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

Summary

New orders for manufactured goods in July, up following two consecutive monthly decreases, increased \$8.4 billion or 1.9 percent to \$454.8 billion, the U.S. Census Bureau reported today. This followed a 1.8 percent June decrease.

Shipments, down following four consecutive monthly increases, decreased \$0.9 billion or 0.2 percent to \$458.9 billion. This followed a 0.6 percent June increase.

Unfilled orders, down two consecutive months, decreased \$1.0 billion or 0.1 percent to \$1,126.3 billion. This followed a 0.9 percent June decrease. The unfilled orders-to-shipments ratio was 6.79, down from 6.81 in June.

Inventories, up following twelve consecutive monthly decreases, increased \$0.9 billion or 0.1 percent to \$620.3 billion. This followed a virtually unchanged June decrease. The inventories-to-shipments ratio was 1.35, unchanged from June.

New Orders

New orders for manufactured durable goods in July, up following two consecutive monthly decreases, increased \$9.6 billion or 4.4 percent to \$228.6 billion, virtually unchanged from the previously published increase. This followed a 4.3 percent June decrease.

Transportation equipment, also up following two consecutive monthly decreases, led the increase, \$7.6 billion or 10.6 percent to \$78.9 billion.

New orders for manufactured nondurable goods decreased \$1.1 billion or 0.5 percent to \$226.1 billion.

Shipments

Shipments of manufactured durable goods in July, up three of the last four months, increased \$0.3 billion or 0.1 percent to \$232.7 billion, down from the previously published 0.2 percent increase. This followed a 0.4 percent June increase.

Computers and electronic products, up four consecutive months, drove the increase, \$0.5 billion or 1.7 percent to \$27.1 billion.

Shipments of manufactured nondurable goods, down following four consecutive monthly increases, decreased \$1.1 billion or 0.5 percent to \$226.1 billion. This followed a 0.8 percent June increase. Petroleum and coal products, also down following four consecutive monthly increases, drove the decrease, \$1.5 billion or 4.0 percent to \$34.8 billion.

Unfilled Orders

Unfilled orders for manufactured durable goods in July, down two consecutive months, decreased \$1.0 billion or 0.1 percent to \$1,126.3 billion, virtually unchanged from the previously published decrease. This followed a 0.9 percent June decrease.

Transportation equipment, also down two consecutive months, drove the decrease, \$2.1 billion or 0.3 percent to \$772.0 billion.

Inventories

Inventories of manufactured durable goods in July, up following six consecutive monthly decreases, increased \$1.4 billion or 0.4 percent to \$383.1 billion, up from the previously published 0.3 percent increase. This followed a 0.1 percent June decrease.

Transportation equipment, up following five consecutive monthly decreases, led the increase, \$0.5 billion or 0.4 percent to \$123.7 billion.

Inventories of manufactured nondurable goods, down following four consecutive monthly increases, decreased \$0.5 billion or 0.2 percent to \$237.2 billion. This followed a 0.1 percent June increase. Petroleum and coal products, down following three consecutive monthly increases, led the decrease, \$0.5 billion or 1.9 percent to \$24.6 billion.

By stage of fabrication, July materials and supplies increased 1.4 percent in durable goods and decreased 0.2 percent in nondurable goods. Work in process decreased 0.5 percent in durable goods and decreased 1.1 percent in nondurable goods. Finished goods increased 0.3 percent in durable goods and increased 0.1 percent in nondurable goods.

Figures in text are adjusted for seasonality, but not for inflation. Figures on new and unfilled orders exclude data for semiconductor manufacturing. For data, call (301) 763-4673 or go to www.census.gov/m3. The Advance Report on durable goods for August is scheduled for release on September 28, 2016 at 8:30 a.m. EDT and the Full Report on October 5, 2016 at 10:00 a.m. EDT. See back page for survey description. To receive the latest updates on the Nation's key economic indicators, download the America's Economy app for Apple and Android smartphones and tablets. To learn more about this release and the other indicators the U.S. Census Bureau publishes, join us for the Investigating Economic Indicators Webinar Series. For more information, visit www.census.gov/econ/webinar.

[&]quot;Virtually unchanged" indicates that the change is less than 0.05 percent for a percent increase or decrease.

