


# MONTHLY FULL REPORT ON MANUFACTURERS' SHIPMENTS, INVENTORIES AND ORDERS JUNE 2019

Release Number: CB 19-104 M3-2 (19)-06

**August 2, 2019** — The U.S. Census Bureau announces the June full report on manufacturers' shipments, inventories and orders:

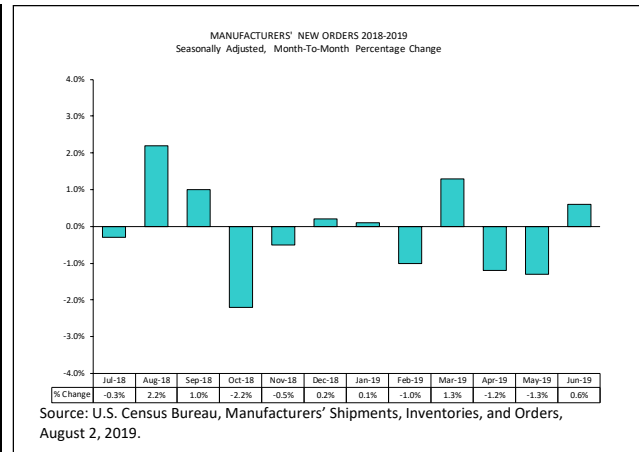


## MANUFACTURED GOODS – NEW ORDERS

<b>JUNE 2019</b>	<b>\$493.8 billion</b>	<b>+0.6%°</b>
<b>MAY 2019 (revised)</b>	<b>\$490.7 billion</b>	<b>-1.3%°</b>

**Next release: September 5, 2019**

Data adjusted for seasonal variation but not for price changes. Statistical significance is not measurable for this survey. The Manufacturers' Shipments, Inventories, and Orders estimates are not based on a probability sample, so the sampling error of these estimates cannot be measured nor can the confidence intervals be computed. Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories and Orders, August 2, 2019.



## Summary

New orders for manufactured goods in June, up following two consecutive monthly decreases, increased \$3.1 billion or 0.6 percent to \$493.8 billion, the U.S. Census Bureau reported today. This followed a 1.3 percent May decrease. Shipments, up four of the last five months, increased \$1.9 billion or 0.4 percent to \$506.2 billion. This followed a 0.1 percent May increase. Unfilled orders, down four of the last five months, decreased \$8.0 billion or 0.7 percent to \$1,160.2 billion. This followed a 0.8 percent May decrease. The unfilled orders-to-shipments ratio was 6.53, down from 6.62 in May. Inventories, up nine of the last ten months, increased \$1.3 billion or 0.2 percent to \$695.6 billion. This followed a 0.2 percent May increase. The inventories-to-shipments ratio was 1.37, down from 1.38 in May.

## New Orders

New orders for manufactured durable goods in June, up following two consecutive monthly decreases, increased \$4.5 billion or 1.9 percent to \$245.4 billion, down from the previously published 2.0 percent increase. This followed a 2.3 percent May decrease. Transportation equipment, also up following two consecutive monthly decreases, led the increase, \$2.9 billion or 3.7 percent to \$80.4 billion. New orders for manufactured nondurable goods decreased \$1.3 billion or 0.5 percent to \$248.4 billion.

### Data Inquiries

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## Shipments

Shipments of manufactured durable goods in June, up two consecutive months, increased \$3.2 billion or 1.3 percent to \$257.7 billion, down from the previously published 1.4 percent increase. This followed a 0.5 percent May increase. Transportation equipment, also up two consecutive months, led the increase, \$2.6 billion or 3.0 percent to \$88.7 billion. Shipments of manufactured nondurable goods, down two consecutive months, decreased \$1.3 billion or 0.5 percent to \$248.4 billion. This followed a 0.3 percent May decrease. Petroleum and coal products, also down two consecutive months, drove the decrease, \$2.2 billion or 4.1 percent to \$52.1 billion.

## Unfilled Orders

Unfilled orders for manufactured durable goods in June, down four of the last five months, decreased \$8.0 billion or 0.7 percent to \$1,160.2 billion, unchanged from the previously published decrease. This followed a 0.8 percent May decrease. Transportation equipment, also down four of the last five months, drove the decrease, \$8.3 billion or 1.0 percent to \$792.5 billion.

## Inventories

Inventories of manufactured durable goods in June, up eleven of the last twelve months, increased \$1.4 billion or 0.3 percent to \$426.0 billion, unchanged from the previously published increase. This followed a 0.5 percent May increase. Transportation equipment, also up eleven of the last twelve months, led the increase, \$1.2 billion or 0.9 percent to \$139.7 billion. Inventories of manufactured nondurable goods, down three consecutive months, decreased \$0.1 billion or virtually unchanged to \$269.6 billion. This followed a 0.2 percent May decrease. Petroleum and coal products, down two consecutive months, drove the decrease, \$1.0 billion or 2.4 percent to \$40.0 billion. By stage of fabrication, June materials and supplies increased 0.1 percent in durable goods and increased 0.4 percent in nondurable goods. Work in process increased 0.5 percent in durable goods and decreased 1.3 percent in nondurable goods. Finished goods increased 0.5 percent in durable goods and increased 0.2 percent in nondurable goods.

The Advance Report on durable goods for July is scheduled for release on August 26, 2019 at 8:30 a.m. EDT and the Full Report on September 5, 2019 at 10:00 a.m. EDT. View the full schedule in the Economic Briefing Room: <[www.census.gov/economic-indicators/](http://www.census.gov/economic-indicators/)>. The full text and tables of this release can be found at <[www.census.gov/m3](http://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.

## 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-in-process, and finished goods). Data published from the M3 survey are based on a panel of approximately 5,000 reporting units that represent approximately 3,100 companies and provide an indication of month-to-month change for the Manufacturing Sector. These reporting units may be divisions of diversified large companies, large homogenous companies, or single-unit manufacturers in 92 industry categories, which are combined into 65 publication levels due to the small monthly panel size. The survey methodology assumes that the month-to-month changes of the total operations of the reporting units in the M3 panel effectively represent the month-to-month movements of all establishments that make up the category. The companies for which shipments data are currently reported or imputed in the M3 survey represent approximately 64 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 57 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

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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](http://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/](http://www.census.gov/developers/)>.

### NEW TIME SERIES

Beginning with the release of June 2018 data on July 26, 2018, historical estimates of the Monthly Advance Report on Manufacturers' Shipments, Inventories and Orders are available on a seasonally adjusted basis as well as a not seasonally adjusted basis at: <<https://www.census.gov/econ/currentdata/>>.

### 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.

### Notice of Revisions and Changes Due to Updated Seasonal Adjustment Models

On May 16, 2019, monthly seasonally adjusted data for Manufacturers' Shipments, Inventories, and Orders, based on the North American Industry Classification System, were revised for January 2002 through March 2019. There was no accompanying press release containing revised seasonally adjusted data for January through March of 2019, and historical data not seasonally adjusted were unchanged. These revisions to the historical seasonally adjusted data were based on the results of the recent annual review of the seasonal adjustment models. Based on this review, the lists of series that are seasonally adjusted and not seasonally adjusted were updated. Three unfilled orders series and one total inventories

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series that have been adjusted are no longer seasonally adjusted. Conversely, two stage of fabrication series that have not been adjusted are now seasonally adjusted. These changes were implemented on May 16, 2019 and were used to produce seasonally adjusted data from the Manufacturers' Shipments, Inventories, and Orders Survey, beginning with the April 2019 Advance Report on Durable Goods released on May 24, 2019 and the Full Report released on June 4, 2019.

