.1 | -0.8 | -1.0 | 24,505 | 24,519 | 24,864 | 25,718 | -4.7 |
| Machinery................................ | 40,229 | 40,374 | 40,389 | -0.4 | 0.0 | 1.0 | 40,277 | 40,159 | 40,222 | 36,185 | 11.3 |
| Computers and electronic products........ | 26,416 | 26,392 | 26,351 | 0.1 | 0.2 | 0.8 | 25,993 | 26,206 | 26,296 | 23,911 | 8.7 |
| Electrical equipment, appliances, and components. $\qquad$ | 12,660 | 12,553 | 12,491 | 0.9 | 0.5 | 0.0 | 12,706 | 12,689 | 12,596 | 11,322 | 12.2 |
| Transportation equipment............... | 42,824 | 43,025 | 43,306 | -0.5 | -0.6 | 0.1 | 43,033 | 42,983 | 43,316 | 41,765 | 3.0 |
| Furniture and related products.......... | 5,435 | 5,396 | 5,372 | 0.7 | 0.4 | 0.4 | 5,446 | 5,438 | 5,461 | 5,170 | 5.3 |
| Miscellaneous products.................... | 9,831 | 9,791 | 9,745 | 0.4 | 0.5 | 1.7 | 9,674 | 9,649 | 9,724 | 9,233 | 4.8 |
| Nondurable goods industries.................. | 120,038 | 120,726 | 121,367 | -0.6 | -0.5 | -0.8 | 120,087 | 121,018 | 121,657 | 118,920 | 1.0 |
| Food products............................. | 26,627 | 26,605 | 26,633 | 0.1 | -0.1 | 0.5 | 26,375 | 26,645 | 26,843 | 25,530 | 3.3 |
| Beverage and tobacco products.............. | 6,391 | 6,285 | 6,392 | 1.7 | -1.7 | -1.2 | 6,513 | 6,469 | 6,690 | 6,436 | 1.2 |
| Textiles..................................... | 1,454 | 1,456 | 1,454 | -0.1 | 0.1 | -0.2 | 1,450 | 1,449 | 1,451 | 1,398 | 3.7 |
| Textile products............................ | 1,732 | 1,717 | 1,717 | 0.9 | 0.0 | -0.3 | 1,722 | 1,723 | 1,736 | 1,666 | 3.4 |
| Apparel................................. | 616 | 618 | 631 | -0.3 | -2.1 | -0.5 | 597 | 602 | 627 | 600 | -0.5 |
| Leather and allied products.............. | 406 | 408 | 421 | -0.5 | -3.1 | -0.9 | 399 | 401 | 419 | 357 | 11.8 |
| Paper products............................ | 9,725 | 9,736 | 9,722 | -0.1 | 0.1 | 0.0 | 9,671 | 9,797 | 9,804 | 9,292 | 4.1 |
| Printing ................................... | 3,607 | 3,695 | 3,706 | -2.4 | -0.3 | -2.1 | 3,589 | 3,701 | 3,712 | 3,659 | -1.9 |
| Petroleum and coal products............. | 14,138 | 14,659 | 15,222 | -3.6 | -3.7 | -3.0 | 14,120 | 14,323 | 14,621 | 15,266 | -7.5 |
| Chemical products...................... | 39,685 | 39,776 | 39,756 | -0.2 | 0.1 | -1.2 | 40,019 | 40,046 | 39,939 | 39,295 | 1.8 |
| Plastics and rubber products........... | 15,657 | 15,771 | 15,713 | -0.7 | 0.4 | 0.0 | 15,632 | 15,862 | 15,815 | 15,421 | 1.4 |
| WORK IN PROCESS |  |  |  |  |  |  |  |  |  |  |  |
| All manufacturing industries.................... | 237,974 | 243,029 | 242,946 | -2.1 | 0.0 | -0.1 | 237,754 | 242,729 | 240,402 | 236,408 | 0.6 |
| Durable goods industries................. | 174,134 | 178,575 | 178,632 | -2.5 | 0.0 | -0.7 | 174,002 | 178,411 | 176,860 | 177,176 | -1.8 |
| Wood products........................... | 1,843 | 1,855 | 1,860 | -0.6 | -0.3 | -11.5 | 1,891 | 1,902 | 1,897 | 2,211 | -14.5 |
| Nonmetallic mineral products............. | 1,643 | 1,634 | 1,621 | 0.6 | 0.8 | -0.9 | 1,699 | 1,679 | 1,628 | 1,632 | 4.1 |
