

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

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**October 3, 2019** — The U.S. Census Bureau announces the August full report on manufacturers' shipments, inventories and orders:

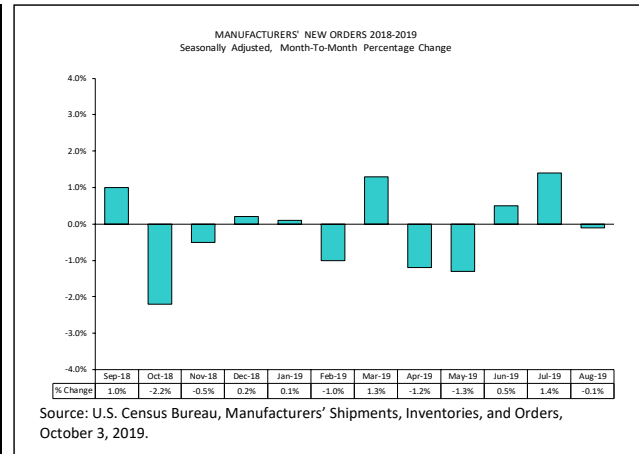


## MANUFACTURED GOODS – NEW ORDERS

<b>AUGUST 2019</b>	<b>\$499.8 billion</b>	<b>-0.1%<sup>o</sup></b>
<b>JULY 2019 (revised)</b>	<b>\$500.2 billion</b>	<b>+1.4%<sup>o</sup></b>

**Next release: November 4, 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, October 3, 2019.



## Summary

New orders for manufactured goods in August, down following two consecutive monthly increases, decreased \$0.4 billion or 0.1 percent to \$499.8 billion, the U.S. Census Bureau reported today. This followed a 1.4 percent July increase. Shipments, down two consecutive months, decreased \$0.7 billion or 0.1 percent to \$503.0 billion. This followed a 0.3 percent July decrease. Unfilled orders, up two consecutive months, increased \$1.1 billion or 0.1 percent to \$1,162.9 billion. This followed a 0.1 percent July increase. The unfilled orders-to-shipments ratio was 6.66, down from 6.67 in July. Inventories, down following eight consecutive monthly increases, decreased \$0.3 billion or virtually unchanged to \$695.9 billion. This followed a 0.1 percent July increase. The inventories-to-shipments ratio was 1.38, unchanged from July.

## New Orders

New orders for manufactured durable goods in August, up three consecutive months, increased \$0.4 billion or 0.2 percent to \$250.7 billion, unchanged from the previously published increase. This followed a 2.1 percent July increase. Fabricated metal products, up four of the last five months, drove the increase, \$0.4 billion or 1.2 percent to \$34.3 billion. New orders for manufactured nondurable goods decreased \$0.8 billion or 0.3 percent to \$249.0 billion.

### Data Inquiries

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## Shipments

Shipments of manufactured durable goods in August, up three of the last four months, increased \$0.1 billion or 0.1 percent to \$253.9 billion, unchanged from the previously published increase. This followed a 1.2 percent July decrease. Machinery, up four of the last five months, drove the increase, \$0.5 billion or 1.6 percent to \$33.4 billion. Shipments of manufactured nondurable goods, down three of the last four months, decreased \$0.8 billion or 0.3 percent to \$249.0 billion. This followed a 0.7 percent July increase. Petroleum and coal products, also down three of the last four months, drove the decrease, \$1.9 billion or 3.6 percent to \$51.0 billion.

## Unfilled Orders

Unfilled orders for manufactured durable goods in August, up two consecutive months, increased \$1.1 billion or 0.1 percent to \$1,162.9 billion, unchanged from the previously published increase. This followed a 0.1 percent July increase. Fabricated metal products, up three consecutive months, led the increase, \$0.6 billion or 0.7 percent to \$87.2 billion.

## Inventories

Inventories of manufactured durable goods in August, up thirteen of the last fourteen months, increased \$1.1 billion or 0.2 percent to \$428.3 billion, down from the previously published 0.3 percent increase. This followed a 0.4 percent July increase. Transportation equipment, also up thirteen of the last fourteen months, drove the increase, \$1.7 billion or 1.2 percent to \$143.2 billion. Inventories of manufactured nondurable goods, down five consecutive months, decreased \$1.4 billion or 0.5 percent to \$267.6 billion. This followed a 0.2 percent July decrease. Petroleum and coal products, down four consecutive months, led the decrease, \$0.9 billion or 2.3 percent to \$39.1 billion. By stage of fabrication, August materials and supplies decreased 0.2 percent in durable goods and increased 0.2 percent in nondurable goods. Work in process increased 0.6 percent in durable goods and decreased 1.6 percent in nondurable goods. Finished goods increased 0.3 percent in durable goods and decreased 0.6 percent in nondurable goods.

The Advance Report on durable goods for September is scheduled for release on October 24, 2019 at 8:30 a.m. EDT and the Full Report on November 4, 2019 at 10:00 a.m. EST. 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)>.

## EXPLANATORY NOTES

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

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“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 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).

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## 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.