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**Table 1. Value of Manufacturers' Shipments for Industry Groups<sup>1</sup>**

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

Industry	Seasonally Adjusted						Not Seasonally Adjusted						
	Monthly			Percent Change			Monthly			Year to date			
	June 2019 <sup>a</sup>	May 2019 <sup>a</sup>	Apr. 2019	May - June	Apr. - May	Mar. - Apr.	June 2019 <sup>a</sup>	May 2019 <sup>a</sup>	Apr. 2019	June 2018	2019 <sup>b</sup>	2018	% Change 2019/2018
All manufacturing industries.....	506,153	504,257	503,881	0.4	0.1	-0.6	523,671	522,423	505,758	525,660	3,014,166	2,957,545	1.9
Excluding transportation.....	417,464	418,142	418,357	-0.2	-0.1	0.3	430,276	433,669	421,445	433,348	2,483,834	2,452,963	1.3
Excluding defense.....	491,191	489,184	488,816	0.4	0.1	-0.7	507,600	507,638	492,227	511,206	2,927,200	2,879,759	1.6
With unfilled orders.....	177,697	176,432	176,076	0.7	0.2	-1.4	188,578	181,791	173,963	189,848	1,063,443	1,034,547	2.8
Durable goods industries.....	257,724	254,487	253,324	1.3	0.5	-1.6	271,219	261,851	252,345	269,575	1,533,618	1,484,342	3.3
Wood products.....	9,148	9,117	9,113	0.3	0.0	0.1	9,839	10,002	9,729	10,303	54,646	56,283	-2.9
Nonmetallic mineral products.....	11,381	11,232	11,195	1.3	0.3	-0.1	11,962	12,043	11,460	11,796	65,674	63,550	3.3
Primary metals.....	20,542	20,544	20,786	0.0	-1.2	-1.5	21,069	21,718	21,653	22,440	127,856	127,986	-0.1
Iron and steel mills.....	10,217	10,541	10,700	-3.1	-1.5	-1.5	10,494	11,222	11,186	11,289	65,312	63,139	3.4
Aluminum and nonferrous metals.....	8,845	8,486	8,535	4.2	-0.6	-1.8	8,984	8,874	8,844	9,635	53,263	56,413	-5.6
Ferrous metal foundries.....	1,480	1,517	1,551	-2.4	-2.2	0.4	1,591	1,622	1,623	1,516	9,281	8,434	10.0
Fabricated metal products.....	33,880	33,660	33,442	0.7	0.7	-0.6	35,058	35,243	33,879	34,683	201,810	194,513	3.8
Machinery.....	33,509	33,284	33,057	0.7	0.7	0.3	35,530	34,836	33,774	35,455	201,548	196,760	2.4
Farm machinery.....	2,662	2,543	2,488	4.7	2.2	-9.0	2,611	2,699	3,295	2,706	17,330	16,715	3.7
Construction machinery.....	3,173	3,108	3,018	2.1	3.0	2.7	3,270	3,354	3,185	3,131	18,672	17,902	4.3
Mining, oil field, and gas field machinery.....	1,562	1,595	1,524	-2.1	4.7	10.3	1,526	1,547	1,409	1,517	8,594	9,033	-4.9
Industrial machinery.....	2,802	2,745	2,699	2.1	1.7	3.5	3,216	2,631	2,524	3,025	15,734	15,248	3.2
Photographic equipment.....	532	540	563	-1.5	-4.1	6.0	598	512	522	643	3,247	3,165	2.6
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,174	4,166	4,121	0.2	1.1	1.2	5,144	4,749	4,062	4,966	24,908	23,200	7.4
Metalworking machinery.....	2,599	2,626	2,716	-1.0	-3.3	2.5	2,655	2,629	2,602	2,884	15,470	16,374	-5.5
Turbines, generators, and other power transmission equipment.....	4,405	4,367	4,389	0.9	-0.5	1.0	4,473	4,535	4,483	4,230	26,489	24,942	6.2
Material handling equipment.....	2,861	2,823	2,866	1.3	-1.5	-1.0	2,834	2,940	2,833	2,736	17,068	16,017	6.6
Computers and electronic products.....	28,086	28,292	28,176	-0.7	0.4	1.4	30,442	26,653	25,854	29,261	161,684	153,545	5.3
Computers.....	601	640	670	-6.1	-4.5	0.4	741	625	577	954	3,649	4,372	-16.5
Computer storage devices.....	342	353	374	-3.1	-5.6	16.1	547	264	261	417	1,964	1,591	23.4
Other peripheral equipment.....	814	796	782	2.3	1.8	2.8	974	711	685	886	4,456	4,120	8.2
Nondefense communications equipment.....	3,592	3,552	3,562	1.1	-0.3	1.3	4,383	3,294	3,218	4,041	20,531	18,386	11.7
Defense communications equipment.....	317	282	261	12.4	8.0	-18.4	301	271	258	277	1,707	1,586	7.6
Audio and video equipment.....	334	335	311	-0.3	7.7	5.8	305	315	259	213	1,673	1,204	39.0
Electronic components.....	3,676	3,592	3,567	2.3	0.7	-1.4	4,081	3,661	3,445	3,799	21,386	20,859	2.5
Nondefense search and navigation equipment.....	1,563	1,590	1,605	-1.7	-0.9	0.9	1,660	1,577	1,466	1,627	9,377	9,023	3.9
Defense search and navigation equipment.....	2,805	2,852	2,940	-1.6	-3.0	2.2	3,025	2,762	2,735	2,856	16,477	15,986	3.1
Electromedical, measuring, and control instruments.....	9,211	9,432	9,442	-2.3	-0.1	2.2	10,047	8,970	8,671	10,331	53,970	52,635	2.5
Electrical equipment, appliances, and components.....	11,816	11,697	11,638	1.0	0.5	0.2	12,561	11,923	11,447	12,080	68,880	66,358	3.8
Electric lighting equipment.....	1,064	1,090	1,065	-2.4	2.3	5.9	1,075	1,121	1,061	1,068	6,141	6,237	-1.5
Household appliances.....	1,719	1,732	1,733	-0.8	-0.1	-0.5	1,782	1,796	1,709	1,824	10,127	9,979	1.5
Electrical equipment.....	3,222	3,146	3,118	2.4	0.9	1.4	3,676	3,201	2,960	3,514	18,796	18,608	1.0
Batteries.....	934	890	901	4.9	-1.2	-5.0	887	862	886	906	4,993	5,298	-5.8
Transportation equipment.....	88,689	86,115	85,524	3.0	0.7	-4.4	93,395	88,754	84,313	92,312	530,332	504,582	5.1
Automobiles.....	9,208	8,996	8,739	2.4	2.9	-6.4	9,339	9,447	8,699	9,309	54,770	56,843	-3.6
Light trucks and utility vehicles.....	21,973	20,597	20,487	6.7	0.5	-3.8	22,616	20,659	20,340	20,235	128,050	112,900	13.4
Heavy duty trucks.....	3,081	3,097	3,109	-0.5	-0.4	-1.6	3,217	3,307	3,224	3,005	18,766	15,887	18.1
Motor vehicle bodies, parts, and trailers.....	28,376	28,076	27,971	1.1	0.4	-2.1	28,789	29,832	29,252	28,337	172,444	163,396	5.5
Nondefense aircraft and parts.....	11,138	10,511	10,558	6.0	-0.4	-19.3	13,320	10,293	9,131	16,825	69,621	77,333	-10.0
Defense aircraft and parts.....	4,585	4,700	4,785	-2.4	-1.8	6.0	5,168	4,636	4,014	5,022	27,027	25,616	5.5
Ships and boats.....	3,046	2,990	2,896	1.9	3.2	-0.7	3,278	3,043	2,904	3,122	17,535	16,910	3.7
Furniture and related products.....	6,866	6,830	6,777	0.5	0.8	0.1	6,955	6,890	6,737	6,612	40,036	38,531	3.9
Miscellaneous durable goods.....	13,807	13,716	13,616	0.7	0.7	0.1	14,408	13,789	13,499	14,633	81,152	82,234	-1.3
Nondurable goods industries.....	248,429	249,770	250,557	-0.5	-0.3	0.4	252,452	260,572	253,413	256,085	1,480,548	1,473,203	0.5
Food products.....	67,303	67,274	67,534	0.0	-0.4	0.7	66,829	67,452	66,551	67,095	398,049	399,555	-0.4
Grain and oilseed milling.....	7,587	7,553	7,546	0.5	0.1	0.2	7,188	7,298	7,372	7,531	44,162	46,702	-5.4
Dairy products.....	9,402	9,369	9,422	0.4	-0.6	1.9	9,224	9,620	9,287	9,330	55,283	56,373	-1.9
Meat, poultry, and seafood products.....	19,055	19,227	19,373	-0.9	-0.8	-0.7	19,998	19,923	19,522	20,419	115,950	116,294	-0.3
Beverage and tobacco products.....	12,592	12,708	12,413	-0.9	2.4	4.0	13,162	13,532	12,557	13,260	74,093	74,026	0.1
Beverages.....	8,607	8,623	8,733	-0.2	-1.3	1.0	9,177	9,447	8,877	9,400	51,462	51,551	-0.2
Tobacco.....	3,985	4,085	3,680	-2.4	11.0	11.9	3,985	4,085	3,680	3,860	22,631	22,475	0.7
Textile mills.....	2,491	2,466	2,457	1.0	0.4	-1.4	2,637	2,572	2,511	2,670	15,004	15,083	-0.5
Textile products.....	2,259	2,263	2,255	-0.2	0.4	-1.7	2,412	2,369	2,309	2,452	13,802	13,517	2.1
Apparel.....	994	973	951	2.2	2.3	-0.3	934	925	837	924	5,361	5,332	0.5
Leather and allied products.....	413	407	414	1.5	-1.7	-1.2	439	407	433	445	2,556	2,500	2.2
Paper products.....	16,246	16,197	16,141	0.3	0.3	0.3	16,334	16,581	15,836	16,291	96,045	95,443	0.6
Pulp, paper, and paperboard mills.....	6,461	6,469	6,463	-0.1	0.1	0.0	6,433	6,533	6,344	6,530	38,263	38,860	-1.5
Paperboard containers.....	5,753	5,724	5,665	0.5	1.0	0.5	5,804	5,873	5,641	5,689	33,977	33,209	2.3
Printing.....	6,800	6,728	6,635	1.1	1.4	-0.6	6,611	6,976	6,739	6,525	39,533	38,654	2.3
Petroleum and coal products.....	52,133	54,339	55,995	-4.1	-3.0	1.6	53,708	59,388	57,350	57,596	314,895	318,294	-1.1
Petroleum refineries.....	47,762	49,976	51,656	-4.4	-3.3	1.7	48,792	54,708	53,028	53,061	290,343	295,832	-1.9
Chemical products.....	67,324	66,672	66,079	1.0	0.9	-0.7	68,704	69,477	67,982	67,765	401,746	391,413	2.6
Pesticides, fertilizers, and other agricultural chemicals.....	2,645	2,647	2,656	-0.1	-0.3	-1.5	2,806	3,313	3,434	3,222	18,092	17,535	3.2
Pharmaceuticals and medicines.....	23,089	22,685	22,449	1.8	1.1	-1.4	23,173	23,100	22,526	21,518	134,159	124,712	7.6
Paints, coatings, and adhesives.....	3,897	3,866	3,873	0.8	-0.2	1.7	4,110	4,454	4,321	4,117	23,906	23,463	1.9
Plastics and rubber products.....	19,874	19,743	19,683	0.7	0.3	-0.9	20,682	20,893	20,308	21,062	119,462	119,386	0.1