| Primary metals........................... | 12,482 | 12,917 | 13,044 | -3.4 | -1.0 | -1.6 | 12,509 | 12,957 | 12,933 | 13,210 | -5.3 |
| Fabricated metal products................. | 16,777 | 16,728 | 16,791 | 0.3 | -0.4 | 1.3 | 16,879 | 16,759 | 16,723 | 15,749 | 7.2 |
| Machinery..................................... | 24,816 | 24,250 | 24,068 | 2.3 | 0.8 | -2.3 | 25,186 | 24,521 | 23,629 | 23,374 | 7.8 |
| Computers and electronic products....... | 13,928 | 14,093 | 14,231 | -1.2 | -1.0 | -1.4 | 13,934 | 14,304 | 14,449 | 15,188 | -8.3 |
| Electrical equipment, appliances, and components. | 4,528 | 4,530 | 4,507 | 0.0 | 0.5 | -3.8 | 4,538 | 4,566 | 4,483 | 4,457 | 1.8 |
| Transportation equipment............... | 91,868 | 96,337 | 96,223 | -4.6 | 0.1 | -0.1 | 91,193 | 95,502 | 94,875 | 95,528 | -4.5 |
| Furniture and related products........... | 1,464 | 1,472 | 1,518 | -0.5 | -3.0 | -0.6 | 1,445 | 1,482 | 1,536 | 1,432 | 0.9 |
| Miscellaneous products.................. | 4,785 | 4,759 | 4,769 | 0.5 | -0.2 | -1.2 | 4,728 | 4,739 | 4,707 | 4,395 | 7.6 |
| Nondurable goods industries.................. | 63,840 | 64,454 | 64,314 | -1.0 | 0.2 | 1.7 | 63,752 | 64,318 | 63,542 | 59,232 | 7.6 |
| Food products............................. | 7,951 | 7,950 | 7,811 | 0.0 | 1.8 | 0.4 | 7,793 | 8,164 | 8,136 | 7,841 | -0.6 |
| Beverage and tobacco products.......... | 11,024 | 10,863 | 10,742 | 1.5 | 1.1 | -0.3 | 11,026 | 11,085 | 11,093 | 10,529 | 4.7 |
| Textiles.................................... | 587 | 583 | 588 | 0.7 | -0.9 | -3.9 | 582 | 582 | 587 | 620 | -6.1 |
| Textile products........................... | 473 | 470 | 479 | 0.6 | -1.9 | -1.2 | 473 | 479 | 488 | 481 | -1.7 |
| Apparel..................................... | 275 | 274 | 278 | 0.4 | -1.4 | -2.5 | 269 | 267 | 271 | 261 | 3.1 |
| Leather and allied products.............. | 133 | 132 | 127 | 0.8 | 3.9 | -1.6 | 137 | 134 | 128 | 139 | -1.4 |
| Paper products............................. | 1,655 | 1,653 | 1,644 | 0.1 | 0.5 | 0.4 | 1,652 | 1,639 | 1,635 | 1,668 | -1.0 |
| Printing ................................... | 1,153 | 1,177 | 1,197 | -2.0 | -1.7 | -2.4 | 1,132 | 1,181 | 1,184 | 1,325 | -14.6 |
| Petroleum and coal products.............. | 16,707 | 17,469 | 17,995 | -4.4 | -2.9 | 1.9 | 16,942 | 17,090 | 16,705 | 13,883 | 22.0 |
| Chemical products......................... | 20,028 | 20,003 | 19,592 | 0.1 | 2.1 | 4.6 | 19,863 | 19,771 | 19,451 | 18,488 | 7.4 |
| Plastics and rubber products.............. | 3,854 | 3,880 | 3,861 | -0.7 | 0.5 | -1.2 | 3,883 | 3,926 | 3,864 | 3,997 | -2.9 |
| FINISHED GOODS |  |  |  |  |  |  |  |  |  |  |  |
| All manufacturing industries.................... | 298,970 | 299,569 | 299,337 | -0.2 | 0.1 | 0.5 | 299,704 | 301,759 | 298,496 | 294,284 | 1.8 |
| Durable goods industries...................... | 146,098 | 146,607 | 145,938 | -0.3 | 0.5 | 1.0 | 146,862 | 149,032 | 145,800 | 141,122 | 4.1 |