Table 1. Value of Manufacturers' Shipments for Industry Groups¹

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

| [Estimates are shown in millions of do | mars and | | a on data asonally A | | ie iviant | nacture | is onipm | ents, inve | | Seasonally A | | | |
|--|---------------------------|---------------------------|-------------------------|----------------|---------------|--------------|---------------------------|---------------------------|-----------------|-----------------|-------------------|-------------------|---------------------------|
| | | Monthly | | r e | cent Cha | inge | | Moi | nthly | | | Year to date | |
| Industry | July 2016 ^p | June 2016 ^r | May 2016 | June - July | May - June | Apr May | July 2016 ^p | June 2016 ^r | May 2016 | July 2015 | 2016 ^p | 2015 | % Change 2016/ 2015 |
| All manufacturing industries | 458,864 | 459,724 | 456,889 | -0.2 | 0.6 | 0.1 | 437,519 | 490,264 | 465,958 | 462,331 | 3,178,930 | 3,282,559 | -3.2 |
| Excluding transportation | 377,912 | 378,668 | 376,840 | -0.2 | | 0.2 | 369,869 | 400,567 | 385,523 | 389,194 | 2,621,111 | 2,730,330 | -4.0 |
| Excluding defense | 446,285 | 447,298 | 444,819 | -0.2 | | 0.0 | 426,295 | 476,363 | 454,279 | 450,789 | 3,095,709 | 3,201,799 | |
| With unfilled orders | 165,806 | 165,483 | 165,049 | 0.2 | 0.3 | 0.7 | 152,841 | 181,906 | 166,603 | 159,946 | 1,141,783 | 1,156,326 | |
| Durable goods industries | 232,726 | 232,448 | 231,421 | 0.1 | 0.4 | -0.3 | 213,497 | 254,143 | 233,408 | 225,288 | 1,613,086 | 1,631,198 | -1.1 |
| Wood products | 8,269 | 8,148 | 8,169 | 1.5 | -0.3 | -0.6 | 8,544 | 9,082 | 8,915 | 8,251 | 58,034 | 56,710 | 2.3 |
| Nonmetallic mineral products | 9,849 | 9,947 | 9,850 | -1.0 | 1.0 | -0.4 | 10,133 | 10,960 | 10,242 | 10,302 | 68,266 | 65,268 | 4.6 |
| Primary metals | 17,950 | 17,862 | 17,614 | 0.5 | | -0.1 | 17,212 | 18,795 | 18,002 | 18,678 | 125,331 | 140,510 | |
| Iron and steel mills Aluminum and nonferrous metals | 8,254 8,241 | 8,137 8,239 | 8,025 8,093 | 1.4 0.0 | | 0.1 -0.3 | 7,941 7,924 | 8,466 8,649 | 8,200 8,289 | 8,751 8,351 | 56,571 58,182 | 65,977 62,991 | -14.3 -7.6 |
| Ferrous metal foundries | 1,455 | 1,486 | 1,496 | -2.1 | | 0.1 | 1,347 | 1,680 | 1,513 | 1,576 | 10,578 | 11,542 | |
| Fabricated metal products | 30,072 | 29,826 | 29,973 | 0.8 | | -0.1 | 29,135 | 31,889 | 30,700 | 29,577 | 208,397 | 207,632 | 0.4 |
| Machinery | 29,704 | 29,992 | 30,142 | -1.0 | | -1.3 | 27,874 | 32,755 | 30,827 | 31,374 | 213,316 | 228,065 | |
| Farm machinery | 1,758 | 1,834 | 1,808 | | | 2.4 | 1,645 | 1,807 | 1,935 | 2,010 | 13,689 | 15,752 | -13.1 |
| Construction machinery Mining, oil field, and | 2,509 | 2,708 | 2,905 | -7.3 | -6.8 | -2.4 | 2,342 | 2,896 | 2,939 | 3,671 | 19,833 | 26,585 | -25.4 |
| gas field machinery | 825 | 862 | 897 | -4.3 | -3.9 | -6.0 | 785 | 903 | 863 | 1,583 | 6,949 | 12,959 | -46.4 |
| Industrial machinery | 2,355 | 2,331 | 2,305 | 1.0 | | -9.0 | 2,230 | 2,677 | 2,224 | 2,313 | 16,554 | 16,013 | |
| Photographic equipment | 422 | 425 | 445 | -0.7 | -4.5 | 0.5 | 371 | 468 | 410 | 404 | 2,881 | 2,859 | 0.8 |
| Ventilation, heating, air-conditioning, | | | | | | | | | | | | | |
| and refrigeration equipment | 3,337 | 3,338 | 3,329 | 0.0 | | -2.1 | 3,557 2,735 | 4,234 3,271 | 3,604 3,022 | 3,974 | 24,322 | 25,086 | -3.0 12.6 |
| Metalworking machinery Turbines, generators, and other | 3,128 | 3,056 | 3,062 | 2.4 | -0.2 | -0.4 | 2,735 | 3,271 | 3,022 | 2,601 | 20,577 | 18,281 | 12.0 |
| power transmission equipment | 4,123 | 4,073 | 4,190 | 1.2 | -2.8 | 3.0 | 3,985 | 4,188 | 4,336 | 4,138 | 28,565 | 31,686 | -9.8 |
| Material handling equipment | 3,010 | 3,021 | 2,943 | | | -1.9 | 2,800 | 3,151 | 2,957 | 2,692 | 20,524 | 17,553 | 16.9 |
| Computers and electronic products ² | 27,107 | 26,645 | 26,541 | 1.7 | | 0.6 | 25,431 | 30,084 | 25,315 | 24,758 | 180,924 | 175,385 | 3.2 |
| Computers | 599 | 560 | 597 | 7.0 | | -4.6 | 552 | 739 | 567 | 737 | 4,081 | 5,453 | |
| Computer storage devices | 691 | 570 | 590 | 21.2 | | -5.3 | 442 | 918 | 434 | 338 | 3,739 | 3,611 | 3.5 |
| Other peripheral equipment Nondefense communications | 648 | 620 | 667 | 4.5 | -7.0 | 0.3 | 533 | 874 | 622 | 654 | 4,493 | 5,688 | -21.0 |
| equipment | 3,095 | 3,276 | 3,091 | -5.5 | 6.0 | 3.2 | 2,708 | 4,052 | 2,967 | 2,730 | 20,895 | 20,939 | -0.2 |
| Defense communications equipment | 290 | 282 | 285 | 2.8 | | 5.2 | 271 | 280 | 282 | 270 | 1,945 | 2,157 | -9.8 |
| Audio and video equipment | 362 | 359 | 361 | 0.8 | | -0.8 | 323 | 345 | 343 | 291 | 2,229 | 1,469 | |
| Electronic components | 4,773 | 4,666 | 4,746 | 2.3 | -1.7 | 0.8 | 4,880 | 5,346 | 4,834 | 4,670 | 32,605 | 28,998 | 12.4 |
| Nondefense search and navigation | 1,402 | 1,367 | 1,325 | 2.6 | 3.2 | -2.9 | 1,188 | 1,528 | 1,346 | 1,128 | 9,355 | 8,458 | 10.6 |
| equipment Defense search and navigation | 1,402 | 1,307 | 1,323 | 2.0 | 3.2 | -2.5 | 1,100 | 1,520 | 1,340 | 1,120 | 9,333 | 0,430 | 10.0 |
| equipment | 2,663 | 2,575 | 2,556 | 3.4 | 0.7 | 1.1 | 2,449 | 2,850 | 2,474 | 2,351 | 17,149 | 16,890 | 1.5 |
| Electromedical, measuring, | | | | | | | | | | | | | |
| and control instruments | 9,174 | 9,019 | 9,060 | 1.7 | -0.5 | 0.6 | 8,270 | 10,262 | 8,734 | 7,842 | 61,232 | 57,568 | 6.4 |
| Electrical equipment, appliances, | 0.517 | 0.453 | 0.424 | 0.7 | 0.2 | 0.3 | 9,086 | 10,290 | 0.504 | 0.071 | 65 400 | 71 266 | |
| and components Electric lighting equipment | 9,517 1,096 | 9,453 1,079 | 9,434 1,073 | 0.7 1.6 | | -0.3 0.1 | 1,066 | 1,072 | 9,504 1,017 | 9,971 1,041 | 65,408 7,248 | 71,266 6,876 | -8.2 5.4 |
| Household appliances | 1,360 | 1,382 | 1,382 | -1.6 | | 2.4 | 1,267 | 1,501 | 1,439 | 1,485 | 9,563 | 10,886 | |
| Electrical equipment | 2,883 | 2,911 | 2,918 | -1.0 | | -1.0 | 2,660 | 3,384 | 2,952 | 3,107 | 20,505 | 22,734 | -9.8 |
| Batteries | 790 | 790 | 780 | 0.0 | | -2.7 | 680 | 813 | 728 | 745 | 5,208 | 5,575 | -6.6 |
| Transportation equipment Automobiles | 80,952 9,430 | 81,056 9,603 | 80,049 9,269 | -0.1 -1.8 | | -0.4 -6.4 | 67,650 7,193 | 89,697 10,552 | 80,435 9,308 | 73,137 8,818 | 557,819 67,962 | 552,229 73,914 | 1.0 -8.1 |
| Light trucks and utility vehicles | 14,929 | 14,610 | 14,364 | 2.2 | | -6.4 -7.2 | 11,793 | 15,676 | 14,268 | 13,173 | 103,907 | 99,177 | 4.8 |
| Heavy duty trucks | 2,174 | 2,221 | 2,278 | -2.1 | -2.5 | -3.8 | 2,070 | 2,453 | 2,323 | 2,747 | 16,167 | 18,928 | -14.6 |
| Motor vehicle bodies, parts, | | | | | | | | | | | | | |
| and trailers | 28,309 | 28,575 | 27,680 | -0.9 | | -0.4 | 24,216 | 30,502 | 28,624 | 23,795 | 194,694 | 178,257 | 9.2 |
| Nondefense aircraft and parts | 14,094 | 13,862 | 14,543 | 1.7 | | 6.8 | 11,953 | 16,843 | 14,031 | 12,082 | 92,663 | 95,109 | |
| Defense aircraft and parts Ships and boats | 4,040 3,146 | 4,156 2,853 | 4,298 2,974 | -2.8 10.3 | | 20.7 -1.9 | 3,472 2,932 | 4,926 3,037 | 4,115 3,076 | 4,546 2,634 | 28,450 20,963 | 31,937 19,062 | -10.9 10.0 |
| Furniture and related products | 6,284 | 6,272 | 6,302 | 0.2 | | 0.0 | 6,344 | 6,481 | 6,261 | 6,405 | 43,763 | 41,780 | |
| Miscellaneous durable goods | 13,022 | 13,247 | 13,347 | -1.7 | -0.7 | -0.3 | 12,088 | 14,110 | 13,207 | 12,835 | 91,828 | 92,353 | -0.6 |
| Nondurable goods industries | 226,138 | 227,276 | 225,468 | -0.5 | 0.8 | 0.6 | 224,022 | 236,121 | 232,550 | 237,043 | 1,565,844 | 1,651,361 | -5.2 |
| • | | | | | | | | | | | | | |
| Food products | 65,319 | 64,993 | 64,856 | 0.5 | | 1.1 | 62,489 | 64,228 | 63,863 | 62,045 | 444,505 | 442,982 53,987 | |
| Grain and oilseed milling Dairy products | 8,246 9,021 | 8,229 8,959 | 8,090 9,021 | 0.2 0.7 | | 0.8 -0.6 | 7,673 8,842 | 7,809 8,861 | 7,528 8,984 | 7,691 9,094 | 54,588 62,406 | | 1.1 -1.6 |
| Meat, poultry, and seafood products | 18,099 | 18,031 | 18,023 | 0.4 | | 1.3 | 17,923 | 18,503 | 18,162 | 18,255 | 124,616 | | -4.7 |
| Beverage and tobacco products | 12,561 | 12,345 | 11,998 | 1.7 | 2.9 | -2.0 | 12,680 | 13,126 | 12,669 | 12,112 | 84,950 | 84,681 | 0.3 |
| Beverages | 9,479 | 9,271 | 9,142 | 2.2 | | 0.2 | 9,598 | 10,052 | 9,813 | 9,208 | 64,362 | 62,707 | 2.6 |
| Tobacco | 3,082 | 3,074 | 2,856 | 0.3 | | -8.4 | 3,082 | 3,074 | 2,856 | 2,904 | 20,588 | 21,974 | |
| Textile mills Textile products | 2,494 1,984 | 2,511 1,981 | 2,520 1,980 | -0.7 0.2 | | 0.3 0.4 | 2,472 2,032 | 2,691 2,120 | 2,582 2,042 | 2,582 2,089 | 17,815 14,073 | 18,236 14,518 | |
| Apparel | 1,984 | 1,981 | 1,980 | 0.2 | | 0.4 | 1,083 | 1,012 | 1,005 | 2,089 1,029 | 6,929 | 6,492 | |
| Leather and allied products | 335 | 338 | 341 | -0.9 | -0.9 | 1.5 | 334 | 358 | 343 | 387 | 2,395 | 2,858 | -16.2 |
| Paper products | 15,057 | 15,190 | 15,218 | -0.9 | | -0.2 | 14,932 | 15,636 | 15,442 | 15,497 | 106,040 | 106,245 | -0.2 |
| Pulp, paper, and paperboard mills | 6,712 | 6,753 | 6,761 | -0.6 | | 0.1 | 6,720 | 6,895 | 6,769 | 6,969 | 47,245 | | -1.4 |
| Paperboard containers | 4,578 | 4,632 | 4,645 | -1.2 -0.7 | | -1.8 | 4,577 | 4,857 | 4,693 | 4,822 | 32,539 49,192 | 32,289 49,121 | 0.8 0.1 |
| Printing Petroleum and coal products | 7,098 34,769 | 7,147 36,232 | 7,167 35,210 | -0.7 -4.0 | | 1.1 3.6 | 6,653 38,092 | 7,073 40,003 | 7,369 38,492 | 7,022 48,778 | 49,192 237,960 | 49,121 333,696 | |
| Petroleum refineries | 30,905 | 32,478 | 31,522 | -4.8 | | 3.9 | 33,884 | 35,696 | 34,581 | 44,860 | 213,106 | | |
| Chemical products | 66,130 | 66,259 | 66,014 | -0.2 | | -0.5 | 64,140 | 69,223 | 68,924 | 65,957 | 467,158 | | |
| Pesticides, fertilizers, and other | | | | | | | | | | | | | |
| agricultural chemicals | 4,095 | 4,066 | 4,009 | 0.7 | | 1.1 | 3,331 | 4,244 | 5,261 | 3,336 | 32,171 | 30,206 | |
| Pharmaceuticals and medicines Paints, coatings, and adhesives | 21,490 3,625 | 21,574 3,612 | 21,584 3,659 | -0.4 0.4 | | -1.0 -1.0 | 20,490 3,698 | 22,265 3,997 | 21,816 4,059 | 20,301 3,671 | 150,057 26,228 | 129,507 24,360 | 15.9 7.7 |
| Plastics and rubber products | 19,311 | 19,204 | 19,074 | 0.4 | | -0.2 | 19,115 | 20,651 | 19,819 | 19,545 | 134,827 | 135,424 | -0.4 |
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^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.