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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			
	Aug. 2019 <sup>a</sup>	July 2019 <sup>a</sup>	June 2019	July - Aug.	June - July	May - June	Aug. 2019 <sup>a</sup>	July 2019 <sup>a</sup>	June 2019	Aug. 2018	2019 <sup>b</sup>	2018	% Change 2019/2018
All manufacturing industries.....	502,957	503,617	504,952	-0.1	-0.3	0.1	520,843	490,073	522,474	529,157	4,023,885	3,969,570	1.4
Excluding transportation.....	417,057	417,110	416,731	0.0	0.1	-0.3	431,329	416,187	429,661	436,438	3,330,735	3,301,441	0.9
Excluding defense.....	488,253	488,969	490,080	-0.1	-0.2	0.2	506,343	477,313	506,503	515,436	3,909,759	3,866,165	1.1
With unfilled orders.....	174,532	174,193	177,144	0.2	-1.7	0.4	180,076	164,291	188,182	184,753	1,407,414	1,380,749	1.9
Durable goods industries.....	253,932	253,792	256,832	0.1	-1.2	0.9	263,275	237,716	270,356	267,539	2,033,746	1,984,048	2.5
Wood products.....	9,236	9,088	9,130	1.6	-0.5	0.1	9,847	9,416	9,838	10,192	73,908	76,239	-3.1
Nonmetallic mineral products.....	11,444	11,403	11,375	0.4	0.2	1.3	12,706	12,161	11,955	12,503	90,534	87,464	3.5
Primary metals.....	20,194	20,164	20,417	0.1	-1.2	-0.6	21,145	19,714	20,963	23,152	168,609	172,075	-2.0
Iron and steel mills.....	10,066	10,108	10,178	-0.4	-0.7	-3.4	10,607	9,993	10,459	11,803	85,877	85,664	0.2
Aluminum and nonferrous metals.....	8,668	8,565	8,769	1.2	-2.3	3.3	9,011	8,280	8,924	9,846	70,494	75,165	-6.2
Ferrous metal foundries.....	1,460	1,491	1,470	-2.1	1.4	-3.1	1,527	1,441	1,580	1,503	12,238	11,246	8.8
Fabricated metal products.....	33,741	33,441	33,825	0.9	-1.1	0.5	35,722	33,084	35,048	35,501	270,606	262,137	3.2
Machinery.....	33,445	32,921	33,446	1.6	-1.6	0.5	33,648	31,608	35,538	33,401	266,812	261,380	2.1
Farm machinery.....	2,547	2,467	2,630	3.2	-6.2	3.4	2,331	2,357	2,610	2,218	22,017	21,418	2.8
Construction machinery.....	3,159	2,926	3,150	8.0	-7.1	1.4	3,107	2,742	3,270	3,006	25,521	23,710	3.4
Mining, oil field, and gas field machinery.....	1,452	1,487	1,541	-2.4	-3.5	-3.4	1,428	1,449	1,526	1,536	11,471	12,023	-4.6
Industrial machinery.....	2,924	2,795	2,872	4.6	-2.7	4.6	2,965	2,655	3,296	2,783	21,434	20,637	3.9
Photographic equipment.....	550	546	547	0.7	-0.2	1.3	522	540	623	496	4,334	4,231	2.4
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,144	4,025	4,095	3.0	-1.7	-1.7	4,434	4,353	5,069	4,264	33,620	31,636	6.3
Metalworking machinery.....	2,711	2,689	2,597	0.8	3.5	-1.1	2,728	2,494	2,648	2,670	20,685	21,556	-4.0
Turbines, generators, and other power transmission equipment.....	4,353	4,390	4,432	-0.8	-0.9	1.5	4,524	4,202	4,476	4,507	35,218	33,350	5.6
Material handling equipment.....	2,822	2,876	2,848	-1.9	1.0	0.9	2,948	2,768	2,810	2,971	22,760	21,505	5.8
Computers and electronic products.....	27,754	27,861	27,955	0.4	-0.3	-1.2	27,636	26,182	30,313	27,326	215,373	206,359	4.4
Computers.....	573	590	597	-2.9	-1.2	-6.7	608	552	741	886	4,809	6,074	-20.8
Computer storage devices.....	352	347	338	1.4	2.7	-4.2	304	251	547	269	2,519	2,095	20.2
Other peripheral equipment.....	782	756	800	3.4	-5.5	0.5	722	739	974	721	5,917	5,624	5.2
Nondefense communications equipment.....	3,614	3,607	3,587	0.2	0.6	1.0	3,246	3,151	4,383	2,939	26,928	24,147	11.5
Defense communications equipment.....	262	269	316	-2.6	-14.9	12.1	277	244	300	312	2,227	2,181	2.1
Audio and video equipment.....	295	337	335	-12.5	0.6	0.0	258	289	305	232	2,220	1,643	35.1
Electronic components.....	3,650	3,613	3,649	1.0	-1.0	1.6	3,884	3,566	4,049	3,660	28,804	27,827	3.5
Nondefense search and navigation equipment.....	1,574	1,570	1,564	0.3	0.4	-1.6	1,547	1,407	1,665	1,535	12,336	11,927	3.4
Defense search and navigation equipment.....	2,835	2,846	2,814	-0.4	1.1	-1.3	2,808	2,602	3,034	2,807	21,896	21,301	2.8
Electromedical, measuring, and control instruments.....	9,091	9,179	9,132	-1.0	0.5	-3.2	8,933	8,627	9,941	9,260	71,424	70,759	0.9
Electrical equipment, appliances, and components.....	11,690	11,788	11,820	-0.8	-0.3	1.1	12,281	11,462	12,566	12,101	92,628	89,343	3.7
Electric lighting equipment.....	1,048	1,059	1,063	-1.0	-0.4	-2.5	1,098	1,044	1,075	1,101	8,283	8,365	-1.0
Household appliances.....	1,786	1,733	1,718	3.1	0.9	-0.8	1,877	1,604	1,773	1,831	13,599	13,383	1.6
Electrical equipment.....	3,099	3,207	3,221	-3.4	-0.4	2.4	3,257	3,041	3,675	3,302	25,093	24,826	1.1
Batteries.....	921	917	938	0.4	-2.2	5.4	983	872	996	996	6,855	7,176	-4.5
Transportation equipment.....	85,900	86,507	88,221	-0.7	-1.9	2.4	89,514	73,886	92,813	92,719	693,150	668,129	3.7
Automobiles.....	8,581	8,821	9,054	-2.7	-2.6	0.6	9,121	6,785	9,195	9,589	70,532	72,869	-3.2
Light trucks and utility vehicles.....	22,209	22,499	22,002	-1.3	2.3	6.8	23,812	18,312	22,428	23,462	169,986	153,642	10.6
Heavy duty trucks.....	2,917	2,927	3,003	-0.3	-2.5	-3.0	3,033	2,988	3,143	2,951	24,713	21,647	14.2
Motor vehicle bodies, parts, and trailers.....	28,298	28,361	28,345	-0.2	0.1	1.0	30,087	25,332	28,790	29,868	227,864	216,743	5.1
Nondefense aircraft and parts.....	9,202	9,375	11,068	-1.8	-15.3	5.3	8,717	8,132	13,324	12,845	86,474	99,415	-13.0
Defense aircraft and parts.....	4,373	4,543	4,570	-3.7	-0.6	-2.8	4,360	3,904	5,167	4,677	35,290	34,310	2.9
Ships and boats.....	2,663	2,630	2,889	1.3	-9.0	-3.4	2,507	2,406	3,098	2,650	22,268	22,122	0.7
Furniture and related products.....	6,691	6,845	6,875	-2.2	-0.4	0.7	7,227	6,993	6,941	7,094	54,242	52,194	3.9
Miscellaneous durable goods.....	13,837	13,774	13,768	0.5	0.0	0.4	13,549	13,210	14,381	13,550	107,884	108,728	-0.8
Nondurable goods industries.....	249,025	249,825	248,120	-0.3	0.7	-0.7	257,568	252,357	252,118	261,618	1,990,139	1,985,522	0.2
Food products.....	68,161	67,977	67,288	0.3	1.0	0.0	69,743	65,941	66,742	68,637	533,646	533,369	0.1
Grain and oilseed milling.....	7,469	7,375	7,509	1.3	-1.8	-0.6	7,722	7,238	7,189	8,099	59,123	62,427	-5.3
Dairy products.....	9,510	9,544	9,409	0.4	1.4	0.4	9,759	9,495	9,182	9,571	74,495	75,225	-1.0
Meat, poultry, and seafood products.....	19,367	19,248	19,090	0.6	0.8	-0.7	19,999	18,977	20,006	19,838	150,934	155,408	-0.3
Beverage and tobacco products.....	13,165	13,019	12,577	1.1	3.5	-1.0	13,701	13,196	13,114	13,504	104,942	100,227	0.7
Beverages.....	8,661	8,684	8,592	-0.3	1.1	-0.4	9,197	8,861	9,129	9,361	69,472	69,733	-0.4
Tobacco.....	4,504	4,335	3,985	3.9	8.8	-2.4	4,504	4,335	3,985	4,143	31,470	30,494	3.2
Textile mills.....	2,443	2,453	2,482	-0.4	-1.2	0.6	2,611	2,443	2,627	2,705	20,048	20,282	-1.2
Textile products.....	2,268	2,280	2,267	-0.5	0.6	0.2	2,384	2,321	2,418	2,425	18,513	18,278	1.3
Apparel.....	947	950	979	-3.3	-3.0	0.6	1,051	979	921	1,105	7,378	7,426	-0.6
Leather and allied products.....	411	425	418	-3.3	1.7	2.7	414	429	440	425	3,400	3,343	1.7
Paper products.....	16,274	16,243	16,212	0.2	0.2	0.1	16,952	16,442	16,304	17,105	129,409	128,674	0.6
Pulp, paper, and paperboard mills.....	6,575	6,581	6,477	-0.1	1.6	0.1	6,881	6,807	6,432	7,001	51,950	52,651	-1.3
Paperboard containers.....	5,743	5,703	5,731	0.7	-0.5	0.1	6,039	5,707	5,798	6,032	45,717	44,685	2.3
Printing.....	6,923	6,913	6,826	0.1	1.3	1.5	7,103	6,793	6,588	6,883	53,408	51,906	2.9
Petroleum and coal products.....	51,016	52,910	52,095	-3.6	1.6	-4.1	54,513	56,778	53,698	60,228	426,176	438,435	-2.8
Petroleum refineries.....	46,720	48,655	47,727	-4.0	1.9	-4.5	49,344	51,834	48,767	55,124	391,496	406,172	-3.6
Chemical products.....	67,475	66,837	67,169	1.0	-0.5	0.7	68,331	66,865	68,662	67,623	536,900	523,291	2.6
Pesticides, fertilizers, and other agricultural chemicals.....	2,504	2,487	2,614	0.7	-4.9	-1.2	2,180	2,097	2,825	2,585	22,388	22,500	-0.5
Pharmaceuticals and medicines.....	23,404	22,857	23,034	2.4	-0.8	1.5	23,484	22,693	23,176	22,106	180,339	167,507	7.7
Paints, coatings, and adhesives.....	3,901	3,875	3,894	0.7	-0.5	0.7	4,170	4,096	4,110	4,187	32,172	31,543	2.0
Plastics and rubber products.....	19,942	19,818	19,807	0.6	0.1	0.3	20,765	20,170	20,604	20,978	160,319	160,291	0.0

