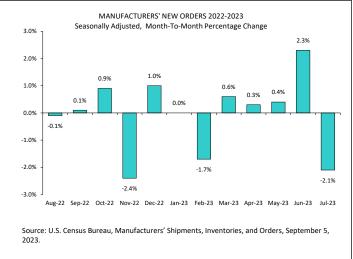
FOR RELEASE AT 10:00 AM EDT, TUESDAY, SEPTEMBER 5, 2023

MONTHLY FULL REPORT ON MANUFACTURERS' SHIPMENTS, INVENTORIES AND ORDERS JULY 2023

Release Number: CB 23-133 M3-2 (23)-07

September 5, 2023 — The U.S. Census Bureau announces the July full report on manufacturers' shipments, inventories and orders:





Summary

New orders for manufactured goods in July, down following four consecutive monthly increases, decreased \$12.7 billion or 2.1 percent to \$579.4 billion, the U.S. Census Bureau reported today. This followed a 2.3 percent June increase. Shipments, up three consecutive months, increased \$2.9 billion or 0.5 percent to \$577.2 billion. This followed a 0.2 percent June increase. Unfilled orders, up seven of the last eight months, increased \$7.2 billion or 0.5 percent to \$1,332.0 billion. This followed a 1.8 percent June increase. The unfilled orders-to-shipments ratio was 6.80, up from 6.74 in June. Inventories, up following two consecutive monthly decreases, increased \$0.6 billion or 0.1 percent to \$852.5 billion. This followed a 0.2 percent June decrease. The inventories-to-shipments ratio was 1.48, unchanged from June.

New Orders

New orders for manufactured durable goods in July, down following four consecutive monthly increases, decreased \$15.7 billion or 5.2 percent to \$285.5 billion, unchanged from the previously published decrease. This followed a 4.3 percent June increase. Transportation equipment, also down following four consecutive monthly increases, drove the decrease, \$16.5 billion or 14.3 percent to \$98.6 billion. New orders for manufactured nondurable goods increased \$3.1 billion or 1.1 percent to \$293.9 billion.

Data Inquiries

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

Media Inquiries
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Shipments

Shipments of manufactured durable goods in July, down following two consecutive monthly increases, decreased \$0.2 billion or 0.1 percent to \$283.3 billion, down from the previously published virtually unchanged increase. This followed a virtually unchanged June increase. Transportation equipment, down three of the last four months, drove the decrease, \$0.3 billion or 0.3 percent to \$91.6 billion. Shipments of manufactured nondurable goods, up two consecutive months, increased \$3.1 billion or 1.1 percent to \$293.9 billion. This followed a 0.4 percent June increase. Petroleum and coal products, also up two consecutive months, led the increase, \$2.8 billion or 4.6 percent to \$64.6 billion.

Unfilled Orders

Unfilled orders for manufactured durable goods in July, up seven of the last eight months, increased \$7.2 billion or 0.5 percent to \$1,332.0 billion, unchanged from the previously published increase. This followed a 1.8 percent June increase. Transportation equipment, also up seven of the last eight months, led the increase, \$7.0 billion or 0.8 percent to \$834.1 billion.

Inventories

Inventories of manufactured durable goods in July, down two consecutive months, decreased \$0.3 billion or virtually unchanged to \$522.2 billion, unchanged from the previously published decrease. This followed a virtually unchanged June decrease. Transportation equipment, also down two consecutive months, led the decrease, \$0.2 billion or 0.2 percent to \$163.8 billion. Inventories of manufactured nondurable goods, up following five consecutive monthly decreases, increased \$0.9 billion or 0.3 percent to \$330.3 billion. This followed a 0.4 percent June decrease. Petroleum and coal products, also up following five consecutive monthly decreases, drove the increase, \$1.8 billion or 4.1 percent to \$46.0 billion. By stage of fabrication, July materials and supplies increased 0.1 percent in both durable and nondurable goods. Work in process decreased 0.1 percent in durable goods and increased 1.4 percent in nondurable goods. Finished goods decreased 0.2 percent in durable goods and 0.1 percent in nondurable goods.

The Advance Report on durable goods for August is scheduled for release on September 27, 2023, at 8:30 a.m. EDT and the Full Report on October 4, 2023, at 10:00 a.m. EDT. View the full schedule in the Economic Briefing Room: www.census.gov/economic-indicators/>. The full text and tables of this release can be found at www.census.gov/m3>.

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EXPLANATORY NOTES

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

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

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-FY23-0265).

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 monthto-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

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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>.

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/ 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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Table 1. Value of Manufacturers' Shipments for Industry Groups¹