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

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

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

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

| Estimates are shown in millions of do | liais ailu e | | Seasonally | | ianuraciu | ileis Sili | pilielits, ii | ivenitories | | easonally A | | | | |
|--|---------------------------|---------------------------|----------------|----------------|---------------|---------------|---------------------------|---------------------------|----------------|----------------|-------------------|------------------|---------------------------|--|
| | | Monthly | | | cent Chan | qe | | Mon | | ouconany / | Year to date | | | |
| Industry | July 2016 ^p | June 2016 ^r | May 2016 | June - July | May - June | Apr May | July 2016 ^p | June 2016 ^r | May 2016 | July 2015 | 2016 ^p | 2015 | % Change 2016/ 2015 | |
| All manufacturing industries ² | 454,759 | 446,331 | 454,295 | 1.9 | -1.8 | -1.2 | 431,743 | 477,376 | 459,330 | 459,347 | 3,143,812 | 3,244,001 | -3.1 | |
| Excluding transportation ² | 375,858 | 375,014 | 373,705 | 0.2 | 0.4 | 0.2 | 366,312 | 395,571 | 382,283 | 384,296 | 2,611,486 | 2,712,675 | -3.7 | |
| Excluding defense ² | 442,564 | 435,955 | 442,939 | 1.5 | -1.6 | -0.5 | 422,175 | 462,786 | 450,115 | 448,932 | 3,060,197 | 3,169,349 | -3.4 | |
| With unfilled orders ² | 164,829 | 155,169 | 165,438 | 6.2 | - | -2.9 | | 171,631 | 162,426 | 160,391 | 1,127,883 | 1,139,826 | -1.0 | |
| Durable goods industries ² | 228,621 | 219,055 | 228,827 | 4.4 | -4.3 | -2.9 | 207,721 | 241,255 | 226,780 | 222,304 | 1,577,968 | 1,592,640 | -0.9 | |
| Primary metals | 17,745 | 17,599 | 17,783 | 0.8 | -1.0 | -1.3 | 16,934 | 18,410 | 17,871 | 18,341 | 127,391 | 140,564 | -9.4 | |
| Iron and steel mills | 8,164 | 7,943 | 8,319 | 2.8 | -4.5 | | 7,682 | 8,278 | 8,357 | 8,242 | 58,733 | 66,407 | -11.6 | |
| Aluminum and nonferrous metals | 8,185 | 8,224 | 7,908 | -0.5 | 4.0 | -2.5 | 7,933 | 8,582 | 7,934 | 8,474 | 57,703 | 62,662 | -7.9 | |
| Ferrous metal foundries | 1,396 | 1,432 | 1,556 | -2.5 | -8.0 | | 1,319 | 1,550 | 1,580 | 1,625 | 10,955 | 11,495 | -4.7 | |
| Fabricated metal products | 30,304 | 29,889 | 29,889 | 1.4 | 0.0 | | 29,453 | 31,352 | 30,975 | 29,679 | 212,309 | 208,871 | 1.6 | |
| Machinery | 29,808 | 29,390 | 29,313 | 1.4 | 0.3 | 0.2 | 27,828 | 31,336 | 29,493 | 30,396 | 211,209 | 224,091 | -5.7 | |
| Construction machinery Mining, oil field, and | 2,422 | 2,507 | 2,634 | -3.4 | -4.8 | -0.4 | 2,113 | 2,509 | 2,471 | 3,029 | 18,423 | 23,743 | -22.4 | |
| gas field machinery | 776 | 533 | 165 | 45.6 | 223.0 | 139.1 | 709 | 662 | 190 | 1,338 | 4,739 | 11,828 | -59.9 | |
| Industrial machinery | 2,214 | 2,195 | 2,355 | 0.9 | -6.8 | 2.1 | 2,106 | 2,571 | 2,082 | 2,304 | 16,301 | 15,736 | 3.6 | |
| Photographic equipment | 410 | 391 | 428 | 4.9 | -8.6 | 13.2 | 379 | 345 | 419 | 426 | 2,767 | 3,046 | -9.2 | |
| Ventilation, heating, air-conditioning, and refrigeration equipment Metalworking machinery | 3,544 3,198 | 3,370 3,129 | 3,311 3,034 | 5.2 2.2 | 1.8 3.1 | -3.0 -10.2 | 3,660 2,844 | 4,097 3,232 | 3,561 2,935 | 3,765 2,511 | 24,480 21,323 | 25,629 18,158 | -4.5 17.4 | |
| Turbines, generators, and other | 3,190 | 3,129 | 3,034 | 2.2 | 3.1 | -10.2 | 2,044 | 3,232 | 2,933 | 2,311 | 21,323 | 10,130 | 17.4 | |
| power transmission equipment | 4,074 | 4,074 | 4,088 | 0.0 | -0.3 | -0.9 | 3,995 | 4,277 | 4,105 | 4,010 | 28,524 | 29,781 | -4.2 | |
| Material handling equipment | 3,078 | 3,012 | 3,147 | 2.2 | -4.3 | 7.0 | 2,615 | 3,119 | 3,198 | 2,760 | 20,896 | 18,903 | 10.5 | |
| Computers and electronic products ² | 24,670 | 23,865 | 24,166 | 3.4 | -1.2 | -0.9 | 22,053 | 27,571 | 23,049 | 21,674 | 164,804 | 159,348 | 3.4 | |
| Computers | 584 | 552 | 603 | 5.8 | -8.5 | | | 731 | 573 | 702 | 4,022 | 5,563 | -27.7 | |
| Nondefense communications | | | | | | | | | | | ., | 5,555 | | |
| equipment | 3,427 | 3,423 | 3,454 | 0.1 | -0.9 | 5.8 | 2,888 | 3,985 | 3,074 | 3,072 | 22,943 | 23,528 | -2.5 | |
| Defense communications equipment | 270 | 313 | 290 | -13.7 | 7.9 | 2.8 | 239 | 364 | 259 | 299 | 2,052 | 2,251 | -8.8 | |
| Electronic components | 4,928 | 4,590 | 4,723 | 7.4 | -2.8 | | | 5,113 | 4,815 | 4,721 | 32,828 | 29,468 | 11.4 | |
| Nondefense search and navigation | , | , | , - | | | | -,- | -, | , | , | , , , | ., | | |
| equipment | 1,502 | 1,464 | 1,379 | 2.6 | 6.2 | 4.2 | 1,310 | 1,714 | 1,359 | 1,337 | 10,088 | 10,199 | -1.1 | |
| Defense search and navigation | , | | | | | | , | , | · | | | | | |
| equipment | 2,444 | 2,514 | 2,695 | -2.8 | -6.7 | -11.3 | 1,996 | 2,900 | 2,459 | 2,252 | 18,134 | 16,495 | 9.9 | |
| Electromedical, measuring, | | | | | | | | | | | | | | |
| and control instruments | 9,532 | 9,188 | 9,124 | 3.7 | 0.7 | -0.8 | 8,447 | 10,350 | 8,850 | 7,690 | 62,293 | 58,980 | 5.6 | |
| Electrical equipment, appliances, | | | | | | | | | | | | | | |
| and components | 9,842 | 9,491 | 9,388 | 3.7 | 1.1 | -0.5 | 9,162 | 10,320 | 9,500 | 9,654 | 66,798 | 71,387 | -6.4 | |
| Electric lighting equipment | 1,097 | 1,070 | 1,078 | 2.5 | -0.7 | -0.4 | 1,055 | 1,069 | 1,029 | 1,023 | 7,330 | 6,885 | 6.5 | |
| Household appliances | 1,449 | 1,443 | 1,316 | 0.4 | 9.7 | -1.8 | 1,296 | 1,490 | 1,424 | 1,403 | 9,555 | 10,845 | -11.9 | |
| Electrical equipment | 2,902 | 2,848 | 2,875 | 1.9 | -0.9 | -1.7 | 2,731 | 3,300 | 2,905 | 3,236 | 20,684 | 23,376 | -11.5 | |
| Transportation equipment | 78,901 | 71,317 | 80,590 | 10.6 | -11.5 | -7.1 | 65,431 | 81,805 | 77,047 | 75,051 | 532,326 | 531,326 | 0.2 | |
| Motor vehicle bodies, parts, | | | | | | | | | | | | | | |
| and trailers | 28,188 | 28,329 | 27,748 | -0.5 | 2.1 | 0.3 | | 29,780 | 28,745 | 23,317 | 192,429 | 177,141 | 8.6 | |
| Nondefense aircraft and parts | 12,520 | 6,591 | 16,341 | 90.0 | -59.7 | -5.6 | | 9,228 | 13,358 | 16,144 | 71,523 | 84,025 | -14.9 | |
| Defense aircraft and parts | 4,405 | 3,643 | 3,940 | 20.9 | -7.5 | | 3,344 | 5,634 | 2,504 | 3,366 | 30,578 | 26,773 | 14.2 | |
| Ships and boats | 3,042 | 2,667 | 2,596 | 14.1 | 2.7 | -18.8 | | 3,362 | 2,697 | 1,767 | 19,294 | 17,439 | 10.6 | |
| Furniture and related products | 6,203 | 6,161 | 6,326 | 0.7 | -2.6 | 0.3 | 6,087 | 6,308 | 6,475 | 6,118 | 44,990 | 42,714 | 5.3 | |
| Nondurable goods industries | 226,138 | 227,276 | 225,468 | -0.5 | 0.8 | 0.6 | 224,022 | 236,121 | 232,550 | 237,043 | 1,565,844 | 1,651,361 | -5.2 | |

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

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/>.