<sup>a</sup> Preliminary

<sup>b</sup> Revised data due to late receipts and concurrent seasonal adjustment.

<sup>1</sup> 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.

<sup>2</sup> 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/>.

Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, June Full Report, August 2, 2019. 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 2. Value of Manufacturers' New Orders for Industry Groups<sup>1</sup>**

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

Industry	Seasonally Adjusted						Not Seasonally Adjusted						
	Monthly			Percent Change			Monthly				Year to date		
	June 2019 <sup>p</sup>	May 2019 <sup>f</sup>	Apr. 2019	May - June	Apr. - May	Mar. - Apr.	June 2019 <sup>p</sup>	May 2019 <sup>f</sup>	Apr. 2019	June 2018	2019 <sup>p</sup>	2018	% Change 2019/2018
All manufacturing industries <sup>2</sup> .....	493,817	490,693	497,166	0.6	-1.3	-1.2	511,619	505,259	498,781	528,244	2,975,202	2,969,181	0.2
Excluding transportation <sup>2</sup> .....	413,437	413,163	413,305	0.1	0.0	0.2	424,579	428,452	419,086	429,703	2,467,632	2,450,100	0.7
Excluding defense <sup>2</sup> .....	481,549	476,266	479,916	1.1	-0.8	-1.4	495,683	492,263	484,656	508,238	2,888,123	2,885,939	0.1
With unfilled orders <sup>2</sup> .....	169,726	167,262	173,554	1.5	-3.6	-3.2	180,505	168,369	170,847	196,096	1,048,492	1,068,591	-1.9
Durable goods industries <sup>2</sup> .....	245,388	240,923	246,609	1.9	-2.3	-2.8	259,167	244,687	245,368	272,159	1,494,654	1,495,978	-0.1
Primary metals.....	20,533	20,369	20,491	0.8	-0.6	-2.5	20,962	20,938	21,531	22,737	128,388	131,351	-2.3
Iron and steel mills.....	10,227	10,318	10,328	-0.9	-0.1	-4.4	10,560	10,555	11,026	11,492	65,445	65,981	-0.8
Aluminum and nonferrous metals.....	8,832	8,590	8,616	2.8	-0.3	-0.8	8,873	8,838	8,901	9,738	53,655	56,854	-5.6
Ferrous metal foundries.....	1,474	1,461	1,547	0.9	-5.6	0.6	1,529	1,545	1,604	1,507	9,288	8,516	9.1
Fabricated metal products.....	34,164	33,577	33,428	1.7	0.4	0.8	34,634	35,618	34,917	34,468	205,603	202,253	1.7
Machinery.....	33,232	32,560	32,534	2.1	0.1	0.0	34,422	33,545	33,778	34,917	200,847	199,837	0.5
Construction machinery.....	2,843	2,692	2,653	5.6	1.5	-9.4	2,634	2,691	2,809	2,897	17,406	18,035	-3.5
Mining, oil field, and gas field machinery.....	1,413	1,453	1,454	-2.8	-0.1	16.7	1,377	1,405	1,339	1,272	8,148	8,753	-6.9
Industrial machinery.....	2,588	2,609	2,678	-0.8	-2.6	7.1	2,933	2,396	2,636	3,017	15,548	15,430	0.8
Photographic equipment.....	629	543	546	15.8	-0.5	0.9	655	453	473	533	2,972	2,808	5.8
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,120	4,119	4,156	0.0	-0.9	-1.7	4,842	4,694	4,272	4,945	25,888	23,966	8.0
Metalworking machinery.....	2,522	2,583	2,544	-2.4	1.5	2.8	2,483	2,573	2,532	2,660	14,981	16,696	-10.3
Turbines, generators, and other power transmission equipment.....	4,433	4,260	4,411	4.1	-3.4	0.1	4,501	4,428	4,505	4,190	26,350	24,555	7.3
Material handling equipment.....	3,178	2,839	2,794	11.9	1.6	3.7	3,390	2,917	2,676	3,202	17,288	17,158	0.8
Computers and electronic products <sup>2</sup> .....	24,000	24,053	23,936	-0.2	0.5	-0.5	26,466	22,659	22,096	25,875	139,687	134,277	4.0
Computers.....	567	606	656	-6.4	-7.6	-1.9	707	591	563	957	3,601	4,512	-20.2
Nondefense communications equipment.....	3,611	3,512	3,405	2.8	3.1	-5.4	4,212	3,162	3,122	4,053	20,409	19,438	5.0
Defense communications equipment.....	251	191	226	31.4	-15.5	-29.4	243	197	194	305	1,501	1,631	-8.0
Electronic components.....	3,634	3,584	3,538	1.4	1.3	-0.9	3,831	3,612	3,489	3,729	21,292	21,447	-0.7
Nondefense search and navigation equipment.....	1,619	1,737	1,584	-6.8	9.7	-3.8	1,737	1,614	1,647	1,701	9,978	9,532	4.7
Defense search and navigation equipment.....	3,125	3,080	3,150	1.5	-2.2	-5.0	3,480	2,718	2,956	3,095	18,042	15,981	12.9
Electromedical, measuring, and control instruments.....	9,237	9,385	9,441	-1.6	-0.6	3.2	10,031	9,014	8,502	10,323	54,290	53,446	1.6
Electrical equipment, appliances, and components.....	11,900	11,881	11,729	0.2	1.3	0.6	12,540	12,150	11,639	12,164	69,994	67,302	4.0
Electric lighting equipment.....	1,122	1,191	1,050	-5.8	13.4	3.8	1,199	1,217	1,047	1,155	6,416	6,344	1.1
Household appliances.....	1,748	1,782	1,738	-1.9	2.5	1.6	1,786	1,883	1,774	1,817	10,158	10,236	-0.8
Electrical equipment.....	3,231	3,126	3,113	3.4	0.4	-1.6	3,551	3,163	3,012	3,421	19,118	18,541	3.1
Transportation equipment.....	80,380	77,530	83,861	3.7	-7.5	-7.6	87,040	76,807	79,695	98,541	507,570	519,081	-2.2
Motor vehicle bodies, parts, and trailers.....	28,253	27,975	27,809	1.0	0.6	-1.9	27,959	29,784	28,507	27,655	171,957	163,303	5.3
Nondefense aircraft and parts.....	6,245	3,567	7,438	75.1	-52.0	-39.3	8,656	795	5,260	18,025	50,010	86,265	-42.0
Defense aircraft and parts.....	2,870	4,240	5,360	-32.3	-20.9	-4.1	5,369	2,745	4,945	8,694	26,909	26,591	1.2
Ships and boats.....	1,524	2,647	2,849	-42.4	-7.1	-41.9	2,149	2,888	2,257	4,005	18,703	20,095	-6.9
Furniture and related products.....	6,827	6,883	6,689	-0.8	2.9	0.1	6,878	7,131	7,007	6,717	41,049	39,774	3.2
Nondurable goods industries.....	248,429	249,770	250,557	-0.5	-0.3	0.4	252,452	260,572	253,413	256,085	1,480,548	1,473,203	0.5

<sup>p</sup> Preliminary

<sup>f</sup> Revised data due to late receipts and concurrent seasonal adjustment.