| LESTIMATES are snown in millions of do | | | asonally Adj | | anaracte | 11013 311 | ipinents, in | iventones, | | Seasonally Ad | justed | | |
|---|---|---|---|--|---|--|--|---|---|---|---|--|--|
| | | Monthly | | | rcent Chai | nge | | Mon | nthly | | | Year to date | |
| Industry | July 2023 ^p | June 2023 ^r | May 2023 | June - July | May - June | Apr May | July 2023 ^p | June 2023 ^r | May 2023 | July 2022 | 2023 ^p | 2022 | % Change 2023/ 2022 |
| All manufacturing industries Excluding transportation Excluding defense With unfilled orders | 577,179 485,539 561,578 195,877 | 574,298 482,379 558,500 196,617 | 573,181 481,128 557,732 195,943 | 0.7 0.6 | 0.3 0.1 | 0.4 -0.5 0.4 1.8 | 552,405 475,955 538,488 180,412 | 609,697 508,500 593,037 215,042 | 588,352 496,388 573,290 199,334 | 560,185 489,457 547,041 174,651 | 3,997,286 3,383,024 3,892,777 1,348,135 | 3,977,392 3,423,700 3,880,889 1,291,202 | 0.5 -1.2 0.3 4.4 |
| Durable goods industries | 283,258 | 283,448 | 283,412 | -0.1 | 0.0 | 2.0 | 260,099 | 307,882 | 288,023 | 252,509 | 1,942,206 | 1,862,018 | 4.3 |
| Wood products Nonmetallic mineral products Primary metals Iron and steel mills Aluminum and nonferrous metals Ferrous metal foundries Fabricated metal products Machinery Farm machinery Construction machinery | 13,361 13,298 26,636 14,644 10,412 1,580 35,745 37,898 2,593 4,195 | 13,332 13,289 26,824 14,834 10,366 1,624 35,688 37,792 2,593 4,327 | 13,385 13,297 26,912 14,942 10,320 1,650 35,327 37,696 2,549 4,350 | 0.1 -0.7 -1.3 0.4 -2.7 0.2 0.3 0.0 | -0.1 -0.3 -0.7 0.4 -1.6 1.0 0.3 1.7 | 0.8 1.2 0.5 0.1 1.3 -0.4 0.2 0.3 3.4 4.0 | 13,522 13,605 25,426 14,132 9,804 1,490 34,370 35,790 2,594 4,024 | 14,647 14,752 28,463 15,730 10,909 1,824 37,895 41,428 2,709 4,915 | 14,634 14,169 28,154 15,848 10,537 1,769 36,874 39,077 2,690 4,605 | 13,758 13,544 25,661 14,738 9,527 1,396 34,449 34,828 3,262 3,692 | 94,316 91,866 190,041 105,365 72,768 11,908 247,408 263,541 18,412 30,378 | 89,741 192,886 104,472 77,310 11,104 248,665 254,246 24,463 | -2.6 2.4 -1.5 0.9 -5.9 7.2 -0.5 3.7 -24.7 19.0 |
| Mining, oil field, and gas field machinery Industrial machinery Photographic equipment | 1,771 3,707 655 | 1,684 3,675 654 | 1,800 3,351 663 | 5.2 0.9 0.2 | 9.7 | 1.9 -6.7 4.2 | 1,690 3,503 613 | 1,695 4,249 750 | 1,807 3,194 677 | 1,414 3,487 550 | 11,903 25,009 4,384 | 25,417 | 21.6 -1.6 4.4 |
| Ventilation, heating, air-conditioning, and refrigeration equipment Metalworking machinery Turbines, generators, and other | 4,985 2,668 | 4,835 2,650 | 4,864 2,764 | | | 2.6 -3.2 | * | 5,906 2,806 | 5,415 2,761 | 4,635 2,521 | 34,074 18,710 | * | 7.4 -1.9 |
| power transmission equipment Material handling equipment Computers and electronic products ² Computers Computer storage devices Other peripheral equipment | 3,886 4,143 29,313 840 432 693 | 4,019 4,155 29,227 823 377 811 | 4,076 4,062 29,245 843 428 781 | -0.3 0.3 2.1 | 2.3 -0.1 -2.4 -11.9 | -0.5 3.4 0.5 3.9 1.9 -5.4 | 3,670 3,703 27,470 854 388 643 | 4,081 4,365 31,366 992 500 971 | 4,248 4,204 27,436 836 371 643 | 3,419 3,213 27,164 748 313 668 | 27,597 27,665 197,029 5,545 2,721 5,138 | 5,028 2,424 | 12.2 10.7 2.5 10.3 12.3 38.4 |
| Nondefense communications equipment Defense communications equipment Audio and video equipment Electronic components Nondefense search and navigation | 2,825 208 750 4,628 | 2,818 198 518 4,710 | 2,780 205 477 4,675 | 5.1 44.8 | 8.6 | -1.9 -0.5 26.2 2.7 | 2,476 200 658 4,512 | 3,514 200 434 5,031 | 2,509 192 471 4,739 | 2,528 187 360 4,587 | 19,074 1,372 2,926 32,546 | 1,319 2,770 | -0.9 4.0 5.6 1.3 |
| equipment Defense search and navigation | 1,632 | 1,628 | 1,649 | 0.2 | -1.3 | 0.2 | 1,436 | 1,756 | 1,623 | 1,400 | 11,083 | 10,868 | 2.0 |
| equipmentElectromedical, measuring, | 3,315 | 3,296 | 3,292 | 0.6 | 0.1 | 1.3 | 3,110 | 3,397 | 3,237 | 2,821 | 22,040 | 21,205 | 3.9 |
| and control instruments Electrical equipment, appliances, | 8,873 | 8,907 | 8,893 | -0.4 | 0.2 | -0.1 | 8,251 | 9,734 | 8,337 | 8,276 | 59,631 | 58,841 | 1.3 |
| and components Electric lighting equipment Household appliances Electrical equipment Batteries Transportation equipment Automobiles Light trucks and utility vehicles Heavy duty trucks Motor vehicle bodies, parts, | 14,063 1,303 2,351 4,688 1,388 91,640 8,941 21,929 2,961 | 14,037 1,313 2,350 4,595 1,317 91,919 9,002 21,470 2,972 | 14,048 1,296 2,365 4,559 1,297 92,053 9,157 21,761 2,977 | -0.8 0.0 2.0 5.4 -0.3 | 1.3 -0.6 0.8 1.5 -0.1 -1.7 | 1.0 1.6 2.3 0.2 -2.6 5.0 3.0 5.8 3.2 | 13,195 1,262 2,020 4,382 1,227 76,450 7,096 17,488 2,775 | 15,633 1,398 2,602 5,422 1,352 101,197 9,442 22,888 3,231 | 14,308 1,353 2,429 4,631 1,267 91,964 9,430 21,024 3,127 | 12,190 1,168 2,022 3,697 846 70,728 6,647 16,215 2,309 | 97,076 8,886 15,893 32,204 8,822 614,262 60,421 142,729 20,288 | 8,272 16,014 27,496 6,339 553,692 53,877 | 8.7 7.4 -0.8 17.1 39.2 10.9 12.1 8.5 23.4 |
| and trailers Nondefense aircraft and parts Defense aircraft and parts Ships and boats Furniture and related products Miscellaneous durable goods | 29,208 13,185 4,786 3,473 6,792 14,512 | 29,094 13,788 4,829 3,705 6,876 14,464 | 28,913 13,821 4,779 3,754 6,846 14,603 | -4.4 -0.9 -6.3 -1.2 | -0.2 1.0 -1.3 0.4 | 0.2 29.2 -2.9 -1.8 0.5 1.2 | 4,226 | 30,605 18,384 5,300 3,994 7,175 15,326 | 30,288 12,694 4,723 3,995 6,876 14,531 | 24,979 7,268 3,920 3,263 6,909 13,278 | 202,979 82,495 32,147 26,226 47,500 99,167 | 59,425 30,268 24,139 | 4.2 38.8 6.2 8.6 1.0 1.9 |
| Nondurable goods industries | 293,921 | 290,850 | 289,769 | 1.1 | 0.4 | -1.1 | 292,306 | 301,815 | 300,329 | 307,676 | 2,055,080 | 2,115,374 | -2.9 |
| Food products | 79,433 9,715 11,444 23,912 17,818 10,960 6,858 2,101 1,974 857 480 17,292 6,854 6,303 7,361 64,645 59,831 77,362 | 79,247 9,755 11,507 23,868 17,815 10,782 7,033 2,092 1,990 824 478 17,406 6,948 6,330 7,319 61,799 56,968 77,272 | 79,335 9,772 11,560 24,019 17,437 10,671 6,766 2,103 1,988 870 477 17,453 6,936 6,378 7,176 61,441 56,579 77,034 | -0.4 -0.5 0.2 0.0 1.7 -2.5 0.4 -0.8 4.0 0.4 -0.7 -1.4 -0.4 0.6 4.6 5.0 0.1 | -0.2 -0.5 -0.6 2.2 1.0 3.9 -0.5 0.1 -5.3 0.2 -0.3 0.2 -0.8 2.0 0.6 0.7 | -0.4 -1.5 -0.8 -0.2 1.1 -0.2 3.3 -0.8 -0.4 -1.6 -1.4 2.3 -1.0 -5.0 -5.5 0.1 | 472 16,933 6,855 6,093 7,035 69,780 64,507 74,402 | 79,276 9,758 11,534 24,935 18,599 11,566 7,033 2,207 2,139 782 482 17,949 7,017 6,681 7,382 65,734 60,201 80,905 | 79,587 9,821 11,740 24,780 18,015 11,249 6,766 2,148 2,072 836 497 17,997 7,141 6,468 7,233 66,554 61,307 79,808 | 77,080 9,644 11,763 24,257 16,099 10,242 5,857 2,253 2,095 801 441 16,790 6,684 6,120 7,028 87,039 81,718 73,534 | 549,758 68,818 80,617 167,769 120,288 74,620 45,668 14,909 14,178 5,654 3,413 121,753 48,703 43,897 50,011 460,884 428,160 541,684 | 68,501 80,847 172,874 106,779 69,609 37,170 15,998 14,729 5,436 3,060 120,045 46,653 44,072 48,847 544,081 512,698 532,878 | 0.4 0.5 -0.3 -3.0 12.7 7.2 22.9 -6.8 -3.7 4.0 11.5 1.4 4.4 -0.4 2.4 -15.3 -16.5 1.7 |
| agricultural chemicals Pharmaceuticals and medicines Paints, coatings, and adhesives Plastics and rubber products | 3,990 24,832 4,163 24,598 | 3,852 24,733 4,166 24,608 | 3,752 24,476 4,114 24,455 | 0.4 -0.1 | 1.1 1.3 | 0.2 0.4 1.6 0.2 | 3,161 23,603 4,113 23,850 | 3,942 25,604 4,558 26,360 | 4,119 24,993 4,614 25,582 | 3,149 22,176 4,104 24,516 | 28,945 168,417 29,591 172,548 | 154,953 29,648 | -3.0 8.7 -0.2 -1.9 |

P Preliminary

<www.census.gov/manufacturing/m3/how_the_data_are_collected/index.html>.

^rRevised 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 and percent changes of shipments for the semiconductor industry 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 http://www.census.gov/manufacturing/m3/.

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-Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, July Full Report, September 5, 2023. Information on data sources and methodology can be found on our website at