<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, August Full Report, October 3, 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		
	Aug. 2019 <sup>p</sup>	July 2019 <sup>f</sup>	June 2019	July - Aug.	June - July	May - June	Aug. 2019 <sup>p</sup>	July 2019 <sup>f</sup>	June 2019	Aug. 2018	2019 <sup>p</sup>	2018	% Change 2019/2018
All manufacturing industries <sup>2</sup> .....	499,765	500,153	493,351	-0.1	1.4	0.5	511,619	485,683	510,292	526,774	3,971,177	3,973,309	-0.1
Excluding transportation <sup>2</sup> .....	413,493	413,552	412,663	0.0	0.2	-0.1	423,950	411,802	423,873	430,267	3,302,678	3,288,864	0.4
Excluding defense <sup>2</sup> .....	484,134	486,449	481,535	-0.5	1.0	1.1	497,447	475,654	494,571	511,292	3,860,112	3,864,560	-0.1
With unfilled orders <sup>2</sup> .....	175,603	175,020	169,906	0.3	3.0	1.6	175,424	164,243	179,975	186,759	1,387,629	1,415,318	-2.0
Durable goods industries <sup>2</sup> .....	250,740	250,328	245,231	0.2	2.1	1.8	254,051	233,326	258,174	265,156	1,981,038	1,987,787	-0.3
Primary metals.....	20,586	20,259	20,419	1.6	-0.8	0.2	20,947	19,876	20,853	22,589	169,102	175,224	-3.5
Iron and steel mills.....	10,370	10,256	10,223	1.1	0.3	-0.9	10,552	10,257	10,537	11,319	86,231	88,257	-2.3
Aluminum and nonferrous metals.....	8,670	8,544	8,727	1.5	-2.1	1.6	8,784	8,207	8,792	9,699	70,565	75,523	-6.6
Ferrous metal foundries.....	1,546	1,459	1,469	6.0	-0.7	0.5	1,611	1,412	1,524	1,571	12,306	11,444	7.5
Fabricated metal products.....	34,329	33,906	34,178	1.2	-0.8	1.8	35,669	33,477	34,618	35,278	274,733	270,000	1.8
Machinery.....	32,917	32,777	33,100	0.4	-1.0	1.7	32,662	31,682	34,339	33,539	265,108	265,037	0.0
Construction machinery.....	2,783	2,732	2,866	1.9	-4.7	6.5	2,698	2,492	2,634	3,180	22,596	23,782	-5.0
Mining, oil field, and gas field machinery.....	1,426	1,428	1,392	-0.1	2.6	-4.2	1,402	1,390	1,377	1,571	10,940	11,772	-7.1
Industrial machinery.....	2,831	2,726	2,666	3.9	2.3	2.2	2,853	2,593	3,022	2,854	21,083	20,744	1.6
Photographic equipment.....	528	460	589	14.8	-21.9	8.5	493	477	632	445	3,919	3,886	0.8
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,150	3,992	4,058	4.0	-1.6	-1.5	4,233	4,250	4,820	4,230	34,349	32,491	5.7
Metalworking machinery.....	2,763	2,727	2,561	1.3	6.5	-0.9	2,737	2,577	2,492	2,590	20,304	21,638	-6.2
Turbines, generators, and other power transmission equipment.....	4,313	4,478	4,460	-3.7	0.4	4.7	4,484	4,290	4,504	4,451	35,127	33,112	6.1
Material handling equipment.....	2,832	2,880	3,142	-1.7	-8.3	10.7	2,806	2,751	3,366	2,989	22,821	22,961	-0.6
Computers and electronic products <sup>2</sup> .....	23,581	23,640	23,691	-0.2	-0.2	-1.5	21,835	21,337	26,239	22,199	182,632	177,644	2.8
Computers.....	558	580	563	-3.8	3.0	-7.1	593	542	707	908	4,736	6,251	-24.2
Nondefense communications equipment.....	3,438	3,566	3,591	-3.6	-0.7	2.2	2,943	2,950	4,212	2,888	26,302	25,095	4.8
Defense communications equipment.....	224	227	249	-1.3	-8.8	30.4	250	190	233	329	1,931	2,227	-13.3
Electronic components.....	3,649	3,621	3,586	0.8	1.0	0.1	3,802	3,689	3,779	3,569	28,731	28,562	0.6
Nondefense search and navigation equipment.....	1,707	1,611	1,585	6.0	1.6	-8.8	1,532	1,500	1,724	1,571	12,997	12,514	3.9
Defense search and navigation equipment.....	2,964	2,899	3,060	2.2	-5.3	-0.6	2,623	2,327	3,478	2,625	22,990	20,901	10.0
Electromedical, measuring, and control instruments.....	9,149	9,240	9,124	-1.0	1.3	-2.8	8,331	8,448	9,881	8,771	70,919	70,781	0.2
Electrical equipment, appliances, and components.....	11,785	11,991	11,963	-1.7	0.2	0.7	12,297	11,543	12,553	12,107	93,847	90,128	4.1
Electric lighting equipment.....	1,112	1,123	1,123	-1.0	0.0	-5.7	1,154	1,084	1,199	1,087	8,654	8,441	2.5
Household appliances.....	1,812	1,767	1,753	2.5	0.8	-1.6	1,895	1,637	1,777	1,809	13,681	13,551	1.0
Electrical equipment.....	3,117	3,241	3,242	-3.8	0.0	3.7	3,206	3,116	3,549	3,248	25,438	24,737	2.8
Transportation equipment.....	86,272	86,601	80,688	-0.4	7.3	4.1	87,669	73,881	86,419	96,507	668,499	684,445	-2.3
Motor vehicle bodies, parts, and trailers.....	28,153	28,183	28,262	-0.1	-0.3	1.0	30,266	24,830	28,013	30,429	227,107	216,887	4.7
Nondefense aircraft and parts.....	9,066	10,936	7,183	-17.1	52.2	101.4	7,035	11,421	8,673	14,248	68,483	109,255	-37.3
Defense aircraft and parts.....	4,692	3,539	2,628	32.6	34.7	-38.0	3,652	2,544	5,375	3,910	33,111	34,067	-2.8
Ships and boats.....	3,407	1,953	1,045	74.4	86.9	-60.5	3,062	416	1,857	2,497	21,889	24,161	-9.4
Furniture and related products.....	6,763	6,879	6,903	-1.7	-0.3	0.3	6,880	6,733	6,963	6,709	54,747	52,859	3.6
Nondurable goods industries.....	249,025	249,825	248,120	-0.3	0.7	-0.7	257,568	252,357	252,118	261,618	1,990,139	1,985,522	0.2