<sup>1</sup> 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.

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

Note: Estimates of manufacturers' shipments, inventories and orders are subject to survey error and revision. One major component of survey error is nonsampling error, which includes errors of coverage, response, and nonreporting.

Since the survey panel is not a probability sample, estimates of sampling error cannot be calculated. For further details on survey design, methodology, and data limitations see <<http://www.census.gov/manufacturing/m3/>>.

Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, June Full Report, August 2, 2019. 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](http://www.census.gov/manufacturing/m3/how_the_data_are_collected/index.html)>.

**Table 3. Value of Manufacturers' Unfilled Orders for Industry Groups<sup>1</sup>**

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

Industry	Seasonally Adjusted						Not Seasonally Adjusted				% Change June 2019/ 2018
	Monthly			Percent Change			Monthly				
	June 2019 <sup>p</sup>	May 2019 <sup>f</sup>	Apr. 2019	May - June	Apr. - May	Mar. - Apr.	June 2019 <sup>p</sup>	May 2019 <sup>f</sup>	Apr. 2019	June 2018	
All manufacturing industries <sup>2</sup> .....	1,160,241	1,168,212	1,177,382	-0.7	-0.8	-0.2	1,164,683	1,172,756	1,186,178	1,170,456	-0.5
Excluding transportation <sup>2</sup> .....	367,735	367,397	367,982	0.1	-0.2	-0.2	370,868	372,586	374,061	366,118	1.3
Excluding defense <sup>2</sup> .....	961,780	967,057	975,581	-0.5	-0.9	-0.5	964,255	972,193	983,826	984,819	-2.1
Durable goods industries <sup>2</sup> .....	1,160,241	1,168,212	1,177,382	-0.7	-0.8	-0.2	1,164,683	1,172,756	1,186,178	1,170,456	-0.5
Primary metals.....	31,198	31,207	31,382	0.0	-0.6	-0.9	31,635	31,742	32,522	31,243	1.3
Iron and steel mills.....	15,949	15,939	16,162	0.1	-1.4	-2.2	16,402	16,336	17,003	17,060	-3.9
Aluminum and nonferrous metals.....	11,782	11,795	11,691	-0.1	0.9	0.7	11,788	11,899	11,935	10,947	7.7
Ferrous metal foundries.....	3,467	3,473	3,529	-0.2	-1.6	-0.1	3,445	3,507	3,584	3,236	6.5
Fabricated metal products.....	86,063	85,779	85,862	0.3	-0.1	0.0	87,357	87,781	87,406	85,114	2.6
Machinery.....	103,102	103,379	104,103	-0.3	-0.7	-0.5	103,099	104,207	105,498	104,414	-1.3
Construction machinery.....	5,245	5,575	5,991	-5.9	-6.9	-5.7	5,095	5,731	6,394	6,131	-16.9
Mining, oil field, and gas field machinery.....	3,760	3,909	4,051	-3.8	-3.5	-1.7	3,760	3,909	4,051	4,259	-11.7
Industrial machinery.....	7,905	8,119	8,255	-2.6	-1.6	-0.3	7,920	8,203	8,438	8,648	-8.4
Photographic equipment.....	1,420	1,323	1,320	7.3	0.2	-1.3	1,315	1,258	1,317	1,473	-10.7
Ventilation, heating, air-conditioning, and refrigeration equipment.....	8,037	8,091	8,138	-0.7	-0.6	0.4	8,089	8,391	8,446	6,877	17.6
Metalworking machinery.....	6,816	6,893	6,936	-1.1	-0.6	-2.4	6,849	7,021	7,077	8,087	-15.3
Turbines, generators, and other power transmission equipment.....	28,614	28,586	28,693	0.1	-0.4	0.1	28,614	28,586	28,693	29,433	-2.8
Material handling equipment.....	13,083	12,766	12,750	2.5	0.1	-0.6	13,289	12,733	12,756	12,566	5.8
Computers and electronic products <sup>2</sup> .....	118,481	118,202	118,047	0.2	0.1	0.0	119,059	119,056	119,308	115,610	3.0
Computers.....	2,147	2,181	2,215	-1.6	-1.5	-0.6	2,147	2,181	2,215	2,018	6.4
Nondefense communications equipment.....	24,584	24,565	24,605	0.1	-0.2	-0.6	24,636	24,807	24,939	24,681	-0.2
Defense communications equipment.....	1,115	1,181	1,272	-5.6	-7.2	-2.7	1,129	1,187	1,261	1,475	-23.5
Electronic components.....	12,808	12,850	12,858	-0.3	-0.1	-0.2	12,702	12,952	13,001	12,410	2.4
Nondefense search and navigation equipment.....	20,425	20,369	20,222	0.3	0.7	-0.1	20,462	20,385	20,348	19,582	4.5
Defense search and navigation equipment.....	29,349	29,029	28,801	1.1	0.8	0.7	29,631	29,176	29,220	27,200	8.9
Electromedical, measuring, and control instruments.....	28,053	28,027	28,074	0.1	-0.2	0.0	28,352	28,368	28,324	28,244	0.4
Electrical equipment, appliances, and components.....	19,768	19,684	19,500	0.4	0.9	0.5	20,069	20,090	19,863	19,976	0.5
Electric lighting equipment.....	1,559	1,501	1,400	3.9	7.2	-1.1	1,626	1,502	1,406	1,452	12.0
Household appliances.....	1,218	1,189	1,139	2.4	4.4	0.4	1,246	1,242	1,155	1,441	-13.5
Electrical equipment.....	7,984	7,975	7,995	0.1	-0.3	-0.1	7,976	8,101	8,139	7,768	2.7
Transportation equipment.....	792,506	800,815	809,400	-1.0	-1.1	-0.2	793,815	800,170	812,117	804,338	-1.3
Motor vehicle bodies, parts, and trailers.....	26,922	27,045	27,146	-0.5	-0.4	-0.6	26,705	27,535	27,583	26,414	1.1
Nondefense aircraft and parts.....	578,779	583,672	590,616	-0.8	-1.2	-0.5	578,577	583,241	592,739	602,042	-3.9
Defense aircraft and parts.....	81,077	82,792	83,252	-2.1	-0.6	0.7	82,071	81,870	83,761	73,469	11.7
Ships and boats.....	29,629	31,151	31,494	-4.9	-1.1	-0.1	30,672	31,801	31,956	30,239	1.4
Furniture and related products.....	8,556	8,595	8,542	-0.5	0.6	-1.0	9,082	9,159	8,918	9,122	-0.4

<sup>p</sup> Preliminary

<sup>f</sup> Revised data due to late receipts and concurrent seasonal adjustment.

<sup>1</sup> 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.

<sup>2</sup> Data on unfilled orders are not available for the semiconductor industry. Estimates and percent changes for unfilled orders exclude semiconductor industry data.

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

Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, June Full Report, August 2, 2019. 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](http://www.census.gov/manufacturing/m3/how_the_data_are_collected/index.html)>.