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

| | | | Seasonally A | | | | | Orders Surv | | Seasonally A | djusted | | |
|---|---------------------------|---------------------------|--------------|----------------|---------------|-------------|---------------------------|---------------------------|--------------|--------------|-------------------|--------------|---------------------------|
| | | Monthly | | Pe | rcent Chang | ge | | Mon | thly | | | Year to date | |
| Industry | July 2023 ^p | June 2023 ^r | May 2023 | June - July | May - June | Apr May | July 2023 ^p | June 2023 ^r | May 2023 | July 2022 | 2023 ^p | 2022 | % Change 2023/ 2022 |
| All manufacturing industries ² | 579,438 | 592,112 | 578,626 | -2.1 | 2.3 | 0.4 | 554,308 | 626,053 | 588,969 | 561,920 | 4,026,507 | 4,004,734 | 0.5 |
| Excluding transportation ² | 480,804 | 477,014 | 475,766 | 0.8 | 0.3 | -0.4 | 470,549 | 500,938 | 491,447 | 484,503 | 3,357,163 | 3,411,072 | -1.6 |
| Excluding defense ² | 564,380 | 577,101 | 560,259 | -2.2 | 3.0 | 0.9 | 543,456 | 608,257 | 574,298 | 550,672 | 3,914,489 | 3,908,476 | 0.2 |
| With unfilled orders ² | 203,099 | 219,419 | 206,456 | -7.4 | 6.3 | 1.7 | 187,112 | 236,087 | 204,287 | 181,515 | 1,411,278 | 1,352,294 | 4.4 |
| Durable goods industries ² | 285,517 | 301,262 | 288,857 | -5.2 | 4.3 | 2.0 | 262,002 | 324,238 | 288,640 | 254,244 | 1,971,427 | 1,889,360 | 4.3 |
| Primary metals | 26,893 | 26,933 | 26,901 | -0.1 | 0.1 | 0.8 | 25,636 | 28,182 | 27,988 | 25,341 | 190,636 | 194,462 | -2.0 |
| Iron and steel mills | 14,791 | 14,906 | 14,963 | -0.8 | -0.4 | 0.2 | 14,373 | 15,611 | 15,895 | 14,888 | 106,137 | 105,917 | 0.2 |
| Aluminum and nonferrous metals | 10,531 | 10,385 | 10,276 | 1.4 | 1.1 | 2.2 | 9,775 | 10,793 | 10,364 | 9,087 | 72,585 | 77,064 | -5.8 |
| Ferrous metal foundries | 1,571 | 1,642 | 1,662 | -4.3 | -1.2 | -1.9 | 1,488 | 1,778 | 1,729 | 1,366 | 11,914 | 11,481 | 3.8 |
| Fabricated metal products | 35,799 | 35,539 | 35,267 | 0.7 | 0.8 | 0.1 | 34,400 | 37,311 | 37,951 | 34,357 | 252,085 | 254,971 | -1.1 |
| Machinery | 37,733 | 37,298 | 37,537 | 1.2 | -0.6 | 0.6 | 35,647 | 39,706 | 38,321 | 35,460 | 264,450 | 261,987 | 0.9 |
| Construction machinery | 4,204 | 4,278 | 4,363 | -1.7 | -1.9 | 0.0 | 3,928 | 4,504 | 4,323 | 3,646 | 29,730 | 26,471 | 12.3 |
| Mining, oil field, and | 1 (07 | 1 502 | 1 700 | 12.2 | 12.1 | 4 7 | 1 606 | 1 512 | 1 716 | 1 402 | 11 554 | 0.714 | 10.0 |
| gas field machinery | 1,687 | 1,502 | 1,709 | 12.3 | -12.1 | -4.7 | 1,606 | 1,513 | 1,716 | 1,403 | - | 9,714 | 18.9 |
| Industrial machinery | 3,480 628 | 3,314 616 | 3,640 643 | 5.0 1.9 | | 9.0 -4.5 | 3,336 575 | 3,697 588 | 3,416 623 | 4,029 619 | | 27,328 | -7.2 7.4 |
| Photographic equipmentVentilation, heating, air-conditioning, | 028 | 010 | 045 | 1.9 | -4.2 | -4.5 | 5/5 | 300 | 023 | 619 | 4,397 | 4,094 | 7.4 |
| and refrigeration equipment | 4,885 | 4,883 | 4,787 | 0.0 | 2.0 | 1.9 | 5,020 | 5,661 | 5,318 | 4,997 | 34,784 | 34,048 | 2.2 |
| Metalworking machinery Turbines, generators, and other | 2,717 | 2,573 | 2,586 | 5.6 | -0.5 | -5.7 | 2,565 | 2,565 | 2,526 | 2,507 | 18,640 | 19,383 | -3.8 |
| power transmission equipment | 4,136 | 4,289 | 4,055 | -3.6 | 5.8 | 0.4 | 3,920 | 4,351 | 4,227 | 3,322 | 27,805 | 24,443 | 13.8 |
| Material handling equipment | 4,240 | , 4,149 | 4,043 | 2.2 | 2.6 | | 3,629 | * | 3,975 | 3,101 | 27,797 | 26,080 | |
| Computers and electronic products ² | 24,409 | 24,458 | 24,165 | -0.2 | 1.2 | | 22,249 | 26,919 | 22,298 | 21,833 | • | 159,977 | 2.2 |
| Computers | 852 | 834 | 808 | 2.2 | 3.2 | 0.4 | - | 1,003 | 801 | 758 | · | 5,027 | 10.6 |
| Nondefense communications | | | | | | | | | | | | | |
| equipment | 2,781 | 2,753 | 2,647 | 1.0 | 4.0 | -2.0 | 2,266 | 3,391 | 2,207 | 2,281 | 18,263 | 19,225 | -5.0 |
| Defense communications equipment | 208 | 200 | 209 | 4.0 | | 1.0 | | 204 | 187 | 181 | 1,360 | 1,290 | |
| Electronic components Nondefense search and navigation | 4,555 | 4,658 | 4,669 | -2.2 | -0.2 | 4.9 | 4,501 | 4,796 | 4,591 | 4,724 | 31,754 | 32,311 | -1.7 |
| equipment Defense search and navigation | 1,724 | 1,718 | 1,775 | 0.3 | -3.2 | -0.1 | 1,533 | 1,895 | 1,716 | 1,530 | 12,023 | 11,943 | 0.7 |
| equipment | 3,362 | 3,518 | 3,351 | -4.4 | 5.0 | 0.4 | 2,821 | 3,957 | 2,909 | 2,568 | 22,856 | 20,758 | 10.1 |
| Electromedical, measuring, and control instruments | 8,898 | 8,918 | 8,866 | -0.2 | 0.6 | -0.6 | 8,228 | 9,620 | 8,260 | 8,303 | 59,864 | 59,490 | 0.6 |
| Electrical equipment, appliances, | , | ŕ | , | | | | , | , | , | , | , | , | |
| and components | 14,381 | 14,222 | 14,161 | 1.1 | 0.4 | 2.4 | 13,321 | 15,493 | 14,378 | 12,531 | 98,645 | 92,863 | 6.2 |
| Electric lighting equipment | 1,306 | 1,344 | 1,363 | | | 2.4 | - | 1,568 | 1,333 | 1,171 | , | 8,383 | |
| Household appliances | 2,548 | 2,385 | 2,382 | 6.8 | 0.1 | 6.8 | 2,217 | 2,530 | 2,435 | 1,969 | * | 15,387 | 4.7 |
| Electrical equipment | 4,721 | 4,555 | 4,661 | 3.6 | -2.3 | 1.2 | - | 5,094 | 4,773 | 4,129 | · · | 31,052 | 6.6 |
| Transportation equipment | 98,634 | 115,098 | 102,860 | -14.3 | 11.9 | 4.2 | 83,759 | 125,115 | 97,522 | 77,417 | 669,344 | 593,662 | 12.7 |
| Motor vehicle bodies, parts, | | , <u> </u> | · | | | | ŕ | | , | • | · | ŕ | |
| and trailers | 29,295 | 29,206 | 28,882 | 0.3 | 1.1 | -0.1 | 25,322 | 29,959 | 29,498 | 24,621 | 202,451 | 193,925 | 4.4 |
| Nondefense aircraft and parts | 21,167 | 37,499 | 21,919 | -43.6 | 71.1 | 33.4 | 20,995 | 41,930 | 19,317 | 15,728 | 132,063 | 100,084 | 32.0 |
| Defense aircraft and parts | 4,751 | 5,334 | 5,231 | -10.9 | 2.0 | -32.2 | 3,427 | 6,278 | 3,891 | 3,030 | 36,218 | 30,881 | 17.3 |
| Ships and boats | 3,344 | 2,564 | 6,071 | 30.4 | -57.8 | 56.1 | 2,430 | 3,702 | 4,847 | 3,578 | 27,865 | 24,460 | |
| Furniture and related products | 6,578 | 6,660 | 6,698 | -1.2 | -0.6 | -1.0 | 6,466 | 6,818 | 6,865 | 6,729 | 47,690 | 47,254 | 0.9 |
| Nondurable goods industries | 293,921 | 290,850 | 289,769 | 1.1 | 0.4 | -1.1 | 292,306 | 301,815 | 300,329 | 307,676 | 2,055,080 | 2,115,374 | -2.9 |

^p Preliminary

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/.

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-FY23-0265).

Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, July Full Report, September 5, 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.

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.