<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, August Full Report, October 3, 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 August 2019/ 2018
	Monthly			Percent Change			Monthly				
	Aug. 2019 <sup>p</sup>	July 2019 <sup>f</sup>	June 2019	July - Aug.	June - July	May - June	Aug. 2019 <sup>p</sup>	July 2019 <sup>f</sup>	June 2019	Aug. 2018	
All manufacturing industries <sup>2</sup> .....	1,162,872	1,161,801	1,160,974	0.1	0.1	-0.6	1,159,849	1,164,501	1,164,549	1,170,981	-1.0
Excluding transportation <sup>2</sup> .....	369,124	368,425	367,692	0.2	0.2	0.1	367,923	370,730	370,773	364,826	0.8
Excluding defense <sup>2</sup> .....	964,790	964,646	962,875	0.0	0.2	-0.4	962,595	966,919	964,236	985,456	-2.3
Durable goods industries <sup>2</sup> .....	1,162,872	1,161,801	1,160,974	0.1	0.1	-0.6	1,159,849	1,164,501	1,164,549	1,170,981	-1.0
Primary metals.....	31,696	31,304	31,209	1.3	0.3	0.0	31,596	31,794	31,632	31,027	1.8
Iron and steel mills.....	16,436	16,132	15,984	1.9	0.9	0.3	16,623	16,678	16,414	16,811	-1.1
Aluminum and nonferrous metals.....	11,734	11,732	11,753	0.0	-0.2	-0.4	11,467	11,694	11,767	10,864	5.6
Ferrous metal foundries.....	3,526	3,440	3,472	2.5	-0.9	0.0	3,506	3,422	3,451	3,352	4.6
Fabricated metal products.....	87,185	86,597	86,132	0.7	0.5	0.4	87,691	87,744	87,351	85,237	2.9
Machinery.....	102,361	102,889	103,033	-0.5	-0.1	-0.3	102,096	103,082	103,008	104,994	-2.8
Construction machinery.....	4,721	5,097	5,291	-7.4	-3.7	-5.1	4,436	4,845	5,095	6,070	-26.9
Mining, oil field, and gas field machinery.....	3,675	3,701	3,760	-0.7	-1.6	-3.8	3,675	3,701	3,760	4,288	-14.3
Industrial machinery.....	7,751	7,844	7,913	-1.2	-0.9	-2.5	7,755	7,867	7,929	8,573	-9.5
Photographic equipment.....	1,257	1,279	1,365	-1.7	-6.3	3.2	1,175	1,204	1,267	1,485	-20.9
Ventilation, heating, air-conditioning, and refrigeration equipment.....	8,027	8,021	8,054	0.1	-0.4	-0.5	7,838	8,039	8,142	6,966	12.5
Metalworking machinery.....	6,947	6,895	6,857	0.8	0.6	-0.5	6,957	6,948	6,865	7,847	-11.3
Turbines, generators, and other power transmission equipment.....	28,662	28,702	28,614	-0.1	0.3	0.1	28,662	28,702	28,614	29,582	-3.1
Material handling equipment.....	13,074	13,064	13,060	0.1	0.0	2.3	13,130	13,272	13,289	12,881	1.9
Computers and electronic products <sup>2</sup> .....	118,461	118,371	118,301	0.1	0.1	0.1	117,225	118,454	118,957	114,585	2.3
Computers.....	2,122	2,137	2,147	-0.7	-0.5	-1.6	2,122	2,137	2,147	2,055	3.3
Nondefense communications equipment.....	24,352	24,528	24,569	-0.7	-0.2	0.0	24,132	24,435	24,636	24,577	-1.8
Defense communications equipment.....	1,034	1,072	1,114	-3.5	-3.8	-5.7	1,039	1,066	1,120	1,476	-29.6
Electronic components.....	12,794	12,795	12,787	0.0	0.1	-0.5	12,723	12,805	12,682	12,557	1.3
Nondefense search and navigation equipment.....	20,564	20,431	20,390	0.7	0.2	0.1	20,522	20,537	20,444	19,660	4.4
Defense search and navigation equipment.....	29,457	29,328	29,275	0.4	0.2	0.8	29,160	29,345	29,620	26,805	8.8
Electromedical, measuring, and control instruments.....	28,138	28,080	28,019	0.2	0.2	0.0	27,527	28,129	28,308	27,455	0.3
Electrical equipment, appliances, and components.....	20,125	20,030	19,827	0.5	1.0	0.7	20,174	20,158	20,077	19,817	1.8
Electric lighting equipment.....	1,689	1,625	1,561	3.9	4.1	4.0	1,722	1,666	1,626	1,421	21.2
Household appliances.....	1,284	1,258	1,224	2.1	2.8	2.9	1,297	1,279	1,246	1,352	-4.1
Electrical equipment.....	8,048	8,030	7,996	0.2	0.4	0.3	7,999	8,050	7,975	7,746	3.3
Transportation equipment.....	793,748	793,376	793,282	0.0	0.0	-0.9	791,926	793,771	793,776	806,155	-1.8
Motor vehicle bodies, parts, and trailers.....	26,639	26,784	26,962	-0.5	-0.7	-0.3	26,435	26,256	26,758	26,651	-0.8
Nondefense aircraft and parts.....	581,212	581,348	579,787	0.0	0.3	-0.7	580,197	581,879	578,590	602,950	-3.8
Defense aircraft and parts.....	80,165	79,846	80,850	0.4	-1.2	-2.3	80,010	80,718	82,078	72,251	10.7
Ships and boats.....	29,374	28,630	29,307	2.6	-2.3	-5.9	29,125	28,570	30,560	29,093	0.1
Furniture and related products.....	8,729	8,657	8,623	0.8	0.4	0.3	8,574	8,921	9,181	8,544	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, August Full Report, October 3, 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 August 2019/ 2018
	Aug. 2019 <sup>p</sup>	July 2019 <sup>f</sup>	June 2019	July - Aug.	June - July	May - June	Aug. 2019 <sup>p</sup>	July 2019 <sup>f</sup>	June 2019	Aug. 2018	
All manufacturing industries.....	695,881	696,204	695,281	0.0	0.1	0.1	700,558	700,944	691,897	680,217	3.0
Excluding transportation.....	552,722	554,699	555,585	-0.4	-0.2	0.0	555,931	558,112	553,603	550,501	1.0
Excluding defense.....	667,782	667,811	667,206	0.0	0.1	0.1	672,390	672,446	663,786	653,285	2.9
With unfilled orders.....	349,200	348,200	347,113	0.3	0.3	0.3	352,676	351,348	345,652	334,438	5.5
Durable goods industries.....	428,257	427,196	425,643	0.2	0.4	0.3	432,080	430,599	423,472	410,921	5.1
Wood products.....	12,158	12,113	12,169	0.4	-0.5	-0.6	11,997	11,914	11,919	12,113	-1.0
Nonmetallic mineral products.....	15,052	15,029	14,955	0.2	0.5	-0.1	14,989	15,096	15,117	14,432	3.9
Primary metals.....	34,949	35,480	35,775	-1.5	-0.8	-1.1	35,312	35,902	35,711	36,048	-2.0
Iron and steel mills.....	19,187	19,715	20,046	-2.7	-1.7	-1.7	19,407	19,931	19,966	20,379	-4.8
Aluminum and nonferrous metals.....	13,631	13,657	13,564	-0.2	0.7	-1.2	13,778	13,861	13,588	13,646	1.0
Ferrous metal foundries.....	2,131	2,108	2,165	1.1	-2.6	-1.3	2,127	2,110	2,157	2,023	5.1
Fabricated metal products.....	54,495	54,494	54,639	0.0	-0.3	0.1	54,674	55,038	54,626	53,959	1.3