**Table 4. Value of Manufacturers' Inventories for Industry Groups<sup>1</sup>**

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

Industry	Seasonally Adjusted						Not Seasonally Adjusted				
	Monthly			Percent Change			Monthly				% Change
	June 2019 <sup>P</sup>	May 2019 <sup>F</sup>	Apr. 2019	May - June	Apr. - May	Mar. - Apr.	June 2019 <sup>P</sup>	May 2019 <sup>F</sup>	Apr. 2019	June 2018	
All manufacturing industries.....	695,585	694,247	692,729	0.2	0.2	0.2	692,267	698,116	697,010	665,586	4.0
Excluding transportation.....	555,881	555,749	556,408	0.0	-0.1	0.0	553,819	558,687	559,821	540,620	2.4
Excluding defense.....	667,425	666,395	664,978	0.2	0.2	0.2	664,043	670,109	669,149	638,283	4.0
With unfilled orders.....	347,467	346,243	344,679	0.4	0.5	0.5	345,941	348,666	346,651	325,683	6.2
Durable goods industries.....	425,981	424,560	422,595	0.3	0.5	0.4	423,776	427,216	424,922	400,579	5.8
Wood products.....	12,240	12,242	12,252	0.0	-0.1	-0.2	11,967	12,062	12,183	11,965	0.0
Nonmetallic mineral products.....	14,934	14,964	14,968	-0.2	0.0	0.0	15,113	15,215	15,228	14,546	3.9
Primary metals.....	35,924	36,178	36,422	-0.7	-0.7	0.1	35,821	36,081	36,395	35,115	2.0
Iron and steel mills.....	20,167	20,261	20,471	-0.5	-1.0	-0.4	20,034	19,964	20,278	19,737	1.5
Aluminum and nonferrous metals.....	13,565	13,723	13,814	-1.2	-0.7	0.6	13,624	13,904	13,952	13,398	1.7
Ferrous metal foundries.....	2,192	2,194	2,137	-0.1	2.7	0.3	2,163	2,213	2,165	1,980	9.2
Fabricated metal products.....	54,729	54,575	54,638	0.3	-0.1	-0.5	54,689	54,778	54,908	53,053	3.1
Machinery.....	72,077	71,862	71,757	0.3	0.1	0.2	71,469	72,365	72,204	67,755	5.5
Farm machinery.....	4,034	3,839	3,831	5.1	0.2	-2.8	4,030	3,851	3,867	3,606	11.8
Construction machinery.....	5,767	5,763	5,814	0.1	-0.9	-0.3	5,734	5,764	5,929	5,475	4.7
Mining, oil field, and gas field machinery.....	5,453	5,484	5,508	-0.6	-0.4	-0.9	5,435	5,512	5,590	5,451	-0.3
Industrial machinery.....	8,431	8,392	8,415	0.5	-0.3	0.3	8,393	8,338	8,256	8,334	0.7
Photographic equipment.....	1,770	1,777	1,803	-0.4	-1.4	1.3	1,735	1,780	1,772	1,674	3.6
Ventilation, heating, air-conditioning, and refrigeration equipment.....	5,539	5,535	5,572	0.1	-0.7	0.7	5,550	5,934	5,937	4,936	12.4
Metalworking machinery.....	6,098	6,124	6,121	-0.4	0.0	0.2	6,045	6,128	6,115	5,868	3.0
Turbines, generators, and other power transmission equipment.....	9,668	9,762	9,798	-1.0	-0.4	0.6	9,498	9,917	9,832	9,437	0.6
Material handling equipment.....	6,124	6,110	6,036	0.2	1.2	1.3	6,099	6,120	5,999	5,651	7.9
Computers and electronic products <sup>2</sup> .....	43,504	43,408	43,480	0.2	-0.2	0.2	43,378	44,064	43,844	43,189	0.4
Computers.....	1,578	1,528	1,509	3.3	1.3	-3.9	1,618	1,536	1,454	1,546	4.7
Computer storage devices.....	1,101	1,102	1,107	-0.1	-0.5	-2.5	1,109	1,124	1,072	1,048	5.8
Other peripheral equipment.....	1,130	1,129	1,125	0.1	0.4	-3.4	1,089	1,166	1,148	1,125	-3.2
Nondefense communications equipment.....	4,839	4,823	4,858	0.3	-0.7	0.4	4,814	4,939	4,889	4,687	2.7
Defense communications equipment.....	721	716	701	0.7	2.1	-0.3	721	716	701	693	4.0
Audio and video equipment.....	668	660	653	1.2	1.1	-1.5	638	619	623	542	17.7
Electronic components.....	7,382	7,398	7,399	-0.2	0.0	2.2	7,380	7,444	7,687	7,247	1.8
Nondefense search and navigation equipment.....	2,680	2,670	2,668	0.4	0.1	0.5	2,667	2,678	2,685	2,555	4.4
Defense search and navigation equipment.....	2,554	2,549	2,559	0.2	-0.4	0.0	2,565	2,636	2,603	2,649	-3.2
Electromedical, measuring and control instruments.....	15,609	15,569	15,598	0.3	-0.2	0.2	15,521	15,882	15,669	15,222	2.0
Electrical equipment, appliances, and components.....	20,332	20,283	20,294	0.2	-0.1	0.0	20,424	20,576	20,580	18,852	8.3
Electric lighting equipment.....	2,250	2,248	2,271	0.1	-1.0	-0.4	2,263	2,275	2,292	2,256	0.3
Household appliances.....	2,946	2,926	2,909	0.7	0.6	0.6	2,950	2,996	2,980	2,799	5.4
Electrical equipment.....	5,758	5,718	5,721	0.7	-0.1	-0.1	5,688	5,804	5,840	5,155	10.3
Batteries.....	1,978	1,990	1,999	-0.6	-0.5	-0.8	2,063	2,048	2,032	1,919	7.5
Transportation equipment.....	139,704	138,498	136,321	0.9	1.6	1.3	138,448	139,429	137,189	124,966	10.8
Automobiles.....	4,774	4,691	4,328	1.8	8.4	2.2	4,664	4,544	4,376	3,877	20.3
Light trucks and utility vehicles.....	4,890	4,937	4,937	-1.0	0.0	2.0	4,569	4,968	4,932	4,244	7.7
Heavy duty trucks.....	2,154	2,171	2,182	-0.8	-0.5	-1.3	2,219	2,274	2,217	2,224	-0.2
Motor vehicle bodies, parts, and trailers.....	26,609	26,532	26,606	0.3	-0.3	0.5	26,190	26,452	26,602	25,113	4.3
Nondefense aircraft and parts.....	72,034	71,153	69,398	1.2	2.5	1.7	71,650	72,132	70,172	61,898	15.8
Defense aircraft and parts.....	13,342	13,269	13,376	0.6	-0.8	1.3	13,296	13,356	13,421	12,843	3.5
Ships and boats.....	3,311	3,353	3,241	-1.3	3.5	-2.9	3,389	3,330	3,239	3,037	11.6
Furniture and related products.....	7,990	8,042	8,060	-0.6	-0.2	0.2	8,187	8,133	7,991	8,092	1.2
Miscellaneous durable goods.....	24,547	24,508	24,403	0.2	0.4	0.6	24,280	24,513	24,400	23,046	5.4
Nondurable goods industries.....	269,604	269,687	270,134	0.0	-0.2	-0.1	268,491	270,900	272,088	265,007	1.3
Food products.....	54,365	54,058	54,073	0.6	0.0	-0.3	53,133	52,852	53,099	53,053	0.2
Grain and oilseed milling.....	5,115	5,129	5,169	-0.3	-0.8	-1.1	5,048	4,913	5,096	5,232	-3.5
Dairy products.....	7,812	7,745	7,693	0.9	0.7	-0.5	8,064	7,993	7,877	7,836	2.9
Meat, poultry, and seafood products.....	9,398	9,271	9,318	1.4	-0.5	0.6	9,329	9,294	9,249	9,110	2.4
Beverage and tobacco products.....	25,242	25,072	24,976	0.7	0.4	0.2	24,663	25,044	25,266	23,861	3.4
Beverages.....	20,708	20,541	20,428	0.8	0.6	0.4	20,346	20,602	20,703	19,448	4.6
Tobacco.....	4,534	4,531	4,548	0.1	-0.4	-0.6	4,317	4,442	4,563	4,413	-2.2
Textile mills.....	3,329	3,341	3,369	-0.4	-0.8	-1.6	3,337	3,360	3,389	3,228	3.4
Textile products.....	3,541	3,546	3,550	-0.1	-0.1	-0.3	3,524	3,547	3,557	3,414	3.2
Apparel.....	1,991	1,984	1,970	0.4	0.7	0.9	1,987	1,933	1,934	1,896	4.8
Leather and allied products.....	772	774	771	-0.3	0.4	-1.5	779	784	765	797	-2.3
Paper products.....	16,419	16,447	16,398	-0.2	0.3	0.0	16,344	16,385	16,388	15,871	3.0
Pulp, paper, and paperboard mills.....	6,843	6,873	6,839	-0.4	0.5	0.1	6,815	6,890	6,892	6,485	5.1
Paperboard containers.....	5,122	5,115	5,078	0.1	0.7	0.3	5,077	5,082	5,016	4,958	2.4
Printing.....	5,525	5,554	5,605	-0.5	-0.9	0.1	5,472	5,513	5,636	5,406	1.2
Petroleum and coal products.....	40,040	41,011	41,933	-2.4	-2.2	0.6	40,646	42,341	43,355	41,680	-2.5
Petroleum refineries.....	34,302	35,254	36,232	-2.7	-2.7	1.4	34,891	36,530	37,670	36,116	-3.4
Chemical products.....	91,132	90,707	90,282	0.5	0.5	-0.3	91,374	91,710	91,096	89,370	2.2
Pesticides, fertilizers, and other agricultural chemicals.....	5,064	5,019	4,951	0.9	1.4	0.5	4,748	4,957	5,153	4,281	10.9
Pharmaceuticals and medicines.....	37,236	37,078	36,639	0.4	1.2	-0.7	37,879	37,734	36,884	37,042	2.3
Paints, coatings, and adhesives.....	3,861	3,865	3,899	-0.1	-1.2	-1.2	3,910	3,947	4,028	3,954	-1.1
Plastics and rubber products.....	27,248	27,193	27,207	0.2	-0.1	-0.1	27,232	27,431	27,603	26,431	3.0

<sup>P</sup> Preliminary

<sup>F</sup> Revised data due to late receipts and concurrent seasonal adjustment.