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

| | | | Seasonally Ac | ljusted | | | Not Seasonally Adjusted | | | | | | |
|---|---------------------------|---------------------------|---------------|----------------|---------------|------------|---------------------------|---------------------------|-------------|--------------|-----------------------|--|--|
| | | Monthly | | Po | ercent Chang | е | | Mon | nthly | | % Change | | |
| Industry | July 2023 ^p | June 2023 ^r | May 2023 | June - July | May - June | Apr May | July 2023 ^p | June 2023 ^r | May 2023 | July 2022 | July 2023/ 2022 | | |
| All manufacturing industries ² | 1,331,999 | 1,324,777 | 1,301,975 | 0.5 | 1.8 | 0.8 | 1,333,439 | 1,326,739 | 1,305,694 | 1,250,446 | 6.6 | | |
| _ | | | | | | | | | | | | | |
| Excluding transportation ² | 497,912 | 497,684 | 498,061 | 0.0 | -0.1 | -0.1 | 500,445 | 501,054 | 503,927 | 503,246 | -0.6 | | |
| Excluding defense ² | 1,089,313 | 1,081,548 | 1,057,959 | 0.7 | 2.2 | 0.7 | 1,091,202 | 1,081,437 | 1,061,528 | 1,022,948 | 6.7 | | |
| Durable goods industries ² | 1,331,999 | 1,324,777 | 1,301,975 | 0.5 | 1.8 | 0.8 | 1,333,439 | 1,326,739 | 1,305,694 | 1,250,446 | 6.6 | | |
| Primary metals | 38,083 | 37,826 | 37,717 | 0.7 | 0.3 | 0.0 | 38,361 | 38,151 | 38,432 | 39,591 | -3.1 | | |
| Iron and steel mills | 22,848 | 22,701 | 22,629 | 0.6 | 0.3 | 0.1 | 23,233 | 22,992 | 23,111 | 23,504 | -1.2 | | |
| Aluminum and nonferrous metals | 10,620 | 10,501 | 10,482 | 1.1 | 0.2 | -0.4 | 10,526 | 10,555 | 10,671 | 11,588 | -9.2 | | |
| Ferrous metal foundries | 4,615 | 4,624 | 4,606 | -0.2 | 0.4 | 0.3 | 4,602 | 4,604 | 4,650 | 4,499 | 2.3 | | |
| Fabricated metal products | 128,960 | 128,906 | 129,055 | 0.0 | -0.1 | 0.0 | 131,101 | 131,071 | 131,655 | 132,771 | -1.3 | | |
| Machinery | 139,251 | 139,416 | 139,910 | -0.1 | -0.4 | -0.1 | 139,266 | 139,409 | 141,131 | 139,402 | -0.1 | | |
| Construction machinery | 10,969 | 10,960 | 11,009 | 0.1 | -0.4 | 0.1 | 10,739 | 10,835 | 11,246 | 12,292 | -12.6 | | |
| Mining, oil field, and | | | | | | | | | | | | | |
| gas field machinery | 4,963 | 5,047 | 5,229 | -1.7 | -3.5 | -1.7 | 4,963 | 5,047 | 5,229 | 5,162 | -3.9 | | |
| Industrial machinery | 11,919 | 12,146 | 12,507 | -1.9 | -2.9 | 2.4 | 12,028 | 12,195 | 12,747 | 11,934 | 0.8 | | |
| Photographic equipmentVentilation, heating, air-conditioning, | 4,051 | 4,078 | 4,116 | -0.7 | -0.9 | -0.5 | 3,856 | 3,894 | 4,056 | 3,517 | 9.6 | | |
| and refrigeration equipment | 13,542 | 13,642 | 13,594 | -0.7 | 0.4 | -0.6 | 13,662 | 13,795 | 14,040 | 12,381 | 10.3 | | |
| Metalworking machinery | 9,663 | 9,614 | 9,691 | 0.7 | -0.8 | -1.8 | 9,714 | 9,523 | 9,764 | 10,534 | -7.8 | | |
| Turbines, generators, and other | 3,003 | 3,014 | 3,031 | 0.5 | 0.8 | 1.0 | 3,714 | 3,323 | 3,704 | 10,554 | 7.0 | | |
| power transmission equipment | 32,336 | 32,086 | 31,816 | 0.8 | 0.8 | -0.1 | 32,336 | 32,086 | 31,816 | 32,165 | 0.5 | | |
| Material handling equipment | 19,513 | 19,416 | 19,422 | 0.5 | 0.0 | -0.1 | 19,372 | 19,446 | 19,172 | 18,127 | 6.9 | | |
| • | 134,836 | 134,777 | 134,558 | 0.0 | 0.0 | 0.0 | 134,778 | ŕ | 134,960 | 134,073 | 0.5 | | |
| Computers and electronic products ² | | • | - | | | | • | 135,202 | * | - | | | |
| Computers | 1,297 | 1,285 | 1,274 | 0.9 | 0.9 | -2.7 | 1,297 | 1,285 | 1,274 | 1,326 | -2.2 | | |
| Nondefense communications | 46.005 | 46.020 | 46.004 | 0.2 | 0.4 | 0.0 | 46 726 | 16.046 | 47.060 | 47.545 | 4.6 | | |
| equipment | 16,885 | 16,929 | 16,994 | -0.3 | -0.4 | -0.8 | 16,736 | 16,946 | 17,069 | 17,545 | -4.6 | | |
| Defense communications equipment | 240 | 240 | 238 | 0.0 | 0.8 | 1.7 | 234 | 234 | 230 | 255 | -8.2 | | |
| Electronic components | 16,806 | 16,879 | 16,931 | -0.4 | -0.3 | 0.0 | 16,719 | 16,730 | 16,965 | 17,672 | -5.4 | | |
| Nondefense search and navigation equipment | 31,253 | 31,161 | 31,071 | 0.3 | 0.3 | 0.4 | 31,319 | 31,222 | 31,083 | 29,881 | 4.8 | | |
| Defense search and navigation | 26 274 | 26 227 | 26.005 | 0.1 | 0.6 | 0.2 | 26.220 | 26.620 | 25,050 | 25.647 | 4.0 | | |
| equipment Electromedical, measuring, | 36,274 | 36,227 | 36,005 | 0.1 | 0.6 | 0.2 | 36,339 | 36,628 | 36,068 | 35,647 | 1.9 | | |
| and control instruments | 32,081 | 32,056 | 32,045 | 0.1 | 0.0 | -0.1 | 32,134 | 32,157 | 32,271 | 31,747 | 1.2 | | |
| Electrical equipment, appliances, | 32,081 | 32,030 | 32,043 | 0.1 | 0.0 | -0.1 | 32,134 | 32,137 | 32,271 | 31,747 | 1.2 | | |
| and components | 44,027 | 43,709 | 43,524 | 0.7 | 0.4 | 0.3 | 43,984 | 43,858 | 43,998 | 43,056 | 2.2 | | |
| Electric lighting equipment | 3,905 | 3,902 | 3,871 | 0.7 | 0.4 | 1.8 | 3,901 | 3,962 | 3,792 | 3,357 | 16.2 | | |
| Household appliances | 4,881 | 3,902 4,684 | 4,649 | 4.2 | 0.8 | 0.4 | 4,790 | 4,593 | 4,665 | 4,034 | 18.7 | | |
| Electrical equipment | 22,577 | 22,544 | 22,584 | 0.1 | -0.2 | 0.4 | 22,633 | 22,556 | 22,884 | 23,379 | -3.2 | | |
| Transportation equipment | 834,087 | 827,093 | 803,914 | 0.1 | 2.9 | 1.4 | 832,994 | 825,685 | 801,767 | 747,200 | -5.2 11.5 | | |
| Motor vehicle bodies, parts, | 054,007 | 027,033 | 003,314 | 0.8 | ۷.5 | 1.4 | 032,334 | 023,003 | 001,707 | 747,200 | 11.5 | | |
| and trailers | 35,300 | 35,213 | 35,101 | 0.2 | 0.3 | -0.1 | 34,413 | 34,600 | 35,246 | 35,111 | -2.0 | | |
| Nondefense aircraft and parts | 579,938 | 571,956 | 548,245 | 1.4 | 4.3 | 1.5 | 580,283 | 569,464 | 545,918 | 507,221 | 14.4 | | |
| Defense aircraft and parts | 71,751 | 71,786 | 71,281 | 0.0 | 0.7 | 0.6 | 71,373 | 72,172 | 71,194 | 66,421 | 7.5 | | |
| Ships and boats | 56,103 | 56,232 | 57,373 | -0.2 | -2.0 | 4.2 | 56,825 | 57,465 | 57,757 | 52,956 | 7.3 | | |
| Furniture and related products | 10,732 | 10,946 | 11,162 | -2.0 | -1.9 | -1.3 | 10,932 | 11,259 | 11,616 | 12,075 | -9.5 | | |

^p Preliminary

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/.

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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.

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Table 4. Value of Manufacturers' Inventories for Industry Groups¹