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

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

| Lestimates are shown in millions of do | l and and an | | Seasonally A | | iotaroro c | , inpinionic | Not Seasonally Adjusted | | | | | |
|---|---------------------------|---------------------------|--------------|----------------|---------------|--------------|---------------------------|---------------------------|-------------|--------------|-----------------------|--|
| | | Monthly | | Pe | rcent Chan | ge | | Mon | thly | | % Change | |
| Industry | July 2016 ^p | June 2016 ^r | May 2016 | June - July | May - June | Apr May | July 2016 ^p | June 2016 ^r | May 2016 | July 2015 | July 2016/ 2015 | |
| All manufacturing industries ² | 1,126,260 | 1,127,237 | 1,137,551 | -0.1 | -0.9 | 0.0 | 1,125,800 | 1,128,022 | 1,138,297 | 1,151,069 | -2.2 | |
| Excluding transportation ² | 354,234 | 353,160 | 353,735 | 0.3 | -0.2 | 0.0 | 356,435 | 356,438 | 358,821 | 355,879 | 0.2 | |
| Excluding defense ² | 953,573 | 954,166 | 962,430 | -0.1 | -0.9 | 0.1 | 952,189 | 952,755 | 963,719 | 974,049 | -2.2 | |
| Durable goods industries ² | 1,126,260 | 1,127,237 | 1,137,551 | -0.1 | -0.9 | 0.0 | 1,125,800 | 1,128,022 | 1,138,297 | 1,151,069 | -2.2 | |
| Primary metals | 32,271 | 32,476 | 32,739 | -0.6 | -0.8 | 0.5 | 32,673 | 32,951 | 33,336 | 33,169 | -1.5 | |
| Iron and steel mills | 18,079 | 18,169 | 18,363 | -0.5 | -1.1 | 1.6 | 18,522 | 18,781 | 18,969 | 17,659 | 4.9 | |
| Aluminum and nonferrous metals | 10,412 | 10,468 | 10,483 | -0.5 | -0.1 | -1.7 | 10,337 | 10,328 | 10,395 | 11,836 | -12.7 | |
| Ferrous metal foundries | 3,780 | 3,839 | 3,893 | -1.5 | -1.4 | 1.6 | 3,814 | 3,842 | 3,972 | 3,674 | | |
| Fabricated metal products | 74,094 | 73,862 | 73,799 | 0.3 | 0.1 | -0.1 | 75,359 | 75,041 | 75,578 | 75,353 | 0.0 | |
| Machinery | 92,929 | 92,825 | 93,427 | 0.1 | -0.6 | -0.9 | 92,849 | 92,895 | 94,314 | 99,743 | | |
| Construction machinery | 4,248 | 4,335 | 4,536 | -2.0 | -4.4 | -5.6 | 3,985 | 4,214 | 4,601 | 6,028 | -33.9 | |
| Mining, oil field, and gas field machinery | 5,942 | 5,991 | 6,320 | -0.8 | -5.2 | -10.4 | 5.960 | 6,036 | 6,277 | 10.497 | -43.2 | |
| Industrial machinery | 7,557 | 7,698 | 7,834 | -1.8 | -1.7 | 0.6 | 7,664 | 7,788 | 7,894 | 8,769 | | |
| Photographic equipment | 1,164 | 1,176 | 1,210 | | -2.8 | -1.4 | 1,161 | 1,153 | 1,276 | 1,333 | | |
| Ventilation, heating, air-conditioning, | 1,104 | 1,170 | 1,210 | -1.0 | -2.0 | -1.4 | 1,101 | 1,100 | 1,270 | 1,555 | | |
| and refrigeration equipment | 6,558 | 6,351 | 6,319 | 3.3 | 0.5 | -0.3 | 6,486 | 6,383 | 6,520 | 6,151 | 5.4 | |
| Metalworking machinery | 7,307 | 7,237 | 7,164 | 1.0 | 1.0 | -0.4 | 7,365 | 7,256 | 7,295 | 7,039 | 4.6 | |
| Turbines, generators, and other | | | | | | | | | | | | |
| power transmission equipment | 25,576 | 25,625 | 25,624 | -0.2 | 0.0 | -0.4 | 25,651 | 25,641 | 25,552 | 25,723 | | |
| Material handling equipment | 11,980 | 11,912 | 11,921 | 0.6 | -0.1 | 1.7 | 12,005 | 12,190 | 12,222 | 11,226 | 6.9 | |
| Computers and electronic products ² | 129,114 | 128,423 | 128,124 | 0.5 | 0.2 | 0.5 | 129,289 | 129,113 | 129,013 | 122,390 | 5.6 | |
| Computers | 2,388 | 2,403 | 2,411 | -0.6 | -0.3 | 0.2 | 2,388 | 2,403 | 2,411 | 2,390 | -0.1 | |
| Nondefense communications | | | | | | | | | | | | |
| equipment | 32,621 | 32,289 | 32,142 | 1.0 | 0.5 | 1.1 | 32,573 | 32,393 | 32,460 | 29,303 | 11.2 | |
| Defense communications equipment | 2,310 | 2,330 | 2,299 | -0.9 | 1.3 | 0.2 | 2,344 | 2,376 | 2,292 | 2,383 | | |
| Electronic components Nondefense search and navigation | 12,190 | 12,035 | 12,111 | 1.3 | -0.6 | -0.2 | 12,177 | 11,980 | 12,213 | 11,867 | 2.6 | |
| equipment | 17,736 | 17,636 | 17,539 | 0.6 | 0.6 | 0.3 | 17,858 | 17,736 | 17,550 | 16,553 | 7.9 | |
| Defense search and navigation equipment | 28,282 | 28,501 | 28,562 | -0.8 | -0.2 | 0.5 | 28,340 | 28,793 | 28,743 | 27,426 | 3.3 | |
| Electromedical, measuring, | | | | | | | | | | | | |
| and control instruments | 33,587 | 33,229 | 33,060 | 1.1 | 0.5 | 0.2 | 33,609 | 33,432 | 33,344 | 32,468 | 3.5 | |
| Electrical equipment, appliances, | | | | | | | | | | | | |
| and components | 17,649 | 17,324 | 17,286 | 1.9 | 0.2 | -0.3 | 17,693 | 17,617 | 17,587 | 16,873 | | |
| Electric lighting equipment | 1,341 | 1,340 | 1,349 | 0.1 | -0.7 | 0.4 | 1,350 | 1,361 | 1,364 | 1,282 | 5.3 | |
| Household appliances | 1,195 | 1,106 | 1,045 | 8.0 | 5.8 | -5.9 | 1,143 | 1,114 | 1,125 | 1,179 | | |
| Electrical equipment | 7,942 | 7,923 | 7,986 | 0.2 | -0.8 | -0.5 | 8,042 | 7,971 | 8,055 | 8,059 | | |
| Transportation equipment Motor vehicle bodies, parts, | 772,026 | 774,077 | 783,816 | -0.3 | -1.2 | 0.1 | 769,365 | 771,584 | 779,476 | 795,190 | -3.2 | |
| and trailers | 22,048 | 22,169 | 22,415 | -0.5 | -1.1 | 0.3 | 21,294 | 21,777 | 22,499 | 22,879 | -6.9 | |
| Nondefense aircraft and parts | 592,122 | 593,696 | 600,967 | -0.3 | -1.2 | 0.3 | 589,496 | 589,784 | 597,399 | 604,815 | | |
| Defense aircraft and parts | 70,722 | 70,357 | 70,870 | 0.5 | -0.7 | -0.5 | 70,746 | 70,874 | 70,166 | 64,842 | | |
| Ships and boats | 16,618 | 16,722 | 16,908 | -0.6 | -1.1 | -2.2 | 16,921 | 17,285 | 16,960 | 26,767 | | |
| Furniture and related products | 7,926 | 8,007 | 8,118 | | -1.4 | 0.3 | 8,321 | 8,578 | 8,751 | 8,104 | | |
| · | | | | | | | • • | | | | <u> </u> | |

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

² Data on unfilled orders are not available for the semiconductor industry. Estimates and percent changes for unfilled orders exclude semiconductor industry data. See note at end of Table 2 relating to survey error and revision.