<sup>1</sup> 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.

<sup>2</sup> 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/>>.

Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, June Full Report, August 2, 2019. 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](http://www.census.gov/manufacturing/m3/how_the_data_are_collected/index.html)>.

**Table 5. Value of Manufacturers' Shipments, New Orders, Unfilled Orders, and Total Inventories for Topical Series<sup>1,2</sup>**

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

Industry	Seasonally Adjusted						Not Seasonally Adjusted						
	Monthly			Percent Change			Monthly			Year to date		% Change <sup>6</sup>	
	June 2019 <sup>9</sup>	May 2019 <sup>7</sup>	Apr. 2019	May - June	Apr. - May	Mar. - Apr.	June 2019 <sup>9</sup>	May 2019 <sup>7</sup>	Apr. 2019	June 2018	2019 <sup>9</sup>		2018
<b>SHIPMENTS</b>													
All manufacturing industries.....	506,153	504,257	503,881	0.4	0.1	-0.6	523,671	522,423	505,758	525,660	3,014,166	2,957,545	1.9
Construction materials and supplies.....	52,533	52,156	51,961	0.7	0.4	0.1	56,206	56,411	53,605	56,072	309,988	303,217	2.2
Information technology.....	25,454	25,685	25,800	-0.9	-0.4	1.7	28,121	24,705	23,901	27,209	148,355	139,679	6.2
Computers and related products.....	1,757	1,789	1,826	-1.8	-2.0	4.3	2,262	1,600	1,523	2,257	10,069	10,083	-0.1
Motor vehicle and parts.....	62,638	60,766	60,306	3.1	0.8	-3.3	63,961	63,245	61,515	60,886	374,030	349,026	7.2
Capital goods.....	90,011	89,065	88,698	1.1	0.4	-2.3	97,444	88,992	85,157	98,632	533,055	520,066	2.5
Nondefense capital goods <sup>3</sup> .....	77,020	76,030	75,745	1.3	0.4	-3.2	83,627	76,120	73,317	86,421	457,736	453,620	0.9
Excluding aircraft.....	70,152	69,915	69,640	0.3	0.4	0.4	74,939	70,153	68,291	73,927	414,572	401,358	3.3
Defense capital goods <sup>4</sup> .....	12,991	13,035	12,953	-0.3	0.6	3.4	13,817	12,872	11,840	12,211	75,319	66,446	13.4
Consumer goods.....	211,803	212,031	212,921	-0.1	-0.4	0.1	214,357	219,663	213,410	215,119	1,257,023	1,240,544	1.3
Consumer durable goods.....	44,956	43,343	42,903	3.7	1.0	-2.8	46,185	44,430	43,026	43,854	265,167	251,636	5.4
Consumer nondurable goods.....	166,847	168,688	170,018	-1.1	-0.8	0.8	168,172	175,233	170,384	171,265	991,856	988,908	0.3
<b>NEW ORDERS</b>													
All manufacturing industries <sup>5</sup> .....	493,817	490,693	497,166	0.6	-1.3	-1.2	511,619	505,259	498,781	528,244	2,975,202	2,969,181	0.2
Construction materials and supplies.....	52,774	52,185	51,738	1.1	0.9	0.3	55,821	56,945	54,399	55,813	313,273	309,774	1.1
Information technology.....	25,860	25,904	25,871	-0.2	0.1	0.1	28,407	24,525	24,000	27,544	150,676	142,521	5.7
Computers and related products.....	1,723	1,755	1,812	-1.8	-3.1	3.4	2,228	1,566	1,509	2,260	10,021	10,223	-2.0
Motor vehicle and parts.....	62,515	60,665	60,144	3.0	0.9	-3.2	63,131	63,197	60,770	60,204	373,543	348,933	7.1
Capital goods.....	82,536	81,668	87,454	1.1	-6.6	-4.8	90,156	78,275	82,352	102,194	516,368	536,450	-3.7
Nondefense capital goods <sup>3</sup> .....	71,787	68,774	72,419	4.4	-5.0	-7.0	77,467	66,132	70,607	86,576	440,835	466,381	-5.5
Excluding aircraft.....	69,806	68,794	68,629	1.5	0.2	-1.1	73,658	68,649	68,091	73,588	415,203	407,850	1.8
Defense capital goods <sup>4</sup> .....	10,749	12,894	15,035	-16.6	-14.2	6.9	12,689	12,143	11,745	15,618	75,533	70,069	7.8
Consumer goods.....	211,862	212,170	212,927	-0.1	-0.4	0.1	214,217	219,706	213,479	214,956	1,257,079	1,240,734	1.3
Consumer durable goods.....	45,015	43,482	42,909	3.5	1.3	-2.6	46,045	44,473	43,095	43,691	265,223	251,826	5.3
Consumer nondurable goods.....	166,847	168,688	170,018	-1.1	-0.8	0.8	168,172	175,233	170,384	171,265	991,856	988,908	0.3
<b>UNFILLED ORDERS</b>													
All manufacturing industries <sup>5</sup> .....	1,160,241	1,168,212	1,177,382	-0.7	-0.8	-0.2	1,164,683	1,172,756	1,186,178	1,170,456	(X)	(X)	-0.5
Construction materials and supplies.....	59,857	59,616	59,587	0.4	0.0	-0.4	61,090	61,475	60,941	59,128	(X)	(X)	3.3
Information technology.....	116,100	115,694	115,475	0.4	0.2	0.1	116,893	116,607	116,787	113,988	(X)	(X)	2.5
Computers and related products.....	2,147	2,181	2,215	-1.6	-1.5	-0.6	2,147	2,181	2,215	2,018	(X)	(X)	6.4
Motor vehicle and parts.....	26,922	27,045	27,146	-0.5	-0.4	-0.6	26,705	27,535	27,583	26,414	(X)	(X)	1.1
Capital goods.....	848,500	855,975	863,372	-0.9	-0.9	-0.1	850,510	857,798	868,515	865,477	(X)	(X)	-1.7
Nondefense capital goods <sup>3</sup> .....	691,480	696,713	703,969	-0.8	-1.0	-0.5	692,519	698,679	708,667	715,573	(X)	(X)	-3.2
Excluding aircraft.....	218,704	219,050	220,171	-0.2	-0.5	-0.5	219,976	221,257	222,761	220,982	(X)	(X)	-0.5
Defense capital goods <sup>4</sup> .....	157,020	159,262	159,403	-1.4	-0.1	1.3	157,991	159,119	159,848	149,904	(X)	(X)	5.4
Consumer goods.....	4,644	4,585	4,446	1.3	3.1	0.1	4,542	4,682	4,639	5,001	(X)	(X)	-9.2
Consumer durable goods.....	4,644	4,585	4,446	1.3	3.1	0.1	4,542	4,682	4,639	5,001	(X)	(X)	-9.2
<b>TOTAL INVENTORIES</b>													
All manufacturing industries.....	695,585	694,247	692,729	0.2	0.2	0.2	692,267	698,116	697,010	665,586	(X)	(X)	4.0
Construction materials and supplies.....	73,569	73,707	73,919	-0.2	-0.3	-0.5	73,481	74,441	74,734	71,749	(X)	(X)	2.4
Information technology.....	40,285	40,166	40,218	0.3	-0.1	-0.1	40,165	40,767	40,290	38,703	(X)	(X)	3.8
Computers and related products.....	3,809	3,759	3,741	1.3	0.5	-3.3	3,816	3,826	3,674	3,719	(X)	(X)	2.6
Motor vehicle and parts.....	38,427	38,331	38,053	0.3	0.7	0.8	37,642	38,238	38,127	35,458	(X)	(X)	6.2
Capital goods.....	212,843	211,489	209,556	0.6	0.9	0.7	212,396	213,747	210,544	196,893	(X)	(X)	7.9
Nondefense capital goods <sup>3</sup> .....	189,049	187,996	186,181	0.6	1.0	0.7	188,492	190,186	187,104	173,904	(X)	(X)	8.4
Excluding aircraft.....	129,514	129,241	129,075	0.2	0.1	0.1	129,000	130,352	129,408	123,231	(X)	(X)	4.7
Defense capital goods <sup>4</sup> .....	23,794	23,493	23,375	1.3	0.5	0.6	23,904	23,561	23,440	22,989	(X)	(X)	4.0
Consumer goods.....	203,752	204,025	204,014	-0.1	0.0	0.2	202,373	204,375	204,868	199,369	(X)	(X)	1.5
Consumer durable goods.....	31,983	31,924	31,501	0.2	1.3	0.9	31,275	31,745	31,476	29,333	(X)	(X)	6.6
Consumer nondurable goods.....	171,769	172,101	172,513	-0.2	-0.2	0.0	171,098	172,630	173,392	170,036	(X)	(X)	0.6

<sup>x</sup> Not Applicable

<sup>9</sup> Preliminary

<sup>7</sup> Revised data due to late receipts and concurrent seasonal adjustment.