| | | Monthly | Seasonally Ad | | ercent Chang | <u> </u> | | | Seasonally Adju | sted | % Change |
|--|--------------------|--------------------|--------------------|--------------|--------------|--------------|--------------------|--------------------|------------------|--------------------|----------------|
| Industry | July | June | May | June - | May - | Apr | July | June | May | July | July 2023/ |
| | 2023 ^p | 2023 ^r | 2023 | July | June | May | 2023 ^p | 2023 ^r | 2023 | 2022 | 2022 |
| All manufacturing industries | 852,536 | 851,905 | 853,314 | | -0.2 | -0.2 | 856,570 | 851,895 | - | 860,467 | -0.5 |
| Excluding transportation | 688,718 | 687,840 | 689,176 | 0.1 0.1 | -0.2 | -0.3 | - | 688,534 | - | 696,033 | -0.7 -0.6 |
| Excluding defense With unfilled orders | 823,148 422,244 | 822,463 422,620 | 823,901 422,572 | -0.1 | -0.2 0.0 | -0.3 0.2 | 827,166 425,021 | 822,357 423,468 | - | 831,930 419,807 | 1.2 |
| Durable goods industries | 522,226 | , 522,478 | 522,669 | | 0.0 | 0.2 | 524,814 | , 522,292 | | , 518,893 | 1.1 |
| | | | | | | | | | | | |
| Wood products Nonmetallic mineral products | 15,783 17,137 | 15,831 17,108 | 16,019 17,109 | -0.3 0.2 | -1.2 0.0 | -0.8 0.5 | 15,516 17,208 | 15,575 17,208 | | 16,483 16,405 | -5.9 4.9 |
| Primary metals | 46,363 | 46,588 | 46,831 | -0.5 | -0.5 | 0.4 | 46,679 | 46,945 | 47,421 | 48,521 | -3.8 |
| Iron and steel mills Aluminum and nonferrous metals | 27,208 | 27,344 16,001 | 27,425 16,247 | -0.5 | -0.3 1.0 | 0.5 0.1 | 27,470 16,137 | 27,651 16,139 | 27,561 16.645 | 28,755 | -4.5 -4.4 |
| Ferrous metal foundries | 16,037 3,118 | 16,091 3,153 | 16,247 3,159 | -0.3 -1.1 | -1.0 -0.2 | 1.5 | 16,127 3,082 | 16,128 3,166 | | 16,863 2,903 | 6.2 |
| Fabricated metal products | 64,886 | 64,966 | 64,797 | -0.1 | 0.3 | 0.4 | 65,630 | 65,253 | 65,547 | 65,962 | -0.5 |
| Machinery Farm machinery | 94,865 5,811 | 94,737 5,765 | 94,545 5,711 | 0.1 0.8 | 0.2 0.9 | 0.6 0.7 | 94,269 5,609 | 94,807 5,616 | 95,359 5,710 | 88,275 5,822 | 6.8 -3.7 |
| Construction machinery | 9,453 | 9,456 | 9,397 | | 0.6 | 0.5 | 9,368 | 9,381 | 9,491 | 8,467 | 10.6 |
| Mining, oil field, | 5 702 | F 060 | F 06F | | 0.4 | 4.2 | 5 000 | F 0F0 | 5 027 | F 200 | 0.7 |
| and gas field machinery Industrial machinery | 5,783 11,181 | 5,868 11,248 | 5,865 11,278 | | 0.1 -0.3 | 1.2 1.2 | 5,800 10,727 | 5,950 11,566 | | 5,288 10,099 | 9.7 6.2 |
| Photographic equipment | 1,469 | 1,466 | 1,473 | 0.2 | -0.5 | -0.1 | 1,477 | 1,435 | | 1,419 | 4.1 |
| Ventilation, heating, air-conditioning, | 0.750 | 0.700 | 0.570 | 0.4 | 1 5 | 1 7 | 0.622 | 0.726 | 0.050 | 0 227 | 16.0 |
| and refrigeration equipment Metalworking machinery | 9,750 7,474 | 9,709 7,428 | 9,570 7,374 | | 1.5 0.7 | 1.7 -0.3 | 9,633 7,566 | 9,736 7,419 | | 8,237 7,250 | 16.9 4.4 |
| Turbines, generators, and other | | , | | | | | | · | · | | |
| power transmission equipment Material handling equipment | 12,111 7,932 | 11,883 8,003 | 11,841 8,172 | 1.9 -0.9 | 0.4 -2.1 | 0.1 1.5 | 12,308 7,912 | 11,892 7,992 | 12,001 8,198 | 11,197 7,207 | 9.9 9.8 |
| Computers and electronic products ² | 54,921 | 54,857 | 54,987 | 0.5 | -0.2 | -0.1 | 55,368 | 54,641 | 55,559 | 55,180 | 0.3 |
| Computers | 1,881 | 1,924 | 1,953 | -2.2 | -1.5 | -3.3 | 1,924 | 2,003 | - | 2,191 | -12.2 |
| Computer storage devices | 618 | 630 | 623 | -1.9 1.1 | 1.1 | -3.1 | 639 | 618 | 626 | 683 | -6.4 9.8 |
| Other peripheral equipment Nondefense communications | 1,071 | 1,059 | 1,043 | 1.1 | 1.5 | 0.4 | 1,043 | 1,040 | 1,091 | 950 | 9.8 |
| equipment | 4,367 | 4,373 | 4,386 | | -0.3 | -0.3 | 4,390 | 4,346 | | 4,412 | -0.5 |
| Defense communications equipment | 634 793 | 634 780 | 634 820 | 0.0 1.7 | 0.0 -4.9 | -1.1 -4.5 | 634 749 | 634 788 | 634 853 | 603 818 | 5.1 -8.4 |
| Audio and video equipment Electronic components | 10,640 | 10,526 | 10,654 | | -4.9 -1.2 | -4.5 -0.4 | | 10,449 | | 11,543 | -6.4 -6.6 |
| Nondefense search and navigation | | | | | | | | | | | |
| equipment Defense search and navigation | 4,213 | 4,211 | 4,193 | 0.0 | 0.4 | 0.3 | 4,261 | 4,177 | 4,182 | 4,059 | 5.0 |
| equipment | 3,338 | 3,348 | 3,338 | -0.3 | 0.3 | -0.2 | 3,365 | 3,349 | 3,408 | 3,392 | -0.8 |
| Electromedical, measuring | 10.000 | 40.004 | 40.000 | 0.0 | 0.0 | 0.4 | 10.100 | 10.024 | 40.440 | 40.655 | 2.0 |
| and control instruments Electrical equipment, appliances, | 18,960 | 19,004 | 19,039 | -0.2 | -0.2 | 0.1 | 19,189 | 18,934 | 19,412 | 18,655 | 2.9 |
| and components | 26,375 | 26,304 | 26,187 | 0.3 | 0.4 | 0.4 | 26,613 | 26,522 | 26,676 | 25,410 | 4.7 |
| Electric lighting equipment | 2,538 | 2,532 | 2,531 | 0.2 | 0.0 | 1.1 | 2,524 | 2,527 | 2,533 | 2,519 | 0.2 -4.6 |
| Household appliances Electrical equipment | 3,627 9,909 | 3,636 9,840 | 3,622 9,654 | -0.2 0.7 | 0.4 1.9 | 1.0 0.5 | 3,742 9,960 | 3,675 9,883 | 3,677 9,960 | 3,924 8,938 | -4.0 11.4 |
| Batteries | 1,899 | 1,894 | 1,891 | 0.3 | 0.2 | 0.4 | 1,967 | 2,009 | 1,996 | 1,868 | 5.3 |
| Transportation equipment Automobiles | 163,818 5,981 | 164,065 5,879 | 164,138 5,857 | -0.2 1.7 | 0.0 0.4 | 0.0 1.1 | 165,227 6,032 | 163,361 5,706 | | 164,434 5,639 | 0.5 7.0 |
| Light trucks and utility vehicles | 9,150 | 9,335 | 9,574 | | -2.5 | 1.1 | 9,236 | 8,969 | , | 9,729 | -5.1 |
| Heavy duty trucks | 2,843 | 2,856 | 2,873 | -0.5 | -0.6 | -2.3 | 2,888 | 2,903 | 2,971 | 2,964 | -2.6 |
| Motor vehicle bodies, parts, and trailers | 35,651 | 35,373 | 35,209 | 0.8 | 0.5 | -0.1 | 36,154 | 35,158 | 35,325 | 35,630 | 1.5 |
| Nondefense aircraft and parts | 77,248 | 77,607 | | | -0.1 | -0.1 | 77,803 | 77,658 | | 78,668 | -1.1 |
| Defense aircraft and parts | 14,126 | 14,184 | 14,176 | | 0.1 | 0.6 | 14,151 | 14,169 | | 14,160 | -0.1 |
| Ships and boats Furniture and related products | 4,617 10,220 | 4,661 10,243 | 4,586 10,358 | | 1.6 -1.1 | 0.5 -0.7 | 4,566 10,303 | 4,737 10,364 | | 4,343 10,632 | 5.1 -3.1 |
| Miscellaneous durable goods | 27,858 | 27,779 | 27,698 | 0.3 | 0.3 | 0.0 | • | 27,616 | | 27,591 | 1.5 |
| Nondurable goods industries | 330,310 | 329,427 | 330,645 | 0.3 | -0.4 | -0.9 | 331,756 | 329,603 | 332,282 | 341,574 | -2.9 |
| Food products | 71,085 | 71,423 | 71,653 | -0.5 | -0.3 | -0.7 | 69,854 | 69,645 | 69,728 | 69,433 | 0.6 |
| Grain and oilseed milling | 7,719 | 7,723 | 7,696 | | 0.4 | -2.3 | 7,560 | 7,482 | | 7,728 | -2.2 |
| Dairy products | 10,786 | 10,820 | 10,895 | | -0.7 | -0.4 | , | 11,168 | | 10,742 | 3.5 |
| Meat, poultry, and seafood products Beverage and tobacco products | 13,194 31,061 | 13,191 31,106 | 13,207 31,019 | 0.0 -0.1 | -0.1 0.3 | -1.1 -0.1 | 13,190 30,405 | 12,931 30,697 | 13,044 31,038 | 13,432 30,100 | -1.8 1.0 |
| Beverages | 27,408 | 27,416 | 27,311 | 0.0 | 0.4 | -0.1 | 27,004 | 27,162 | | 26,543 | 1.7 |
| Tobacco | 3,653 | 3,690 | 3,708 | -1.0 -0.4 | -0.5 | -0.1 | 3,401 | 3,535 | 3,637 | 3,557 | -4.4 -3.4 |
| Textile mills Textile products | 3,610 3,676 | 3,624 3,698 | 3,615 3,723 | -0.4 -0.6 | 0.2 -0.7 | 0.4 -0.9 | 3,649 3,653 | 3,625 3,664 | | 3,778 3,935 | -3.4 -7.2 |
| Apparel | 2,187 | 2,190 | 2,194 | -0.1 | -0.2 | -1.3 | 2,276 | 2,265 | 2,197 | 2,307 | -1.3 |
| Leather and allied products | 1,257 17,976 | 1,271 18 125 | 1,284 18 321 | | -1.0 -1.1 | 0.1 | 1,284 18 230 | 1,277 18 151 | | 1,309 18 674 | -1.9 -2.4 |
| Paper products Pulp, paper, and paperboard mills | 17,976 5,583 | 18,125 5,657 | 18,321 5,719 | -0.8 -1.3 | -1.1 -1.1 | -0.4 0.1 | 18,230 5,633 | 18,151 5,669 | 18,374 5,752 | 18,674 5,637 | -2.4 -0.1 |
| Paperboard containers | 6,835 | 6,874 | 6,969 | -0.6 | -1.4 | -0.6 | 6,932 | 6,850 | 6,955 | 6,989 | -0.8 |
| Printing Petroleum and coal products | 6,860 46,001 | 6,902 44,207 | 6,971 44,400 | -0.6 4.1 | -1.0 -0.4 | -0.7 -4.1 | 6,788 48,231 | 6,813 46,551 | | 7,094 55,571 | -4.3 -13.2 |
| Petroleum refineries | 39,190 | 44,207 37,373 | 44,400 37,476 | 4.1 4.9 | -0.4 -0.3 | -4.1 -4.5 | 48,231 | 39,659 | | 48,516 | -13.2 -14.8 |
| Chemical products | 112,683 | 112,804 | 113,118 | | -0.3 | -0.2 | 113,468 | 112,979 | | 114,283 | -0.7 |
| Pesticides, fertilizers, and other agricultural chemicals | 6 120 | 6 157 | 6,092 | 0.3 | 1 1 | 1 - | E 020 | E 020 | 6.060 | 5,882 | 0.6 |
| Pharmaceuticals and medicines | 6,138 47,805 | 6,157 47,558 | 6,092 47,401 | | 1.1 0.3 | 1.5 -0.2 | 5,920 48,064 | 5,920 48,225 | 6,060 47,912 | 5,882 46,755 | 2.8 |
| Paints, coatings, and adhesives | 5,715 | 5,797 | 5,862 | -1.4 | -1.1 | -0.9 | 5,735 | 5,827 | 5,941 | 5,865 | -2.2 |
| Plastics and rubber products | 33,914 | 34,077 | 34,347 | -0.5 | -0.8 | -0.7 | 33,918 | 33,936 | 34,524 | 35,090 | -3.3 |

^p 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 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 http://www.census.gov/manufacturing/m3/.