Table 4. Value of Manufacturers' Inventories for Industry Groups¹

| | | | Seasonally A | | | | | | | | |
|--|---------------------------|---------------------------|--------------------|----------------|---------------|--------------|---------------------------|---------------------------|--------------------|--------------------|-----------------------|
| | | Monthly | | Pe | rcent Chan | ge | | Mon | thly | | % Change |
| Industry | July 2016 ^p | June 2016 ^r | May 2016 | June - July | May - June | Apr May | July 2016 ^p | June 2016 ^r | May 2016 | July 2015 | July 2016/ 2015 |
| All manufacturing industries | 620,329 | 619,472 | 619,667 | 0.1 | 0.0 | -0.1 | 625,189 | 616,964 | 624,889 | 643,934 | -2.9 |
| Excluding transportation | 496,645 | 496,325 | 495,491 | 0.1 | 0.2 | 0.0 | 500,486 | 495,096 | 499,624 | 517,335 | -3.3 |
| Excluding defense With unfilled orders | 594,460 311,087 | 594,381 309,757 | 593,986 311,162 | 0.0 0.4 | 0.1 -0.5 | -0.1 -0.4 | 598,989 314,317 | 591,612 308,053 | 599,048 314,327 | 617,052 324,700 | -2.9 -3.2 |
| Durable goods industries | 383,116 | 381,715 | 382,258 | 0.4 | -0.1 | -0.4 | 386,307 | 378,959 | 385,715 | 396,577 | -2.6 |
| · · | • | | • | | | | | | · | | |
| Wood products Nonmetallic mineral products | 11,302 13,037 | 11,217 12,991 | 11,137 12,965 | 0.8 0.4 | 0.7 0.2 | 0.7 0.4 | 11,161 13,068 | 10,984 13,093 | 11,018 13,271 | 11,248 12,890 | -0.8 1.4 |
| Primary metals | 31,621 | 31,253 | 31,235 | 1.2 | 0.2 | -0.1 | 31,711 | 30,828 | 31,033 | 35,733 | -11.3 |
| Iron and steel mills | 17,244 | 16,924 | 16,955 | 1.9 | -0.2 | 0.2 | 17,259 | 16,571 | 16,689 | 20,495 | -15.8 |
| Aluminum and nonferrous metals Ferrous metal foundries | 12,298 2,079 | 12,244 2,085 | 12,179 2,101 | 0.4 -0.3 | 0.5 -0.8 | -0.6 -0.1 | 12,386 2,066 | 12,191 2,066 | 12,205 2,139 | 13,152 2,086 | -5.8 -1.0 |
| Fabricated metal products | 49,233 | 48,788 | 48,568 | 0.9 | 0.5 | 0.0 | 49,597 | 48,691 | 49,032 | 49,873 | -0.6 |
| Machinery | 65,301 | 65,649 | 65,400 | -0.5 | 0.4 | -0.8 | 65,917 | 65,157 | 66,280 | 69,322 | -4.9 |
| Farm machinery Construction machinery | 2,856 5,445 | 2,912 5,441 | 2,983 5,378 | -1.9 0.1 | -2.4 1.2 | 0.9 -4.4 | 2,824 5,408 | 2,972 5,410 | 3,093 5,371 | 3,479 6,724 | -18.8 -19.6 |
| Mining, oil field, | 3,443 | 3,441 | 3,370 | 0.1 | 1.2 | -7.7 | 3,400 | 3,410 | 3,371 | 0,724 | -13.0 |
| and gas field machinery | 7,203 | 7,189 | 7,115 | 0.2 | 1.0 | -1.8 | 7,277 | 7,256 | 7,292 | 7,986 | -8.9 |
| Industrial machinery Photographic equipment | 6,363 1,587 | 6,419 1,586 | 6,321 1,589 | -0.9 0.1 | 1.6 -0.2 | 0.5 -0.5 | 6,304 1,623 | 6,392 1,547 | 6,369 1,599 | 6,208 1,571 | 1.5 3.3 |
| Ventilation, heating, air-conditioning, | 1,367 | 1,500 | 1,509 | 0.1 | -0.2 | -0.5 | 1,023 | 1,547 | 1,555 | 1,571 | 3.3 |
| and refrigeration equipment | 4,342 | 4,384 | 4,423 | -1.0 | -0.9 | -0.6 | 4,420 | 4,433 | 4,687 | 4,869 | -9.2 |
| Metalworking machinery | 5,674 | 5,624 | 5,621 | 0.9 | 0.1 | -0.3 | 5,745 | 5,599 | 5,682 | 5,800 | -0.9 |
| Turbines, generators, and other power transmission equipment | 9,400 | 9,663 | 9,582 | -2.7 | 0.8 | -0.7 | 9,594 | 9,263 | 9,726 | 9,995 | -4.0 |
| Material handling equipment | 4,616 | 4,637 | 4,703 | -0.5 | -1.4 | 1.6 | 4,770 | 4,671 | 4,698 | 4,458 | 7.0 |
| Computers and electronic products ² | 42,485 | 42,708 | 42,714 | -0.5 | 0.0 | -0.2 | 43,077 | 42,379 | 43,412 | 43,999 | -2.1 |
| Computers Computer storage devices | 1,575 960 | 1,570 986 | 1,523 1,014 | 0.3 -2.6 | 3.1 -2.8 | -0.2 -1.6 | 1,684 987 | 1,590 957 | 1,573 1,027 | 1,672 1,173 | 0.7 -15.9 |
| Other peripheral equipment | 1,019 | 1,031 | 1,036 | -1.2 | -0.5 | -0.3 | 1,038 | 1,007 | 1,027 | 1,221 | -15.0 |
| Nondefense communications | | | | | | | | | | | |
| equipment Defense communications equipment | 3,952 602 | 3,984 617 | 4,095 595 | -0.8 -2.4 | -2.7 3.7 | 0.3 -0.5 | 3,953 602 | 3,907 617 | 4,142 595 | 4,316 763 | -8.4 -21.1 |
| Audio and video equipment | 795 | 787 | 773 | 1.0 | 1.8 | 2.0 | 806 | 737 | 701 | 775 | 4.0 |
| Electronic components | 7,682 | 7,746 | 7,622 | -0.8 | 1.6 | 0.3 | 7,805 | 7,679 | 7,671 | 7,742 | 0.8 |
| Nondefense search and navigation | 2.052 | 2.071 | 2.076 | -0.6 | 0.2 | 0.6 | 2.004 | 2.046 | 2 006 | 2 125 | -1.0 |
| equipment Defense search and navigation | 3,053 | 3,071 | 3,076 | -0.6 | -0.2 | 0.6 | 3,094 | 3,046 | 3,086 | 3,125 | -1.0 |
| equipment | 2,953 | 2,976 | 2,912 | -0.8 | 2.2 | 0.3 | 3,046 | 3,000 | 3,044 | 2,898 | 5.1 |
| Electromedical, measuring | 14.040 | 44.007 | 44.004 | -0.3 | 0.1 | 0.4 | 44.000 | 12.001 | 11 111 | 44.040 | -4.0 |
| and control instruments Electrical equipment, appliances, | 14,048 | 14,097 | 14,081 | -0.3 | 0.1 | -0.4 | 14,232 | 13,991 | 14,444 | 14,819 | -4.0 |
| and components | 16,328 | 16,175 | 16,289 | 0.9 | -0.7 | -0.3 | 16,644 | 16,180 | 16,553 | 17,108 | -2.7 |
| Electric lighting equipment | 2,003 2,214 | 1,999 2,230 | 1,995 2,256 | 0.2 -0.7 | 0.2 -1.2 | 0.3 -0.1 | 2,058 2,288 | 1,998 2,246 | 2,019 2,295 | 1,969 2,323 | 4.5 -1.5 |
| Household appliances Electrical equipment | 4,864 | 4,890 | 4,917 | -0.7 | -0.5 | -0.1 | 4,916 | 4,848 | 5,032 | 5,163 | -1.5 -4.8 |
| Batteries | 1,320 | 1,329 | 1,348 | -0.7 | -1.4 | 0.5 | 1,386 | 1,354 | 1,365 | 1,500 | -7.6 |
| Transportation equipment | 123,684 | 123,147 | 124,176 | 0.4 | -0.8 | -0.6 | 124,703 | 121,868 | 125,265 | 126,599 | -1.5 7.8 |
| AutomobilesLight trucks and utility vehicles | 4,735 4,205 | 4,933 4,311 | 4,159 3,981 | -4.0 -2.5 | 18.6 8.3 | -2.8 -2.9 | 4,673 4,261 | 4,536 4,045 | 4,035 3,880 | 4,335 4,196 | 1.5 |
| Heavy duty trucks | 2,087 | 2,093 | 2,140 | -0.3 | -2.2 | -0.9 | 2,056 | 2,079 | 2,217 | 2,161 | -4.9 |
| Motor vehicle bodies, parts, | 00.074 | 00.040 | 00.450 | | 0.7 | 0.0 | 04.000 | 00.000 | 00.507 | 04.450 | 0.5 |
| and trailers Nondefense aircraft and parts | 23,871 62,072 | 23,613 62,356 | 23,458 63,833 | 1.1 -0.5 | 0.7 -2.3 | 0.9 -0.9 | 24,029 62,611 | 23,266 61,957 | 23,507 65,040 | 24,153 63,979 | -0.5 -2.1 |
| Defense aircraft and parts | 11,543 | 10,742 | 11,131 | 7.5 | -3.5 | -2.9 | 11,629 | 10,744 | 11,214 | 11,896 | -2.2 |
| Ships and boats | 2,951 | 2,946 | 2,944 | 0.2 | 0.1 | 2.6 | 2,932 | 2,998 | 2,890 | 2,835 | 3.4 |
| Furniture and related products | 7,148 22,977 | 7,148 22,639 | 7,171 22,603 | 0.0 1.5 | -0.3 0.2 | -0.2 -0.4 | 7,354 23,075 | 7,343 22,436 | 7,221 22,630 | 7,246 22,559 | 1.5 2.3 |
| Nondurable goods industries | 237,213 | 237,757 | 237,409 | -0.2 | 0.1 | 0.3 | 238,882 | 238,005 | 239,174 | 247,357 | -3.4 |
| | · · | | • | | | | | | , | | |
| Food productsGrain and oilseed milling | 53,602 5,700 | 53,801 5,763 | 53,643 5,856 | -0.4 -1.1 | 0.3 -1.6 | -0.4 -0.8 | 53,161 5,509 | 52,310 5,589 | 52,147 5,520 | 52,741 5,687 | 0.8 -3.1 |
| Dairy products | 7,308 | 7,322 | 7,306 | -0.2 | 0.2 | -1.1 | 7,563 | 7,561 | 7,551 | 7,542 | 0.3 |
| Meat, poultry, and seafood products | 8,969 | 9,057 | 9,187 | -1.0 | -1.4 | 0.0 | 9,010 | 8,971 | 9,103 | 9,764 | -7.7 |
| Beverage and tobacco products | 20,450 | 20,473 | 20,722 | -0.1 | -1.2 | 0.6 | 19,706 | 19,886 | 20,627 | 19,963 | -1.3 -0.3 |
| Beverages Tobacco | 16,684 3,766 | 16,687 3,786 | 16,901 3,821 | 0.0 -0.5 | -1.3 -0.9 | 0.8 -0.2 | 16,157 3,549 | 16,250 3,636 | 16,891 3,736 | 16,203 3,760 | -0.3 -5.6 |
| Textile mills | 3,170 | 3,176 | 3,167 | -0.2 | 0.3 | 0.9 | 3,188 | 3,195 | 3,198 | 3,120 | 2.2 |
| Textile products | 3,033 | 3,067 | 3,076 | -1.1 | -0.3 | -0.2 | 3,037 | 3,084 | 3,095 | 3,046 | -0.3 |
| ApparelLeather and allied products | 2,569 797 | 2,561 794 | 2,567 799 | 0.3 0.4 | -0.2 -0.6 | -0.3 -2.1 | 2,705 807 | 2,592 806 | 2,527 814 | 2,476 847 | 9.2 -4.7 |
| Paper products | 16,193 | 16,132 | 16,146 | 0.4 | -0.0 | -1.2 | 16,256 | 16,005 | 16,160 | 16,601 | -2.1 |
| Pulp, paper, and paperboard mills | 6,665 | 6,613 | 6,577 | 0.8 | 0.5 | -1.5 | 6,673 | 6,549 | 6,629 | 6,789 | -1.7 |
| Paperboard containers | 5,132 5,842 | 5,123 5,894 | 5,164 5,946 | 0.2 -0.9 | -0.8 -0.9 | -1.4 -0.9 | 5,128 5,915 | 5,077 5,905 | 5,159 5,908 | 5,239 5,931 | -2.1 -0.3 |
| Petroleum and coal products | 24,633 | 25,107 | 24,923 | -1.9 | 0.7 | 0.1 | 26,464 | 27,111 | 26,619 | 35,582 | -25.6 |
| Petroleum refineries | 19,994 | 20,474 | 20,353 | -2.3 | 0.6 | 0.4 | 21,752 | 22,417 | 21,963 | 30,861 | -29.5 |
| Chemical products Pesticides, fertilizers, and other | 81,594 | 81,429 | 81,077 | 0.2 | 0.4 | 1.0 | 82,291 | 81,723 | 82,294 | 81,627 | 0.8 |
| agricultural chemicals | 4,260 | 4,192 | 4,184 | 1.6 | 0.2 | 1.3 | 3,961 | 3,846 | 4,053 | 4,215 | -6.0 |
| Pharmaceuticals and medicines | 33,005 | 32,938 | 32,598 | 0.2 | 1.0 | 1.4 | 33,350 | 33,541 | 33,378 | 31,345 | 6.4 |
| Paints, coatings, and adhesives | 3,678 25,330 | 3,696 25,323 | 3,688 25,343 | -0.5 0.0 | 0.2 -0.1 | 1.8 0.7 | 3,716 25,352 | 3,755 25,388 | 3,772 25,785 | 3,612 | 2.9 -0.3 |
| Plastics and rubber products | 25,330 | 25,323 | 25,343 | 0.0 | -0.1 | 0.7 | 20,302 | 25,388 | 25,785 | 25,423 | -0.3 |