<sup>1</sup> 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.

<sup>2</sup> Topical series are regroupings of the separate industry categories.

<sup>3</sup> 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; electromedical, measuring, and control instruments; electrical equipment; other electrical equipment, appliances, and components; heavy duty trucks; aircraft; railroad rolling stock; ships and boats; office and institutional furniture; and medical equipment and supplies.

<sup>4</sup> 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.

<sup>5</sup> Estimates and percent changes exclude semiconductor industry data.

<sup>6</sup> 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/>>.

Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, June Full Report, August 2, 2019. 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](http://www.census.gov/manufacturing/m3/how_the_data_are_collected/index.html)>.

**Table 6. Value of Manufacturers' Inventories, by Stage of Fabrication, by Industry Group<sup>1</sup>**

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

Industry	Seasonally Adjusted						Not Seasonally Adjusted				
	Monthly			Percent Change			Monthly				% Change
	June 2019 <sup>p</sup>	May 2019 <sup>f</sup>	Apr. 2019	May - June	Apr. - May	Mar. - Apr.	June 2019 <sup>p</sup>	May 2019 <sup>f</sup>	Apr. 2019	June 2018	
<b>MATERIALS AND SUPPLIES</b>											
All manufacturing industries.....	238,641	238,157	238,466	0.2	-0.1	0.0	236,852	238,324	238,631	229,287	3.3
Durable goods industries.....	145,797	145,691	146,028	0.1	-0.2	0.0	144,628	145,251	145,543	138,994	4.1
Wood products.....	5,210	5,194	5,173	0.3	0.4	0.0	4,968	4,918	4,913	4,881	1.8
Nonmetallic mineral products.....	6,191	6,235	6,197	-0.7	0.6	0.4	6,222	6,271	6,226	5,955	4.5
Primary metals.....	13,165	13,105	13,255	0.5	-1.1	1.2	12,978	12,771	12,975	12,488	3.9
Fabricated metal products.....	20,532	20,546	20,592	-0.1	-0.2	-0.5	20,472	20,433	20,446	19,953	2.6
Machinery.....	29,156	29,213	29,250	-0.2	-0.1	-0.1	29,033	29,350	29,251	26,820	8.3
Computers and electronic products.....	19,168	19,113	19,065	0.3	0.3	1.1	19,133	19,362	19,201	18,475	3.6
Electrical equipment, appliances, and components.....	8,533	8,519	8,484	0.2	0.4	-0.1	8,534	8,596	8,581	7,880	8.3
Transportation equipment.....	31,944	31,904	32,103	0.1	-0.6	-0.5	31,396	31,672	32,149	30,892	1.6
Furniture and related products.....	3,864	3,912	3,924	-1.2	-0.3	-0.5	3,895	3,897	3,857	3,896	0.0
Miscellaneous products.....	8,034	7,950	7,985	1.1	-0.4	-0.2	7,997	7,981	7,944	7,754	3.1
Nondurable goods industries.....	92,844	92,466	92,438	0.4	0.0	0.0	92,224	93,073	93,088	90,293	2.1
Food products.....	18,203	18,007	17,859	1.1	0.8	-0.8	17,999	17,873	17,692	17,629	2.1
Beverage and tobacco products.....	6,010	5,973	5,968	0.6	0.1	0.2	5,781	5,931	6,010	5,621	2.8
Textiles.....	1,142	1,152	1,161	-0.9	-0.8	-1.8	1,145	1,159	1,166	1,138	0.6
Textile products.....	1,365	1,363	1,363	0.1	0.0	0.1	1,366	1,369	1,361	1,318	3.6
Apparel.....	494	505	508	-2.2	-0.6	1.6	489	497	512	496	-1.4
Leather and allied products.....	276	277	273	-0.4	1.5	-1.4	278	278	270	268	3.7
Paper products.....	8,195	8,193	8,223	0.0	-0.4	-0.3	8,083	8,108	8,182	8,008	0.9
Printing.....	2,805	2,810	2,787	-0.2	0.8	-0.5	2,777	2,796	2,786	2,742	1.3
Petroleum and coal products.....	11,240	11,361	11,519	-1.1	-1.4	1.4	11,372	11,983	12,105	12,011	-5.3
Chemical products.....	31,657	31,420	31,327	0.8	0.3	-0.1	31,575	31,675	31,535	30,033	5.1
Plastics and rubber products.....	11,457	11,405	11,450	0.5	-0.4	0.1	11,359	11,404	11,469	11,029	3.0
<b>WORK IN PROCESS</b>											
All manufacturing industries.....	214,112	214,083	212,962	0.0	0.5	0.5	213,224	215,854	215,171	202,781	5.1
Durable goods industries.....	159,813	159,043	157,266	0.5	1.1	1.0	159,567	161,119	158,879	147,993	7.8
Wood products.....	2,228	2,209	2,296	0.9	0.6	-0.3	2,217	2,226	2,233	2,250	-1.5
Nonmetallic mineral products.....	1,572	1,561	1,578	0.7	-1.1	0.3	1,595	1,599	1,636	1,548	3.0
Primary metals.....	10,341	10,435	10,566	-0.9	-1.2	-0.9	10,431	10,548	10,664	10,775	-3.2
Fabricated metal products.....	14,046	13,941	14,075	0.8	-1.0	-0.8	14,046	14,050	14,124	13,841	1.5
Machinery.....	18,664	18,509	18,560	0.8	-0.3	0.6	18,466	18,675	18,604	18,687	-1.2
Computers and electronic products.....	12,304	12,441	12,516	-1.1	-0.6	0.0	12,415	12,879	12,897	13,034	-4.7
Electrical equipment, appliances, and components.....	4,339	4,320	4,322	0.4	0.0	0.5	4,393	4,411	4,398	4,007	9.6
Transportation equipment.....	91,081	90,369	88,199	0.8	2.5	2.0	90,747	91,440	89,023	78,736	15.3
Furniture and related products.....	1,332	1,333	1,347	-0.1	-1.0	-0.7	1,370	1,365	1,369	1,438	-4.7
Miscellaneous products.....	3,906	3,925	3,907	-0.5	0.5	-0.5	3,887	3,926	3,931	3,677	5.7
Nondurable goods industries.....	54,299	55,040	55,696	-1.3	-1.2	-0.8	53,657	54,735	56,292	54,788	-2.1
Food products.....	5,810	5,946	5,944	-2.3	0.0	-1.7	5,211	5,366	5,659	5,820	-10.5
Beverage and tobacco products.....	9,824	9,735	9,705	0.9	0.3	0.4	9,364	9,579	9,811	8,885	5.4
Textiles.....	721	728	731	-1.0	-0.4	-0.5	722	733	739	699	3.3
Textile products.....	423	426	427	-0.7	-0.2	-0.9	416	423	430	402	3.5
Apparel.....	343	344	340	-0.3	1.2	-3.4	355	343	331	347	2.3
Leather and allied products.....	79	77	76	2.6	1.3	7.0	76	78	77	74	2.7
Paper products.....	1,364	1,370	1,357	-0.4	1.0	0.0	1,380	1,380	1,354	1,289	7.1
Printing.....	1,210	1,214	1,260	-0.3	-3.7	2.3	1,148	1,150	1,269	1,065	7.8
Petroleum and coal products.....	12,071	12,700	12,985	-5.0	-2.2	-1.4	12,351	13,110	13,678	13,431	-8.0
Chemical products.....	19,327	19,352	19,716	-0.1	-1.8	-0.9	19,510	19,403	19,749	19,639	-0.7
Plastics and rubber products.....	3,127	3,148	3,155	-0.7	-0.2	-1.0	3,124	3,170	3,195	3,137	-0.4
<b>FINISHED GOODS</b>											
All manufacturing industries.....	242,832	242,007	241,301	0.3	0.3	0.2	242,191	243,938	243,208	233,518	3.7
Durable goods industries.....	120,371	119,826	119,301	0.5	0.4	0.1	119,581	120,846	120,500	113,592	5.3
Wood products.....	4,802	4,839	4,883	-0.8	-0.9	-0.4	4,782	4,918	5,037	4,834	-1.1
Nonmetallic mineral products.....	7,171	7,168	7,193	0.0	-0.3	-0.4	7,296	7,345	7,366	7,043	3.6
Primary metals.....	12,418	12,638	12,601	-1.7	0.3	-0.3	12,412	12,762	12,756	11,852	4.7
Fabricated metal products.....	20,151	20,088	19,971	0.3	0.6	-0.4	20,171	20,295	20,338	19,259	4.7
Machinery.....	24,257	24,140	23,947	0.5	0.8	0.1	23,970	24,340	24,349	22,248	7.7
Computers and electronic products.....	12,032	11,854	11,899	1.5	-0.4	-1.0	11,830	11,823	11,746	11,680	1.3
Electrical equipment, appliances, and components.....	7,460	7,444	7,488	0.2	-0.6	-0.1	7,497	7,569	7,601	6,965	7.6
Transportation equipment.....	16,679	16,225	16,019	2.8	1.3	1.2	16,305	16,317	16,017	15,338	6.3
Furniture and related products.....	2,794	2,797	2,789	-0.1	0.3	1.8	2,922	2,871	2,765	2,758	5.9
Miscellaneous products.....	12,607	12,633	12,511	-0.2	1.0	1.4	12,396	12,606	12,525	11,615	6.7
Nondurable goods industries.....	122,461	122,181	122,000	0.2	0.1	0.2	122,610	123,092	122,708	119,926	2.2
Food products.....	30,352	30,105	30,270	0.8	-0.5	0.3	29,923	29,613	29,748	29,604	1.1
Beverage and tobacco products.....	9,408	9,364	9,303	0.5	0.7	0.0	9,518	9,534	9,445	9,355	1.7
Textiles.....	1,466	1,461	1,477	0.3	-1.1	-2.0	1,470	1,468	1,484	1,391	5.7
Textile products.....	1,753	1,757	1,760	-0.2	-0.2	-0.6	1,742	1,755	1,766	1,694	2.8
Apparel.....	1,154	1,135	1,122	1.7	1.2	2.0	1,143	1,093	1,091	1,053	8.5
Leather and allied products.....	417	420	422	-0.7	-0.5	-3.0	425	428	418	455	-6.6
Paper products.....	6,860	6,884	6,818	-0.3	1.0	0.5	6,881	6,897	6,852	6,574	4.7
Printing.....	1,510	1,530	1,558	-1.3	-1.8	-0.6	1,547	1,567	1,581	1,599	-3.3
Petroleum and coal products.....	16,729	16,950	17,429	-1.3	-2.7	1.6	16,923	17,248	17,572	16,238	4.2
Chemical products.....	40,148	39,935	39,239	0.5	1.8	-0.2	40,289	40,632	39,812	39,698	1.5
Plastics and rubber products.....	12,664	12,640	12,602	0.2	0.3	-0.1	12,749	12,857	12,939	12,265	3.9