Machinery.....	72,331	72,390	72,129	-0.1	0.4	0.4	72,987	72,618	71,553	69,819	4.5
Farm machinery.....	4,177	4,294	4,067	-2.7	5.6	5.9	4,017	4,110	4,029	3,576	12.3
Construction machinery.....	5,997	5,947	5,793	0.8	2.7	0.5	5,954	5,895	5,734	5,414	10.0
Mining, oil field, and gas field machinery.....	5,441	5,483	5,459	-0.8	0.4	-0.5	5,488	5,475	5,435	5,449	0.7
Industrial machinery.....	8,485	8,446	8,445	0.5	-0.3	1.0	8,680	8,428	8,465	8,809	-1.5
Photographic equipment.....	1,752	1,748	1,772	0.2	-1.4	-0.3	1,820	1,785	1,742	1,773	2.7
Ventilation, heating, air-conditioning, and refrigeration equipment.....	5,607	5,604	5,595	0.1	0.2	1.1	5,580	5,642	5,624	5,048	10.5
Metalworking machinery.....	6,178	6,147	6,102	0.5	0.7	-0.4	6,277	6,186	6,040	6,095	3.0
Turbines, generators, and other power transmission equipment.....	9,601	9,580	9,675	0.2	-1.0	-0.9	9,783	9,737	9,536	9,770	0.1
Material handling equipment.....	5,946	5,971	6,071	-0.4	-1.6	-0.6	6,089	6,097	6,084	5,911	3.0
Computers and electronic products <sup>2</sup> .....	43,295	43,300	43,415	0.0	-0.3	0.0	43,934	43,741	43,343	43,761	0.4
Computers.....	1,588	1,586	1,579	0.1	0.4	3.3	1,644	1,629	1,618	1,551	6.0
Computer storage devices.....	1,152	1,132	1,104	1.8	2.5	0.2	1,188	1,174	1,109	1,044	13.8
Other peripheral equipment.....	1,082	1,092	1,123	-0.9	-2.8	-0.5	1,124	1,119	1,089	1,225	-8.2
Nondefense communications equipment.....	4,874	4,854	4,836	0.4	0.4	0.3	4,999	4,852	4,814	4,818	3.8
Defense communications equipment.....	723	723	719	0.0	0.6	0.4	723	723	719	661	9.4
Audio and video equipment.....	657	647	665	1.5	-2.7	0.8	684	639	638	594	15.2
Electronic components.....	7,197	7,280	7,361	-1.1	-1.1	-0.5	7,147	7,373	7,390	7,213	-0.9
Nondefense search and navigation equipment.....	2,715	2,696	2,683	0.7	0.5	0.5	2,767	2,735	2,669	2,597	6.5
Defense search and navigation equipment.....	2,550	2,527	2,534	0.9	-0.3	-0.6	2,573	2,565	2,545	2,646	-2.8
Electromedical, measuring and control instruments.....	15,525	15,550	15,573	-0.2	-0.1	0.0	15,804	15,722	15,498	15,649	1.0
Electrical equipment, appliances, and components.....	20,281	20,342	20,307	-0.3	0.2	0.1	20,584	20,726	20,411	19,257	6.9
Electric lighting equipment.....	2,278	2,254	2,248	1.1	0.3	0.0	2,300	2,300	2,263	2,260	1.8
Household appliances.....	2,918	2,936	2,946	-0.6	-0.3	0.7	3,022	3,033	2,956	2,907	4.0
Electrical equipment.....	5,735	5,718	5,737	0.3	-0.3	0.3	5,784	5,796	5,687	5,307	9.0
Batteries.....	1,919	1,937	1,960	-0.9	-1.2	-1.5	2,017	2,030	2,041	1,926	4.7
Transportation equipment.....	143,159	141,505	139,696	1.2	1.3	0.9	144,627	142,832	138,294	129,716	11.5
Automobiles.....	4,953	4,926	4,795	0.5	2.7	2.2	5,038	5,012	4,652	4,140	21.7
Light trucks and utility vehicles.....	5,093	4,968	4,904	2.5	1.3	-0.7	5,212	5,214	4,621	4,884	6.7
Heavy duty trucks.....	2,198	2,223	2,161	-1.1	2.9	-0.5	2,246	2,321	2,210	2,271	-1.1
Motor vehicle bodies, parts, and trailers.....	26,567	26,485	26,522	0.3	-0.1	0.0	26,696	26,783	26,100	25,684	3.9
Nondefense aircraft and parts.....	75,065	73,346	72,120	2.3	1.7	1.4	75,843	73,654	71,652	65,063	17.6
Defense aircraft and parts.....	13,395	13,399	13,357	0.0	0.3	0.7	13,437	13,403	13,299	12,924	4.0
Ships and boats.....	3,311	3,322	3,238	-0.3	2.6	-3.4	3,326	3,402	3,289	3,004	10.7
Furniture and related products.....	8,036	7,993	8,004	0.5	-0.1	-0.5	8,163	8,156	8,196	8,056	1.3
Miscellaneous durable goods.....	24,501	24,550	24,554	-0.2	0.0	0.2	24,813	24,576	24,302	23,760	4.4
Nondurable goods industries.....	267,624	269,008	269,638	-0.5	-0.2	0.0	268,478	270,345	268,425	269,296	-0.3
Food products.....	54,244	54,399	54,375	-0.3	0.0	0.6	54,750	54,225	53,172	54,491	0.5
Grain and oilseed milling.....	5,400	5,398	5,222	0.0	3.4	1.8	5,258	5,237	5,135	5,199	1.1
Dairy products.....	7,814	7,834	7,822	-0.3	0.2	1.0	7,976	8,096	8,079	7,636	4.5
Meat, poultry, and seafood products.....	9,562	9,516	9,488	0.5	0.7	1.9	9,784	9,715	9,371	9,427	3.8
Beverage and tobacco products.....	25,180	25,267	25,227	-0.3	0.2	0.6	24,315	24,430	24,638	23,709	2.6
Beverages.....	20,734	20,779	20,702	-0.2	0.4	0.8	20,201	20,267	20,321	19,477	3.7
Tobacco.....	4,446	4,488	4,525	-0.9	-0.8	-0.1	4,114	4,163	4,317	4,232	-2.8
Textile mills.....	3,368	3,375	3,339	-0.2	1.1	-0.1	3,372	3,387	3,336	3,268	3.2
Textile products.....	3,491	3,554	3,548	-1.8	0.2	0.1	3,499	3,555	3,523	3,509	-0.3
Apparel.....	1,922	1,923	1,955	-0.1	-1.6	-1.5	2,023	2,012	1,952	2,045	-1.1
Leather and allied products.....	775	770	771	0.6	-0.1	-0.4	788	779	780	805	-2.1
Paper products.....	16,333	16,273	16,355	0.4	-0.5	-0.6	16,393	16,359	16,325	16,124	1.7
Pulp, paper, and paperboard mills.....	6,845	6,811	6,840	0.5	-0.4	-0.5	6,832	6,821	6,826	6,490	5.3
Paperboard containers.....	5,075	5,060	5,102	0.3	-0.8	-0.3	5,103	5,081	5,087	5,115	-0.2
Printing.....	5,501	5,524	5,547	-0.4	-0.4	-0.1	5,561	5,511	5,492	5,533	0.5
Petroleum and coal products.....	39,077	40,001	40,281	-2.3	-0.7	-1.8	39,747	41,359	40,632	42,869	-7.3
Petroleum refineries.....	33,310	34,237	34,542	-2.7	-0.9	-2.0	33,930	35,518	34,884	37,008	-8.3
Chemical products.....	90,606	90,725	90,981	-0.1	-0.3	0.3	90,960	91,528	91,318	90,249	0.8
Pesticides, fertilizers, and other agricultural chemicals.....	5,111	5,099	5,071	0.2	0.6	1.0	4,836	4,819	4,750	4,353	11.1
Pharmaceuticals and medicines.....	37,160	37,069	37,187	0.2	-0.3	0.3	37,296	37,493	37,879	36,748	1.5
Paints, coatings, and adhesives.....	3,857	3,860	3,864	-0.1	-0.1	0.0	3,790	3,869	3,910	3,859	-1.8
Plastics and rubber products.....	27,127	27,197	27,259	-0.3	-0.2	0.2	27,070	27,200	27,257	26,694	1.4