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

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

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

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

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

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

| Estimates are shown in millions of a | Seasonally Adjusted | | | | | | | , | | Seasonally | | | |
|--|--|--|--|-----------------------------|--------------------------------|-------------------------------|--|--|--|--|---|---|--|
| | | Monthly | | Per | cent Cha | nge | | Mon | thly | | Year t | o date | |
| Industry | July 2016 ^p | June 2016 ^r | May 2016 | June - July | May - June | Apr May | July 2016 ^p | June 2016 ^r | May 2016 | July 2015 | 2016 ^p | 2015 | % Change⁶ 2016/ 2015 |
| SHIPMENTS | | | | | | | | | | | | | |
| All manufacturing industries | 458,864 | 459,724 | 456,889 | -0.2 | 0.6 | 0.1 | 437,519 | 490,264 | 465,958 | 462,331 | 3,178,930 | 3,282,559 | -3.2 |
| Construction materials and supplies Information technology Computers and related products Motor vehicle and parts | 46,304 23,016 1,938 54,842 | 46,356 22,616 1,750 55,009 | 46,542 22,538 1,854 53,591 | -0.1 1.8 10.7 -0.3 | -0.4 0.3 -5.6 2.6 | -0.6 0.3 -3.1 -3.5 | 47,129 20,781 1,527 45,272 | 51,188 26,113 2,531 59,183 | 48,924 21,808 1,623 54,523 | 48,288 20,656 1,729 48,533 | 325,233 152,866 12,313 382,730 | 319,999 152,383 14,752 370,276 | 1.6 0.3 -16.5 3.4 |
| Capital goods | 82,248 71,698 62,344 10,550 | 81,898 71,701 62,642 10,197 | 82,532 72,641 62,921 9,891 | 0.4 0.0 -0.5 3.5 | -0.8 -1.3 -0.4 3.1 | 1.2 1.0 -0.7 3.0 | 74,944 65,447 57,663 9,497 | 91,649 80,514 69,366 11,135 | 81,666 71,989 62,624 9,677 | 80,958 71,622 63,638 9,336 | 563,003 494,749 436,413 68,254 | 587,772 523,438 460,371 64,334 | -4.2 -5.5 -5.2 6.1 |
| Consumer goods | 184,209 37,569 146,640 | 185,051 37,374 147,677 | 182,850 36,807 146,043 | -0.5 0.5 -0.7 | 1.2 1.5 1.1 | -0.1 -4.5 1.1 | 177,005 31,183 145,822 | 192,092 40,007 152,085 | 186,250 37,013 149,237 | 189,834 34,496 155,338 | 1,268,186 263,767 1,004,419 | 1,341,858 263,936 1,077,922 | -5.5 -0.1 -6.8 |
| NEW ORDERS | | | | | | | | | | | | | |
| All manufacturing industries ⁵ | 454,759 | 446,331 | 454,295 | 1.9 | -1.8 | -1.2 | 431,743 | 477,376 | 459,330 | 459,347 | 3,143,812 | 3,244,001 | -3.1 |
| Construction materials and supplies Information technology Computers and related products Motor vehicle and parts | 46,276 23,756 1,923 54,721 | 46,265 23,006 1,742 54,763 | 46,448 23,210 1,860 53,659 | 0.0 3.3 10.4 -0.1 | -0.4 -0.9 -6.3 2.1 | -1.1 -0.6 -2.5 -3.2 | 47,103 20,755 1,512 44,789 | 50,748 26,451 2,523 58,461 | 49,440 22,067 1,629 54,644 | 48,278 20,626 1,694 48,055 | 327,714 158,764 12,254 380,465 | 322,442 157,632 14,862 369,160 | 1.6 0.7 -17.5 3.1 |
| Capital goods | 81,157 71,557 63,394 9,600 | 71,926 64,987 62,437 6,939 | 82,084 72,920 62,153 9,164 | 12.8 10.1 1.5 38.3 | -12.4 -10.9 0.5 -24.3 | -6.0 -1.7 -0.6 -30.1 | 72,951 65,427 57,849 7,524 | 83,088 73,114 68,292 9,974 | 78,134 70,193 61,201 7,941 | 82,685 73,940 62,330 8,745 | 549,143 480,275 440,868 68,868 | 575,870 514,492 460,585 61,378 | -4.6 -6.7 -4.3 12.2 |
| Consumer goods Consumer durable goods Consumer nondurable goods | 184,301 37,661 146,640 | 185,084 37,407 147,677 | 182,817 36,774 146,043 | -0.4 0.7 -0.7 | 1.2 1.7 1.1 | -0.1 -4.5 1.1 | 177,062 31,240 145,822 | 191,845 39,760 152,085 | 186,189 36,952 149,237 | 189,657 34,319 155,338 | 1,268,290 263,871 1,004,419 | 1,341,627 263,705 1,077,922 | -5.5 0.1 -6.8 |
| UNFILLED ORDERS | | | | | | | | | | | | | |
| All manufacturing industries ⁵ | 1,126,260 | 1,127,237 | 1,137,551 | -0.1 | -0.9 | 0.0 | 1,125,800 | 1,128,022 | 1,138,297 | 1,151,069 | (X) | (X) | -2.2 |
| Construction materials and supplies Information technology Computers and related products Motor vehicle and parts | 45,973 125,259 2,388 22,048 | 46,001 124,519 2,403 22,169 | 46,092 124,129 2,411 22,415 | -0.1 0.6 -0.6 -0.5 | -0.2 0.3 -0.3 -1.1 | -0.2 0.5 0.2 0.3 | 46,788 125,431 2,388 21,294 | 46,814 125,457 2,403 21,777 | 47,254 125,119 2,411 22,499 | 46,551 118,209 2,390 22,879 | (X) (X) (X) (X) | (X) (X) (X) (X) | 0.5 6.1 -0.1 -6.9 |
| Capital goods Nondefense capital goods ³ Excluding aircraft Defense capital goods ⁴ | 836,423 700,699 221,288 135,724 | 837,514 700,840 220,238 136,674 | 847,486 707,554 220,443 139,932 | -0.1 0.0 0.5 -0.7 | -1.2 -0.9 -0.1 -2.3 | -0.1 0.0 -0.3 -0.5 | 837,016 699,998 222,141 137,018 | 839,009 700,018 221,955 138,991 | 847,570 707,418 223,029 140,152 | 870,708 727,703 225,993 143,005 | (X) (X) (X) (X) | (X) (X) (X) (X) | -3.9 -3.8 -1.7 -4.2 |
| Consumer goods | 4,419 4,419 | 4,327 4,327 | 4,294 4,294 | 2.1 2.1 | 0.8 0.8 | -0.8 -0.8 | 4,296 4,296 | 4,239 4,239 | 4,486 4,486 | 4,097 4,097 | (X) | (X) (X) | 4.9 4.9 |
| TOTAL INVENTORIES | 4,419 | 4,327 | 4,294 | 2.1 | 0.6 | -0.6 | 4,290 | 4,239 | 4,400 | 4,097 | (X) | (^) | 4.9 |
| All manufacturing industries | 620,329 | 619,472 | 619,667 | 0.1 | 0.0 | -0.1 | 625,189 | 616,964 | 624,889 | 643,934 | (X) | (X) | -2.9 |
| Construction materials and supplies | 65,434 | 64,913 | 64,695 | 0.8 | 0.3 | 0.1 | 65,747 | 64,829 | 65,615 | 66,222 | (X) | (X) | -0.7 |
| Information technology. Computers and related products Motor vehicle and parts | 36,673 3,554 34,898 | 36,631 3,587 34,950 | 36,652 3,573 33,738 | 0.1 -0.9 -0.1 | -0.1 0.4 3.6 | -0.1 -0.6 -0.2 | 37,261 3,709 35,019 | 36,327 3,554 33,926 | 37,327 3,687 33,639 | 38,689 4,066 34,845 | (X) (X) (X) (X) | (X) (X) (X) (X) | -3.7 -8.8 0.5 |
| Capital goods Nondefense capital goods ³ Excluding aircraft Defense capital goods ⁴ | 190,232 169,112 118,268 21,120 | 189,734 169,427 118,167 20,307 | 191,485 170,690 117,990 20,795 | 0.3 -0.2 0.1 4.0 | -0.9 -0.7 0.2 -2.3 | -0.6 -0.7 -0.5 -0.4 | 192,381 171,016 119,621 21,365 | 189,235 168,669 117,483 20,566 | 194,178 173,306 119,529 20,872 | 199,159 177,144 123,821 22,015 | (X) (X) (X) (X) | (X) (X) (X) (X) | -3.4 -3.5 -3.4 -3.0 |
| Consumer goods | 176,694 29,726 146,968 | 177,652 30,067 147,585 | 176,246 29,044 147,202 | -0.5 -1.1 -0.4 | 0.8 3.5 0.3 | 0.0 -1.1 0.2 | 177,912 29,804 148,108 | 177,180 29,178 148,002 | 176,697 28,731 147,966 | 184,169 29,115 155,054 | (X) (X) (X) | (X) (X) (X) (X) | -3.4 2.4 -4.5 |