| Wood products............................... | 6,522 | 6,636 | 6,677 | -1.7 | -0.6 | 1.2 | 6,842 | 6,914 | 6,803 | 6,976 | -1.9 |
| Nonmetallic mineral products.............. | 7,515 | 7,546 | 7,589 | -0.4 | -0.6 | -0.4 | 7,676 | 7,726 | 7,627 | 7,326 | 4.8 |
| Primary metals............................ | 14,858 | 14,975 | 14,987 | -0.8 | -0.1 | -0.2 | 15,138 | 15,355 | 15,403 | 15,102 | 0.2 |
| Fabricated metal products................ | 23,455 | 23,400 | 23,355 | 0.2 | 0.2 | -0.2 | 23,680 | 23,630 | 23,269 | 22,752 | 4.1 |
| Machinery................................. | 28,854 | 28,961 | 28,752 | -0.4 | 0.7 | 2.0 | 29,393 | 29,610 | 28,587 | 26,214 | 12.1 |
| Computers and electronic products........ | 14,924 | 14,869 | 14,876 | 0.4 | 0.0 | -1.1 | 14,553 | 14,904 | 14,705 | 14,057 | 3.5 |
| Electrical equipment, appliances, and components. $\qquad$ | 8,860 | 8,792 | 8,762 | 0.8 | 0.3 | 0.4 | 8,984 | 9,024 | 8,815 | 8,579 | 4.7 |
| Transportation equipment............... | 24,376 | 24,586 | 24,097 | -0.9 | 2.0 | 4.7 | 24,031 | 25,050 | 23,832 | 23,515 | 2.2 |
| Furniture and related products........... | 3,618 | 3,641 | 3,664 | -0.6 | -0.6 | -1.8 | 3,499 | 3,592 | 3,661 | 3,505 | -0.2 |
| Miscellaneous products.................. | 13,116 | 13,201 | 13,179 | -0.6 | 0.2 | -0.3 | 13,066 | 13,227 | 13,098 | 13,096 | -0.2 |
| Nondurable goods industries.................. | 152,872 | 152,962 | 153,399 | -0.1 | -0.3 | 0.0 | 152,842 | 152,727 | 152,696 | 153,162 | -0.2 |
| Food products............................. | 38,010 | 37,875 | 37,967 | 0.4 | -0.2 | 0.4 | 37,617 | 37,975 | 37,723 | 35,119 | 7.1 |
| Beverage and tobacco products............... | 13,991 | 13,924 | 13,849 | 0.5 | 0.5 | 0.3 | 13,974 | 13,966 | 13,667 | 13,474 | 3.7 |
| Textiles.................................... | 1,583 | 1,580 | 1,583 | 0.2 | -0.2 | -1.6 | 1,570 | 1,585 | 1,604 | 1,483 | 5.9 |
| Textile products............................ | 1,599 | 1,618 | 1,635 | -1.2 | -1.0 | -2.2 | 1,594 | 1,638 | 1,656 | 1,685 | -5.4 |
| Apparel..................................... | 1,401 | 1,393 | 1,393 | 0.6 | 0.0 | -1.2 | 1,306 | 1,329 | 1,347 | 1,029 | 26.9 |
| Leather and allied products.............. | 782 | 785 | 784 | -0.4 | 0.1 | -3.6 | 763 | 767 | 786 | 603 | 26.5 |
| Paper products................................. | 7,051 | 7,050 | 7,006 | 0.0 | 0.6 | -0.3 | 7,039 | 7,105 | 7,038 | 7,004 | 0.5 |
| Printing ....................................... | 2,226 | 2,229 | 2,228 | -0.1 | 0.0 | 4.7 | 2,214 | 2,219 | 2,209 | 2,048 | 8.1 |
| Petroleum and coal products............... | 16,803 | 17,895 | 18,492 | -6.1 | -3.2 | 3.6 | 16,572 | 16,993 | 18,171 | 21,380 | -22.5 |
| Chemical products....................... | 54,091 | 53,623 | 53,486 | 0.9 | 0.3 | -1.2 | 54,647 | 53,969 | 53,508 | 54,666 | 0.0 |
| Plastics and rubber products.............. | 15,335 | 14,990 | 14,976 | 2.3 | 0.1 | -1.1 | 15,546 | 15,181 | 14,987 | 14,671 | 6.0 |