<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> 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, August Full Report, October 3, 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>	
	Aug. 2019 <sup>p</sup>	July 2019 <sup>f</sup>	June 2019	July - Aug.	June - July	May - June	Aug. 2019 <sup>p</sup>	July 2019 <sup>f</sup>	June 2019	Aug. 2018	2019 <sup>p</sup>		2018
<b>SHIPMENTS</b>													
All manufacturing industries.....	502,957	503,617	504,952	-0.1	-0.3	0.1	520,843	490,073	522,474	529,157	4,023,885	3,969,570	1.4
Construction materials and supplies.....	52,472	52,172	52,509	0.6	-0.6	0.7	56,976	54,575	56,246	57,208	421,579	413,616	1.9
Information technology.....	25,227	25,375	25,370	-0.6	0.0	-1.2	24,768	23,715	28,061	24,644	196,778	187,526	4.9
Computers and related products.....	1,707	1,693	1,735	0.8	-2.4	-3.0	1,634	1,542	2,262	1,876	13,245	13,793	-4.0
Motor vehicle and parts.....	62,005	62,608	62,404	-1.0	0.3	2.7	66,053	53,417	63,556	65,870	493,095	464,901	6.1
Capital goods.....	87,159	87,058	89,636	0.1	-2.9	0.6	86,723	81,357	97,120	89,774	700,811	690,137	1.5
Nondefense capital goods <sup>3</sup> .....	74,529	74,492	76,735	0.0	-2.9	0.9	74,314	70,409	83,402	78,154	602,234	601,924	0.1
Excluding aircraft.....	69,590	69,413	69,913	0.3	-0.7	0.0	69,625	66,200	74,714	69,228	550,172	535,498	2.7
Defense capital goods <sup>4</sup> .....	12,630	12,566	12,901	0.5	-2.6	-1.0	12,409	10,948	13,718	11,620	98,577	88,213	11.7
Consumer goods.....	212,212	213,705	211,521	-0.7	1.0	-0.2	219,878	208,049	213,839	223,310	1,684,432	1,670,129	0.9
Consumer durable goods.....	44,650	45,110	44,818	-1.0	0.7	3.4	46,793	37,950	45,855	46,899	349,580	334,723	4.4
Consumer nondurable goods.....	167,562	168,595	166,703	-0.6	1.1	-1.2	173,085	170,099	167,984	176,411	1,334,852	1,335,406	0.0
<b>NEW ORDERS</b>													
All manufacturing industries <sup>5</sup> .....	499,765	500,153	493,351	-0.1	1.4	0.5	511,619	485,683	510,292	526,774	3,971,177	3,973,309	-0.1
Construction materials and supplies.....	52,914	52,526	52,851	0.7	-0.6	1.3	56,600	54,745	55,939	56,743	424,736	419,827	1.2
Information technology.....	25,283	25,422	25,601	-0.5	-0.7	-1.2	23,585	22,959	28,226	24,042	197,039	189,191	4.1
Computers and related products.....	1,692	1,683	1,701	0.5	-1.1	-3.1	1,619	1,532	2,228	1,898	13,172	13,970	-5.7
Motor vehicle and parts.....	61,860	62,430	62,321	-0.9	0.2	2.7	66,232	52,915	62,779	66,431	492,338	465,045	5.9
Capital goods.....	87,913	87,815	82,553	0.1	6.4	1.1	83,240	82,225	89,501	91,760	681,178	706,862	-3.6
Nondefense capital goods <sup>3</sup> .....	74,243	75,994	72,246	-2.3	5.2	5.0	70,718	73,518	77,033	78,289	584,637	614,900	-4.9
Excluding aircraft.....	69,180	69,435	69,431	-0.4	0.0	0.9	67,624	65,694	73,224	68,898	548,087	541,972	1.1
Defense capital goods <sup>4</sup> .....	13,670	11,821	10,307	15.6	14.7	-20.1	12,522	8,707	12,468	13,471	96,541	91,962	5.0
Consumer goods.....	212,301	213,741	211,676	-0.7	1.0	-0.2	219,877	208,144	213,798	223,080	1,684,681	1,670,183	0.9
Consumer durable goods.....	44,739	45,146	44,973	-0.9	0.4	3.4	46,792	38,045	45,814	46,669	349,829	334,777	4.5
Consumer nondurable goods.....	167,562	168,595	166,703	-0.6	1.1	-1.2	173,085	170,099	167,984	176,411	1,334,852	1,335,406	0.0
<b>UNFILLED ORDERS</b>													
All manufacturing industries <sup>5</sup> .....	1,162,872	1,161,801	1,160,974	0.1	0.1	-0.6	1,159,849	1,164,501	1,164,549	1,170,981	(X)	(X)	-1.0
Construction materials and supplies.....	60,754	60,312	59,958	0.7	0.6	0.6	60,962	61,338	61,168	58,782	(X)	(X)	3.7
Information technology.....	116,028	115,972	115,925	0.0	0.0	0.2	114,833	116,016	116,772	112,811	(X)	(X)	1.8
Computers and related products.....	2,122	2,137	2,147	-0.7	-0.5	-1.6	2,122	2,137	2,147	2,055	(X)	(X)	3.3
Motor vehicle and parts.....	26,639	26,784	26,962	-0.5	-0.7	-0.3	26,435	26,256	26,758	26,651	(X)	(X)	-0.8
Capital goods.....	850,403	849,649	848,892	0.1	0.1	-0.8	847,564	851,047	850,179	865,818	(X)	(X)	-2.1
Nondefense capital goods <sup>3</sup> .....	693,440	693,726	692,224	0.0	0.2	-0.6	691,823	695,419	692,310	715,788	(X)	(X)	-3.3
Excluding aircraft.....	218,180	218,590	218,568	-0.2	0.0	-0.2	217,260	219,261	219,767	220,964	(X)	(X)	-1.7
Defense capital goods <sup>4</sup> .....	156,963	155,923	156,668	0.7	-0.5	-1.6	155,741	155,628	157,869	150,030	(X)	(X)	3.8
Consumer goods.....	4,865	4,776	4,740	1.9	0.8	3.4	4,735	4,736	4,641	4,865	(X)	(X)	-2.7
Consumer durable goods.....	4,865	4,776	4,740	1.9	0.8	3.4	4,735	4,736	4,641	4,865	(X)	(X)	-2.7
<b>TOTAL INVENTORIES</b>													
All manufacturing industries.....	695,881	696,204	695,281	0.0	0.1	0.1	700,558	700,944	691,897	680,217	(X)	(X)	3.0
Construction materials and supplies.....	73,433	73,412	73,459	0.0	-0.1	-0.3	73,303	73,740	73,395	72,613	(X)	(X)	1.0
Information technology.....	40,288	40,290	40,240	0.0	0.1	0.2	41,030	40,745	40,133	39,665	(X)	(X)	3.4
Computers and related products.....	3,822	3,810	3,806	0.3	0.1	1.3	3,956	3,922	3,816	3,820	(X)	(X)	3.6
Motor vehicle and parts.....	38,811	38,602	38,382	0.5	0.6	0.1	39,192	39,330	37,583	36,979	(X)	(X)	6.0
Capital goods.....	216,288	214,858	212,848	0.7	0.9	0.6	218,970	216,358	212,289	202,212	(X)	(X)	8.3
Nondefense capital goods <sup>3</sup> .....	192,574	190,851	189,154	0.9	0.9	0.6	195,229	192,250	188,501	179,680	(X)	(X)	8.7
Excluding aircraft.....	129,856	129,977	129,528	-0.1	0.3	0.2	131,608	131,127	129,009	126,524	(X)	(X)	4.0
Defense capital goods <sup>4</sup> .....	23,714	24,007	23,694	-1.2	1.3	0.9	23,741	24,108	23,788	22,532	(X)	(X)	5.4
Consumer goods.....	202,643	203,551	203,850	-0.4	-0.1	-0.1	203,849	204,740	202,328	203,540	(X)	(X)	0.2
Consumer durable goods.....	32,278	32,100	31,974	0.6	0.4	0.2	32,865	32,422	31,289	31,017	(X)	(X)	6.0
Consumer nondurable goods.....	170,365	171,451	171,876	-0.6	-0.2	-0.1	170,984	172,318	171,039	172,523	(X)	(X)	-0.9