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

| LESTIMATES are snown in millions of dollar | s and are se | | asonally Adju | | cuicis : | Jinpinen | ts, 1114 c11to1 | ies, una ore | - | : Seasonally <i>A</i> | \djusted | | |
|---|--|--|--|----------------|-------------------------------|------------------------------|--|--|--|--|-------------------|---|----------------------------------|
| | | Monthly | | Per | cent Chai | nge | | Mon | ithly | | Year t | o date | |
| Industry | July 2023 ^p | June 2023 ^r | May 2023 | June - July | May - June | Apr May | July 2023 ^p | June 2023 ^r | May 2023 | July 2022 | 2023 ^p | 2022 | % Change ⁶ 2023/ 2022 |
| <u>SHIPMENTS</u> | | | | | | | | | | | | | |
| All manufacturing industries | 577,179 | 574,298 | 573,181 | 0.5 | 0.2 | 0.4 | 552,405 | 609,697 | 588,352 | 560,185 | 3,997,286 | 3,977,392 | 0.5 |
| Construction materials and supplies Information technology Computers and related products Motor vehicle and parts | 62,509 24,710 1,965 63,039 | 62,390 24,645 2,011 62,538 | 62,266 24,696 2,052 62,808 | 0.3 -2.3 | | 0.8 -0.2 | 62,906 23,078 1,885 52,868 | 68,672 27,255 2,463 66,166 | 66,940 23,666 1,850 63,869 | 62,815 22,455 1,729 50,150 | 166,216 13,404 | 434,824 161,799 11,165 396,537 | 2.7 20.1 |
| Capital goods Nondefense capital goods ³ Excluding aircraft Defense capital goods ⁴ | 95,706 82,377 73,822 13,329 | 96,854 83,296 74,034 13,558 | 96,516 83,303 74,051 13,213 | -1.1 -0.3 | 0.0 | 3.8 0.3 | 87,066 75,174 69,140 11,892 | 108,742 94,622 81,134 14,120 | 95,243 82,382 74,023 12,861 | 82,789 71,458 67,664 11,331 | 562,924 | 606,455 523,687 489,850 82,768 | 7.5 4.3 |
| Consumer goods Consumer durable goods Consumer nondurable goods | 245,118 46,545 198,573 | 241,450 45,989 195,461 | 241,045 46,507 194,538 | 1.2 | -1.1 | -0.7 3.9 -1.8 | 238,405 38,913 199,492 | 249,492 48,727 200,765 | 247,637 46,429 201,208 | 250,282 37,062 213,220 | 309,613 | 1,726,237 290,931 1,435,306 | 6.4 |
| NEW ORDERS All manufacturing industries ⁵ | 579 <i>,</i> 438 | 592,112 | 578,626 | -2.1 | 2.3 | 0.4 | 554,308 | 626,053 | 588,969 | 561,920 | 4,026,507 | 4,004,734 | 0.5 |
| Construction materials and supplies Information technology Computers and related products Motor vehicle and parts | 62,270 24,900 1,977 63,126 | 62,265 25,037 2,022 62,650 | 62,057 24,597 2,017 62,777 | -2.2 | | 0.3 -1.7 | 62,330 22,540 1,897 52,681 | 68,178 27,660 2,474 65,520 | 67,709 22,900 1,815 63,079 | 62,627 22,144 1,739 49,792 | 13,418 | 441,274 163,462 11,164 395,743 | 2.6 20.2 |
| Capital goods Nondefense capital goods ³ Excluding aircraft Defense capital goods ⁴ | 102,159 89,816 73,597 12,343 | 118,425 106,376 73,559 12,049 | 106,810 91,113 73,873 15,697 | -15.6 | 10.9 16.8 -0.4 -23.2 | | 93,644 85,101 68,419 8,543 | 130,324 116,179 79,168 14,145 | 101,219 88,281 73,243 12,938 | 89,953 80,422 68,070 9,531 | 613,932 | 654,988 576,026 501,088 78,962 | 6.6 2.3 |
| Consumer goods Consumer durable goods Consumer nondurable goods | 245,165 46,592 198,573 | 241,403 45,942 195,461 | 241,028 46,490 194,538 | 1.4 | -1.2 | -0.7 3.9 -1.8 | 238,583 39,091 199,492 | 249,231 48,466 200,765 | 247,503 46,295 201,208 | 250,223 37,003 213,220 | 309,711 | 1,725,605 290,299 1,435,306 | 6.7 |
| UNFILLED ORDERS | | | | | | | | | | | | | |
| All manufacturing industries ⁵ | 1,331,999 | 1,324,777 | 1,301,975 | 0.5 | 1.8 | 0.8 | 1,333,439 | 1,326,739 | 1,305,694 | 1,250,446 | (X) | (X) | 6.6 |
| Construction materials and supplies Information technology Computers and related products Motor vehicle and parts | 99,723 134,745 1,297 35,300 | 99,962 134,555 1,285 35,213 | 100,087 134,163 1,274 35,101 | 0.1 | 0.3 | -0.2 -0.1 -2.7 -0.1 | 101,593 134,575 1,297 34,413 | 102,169 135,113 1,285 34,600 | 102,663 134,708 1,274 35,246 | 101,702 132,204 1,326 35,111 | (X) | (X) (X) (X) (X) | 1.8 -2.2 |
| Capital goods Nondefense capital goods ³ Excluding aircraft Defense capital goods ⁴ | 989,772 778,946 272,252 210,826 | 983,319 771,507 272,477 211,812 | 961,748 748,427 272,952 213,321 | 1.0 | -0.2 | 1.1 | 990,140 779,652 272,375 210,488 | 983,562 769,725 273,096 213,837 | 961,980 748,168 275,062 213,812 | 907,562 708,044 273,916 199,518 | (X) (X) | (X) (X) (X) (X) | 10.1 -0.6 |
| Consumer goods Consumer durable goods | 12,016 12,016 | 11,969 11,969 | 12,016 12,016 | | -0.4 -0.4 | | 11,976 11,976 | 11,798 11,798 | 12,059 12,059 | 11,763 11,763 | | (X) (X) | |
| TOTAL INVENTORIES | · | | | | | | | · | | · | , , | | |
| All manufacturing industries | 852,536 | 851,905 | 853,314 | 0.1 | -0.2 | -0.2 | 856,570 | 851,895 | 859,332 | 860,467 | (X) | (X) | -0.5 |
| Construction materials and supplies Information technology Computers and related products Motor vehicle and parts | 92,844 45,911 3,570 53,625 | 92,961 45,995 3,613 53,443 | 93,013 46,158 3,619 53,513 | -0.2 -1.2 | -0.2 | -2.2 | 92,945 46,246 3,606 54,310 | 93,015 45,897 3,661 52,736 | 94,182 46,826 3,712 54,047 | 92,470 45,497 3,824 53,962 | (X) (X) | (X) (X) (X) (X) | 1.6 -5.7 |
| Capital goods Nondefense capital goods ³ Excluding aircraft Defense capital goods ⁴ | 249,217 225,059 161,976 24,158 | 249,598 225,378 161,880 24,220 | 249,746 225,547 161,753 24,199 | -0.1 0.1 | -0.1 0.1 | 0.1 0.1 0.2 0.3 | 250,187 226,038 162,259 24,149 | 250,276 225,945 162,130 24,331 | 251,649 227,346 163,562 24,303 | 243,733 220,321 155,132 23,412 | (X) | (X) (X) (X) (X) | 2.6 4.6 |
| Consumer goods Consumer durable goods Consumer nondurable goods | 253,076 42,165 210,911 | 251,661 42,242 209,419 | 252,309 42,608 209,701 | 0.6 -0.2 | -0.3 | | 254,065 42,347 211,718 | 251,787 41,548 210,239 | 253,478 42,989 | 261,226 43,340 217,886 | (X) (X) | (X) (X) (X) | -2.7 -2.3 |

X Not Applicable

^p 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.

²Topical 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 computer storage devices; other computer peripheral equipment; communications equipment; search and navigation equipment; electromedical, measuring, and control instruments; 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.

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/.