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 noncalendar 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.
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 pane is not a probability sample, estimates of sampling error cannot be calculated. For further details on survey design, methodology, and data limitations see <https://www.census.gov/manufacturing $/ \mathrm{m} 3 />$.

Table 7. Ratios of Manufacturers' Inventories to Shipments and Unfilled Orders
to Shipments, by Industry Group ${ }^{3}$
January 2023 - March 2023
[Based on Seasonally Adjusted data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

| Industry | Inventory/Shipments ratio |  |  | Unfilled Orders/Shipments ratio ${ }^{1}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Mar. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Feb. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Jan. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Mar. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Feb. } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Jan. } \\ & 2023 \end{aligned}$ |
| All manufacturing industries ${ }^{2}$.................. | 1.48 | 1.49 | 1.48 | (x) | (X) | (X) |
| Durable goods industries ${ }^{2} . . . .{ }_{*}$ | 1.85 | 1.88 | 1.87 | 6.58 | 6.64 | 6.63 |
| Wood products............................. | 1.20 | 1.21 | 1.21 | (X) | (X) | (X) |
| Nonmetallic mineral products.................. | 1.29 | 1.28 | 1.26 | (X) | (X) | (X) |
| Primary metals............................... | 1.73 | 1.75 | 1.74 | 1.40 | 1.41 | 1.41 |
| Fabricated metal products.................... | 1.83 | 1.83 | 1.84 | 3.74 | 3.75 | 3.77 |
| Machinery.................................... | 2.53 | 2.50 | 2.49 | 4.14 | 4.12 | 4.14 |
| Computers and electronic products ${ }^{3}$...... | 1.88 | 1.88 | 1.88 | 6.04 | 5.99 | 6.04 |
| Electrical equipment, appliances, and components.. $\qquad$ | 1.84 | 1.86 | 1.82 | 3.40 | 3.43 | 3.35 |
| Transportation equipment...................... | 1.79 | 1.89 | 1.87 | 13.73 | 14.21 | 14.15 |
| Furniture and related products............... | 1.52 | 1.52 | 1.51 | 1.91 | 1.91 | 1.88 |
| Miscellaneous products..................... | 1.92 | 1.92 | 1.90 | (X) | (X) | (X) |
| Nondurable goods industries................. | 1.14 | 1.13 | 1.12 | (x) | (X) | (X) |
| Food products............................... | 0.90 | 0.90 | 0.91 | ( X ) | (X) | (X) |
| Beverage and tobacco products............... | 1.83 | 1.85 | 1.85 | (X) | (X) | (X) |
| Textiles........................................ | 1.71 | 1.68 | 1.67 | ( $)$ | (X) | (X) |
| Textile products............................... | 1.89 | 1.86 | 1.88 | (X) | (X) | (X) |
| Apparel...................................... | 2.74 | 2.66 | 2.64 | (X) | (X) | (X) |
| Leather and allied products................... | 2.65 | 2.62 | 2.53 | (X) | (X) | (X) |
| Paper products................................ | 1.05 | 1.05 | 1.05 | (X) | (X) | (X) |
| Printing....................................... | 0.95 | 0.96 | 0.97 | ( X ) | (X) | (X) |
| Petroleum and coal products..................... | 0.74 | 0.71 | 0.71 | (x) | (x) | (x) |
| Chemical products............................. | 1.46 | 1.46 | 1.46 | (X) | (X) | (x) |
| Plastics and rubber products................... | 1.41 | 1.40 | 1.39 | (X) | (X) | (X) |

## (X) Not Applicable

${ }^{1}$ 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
${ }^{2}$ 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.
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 [https://www.census.gov/manufacturing/m3/](https://www.census.gov/manufacturing/m3/)
Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, Benchmark Report, May 12, 2023. Information on data sources and methodology can be found on our website at <www.census.gov/manufacturing/m3/how the data_are collected/index.html>
The Census Bureau has reviewed this data product to ensure appropriate access, use, and disclosure avoidance protection of the confidential source data (Project No. P-6000307, Disclosure Review Board (DRB) approval number: CBDRB-FY23-0294).


[^0]:    X Not Applicable
    
     not adjusted for price changes.
    ${ }^{2}$ Topical series are regroupings of the separate industry categories.
    
    
     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.
     is not a probability sample, estimates of sampling error cannot be calculated. For further details on survey design, methodology, and data limitations see [https://www.census.gov/manufacturing/m3/](https://www.census.gov/manufacturing/m3/).
    Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, Benchmark Report, May 12, 2023. Information on data sources and methodology can be found on our website at
    <www.census.gov/manufacturing/m3/how_the_data_are_collected/index.html>.
    