<sup>x</sup> Not Applicable

<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> 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, August Full Report, October 3, 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
	Aug. 2019 <sup>g</sup>	July 2019 <sup>f</sup>	June 2019	July - Aug.	June - July	May - June	Aug. 2019 <sup>g</sup>	July 2019 <sup>f</sup>	June 2019	Aug. 2018	
<b>MATERIALS AND SUPPLIES</b>											
All manufacturing industries.....	237,706	237,764	238,340	0.0	-0.2	0.1	238,577	239,269	236,740	235,357	1.4
Durable goods industries.....	145,624	145,850	145,701	-0.2	0.1	0.0	146,716	146,920	144,618	143,224	2.4
Wood products.....	5,181	5,160	5,190	0.4	-0.6	-0.1	5,187	5,055	4,966	5,132	1.1
Nonmetallic mineral products.....	6,206	6,211	6,184	-0.1	0.4	-0.8	6,212	6,232	6,215	5,939	4.6
Primary metals.....	12,583	12,780	13,044	-1.5	-2.0	-0.5	12,729	12,923	12,908	13,162	-3.3
Fabricated metal products.....	20,403	20,379	20,491	0.1	-0.5	-0.3	20,600	20,609	20,435	20,634	-0.2
Machinery.....	29,314	29,430	29,184	-0.4	0.8	-0.1	29,504	29,587	29,034	27,860	5.9
Computers and electronic products.....	19,433	19,313	19,172	0.6	0.7	0.3	19,548	19,482	19,141	18,938	3.2
Electrical equipment, appliances, and components.....	8,547	8,560	8,535	-0.2	0.3	0.2	8,619	8,661	8,530	8,108	6.3
Transportation equipment.....	32,133	32,163	31,992	-0.1	0.5	0.3	32,302	32,386	31,476	31,409	2.8
Furniture and related products.....	3,820	3,838	3,883	-0.5	-1.2	-0.7	3,856	3,901	3,923	3,930	-1.9
Miscellaneous products.....	8,004	8,016	8,026	-0.1	-0.1	1.0	8,159	8,084	7,990	8,112	0.6
Nondurable goods industries.....	92,082	91,914	92,639	0.2	-0.8	0.2	91,861	92,349	92,122	92,133	-0.3
Food products.....	18,254	18,046	18,132	1.2	-0.5	0.7	18,195	18,058	17,981	17,612	3.3
Beverage and tobacco products.....	5,943	5,994	6,014	-0.9	-0.3	0.7	5,640	5,698	5,785	5,586	1.0
Textiles.....	1,139	1,142	1,146	-0.3	-0.3	-0.5	1,147	1,149	1,147	1,168	-1.8
Textile products.....	1,357	1,356	1,364	0.1	-0.6	0.1	1,357	1,358	1,365	1,321	2.7
Apparel.....	473	472	473	0.2	-0.2	-6.3	477	477	466	517	-7.7
Leather and allied products.....	276	275	276	0.4	-0.4	-0.4	279	281	279	272	2.6
Paper products.....	8,087	8,015	8,146	0.9	-1.6	-0.6	8,104	8,019	8,070	8,227	-1.5
Printing.....	2,762	2,785	2,818	-0.8	-1.2	0.3	2,785	2,804	2,800	2,837	-1.8
Petroleum and coal products.....	10,561	10,731	11,174	-1.6	-4.0	-1.6	10,395	11,021	11,354	12,106	-14.1
Chemical products.....	31,798	31,685	31,676	0.4	0.0	0.8	31,967	32,032	31,558	31,101	2.8
Plastics and rubber products.....	11,432	11,413	11,420	0.2	-0.1	0.1	11,515	11,452	11,317	11,386	1.1
<b>WORK IN PROCESS</b>											
All manufacturing industries.....	215,028	214,932	213,939	0.0	0.5	-0.1	216,429	216,533	212,901	207,535	4.3
Durable goods industries.....	161,669	160,701	159,650	0.6	0.7	0.4	163,579	162,217	159,351	152,118	7.5
Wood products.....	2,236	2,226	2,223	0.4	0.1	0.6	2,196	2,203	2,214	2,229	-1.2
Nonmetallic mineral products.....	1,559	1,577	1,573	-1.1	0.3	0.8	1,549	1,593	1,595	1,548	0.1
Primary metals.....	10,077	10,305	10,334	-2.2	-0.3	-1.0	10,338	10,518	10,423	10,883	-5.0
Fabricated metal products.....	13,745	14,064	14,052	-2.3	0.1	0.8	13,806	14,235	14,042	13,924	-0.8
Machinery.....	18,595	18,456	18,664	0.8	-1.1	0.8	19,080	18,583	18,514	19,274	-1.0
Computers and electronic products.....	11,995	12,140	12,232	-1.2	-0.8	-1.7	12,111	12,321	12,383	12,855	-5.8
Electrical equipment, appliances, and components.....	4,256	4,291	4,322	-0.8	-0.7	0.0	4,322	4,384	4,380	4,067	6.3
Transportation equipment.....	93,916	92,407	91,030	1.6	1.5	0.7	94,807	93,137	90,572	82,082	15.5
Furniture and related products.....	1,344	1,322	1,304	1.7	1.4	-2.2	1,364	1,323	1,330	1,427	-4.4
Miscellaneous products.....	3,946	3,913	3,916	0.8	-0.1	-0.2	3,999	3,927	3,898	3,829	4.4
Nondurable goods industries.....	53,359	54,231	54,289	-1.6	-0.1	-1.4	52,850	54,316	53,550	55,417	-4.6
Food products.....	5,793	5,754	5,745	0.7	0.2	-3.4	5,098	5,182	5,151	5,508	-7.4
Beverage and tobacco products.....	9,844	9,830	9,793	0.1	0.4	0.6	9,217	9,240	9,338	8,824	4.5
Textiles.....	721	727	724	-0.8	0.4	-0.5	724	733	722	709	2.1
Textile products.....	419	421	422	-0.5	-0.2	-0.9	420	421	415	434	-3.2
Apparel.....	327	332	332	-1.5	0.0	-3.5	348	352	340	364	-4.4
Leather and allied products.....	80	81	80	-1.2	1.3	3.9	83	80	77	84	-1.2
Paper products.....	1,400	1,408	1,373	-0.6	2.5	0.2	1,420	1,432	1,391	1,326	7.1
Printing.....	1,156	1,194	1,210	-3.2	-1.3	-0.3	1,194	1,194	1,148	1,170	2.1
Petroleum and coal products.....	11,778	12,182	12,183	-3.3	0.0	-4.1	12,310	12,921	12,351	13,967	-11.9
Chemical products.....	18,685	19,154	19,310	-2.4	-0.8	-0.2	18,892	19,620	19,506	19,878	-5.0
Plastics and rubber products.....	3,156	3,148	3,117	0.3	1.0	-1.0	3,144	3,141	3,111	3,153	-0.3
<b>FINISHED GOODS</b>											
All manufacturing industries.....	243,147	243,508	243,002	-0.1	0.2	0.4	245,552	245,142	242,256	237,325	3.5
Durable goods industries.....	120,964	120,645	120,292	0.3	0.3	0.4	121,785	121,462	119,503	115,579	5.4
Wood products.....	4,741	4,727	4,756	0.3	-0.6	-1.7	4,607	4,663	4,739	4,752	-3.1
Nonmetallic mineral products.....	7,287	7,241	7,198	0.6	0.6	0.4	7,228	7,271	7,307	6,945	4.1
Primary metals.....	12,289	12,395	12,397	-0.9	0.0	-1.9	12,245	12,461	12,380	12,003	2.0
Fabricated metal products.....	20,347	20,051	20,096	1.5	-0.2	0.0	20,268	20,194	20,149	19,401	4.5
Machinery.....	24,422	24,504	24,281	-0.3	0.9	0.6	24,403	24,448	24,005	22,685	7.6
Computers and electronic products.....	11,867	11,847	12,011	0.2	-1.4	1.3	12,275	11,938	11,819	11,968	2.6
Electrical equipment, appliances, and components.....	7,478	7,491	7,450	-0.2	0.6	0.1	7,643	7,681	7,501	7,082	7.9
Transportation equipment.....	17,110	16,935	16,674	1.0	1.6	2.8	17,518	17,309	16,246	16,225	8.0
Furniture and related products.....	2,872	2,833	2,817	1.4	0.6	0.7	2,943	2,932	2,943	2,699	9.0
Miscellaneous products.....	12,551	12,621	12,612	-0.6	0.1	-0.2	12,655	12,565	12,414	11,819	7.1
Nondurable goods industries.....	122,183	122,863	122,710	-0.6	0.1	0.4	123,767	123,680	122,753	121,746	1.7
Food products.....	30,197	30,599	30,498	-1.3	0.3	1.3	31,457	30,985	30,040	31,371	0.3
Beverage and tobacco products.....	9,393	9,443	9,420	-0.5	0.2	0.6	9,458	9,492	9,515	9,299	1.7
Textiles.....	1,508	1,506	1,469	0.1	2.5	0.5	1,501	1,505	1,467	1,391	7.9
Textile products.....	1,715	1,777	1,762	-3.5	0.9	0.3	1,722	1,776	1,743	1,754	-1.8
Apparel.....	1,122	1,119	1,150	0.3	-2.7	1.3	1,198	1,183	1,146	1,164	2.9
Leather and allied products.....	419	414	415	1.2	-0.2	-1.2	426	418	424	449	-5.1
Paper products.....	6,846	6,850	6,836	-0.1	0.2	-0.7	6,869	6,908	6,864	6,571	4.5
Printing.....	1,583	1,545	1,519	2.5	1.7	-0.7	1,582	1,513	1,544	1,526	3.7
Petroleum and coal products.....	16,738	17,088	16,924	-2.0	1.0	-0.2	17,042	17,417	16,927	16,796	1.5
Chemical products.....	40,123	39,886	39,995	0.6	-0.3	0.2	40,101	39,876	40,254	39,270	2.1
Plastics and rubber products.....	12,539	12,636	12,722	-0.8	-0.7	0.6	12,411	12,607	12,829	12,155	2.1