X Not Applicable Preliminary

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

Revised data due to late receipts and concurrent seasonal adjustment.

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

² Topical series are regroupings of the separate industry categories.

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

⁴Defense 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.

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

| | | - | Seasonally A | djusted | | | Not Seasonally Adjusted | | | | | | |
|--|---------------------------|---------------------------|------------------|----------------|----------------|--------------|---------------------------|---------------------------|------------------|------------------|-----------------------|--|--|
| | Monthly | | | | Percent Change | | | Mon | thly | | % Change | | |
| Industry | July 2016 ^p | June 2016 ^r | May 2016 | June - July | May - June | Apr May | July 2016 ^p | June 2016 ^r | May 2016 | July 2015 | July 2016/ 2015 | | |
| MATERIALS AND SUPPLIES | | | | | | | | | | | | | |
| All manufacturing industries | 208,984 | 207,339 | 206,954 | 0.8 | 0.2 | 0.1 | 210,434 | 205,725 | 207,068 | 212,950 | -1.2 | | |
| Durable goods industries | 130,562 | 128,776 | 128,157 | 1.4 | 0.5 | 0.0 | 131,771 | 127,158 | 127,984 | 132,365 | -0.4 | | |
| Wood products Nonmetallic mineral products | 4,659 5,212 | 4,603 5,270 | 4,552 5,299 | 1.2 -1.1 | 1.1 -0.5 | -0.4 0.0 | 4,611 5,226 | 4,386 5,294 | 4,309 5,331 | 4,681 5,344 | -1.5 -2.2 | | |
| Primary metals | 12,603 | 12,459 | 12,254 | 1.2 | 1.7 | -0.4 | 12,550 | 12,230 | 11,918 | 13,386 | -6.2 | | |
| Fabricated metal products Machinery | 18,009 23,834 | 17,750 23,992 | 17,681 24,115 | 1.5 -0.7 | 0.4 -0.5 | 0.0 -1.3 | 18,133 24,343 | 17,668 23,954 | 17,663 24,390 | 18,339 26,573 | -1.1 -8.4 | | |
| Computers and electronic products | 17,701 | 17,532 | 17,489 | 1.0 | 0.2 | 1.0 | 17,837 | 17,311 | 17,656 | 17,221 | 3.6 | | |
| Electrical equipment, appliances, and components | 6,531 | 6,490 | 6,537 | 0.6 | -0.7 | -0.6 | 6,634 | 6,450 | 6,611 | 7,101 | -6.6 | | |
| Transportation equipment | 30,944 | 29,702 | 29,257 | 4.2 | 1.5 | 0.6 | 31,215 | 28,843 | 29,081 | 28,582 | 9.2 | | |
| Furniture and related products Miscellaneous products | 3,622 7,447 | 3,603 7,375 | 3,611 7,362 | 0.5 1.0 | -0.2 0.2 | 0.2 0.4 | 3,680 7,542 | 3,644 7,378 | 3,615 7,410 | 3,696 7,442 | -0.4 1.3 | | |
| Nondurable goods industries | 78,422 | 78,563 | 78,797 | -0.2 | -0.3 | 0.4 | 78,663 | 78,567 | 79,084 | 80,585 | -2.4 | | |
| Food products | 18,122 | 18,365 | 18,693 | -1.3 | -1.8 | 2.1 | 17,892 | 18,056 | 18,198 | 18,040 | -0.8 | | |
| Beverage and tobacco products Textiles | 5,048 1,164 | 5,022 1,155 | 5,018 1,148 | 0.5 0.8 | 0.1 0.6 | 1.2 -0.9 | 4,767 1,164 | 4,843 1,163 | 4,983 1,161 | 4,803 1,174 | -0.7 -0.9 | | |
| Textile products | 1,043 | 1,070 | 1,069 | -2.5 | 0.1 | 0.1 | 1,046 | 1,080 | 1,077 | 1,057 | -1.0 | | |
| Apparel Leather and allied products | 694 240 | 686 239 | 699 238 | 1.2 0.4 | -1.9 0.4 | -2.5 -2.1 | 713 244 | 696 238 | 696 240 | 745 254 | -4.3 -3.9 | | |
| Paper products | 8,229 | 8,217 | 8,239 | 0.1 | -0.3 | -1.3 | 8,240 | 8,129 | 8,197 | 8,500 | -3.1 | | |
| Printing Petroleum and coal products | 2,654 5,907 | 2,710 5,974 | 2,762 5,762 | -2.1 -1.1 | -1.9 3.7 | -1.1 1.5 | 2,706 6,249 | 2,732 6,466 | 2,756 6,246 | 2,926 8,069 | -7.5 -22.6 | | |
| Chemical products | 25,320 | 25,104 | 25,124 | 0.9 | -0.1 | -0.4 | 25,569 | 25,136 | 25,437 | 24,688 | 3.6 | | |
| Plastics and rubber products | 10,001 | 10,021 | 10,045 | -0.2 | -0.2 | 0.2 | 10,073 | 10,028 | 10,093 | 10,329 | -2.5 | | |
| WORK IN PROCESS | | | | | | | | | | | | | |
| All manufacturing industries | 190,612 | 191,821 | 194,097 | -0.6 | -1.2 | 0.3 | 192,357 | 191,652 | 196,136 | 202,768 | -5.1 | | |
| Durable goods industries | 142,700 | 143,367 | 146,073 | -0.5 | -1.9 | -0.2 | 144,397 | 143,387 | 147,893 | 152,488 | -5.3 | | |
| Wood products Nonmetallic mineral products | 2,186 1,476 | 2,193 1,450 | 2,197 1,454 | -0.3 1.8 | -0.2 -0.3 | 0.2 0.2 | 2,176 1,493 | 2,208 1,476 | 2,227 1,502 | 2,184 1,449 | -0.4 3.0 | | |
| Primary metals | 9,104 | 9,052 | 9,325 | 0.6 | -2.9 | 0.7 | 9,282 | 9,061 | 9,382 | 11,252 | -17.5 | | |
| Fabricated metal products Machinery | 12,938 19,346 | 12,882 19,273 | 12,785 18,599 | 0.4 0.4 | 0.8 3.6 | 0.3 0.5 | 13,047 19,424 | 12,845 19,000 | 12,814 18,752 | 13,074 18,711 | -0.2 3.8 | | |
| Computers and electronic products | 12,832 | 13,107 | 13,421 | -2.1 | -2.3 | -1.5 | 13,256 | 13,318 | 13,871 | 15,080 | -12.1 | | |
| Electrical equipment, appliances, and components | 3,513 | 3,453 | 3,443 | 1.7 | 0.3 | -0.1 | 3,557 | 3,457 | 3,517 | 3,581 | -0.7 | | |
| Transportation equipment | 76,321 | 77,061 | 79,976 | -1.0 | -3.6 | -0.1 | 77,138 | 77,096 | 80,926 | 82,371 | -6.4 | | |
| Furniture and related products Miscellaneous products | 1,089 3,895 | 1,090 3,806 | 1,069 3,804 | -0.1 2.3 | 2.0 0.1 | -2.0 -1.7 | 1,106 3,918 | 1,103 3,823 | 1,070 3,832 | 1,025 3,761 | 7.9 4.2 | | |
| Nondurable goods industries | 47,912 | 48,454 | 48,024 | -1.1 | 0.9 | 2.1 | 47,960 | 48,265 | 48,243 | 50,280 | -4.6 | | |
| Food products | 6,183 | 6,128 | 6,029 | 0.9 | 1.6 | -1.4 | 5,754 | 5,531 | 5,452 | 5,603 | 2.7 | | |
| Beverage and tobacco products Textiles | 7,477 668 | 7,525 691 | 7,629 693 | -0.6 -3.3 | -1.4 -0.3 | 0.3 0.3 | 6,922 676 | 7,105 690 | 7,407 698 | 6,928 690 | -0.1 -2.0 | | |
| Textiles | 440 | 444 | 444 | -0.9 | 0.0 | -0.4 | 442 | 442 | 446 | 428 | 3.3 | | |
| Apparel | 317 106 | 318 106 | 323 106 | -0.3 0.0 | -1.5 0.0 | -1.5 2.9 | 346 106 | 339 105 | 331 107 | 372 104 | -7.0 1.9 | | |
| Leather and allied products Paper products | 1,256 | 1,260 | 1,262 | -0.3 | -0.2 | -0.7 | 1,270 | 1,267 | 1,266 | 1,315 | -3.4 | | |
| Printing | 1,577 7,772 | 1,588 8.196 | 1,591 7.897 | -0.7 -5.2 | -0.2 3.8 | -0.4 3.3 | 1,591 8.393 | 1,539 8.710 | 1,525 8.428 | 1,453 11.521 | 9.5 -27.2 | | |
| Petroleum and coal products Chemical products | 19,092 | 19,172 | 19,036 | -0.4 | 0.7 | 4.4 | 19,417 | 19,494 | 19,518 | 18,859 | 3.0 | | |
| Plastics and rubber products | 3,024 | 3,026 | 3,014 | -0.1 | 0.4 | 0.4 | 3,043 | 3,043 | 3,065 | 3,007 | 1.2 | | |
| FINISHED GOODS | | | | | | | | | | | | | |
| All manufacturing industries | 220,733 | 220,312 | 218,616 | 0.2 | 0.8 | -0.8 | 222,398 | 219,587 | 221,685 | 228,216 | -2.5 | | |
| Durable goods industries | 109,854 | 109,572 | 108,028 | 0.3 | 1.4 | -1.0 | 110,139 | 108,414 | 109,838 | 111,724 | -1.4 | | |
| Wood products Nonmetallic mineral products | 4,457 6,349 | 4,421 6,271 | 4,388 6,212 | 0.8 1.2 | 0.8 0.9 | 2.2 0.8 | 4,374 6,349 | 4,390 6,323 | 4,482 6,438 | 4,383 6,097 | -0.2 4.1 | | |
| Primary metals | 9,914 | 9,742 | 9,656 | 1.8 | 0.9 | -0.4 | 9,879 | 9,537 | 9,733 | 11,095 | -11.0 | | |
| Fabricated metal products Machinery | 18,286 22,121 | 18,156 22,384 | 18,102 22,686 | 0.7 -1.2 | 0.3 -1.3 | -0.3 -1.2 | 18,417 22,150 | 18,178 22,203 | 18,555 23,138 | 18,460 24,038 | -0.2 -7.9 | | |
| Computers and electronic products | 11,952 | 12,069 | 11,804 | -1.0 | 2.2 | -0.3 | 11,984 | 11,750 | 11,885 | 11,698 | 2.4 | | |
| Electrical equipment, appliances, and components | 6,284 | 6,232 | 6,309 | 0.8 | -1.2 | 0.0 | 6,453 | 6,273 | 6,425 | 6,426 | 0.4 | | |
| Transportation equipment | 16,419 | 16,384 | 14,943 | 0.2 | 9.6 | -4.5 | 16,350 | 15,929 | 15,258 | 15,646 | 4.5 | | |
| Furniture and related products Miscellaneous products | 2,437 11,635 | 2,455 11,458 | 2,491 11,437 | -0.7 1.5 | -1.4 0.2 | 0.0 -0.5 | 2,568 11,615 | 2,596 11,235 | 2,536 11,388 | 2,525 11,356 | 1.7 2.3 | | |
| Nondurable goods industries | 110,879 | 110,740 | 110,588 | 0.1 | 0.1 | -0.6 | 112,259 | 111,173 | 111,847 | 116,492 | -3.6 | | |
| Food products | 29,297 | 29,308 | 28,921 | 0.0 | 1.3 | -1.8 | 29,515 | 28,723 | 28,497 | 29,098 | 1.4 | | |
| Beverage and tobacco products Textiles | 7,925 1,338 | 7,926 1,330 | 8,075 1,326 | 0.0 0.6 | -1.8 0.3 | 0.6 3.0 | 8,017 1,348 | 7,938 1,342 | 8,237 1,339 | 8,232 1,256 | -2.6 7.3 | | |
| Textiles | 1,550 | 1,553 | 1,563 | -0.2 | -0.6 | -0.3 | 1,548 | 1,342 | 1,572 | 1,256 | -0.8 | | |
| Apparel | 1,558 451 | 1,557 449 | 1,545 455 | 0.1 | 0.8 -1.3 | 1.0 -3.2 | 1,646 457 | 1,557 463 | 1,500 467 | 1,359 489 | 21.1 -6.5 | | |
| Leather and allied products Paper products | 6,708 | 6,655 | 455 6,645 | 0.4 0.8 | -1.3 0.2 | -3.2 -1.1 | 6,746 | 463 6,609 | 6,697 | 489 6,786 | -6.5 -0.6 | | |
| Printing | 1,611 | 1,596 | 1,593 | 0.9 | 0.2 | -1.1 | 1,618 | 1,634 | 1,627 | 1,552 | 4.3 | | |
| Petroleum and coal products Chemical products | 10,954 37,182 | 10,937 37,153 | 11,264 36,917 | 0.2 0.1 | -2.9 0.6 | -2.6 0.2 | 11,822 37,305 | 11,935 37,093 | 11,945 37,339 | 15,992 38,080 | -26.1 -2.0 | | |
| Plastics and rubber products | 12,305 | 12,276 | 12,284 | 0.2 | -0.1 | 1.1 | 12,236 | 12,317 | 12,627 | 12,087 | 1.2 | | |