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

| [Estimates are shown in millions of dollars | and are based | Monthly | Seasonally Ad | justed | ercent Chang | | u Orders Surve | - | Seasonally Adjus | ted | % Change |
|--|---------------------------|---------------------------|-------------------|----------------|---------------|--------------|---------------------------|---------------------------|-------------------|-------------------|---------------|
| Industry | | IVIOITITITY | | r | ercent chang | e | | IVIOI | ltilly | | July |
| | July 2023 ^p | June 2023 ^r | May 2023 | June - July | May - June | Apr May | July 2023 ^p | June 2023 ^r | May 2023 | July 2022 | 2023/ 2022 |
| MATERIALS AND SUPPLIES | | | | | | | | | | | |
| All manufacturing industries | 315,293 | 314,857 | 314,764 | 0.1 | 0.0 | -0.3 | 317,113 | 315,316 | 315,240 | 318,569 | -0.5 |
| Durable goods industries | 197,751 | 197,469 | 197,154 | 0.1 | 0.2 | 0.0 | 199,244 | 197,432 | * | 196,179 | 1.6 |
| Wood products Nonmetallic mineral products | 7,605 7,690 | 7,632 7,707 | 7,714 7,757 | -0.4 -0.2 | -1.1 -0.6 | -1.1 0.9 | 7,474 7,707 | 7,450 7,728 | 7,427 7,818 | 7,933 7,218 | -5.8 6.8 |
| Primary metals | 18,865 | 19,080 | 18,958 | -1.1 | 0.6 | -0.7 | 19,037 | 19,388 | 18,975 | 20,060 | -5.1 |
| Fabricated metal products Machinery | 24,440 40,739 | 24,521 40,392 | 24,489 40,422 | -0.3 0.9 | 0.1 -0.1 | 0.2 -0.5 | 24,721 40,976 | 24,604 40,381 | 24,485 40,761 | 26,118 38,693 | -5.3 5.9 |
| Computers and electronic products Electrical equipment, appliances, | 26,690 | 26,627 | 26,559 | 0.2 | 0.3 | 0.1 | 26,938 | 26,728 | 26,757 | 25,754 | 4.6 |
| and components | 12,658 | 12,662 | 12,647 | 0.0 | 0.1 | 0.0 | 12,836 | 12,779 | 12,831 | 12,156 | 5.6 |
| Transportation equipment Furniture and related products | 44,021 5,222 | 43,794 5,264 | 43,533 5,313 | 0.5 -0.8 | 0.6 -0.9 | 1.0 -0.9 | 44,417 5,250 | 43,314 5,361 | 43,202 5,415 | 43,236 5,360 | 2.7 -2.1 |
| Miscellaneous products | 9,821 | 9,790 | 9,762 | 0.3 | 0.3 | -0.7 | 9,888 | 9,699 | 9,750 | 9,651 | 2.5 |
| Nondurable goods industries Food products | 117,542 26,011 | 117,388 26,085 | 117,610 26,165 | 0.1 -0.3 | -0.2 -0.3 | -0.8 -0.5 | 117,869 25,791 | 117,884 25,874 | 117,819 25,705 | 122,390 26,068 | -3.7 -1.1 |
| Beverage and tobacco products | 6,432 | 6,493 | 6,391 | -0.9 | 1.6 | 0.2 | 6,113 | 6,313 | 6,373 | 5,725 | 6.8 |
| Textiles Textile products | 1,460 1,698 | 1,462 1,696 | 1,456 1,722 | -0.1 0.1 | 0.4 -1.5 | 0.4 -0.2 | 1,475 1,692 | 1,472 1,684 | 1,467 1,719 | 1,505 1,803 | -2.0 -6.2 |
| Apparel Leather and allied products | 562 382 | 566 380 | 568 388 | -0.7 0.5 | -0.4 -2.1 | 0.4 -1.8 | 581 396 | 580 381 | 568 393 | 678 420 | -14.3 -5.7 |
| Paper products | 9,381 | 9,544 | 9,667 | -1.7 | -1.3 | -0.5 | 9,497 | 9,502 | 9,625 | 9,824 | -3.3 |
| Printing Petroleum and coal products | 3,545 13,153 | 3,575 12,780 | 3,564 12,839 | -0.8 2.9 | 0.3 -0.5 | -1.1 -3.4 | 3,519 13,792 | 3,534 14,053 | 3,499 13,377 | 3,700 16,751 | -4.9 -17.7 |
| Chemical products Plastics and rubber products | 39,860 15,058 | 39,738 15,069 | 39,525 15,325 | 0.3 -0.1 | 0.5 -1.7 | -0.5 -0.9 | 39,942 15,071 | 39,552 14,939 | 39,802 15,291 | 40,173 15,743 | -0.6 -4.3 |
| WORK IN PROCESS | 13,030 | 13,003 | 13,323 | 0.1 | 1., | 0.5 | 13,071 | 14,333 | 13,231 | 13,743 | 4.5 |
| All manufacturing industries | 239,735 | 239,082 | 239,622 | 0.3 | -0.2 | -0.7 | 241,298 | 239,752 | 241,420 | 241,074 | 0.1 |
| Durable goods industries | 176,542 | 176,778 | 177,520 | -0.1 | -0.4 | -0.3 | 177,378 | 177,346 | 179,018 | 179,139 | -1.0 |
| Wood products Nonmetallic mineral products | 1,810 1,734 | 1,811 1,704 | 1,819 1,679 | -0.1 1.8 | -0.4 1.5 | -2.5 1.1 | 1,793 1,742 | 1,793 1,725 | 1,800 1,740 | 2,137 1,506 | -16.1 9.1 |
| Primary metals | 12,272 | 1,704 | 1,679 | 0.1 | -3.5 | 1.1 | 1,742 12,332 | 1,723 | 12,953 | 1,596 13,178 | -6.4 |
| Fabricated metal products Machinery | 17,004 24,205 | 16,960 24,339 | 16,915 24,539 | 0.3 -0.6 | 0.3 -0.8 | 1.4 0.7 | 17,162 23,895 | 16,972 24,617 | 17,198 24,975 | 16,396 22,985 | 4.7 4.0 |
| Computers and electronic products | 13,748 | 13,553 | 13,540 | 1.4 | 0.1 | -1.1 | 13,731 | 13,396 | 13,766 | 14,536 | -5.5 |
| Electrical equipment, appliances, and components | 4,655 | 4,619 | 4,584 | 0.8 | 0.8 | 0.6 | 4,731 | 4,682 | 4,714 | 4,628 | 2.2 |
| Transportation equipment Furniture and related products | 94,863 1,506 | 95,262 1,502 | 95,489 1,479 | -0.4 0.3 | -0.2 1.6 | -1.0 0.9 | 95,705 1,482 | 95,504 1,496 | 95,610 1,468 | 97,540 1,464 | -1.9 1.2 |
| Miscellaneous products | 4,745 | 4,764 | 4,761 | -0.4 | 0.1 | 0.2 | 4,805 | 4,782 | 4,794 | 4,679 | 2.7 |
| Nondurable goods industries | 63,193 | 62,304 | 62,102 | 1.4 | 0.3 | -1.7 | 63,920 | 62,406 | 62,402 | 61,935 | 3.2 |
| Food products Beverage and tobacco products | 7,606 11,297 | 7,680 11,194 | 7,670 11,067 | -1.0 0.9 | 0.1 1.1 | -0.8 0.2 | 7,105 10,926 | 7,198 10,867 | 7,139 10,957 | 7,189 10,437 | -1.2 4.7 |
| Textiles Textile products | 577 463 | 578 472 | 577 471 | -0.2 -1.9 | 0.2 0.2 | -0.5 -0.6 | 585 461 | 575 463 | 579 459 | 635 492 | -7.9 -6.3 |
| Apparel | 295 | 288 | 282 | 2.4 | 2.1 | 1.8 | 307 | 299 | 286 | 286 | 7.3 |
| Leather and allied products Paper products | 140 1,782 | 140 1,606 | 135 1,611 | 0.0 11.0 | 3.7 -0.3 | 3.8 -1.3 | 142 1,825 | 140 1,619 | , | 139 1,707 | 2.2 6.9 |
| Printing Petroleum and coal products | 1,168 16,367 | 1,171 15,718 | 1,202 15,674 | -0.3 4.1 | -2.6 0.3 | 0.8 -4.8 | 1,151 17,263 | 1,122 16,403 | 1,142 16,557 | 1,301 16,033 | -11.5 7.7 |
| Chemical productsPlastics and rubber products | 19,622 3,876 | 19,615 | 19,486 3,927 | 0.0 0.9 | 0.7 -2.2 | -1.4 0.6 | 20,300 | 19,925 | 19,593 | 19,757 | 2.7 -2.6 |
| FINISHED GOODS | 3,870 | 3,842 | 3,927 | 0.9 | -2.2 | 0.0 | 3,855 | 3,795 | 3,930 | 3,959 | -2.0 |
| All manufacturing industries | 297,508 | 297,966 | 298,928 | -0.2 | -0.3 | 0.2 | 298,159 | 296,827 | 302,672 | 300,824 | -0.9 |
| Durable goods industries | 147,933 | 148,231 | 147,995 | -0.2 | 0.2 | 1.0 | 148,192 | 147,514 | | 143,575 | 3.2 |
| Wood products | 6,368 | 6,388 | 6,486 | -0.3 | -1.5 | -0.1 | 6,249 | 6,332 | 6,618 | 6,413 | -2.6 2.2 |
| Nonmetallic mineral products Primary metals | 7,713 15,226 | 7,697 15,244 | 7,673 15,158 | 0.2 -0.1 | 0.3 0.6 | 0.0 1.4 | 7,759 15,310 | 7,755 15,178 | 7,915 15,493 | 7,591 15,283 | 0.2 |
| Fabricated metal products Machinery | 23,442 29,921 | 23,485 30,006 | 23,393 29,584 | -0.2 -0.3 | 0.4 1.4 | -0.2 2.2 | 23,747 29,398 | 23,677 29,809 | 23,864 29,623 | 23,448 26,597 | 1.3 10.5 |
| Computers and electronic products | 14,483 | 14,677 | 14,888 | -1.3 | -1.4 | 0.3 | 14,699 | 14,517 | 15,036 | 14,890 | -1.3 |
| Electrical equipment, appliances, and components | 9,062 | 9,023 | 8,956 | 0.4 | 0.7 | 0.8 | 9,046 | 9,061 | 9,131 | 8,626 | 4.9 |
| Transportation equipment Furniture and related products | 24,934 3,492 | 25,009 3,477 | 25,116 3,566 | -0.3 0.4 | -0.4 -2.5 | 2.4 -1.1 | 25,105 3,571 | 24,543 3,507 | 26,062 3,636 | 23,658 3,808 | 6.1 -6.2 |
| Miscellaneous products | 13,292 | 13,225 | 13,175 | 0.5 | 0.4 | 0.4 | 13,308 | 13,135 | 13,233 | 13,261 | 0.4 |
| Nondurable goods industries Food products | 149,575 37,468 | 149,735 37,658 | 150,933 37,818 | -0.1 -0.5 | -0.8 -0.4 | -0.7 -0.8 | 149,967 36,958 | 149,313 36,573 | - | 157,249 36,176 | -4.6 2.2 |
| Beverage and tobacco products | 13,332 | 13,419 | 13,561 | -0.6 | -1.0 | -0.5 | 13,366 | 13,517 | 13,708 | 13,938 | -4.1 |
| Textiles Textile products | 1,573 1,515 | 1,584 1,530 | 1,582 1,530 | -0.7 -1.0 | 0.1 0.0 | 0.8 -1.7 | 1,589 1,500 | 1,578 1,517 | 1,581 1,515 | 1,638 1,640 | -3.0 -8.5 |
| Apparel | 1,330 | 1,336 | 1,344 | -0.4 | -0.6 | -2.5 | 1,388 | 1,386 | 1,343 | 1,343 | 3.4 |
| Leather and allied products Paper products | 735 6,813 | 751 6,975 | 761 7,043 | -2.1 -2.3 | -1.3 -1.0 | 0.4 0.0 | 746 6,908 | 756 7,030 | 765 7,124 | 750 7,143 | -0.5 -3.3 |
| Printing Petroleum and coal products | 2,147 16,481 | 2,156 15,709 | 2,205 15,887 | -0.4 4.9 | -2.2 -1.1 | -0.8 -4.0 | 2,118 17,176 | 2,157 16,095 | 2,221 16,807 | 2,093 22,787 | 1.2 -24.6 |
| Chemical products | 53,201 | 53,451 | 54,107 | -0.5 | -1.2 | 0.4 | 53,226 | 53,502 | 54,810 | 54,353 | -2.1 |
| Plastics and rubber products | 14,980 | 15,166 | 15,095 | -1.2 | 0.5 | -0.9 | 14,992 | 15,202 | 15,303 | 15,388 | -2.6 |