<sup>g</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, August Full Report, October 3, 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>			
	Aug 2019 <sup>a</sup>	Jul 2019 <sup>a</sup>	Jun 2019	May 2019	Aug 2019 <sup>a</sup>	Jul 2019 <sup>a</sup>	Jun 2019	May 2019
	All manufacturing industries <sup>2</sup> .....	1.38	1.38	1.38	1.38	(X)	(X)	(X)
Durable goods industries <sup>2</sup> .....	1.69	1.68	1.66	1.67	6.66	6.67	6.55	6.62
Wood products.....	1.32	1.33	1.33	1.34	(X)	(X)	(X)	(X)
Nonmetallic mineral products.....	1.32	1.32	1.31	1.33	(X)	(X)	(X)	(X)
Primary metals.....	1.73	1.76	1.75	1.76	1.57	1.55	1.53	1.52
Fabricated metal products.....	1.62	1.63	1.62	1.62	2.66	2.66	2.62	2.62
Machinery.....	2.16	2.20	2.16	2.16	3.39	3.46	3.42	3.44
Computers and electronic products <sup>3</sup> .....	1.56	1.55	1.55	1.53	5.48	5.46	5.46	5.39
Electrical equipment, appliances, and components.....	1.73	1.73	1.72	1.73	1.87	1.84	1.82	1.82
Transportation equipment.....	1.67	1.64	1.58	1.61	15.21	15.18	14.65	14.99
Furniture and related products.....	1.20	1.17	1.16	1.18	1.45	1.41	1.39	1.40
Miscellaneous products.....	1.77	1.78	1.78	1.79	(X)	(X)	(X)	(X)
Nondurable goods industries.....	1.07	1.08	1.09	1.08	(X)	(X)	(X)	(X)
Food products.....	0.80	0.80	0.81	0.80	(X)	(X)	(X)	(X)
Beverage and tobacco products.....	1.91	1.94	2.01	1.97	(X)	(X)	(X)	(X)
Textiles.....	1.38	1.38	1.35	1.35	(X)	(X)	(X)	(X)
Textile products.....	1.54	1.56	1.57	1.57	(X)	(X)	(X)	(X)
Apparel.....	2.03	2.02	2.00	2.04	(X)	(X)	(X)	(X)
Leather and allied products.....	1.89	1.81	1.84	1.90	(X)	(X)	(X)	(X)
Paper products.....	1.00	1.00	1.01	1.02	(X)	(X)	(X)	(X)
Printing.....	0.79	0.80	0.81	0.83	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.77	0.76	0.77	0.75	(X)	(X)	(X)	(X)
Chemical products.....	1.34	1.36	1.35	1.36	(X)	(X)	(X)	(X)
Plastics and rubber products.....	1.36	1.37	1.38	1.38	(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, August Full Report, October 3, 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	
	Aug <sup>2</sup> 2019	Aug <sup>1</sup> 2018- Jul 2019	Aug <sup>2</sup> 2019	Aug <sup>1</sup> 2018- Jul 2019	Aug <sup>2</sup> 2019	Aug <sup>1</sup> 2018- Jul 2019	Aug <sup>2</sup> 2019	Aug <sup>1</sup> 2018- Jul 2019
	All manufacturing industries.....	(X)	0.2	(X)	0.3	(X)	0.1	(X)
Durable goods industries.....	0.0	0.2	0.0	0.4	0.0	0.1	-0.1	0.1
Wood products.....	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.2
Nonmetallic mineral products.....	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.1
Primary metals.....	-0.1	0.3	0.1	0.7	0.4	0.3	-0.5	0.3
Fabricated metal products.....	-0.1	0.3	-0.1	0.6	0.0	0.2	-0.1	0.1
Machinery.....	0.0	0.4	-0.2	0.7	0.0	0.1	0.0	0.1
Computers and electronic products.....	0.0	0.3	0.1	0.5	0.0	0.1	0.1	0.1
Electrical equipment, appliances, and components.....	-0.6	0.2	-0.4	0.5	0.3	0.2	-0.1	0.3
Transportation equipment.....	-0.1	0.4	0.0	0.9	0.0	0.1	0.0	0.1
Furniture and related products.....	(X)	0.6	(X)	0.6	(X)	0.8	(X)	0.3
Miscellaneous products.....	(X)	0.2	(X)	0.2	(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)	0.4	(X)	(NA)	(X)	(NA)	(X)	0.1
Textiles.....	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.2
Textile products.....	(X)	0.4	(X)	(NA)	(X)	(NA)	(X)	0.2
Apparel.....	(X)	0.5	(X)	(NA)	(X)	(NA)	(X)	0.5
Leather and allied products.....	(X)	0.9	(X)	(NA)	(X)	(NA)	(X)	0.5
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)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.1

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

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