Revised data due to late receipts and concurrent seasonal adjustment.

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

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

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

| | Inve | ntory/Ship | oments ra | tio | Unfilled Orders/Shipments ratio ² | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|
| Industry | Jul 2016 ^p | Jun 2016 ^r | May 2016 | Apr 2016 | Jul 2016 ^p | Jun 2016 ^r | May 2016 | Apr 2016 | | |
| All manufacturing industries ³ | 1.35 | 1.35 | 1.36 | 1.36 | (X) | (X) | (X) | (X) | | |
| Durable goods industries ³ | 1.65 1.37 1.32 1.76 1.64 2.20 1.57 1.72 1.53 1.14 | 1.64 1.38 1.31 1.75 1.64 2.19 1.60 1.71 1.52 1.14 | 1.65 1.36 1.32 1.77 1.62 2.17 1.61 1.73 1.55 1.14 | 1.35 1.31 1.77 1.62 2.16 1.62 1.73 1.55 1.14 | 6.79 (X) (X) 1.80 2.54 3.42 5.87 2.02 14.19 1.50 (X) | 6.81 (X) (X) 1.82 2.55 3.39 5.91 2.00 14.17 1.53 (X) | 6.89 (X) (X) 1.86 2.53 3.39 5.92 2.00 14.48 1.53 (X) | 6.94 (X) (X) 1.85 2.53 3.37 5.93 2.00 14.88 1.53 (X) | | |
| Nondurable goods industries. Food products. Beverage and tobacco products. Textiles. Textile products. Apparel. Leather and allied products. Paper products. Printing. Petroleum and coal products. Chemical products. Plastics and rubber products. | 1.76 0.82 1.63 1.27 1.53 2.38 2.38 1.08 0.82 0.71 1.23 | 1.71 1.05 0.83 1.66 1.26 1.55 2.38 2.35 1.06 0.82 0.69 1.23 1.32 | 1.05 0.83 1.73 1.26 1.55 2.36 2.34 1.06 0.83 0.71 1.23 1.33 | 1.06 0.84 1.68 1.25 1.56 2.38 2.43 1.07 0.85 0.73 | (X) (X) (X) (X) (X) (X) (X) (X) (X) (X) | (X) | 888888888888888888888888888888888888888 | (X) (X) (X) (X) (X) (X) (X) (X) (X) (X) | | |

X Not Applicable Preliminary

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 0 | Orders | Unfilled | Orders | Inven | itories | |
|--|--|--|---|---|---|---|---|---|--|
| Industry | Jul ² 2016 | Jul ³ 2015- Jun 2016 | Jul ² 2016 | Jul ³ 2015- Jun 2016 | Jul ² 2016 | Jul ³ 2015- Jun 2016 | Jul ² 2016 | Jul ³ 2015- Jun 2016 | |
| All manufacturing industries | (X) | 0.2 | (X) | 0.3 | (X) | 0.1 | (X) | 0.1 | |
| Durable goods industries Wood products Nonmetallic mineral products Fabricated metal products Fabricated metal products Rachinery Computers and electronic products Electrical equipment, appliances, and components Transportation equipment Furniture and related products Miscellaneous products Nondurable goods industries Food products Eeverage and tobacco products Textile products Apparel Leather and allied products Paper products Printing Petroleum and coal products Chemical products Chemical products Chemical products | -0.1 (X) | 0.2 0.6 0.1 0.5 0.2 0.7 0.3 0.3 0.4 0.4 0.2 0.5 1.0 1.7 0.3 0.3 1.0 0.3 | 1.1 (X) | 0.5 (NA) (NA) (NA) 0.7 (NA) 0.8 (NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA) | 0.0 (X) | 0.1 (NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA) | 0.1 (X) | 0.1 0.2 0.2 0.4 4 0.2 0.2 0.3 0.2 0.2 0.2 0.2 0.3 0.2 0.2 0.3 0.2 0.2 0.3 0.2 0.2 0.3 0.2 0.2 0.2 0.3 | |

X Not Applicable

NA Not Available

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.

 $^{^{\}rm 3}$ Unfilled orders to shipments ratio excludes semiconductor manufacturing.

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

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

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

Survey Description

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

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

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