^p Preliminary

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-FY23-0265). Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, July Full Report, September 5, 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.

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.

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 7. Ratios of Manufacturers' Inventories to Shipments and Unfilled Orders to Shipments, by Industry Group ¹

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

| | Inve | ntory/Ship | ments rati | io | Unfilled Orders/Shipments ratio ² | | | | | |
|--|--------------------------|--------------------------|-------------|-------------|--|--------------------------|-------------|-------------|--|--|
| Industry | Jul 2023 ^p | Jun 2023 ^r | May 2023 | Apr 2023 | Jul 2023 ^p | Jun 2023 ^r | May 2023 | Apr 2023 | | |
| All manufacturing industries ³ | 1.48 | 1.48 | 1.49 | 1.50 | (X) | (X) | (X) | (X) | | |
| Durable goods industries ³ | 1.84 | 1.84 | 1.84 | 1.88 | 6.80 | 6.74 | 6.64 | 6.71 | | |
| Wood products | 1.18 | 1.19 | 1.20 | 1.22 | (X) | (X) | (X) | (X) | | |
| Nonmetallic mineral products | 1.29 | 1.29 | 1.29 | 1.30 | | (X) | (X) | (X) | | |
| Primary metals | 1.74 | 1.74 | 1.74 | 1.74 | 1.43 | 1.41 | 1.40 | 1.41 | | |
| Fabricated metal products | 1.82 | 1.82 | 1.83 | 1.83 | 3.70 | 3.70 | 3.75 | 3.76 | | |
| Machinery | 2.50 | 2.51 | 2.51 | 2.50 | 4.04 | 4.06 | 4.08 | 4.09 | | |
| Computers and electronic products ³ | 1.87 | 1.88 | 1.88 | 1.89 | 6.04 | 6.02 | 6.02 | 6.06 | | |
| Electrical equipment, appliances, | | | | | | | | | | |
| and components | 1.88 | 1.87 | 1.86 | 1.88 | 3.47 | 3.44 | 3.41 | 3.45 | | |
| Transportation equipment | 1.79 | 1.78 | 1.78 | 1.87 | 14.43 | 14.14 | 13.82 | 14.34 | | |
| Furniture and related products | 1.50 | 1.49 | 1.51 | 1.53 | 1.80 | 1.84 | 1.89 | 1.92 | | |
| Miscellaneous products | 1.92 | 1.92 | 1.90 | 1.92 | (X) | (X) | (X) | (X) | | |
| Nondurable goods industries | 1.12 | 1.13 | 1.14 | 1.14 | (X) | (X) | (X) | (X) | | |
| Food products | 0.89 | 0.90 | 0.90 | 0.91 | (X) | (X) | (X) | (X) | | |
| Beverage and tobacco products | 1.74 | 1.75 | 1.78 | 1.80 | (X) | (X) | (X) | (X) | | |
| Textiles | 1.72 | 1.73 | 1.72 | 1.70 | (X) | (X) | (X) | (X) | | |
| Textile products | 1.86 | 1.86 | 1.87 | 1.88 | (X) | (X) | (X) | (X) | | |
| Apparel | 2.55 | 2.66 | 2.52 | 2.51 | (X) | (X) | (X) | (X) | | |
| Leather and allied products | 2.62 | 2.66 | 2.69 | 2.65 | (X) | (X) | (X) | (X) | | |
| Paper products | 1.04 | 1.04 | 1.05 | 1.05 | (X) | (X) | (X) | (X) | | |
| Printing | 0.93 | 0.94 | 0.97 | 0.97 | (X) | (X) | (X) | (X) | | |
| Petroleum and coal products | 0.71 | 0.72 | 0.72 | 0.72 | (X) | (X) | (X) | (X) | | |
| Chemical products | 1.46 | 1.46 | 1.47 | 1.47 | (X) | (X) | (X) | (X) | | |
| Plastics and rubber products | 1.38 | 1.38 | 1.40 | 1.42 | (X) | (X) | (X) | (X) | | |

X Not Applicable

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/>.

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-FY23-0265).

Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, July Full Report, September 5, 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>.

Table 8. Revisions to Previously Published Monthly Percent Changes ¹

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

| | Ship | ments | New C | Orders | Unfilled | l Orders | Inven | tories |
|---|------------------|----------------------------------|------------------|----------------------------------|------------------|----------------------------------|------------------|----------------------------------|
| Industry | Jul ² | Jul ³ 2022- Jun |
| | 2023 | 2023 | 2023 | 2023 | 2023 | 2023 | 2023 | 2023 |
| All manufacturing industries | (X) | 0.2 | (X) | 0.3 | (X) | 0.0 | (X) | 0.1 |
| Durable goods industries | -0.1 | 0.2 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.1 |
| Wood products | (X) | 0.2 | (X) | (NA) | (X) | (NA) | (X) | 0.3 |
| Nonmetallic mineral products | (X) | 0.4 | (X) | (NA) | (X) | (NA) | (X) | 0.2 |
| Primary metals | -0.4 | 0.3 | -0.2 | 0.3 | 0.1 | 0.2 | -0.3 | 0.2 |
| Fabricated metal products | 0.0 | 0.2 | 0.0 | 0.4 | 0.0 | 0.1 | 0.0 | 0.1 |
| Machinery | 0.0 | 0.3 | 0.1 | 0.5 | 0.0 | 0.1 | 0.0 | 0.1 |
| Computers and electronic products Electrical equipment, appliances, | -0.1 | 0.2 | -0.1 | 0.5 | 0.0 | 0.1 | 0.0 | 0.1 |
| and components | 0.1 | 0.2 | 0.1 | 0.6 | 0.0 | 0.2 | 0.0 | 0.2 |
| Transportation equipment | 0.0 | 0.2 | 0.0 | 1.1 | -0.1 | 0.2 | 0.0 | 0.2 |
| Furniture and related products | (X) | 0.3 | (X) | 0.8 | (X) | 0.1 | (X) | 0.4 |
| Miscellaneous products | (X) | 0.3 | (X) | 0.3 | (X) | 0.1 | (X) | 0.1 |
| Nondurable goods industries | (X) | 0.3 | (X) | (NA) | (X) | (NA) | (X) | 0.1 |
| Food products | (X) | 0.1 | (X) | (NA) | (X) | (NA) | | 0.1 |
| Beverage and tobacco products | (X) | 0.3 | (X) | (NA) | (X) | (NA) | (X) | 0.1 |
| Textiles | (X) | 0.6 | (X) | (NA) | (X) | (NA) | (X) | 0.3 |
| Textile products | (X) | 0.4 | (X) | (NA) | (X) | (NA) | (X) | 0.2 |
| Apparel | (X) | 0.5 | (X) | (NA) | (X) | (NA) | (X) | 0.6 |
| Leather and allied products | (X) | 0.8 | (X) | (NA) | | | | 0.6 |
| Paper products | (X) | 0.1 | (X) | (NA) | (X) | (NA) | | 0.2 |
| Printing | (X) | 0.4 | (X) | (NA) | (X) | (NA) | | 0.3 |
| Petroleum and coal products | (X) | 1.2 | (X) | (NA) | (X) | (NA) | (X) | 0.5 |
| Chemical products | (X) | 0.3 | (X) | (NA) | (X) | (NA) | | 0.2 |
| Plastics and rubber products | (X) | 0.2 | (X) | (NA) | , , | (NA) | | 0.2 |

X Not Applicable

^p Preliminary

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.

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.

Note: Estimates of manufacturers' shipments, inventories and orders are subject to survey error and revision. One major component of survey.

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/>.

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