<sup>p</sup> Preliminary

<sup>f</sup> Revised data due to late receipts and concurrent seasonal adjustment.

<sup>1</sup> 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/>>.

Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, June Full Report, August 2, 2019. 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](http://www.census.gov/manufacturing/m3/how_the_data_are_collected/index.html)>.

**Table 7. Ratios of Manufacturers' Inventories to Shipments and Unfilled Orders to Shipments, by Industry Group <sup>1</sup>**

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

Industry	Inventory/Shipments ratio				Unfilled Orders/Shipments ratio <sup>2</sup>			
	Jun 2019 <sup>a</sup>	May 2019 <sup>b</sup>	Apr 2019	Mar 2019	Jun 2019 <sup>a</sup>	May 2019 <sup>b</sup>	Apr 2019	Mar 2019
	All manufacturing industries <sup>3</sup> .....	1.37	1.38	1.37	1.36	(X)	(X)	(X)
Durable goods industries <sup>3</sup> .....	1.65	1.67	1.67	1.64	6.53	6.62	6.69	6.61
Wood products.....	1.34	1.34	1.34	1.35	(X)	(X)	(X)	(X)
Nonmetallic mineral products.....	1.31	1.33	1.34	1.34	(X)	(X)	(X)	(X)
Primary metals.....	1.75	1.76	1.75	1.72	1.52	1.52	1.51	1.50
Fabricated metal products.....	1.62	1.62	1.63	1.63	2.61	2.62	2.64	2.62
Machinery.....	2.15	2.16	2.17	2.17	3.42	3.44	3.48	3.54
Computers and electronic products <sup>4</sup> .....	1.55	1.53	1.54	1.56	5.44	5.39	5.35	5.41
Electrical equipment, appliances, and components.....	1.72	1.73	1.74	1.75	1.82	1.82	1.82	1.82
Transportation equipment.....	1.58	1.61	1.59	1.50	14.56	14.99	15.22	14.56
Furniture and related products.....	1.16	1.18	1.19	1.19	1.39	1.40	1.40	1.41
Miscellaneous products.....	1.78	1.79	1.79	1.78	(X)	(X)	(X)	(X)
Nondurable goods industries.....	1.09	1.08	1.08	1.08	(X)	(X)	(X)	(X)
Food products.....	0.81	0.80	0.80	0.81	(X)	(X)	(X)	(X)
Beverage and tobacco products.....	2.00	1.97	2.01	2.09	(X)	(X)	(X)	(X)
Textiles.....	1.34	1.35	1.37	1.37	(X)	(X)	(X)	(X)
Textile products.....	1.57	1.57	1.57	1.55	(X)	(X)	(X)	(X)
Apparel.....	2.00	2.04	2.07	2.05	(X)	(X)	(X)	(X)
Leather and allied products.....	1.87	1.90	1.86	1.87	(X)	(X)	(X)	(X)
Paper products.....	1.01	1.02	1.02	1.02	(X)	(X)	(X)	(X)
Printing.....	0.81	0.83	0.84	0.84	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.77	0.75	0.75	0.76	(X)	(X)	(X)	(X)
Chemical products.....	1.35	1.36	1.37	1.36	(X)	(X)	(X)	(X)
Plastics and rubber products.....	1.37	1.38	1.38	1.37	(X)	(X)	(X)	(X)

<sup>a</sup> Not Applicable

<sup>b</sup> Preliminary

<sup>c</sup> Revised data due to late receipts and concurrent seasonal adjustment.

<sup>2</sup> 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.

<sup>3</sup> Unfilled orders to shipments ratio excludes semiconductor manufacturing.

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

<<http://www.census.gov/manufacturing/m3/>>

Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, June Full Report, August 2, 2019. 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](http://www.census.gov/manufacturing/m3/how_the_data_are_collected/index.html)>.

**Table 8. Revisions to Previously Published Monthly Percent Changes <sup>1</sup>**

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

Industry	Shipments		New Orders		Unfilled Orders		Inventories	
	Jun <sup>2</sup> 2019	Jun <sup>1</sup> 2018-2019	Jun <sup>2</sup> 2019	Jun <sup>1</sup> 2018-2019	Jun <sup>2</sup> 2019	Jun <sup>1</sup> 2018-2019	Jun <sup>2</sup> 2019	Jun <sup>1</sup> 2018-2019
	All manufacturing industries.....	(X)	0.1	(X)	0.3	(X)	0.1	(X)
Durable goods industries.....	-0.1	0.2	-0.1	0.5	0.0	0.1	0.0	0.1
Wood products.....	(X)	0.4	(X)	(NA)	(X)	(NA)	(X)	0.2
Nonmetallic mineral products.....	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.2
Primary metals.....	-0.4	0.3	0.0	0.7	0.4	0.4	0.2	0.3
Fabricated metal products.....	-0.1	0.3	-0.4	0.7	-0.2	0.2	0.1	0.1
Machinery.....	-0.1	0.4	-0.3	0.7	-0.1	0.1	0.0	0.1
Computers and electronic products.....	-0.4	0.3	-0.6	0.4	-0.1	0.1	-0.1	0.1
Electrical equipment, appliances, and components.....	0.1	0.3	0.1	0.5	0.0	0.2	-0.1	0.3
Transportation equipment.....	-0.1	0.4	-0.1	1.0	0.0	0.1	0.1	0.1
Furniture and related products.....	(X)	0.5	(X)	0.6	(X)	0.7	(X)	0.3
Miscellaneous products.....	(X)	0.2	(X)	0.1	(X)	0.1	(X)	0.1
Nondurable goods industries.....	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.1
Food products.....	(X)	0.1	(X)	(NA)	(X)	(NA)	(X)	0.1
Beverage and tobacco products.....	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.2
Textiles.....	(X)	0.4	(X)	(NA)	(X)	(NA)	(X)	0.2
Textile products.....	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.2
Apparel.....	(X)	0.4	(X)	(NA)	(X)	(NA)	(X)	0.5
Leather and allied products.....	(X)	0.8	(X)	(NA)	(X)	(NA)	(X)	0.4
Paper products.....	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.2
Printing.....	(X)	0.4	(X)	(NA)	(X)	(NA)	(X)	0.3
Petroleum and coal products.....	(X)	0.5	(X)	(NA)	(X)	(NA)	(X)	0.4
Chemical products.....	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.2
Plastics and rubber products.....	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.2

X Not Applicable

NA Not Available

<sup>1</sup> 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.

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

<sup>3</sup> 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 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

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