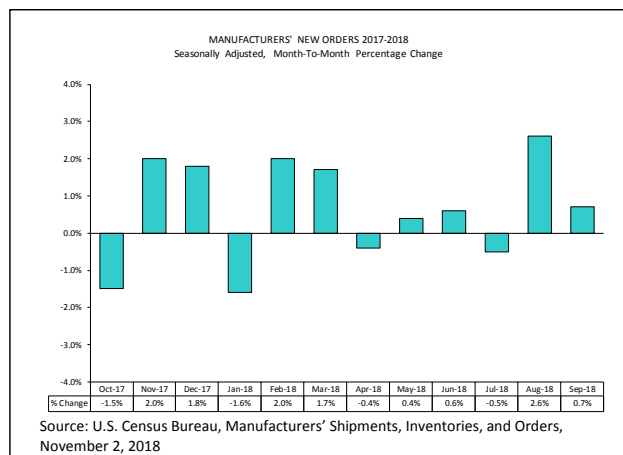
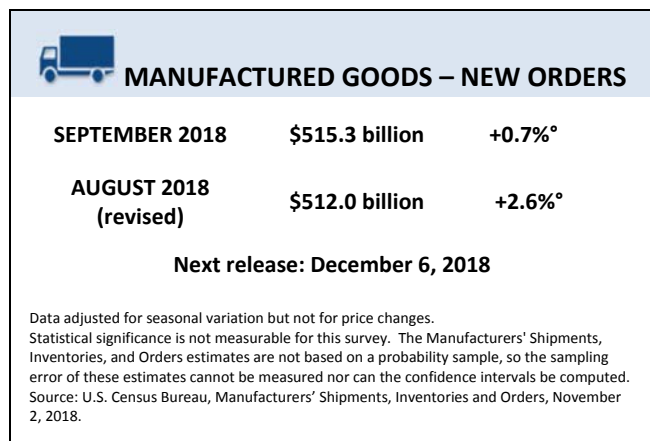


FOR RELEASE AT 10:00 AM EDT, FRIDAY, NOVEMBER 2, 2018

## MONTHLY FULL REPORT ON MANUFACTURERS' SHIPMENTS, INVENTORIES AND ORDERS SEPTEMBER 2018

Release Number: CB 18-166 M3-2 (18)-09

**November 2, 2018** — The U.S. Census Bureau announces the September full report on manufacturers' shipments, inventories and orders:



### Summary

New orders for manufactured goods in September, up four of the last five months, increased \$3.4 billion or 0.7 percent to \$515.3 billion, the U.S. Census Bureau reported today. This followed a 2.6 percent August increase. Shipments, up sixteen of the last seventeen months, increased \$4.6 billion or 0.9 percent to \$509.8 billion. This followed a 0.7 percent August increase. Unfilled orders, up ten of the last eleven months, increased \$9.7 billion or 0.8 percent to \$1,186.5 billion. This followed a 0.9 percent August increase. The unfilled orders-to-shipments ratio was 6.64, down from 6.67 in August. Inventories, up twenty-three consecutive months, increased \$3.7 billion or 0.5 percent to \$680.4 billion. This followed a 0.1 percent August increase. The inventories-to-shipments ratio was 1.33, down from 1.34 in August.

### New Orders

New orders for manufactured durable goods in September, up three of the last four months, increased \$1.8 billion or 0.7 percent to \$262.0 billion, down from the previously published 0.8 percent increase. This followed a 4.7 percent August increase. Transportation equipment, also up three of the last four months, drove the increase, \$1.9 billion or 1.9 percent to \$97.4 billion. New orders for manufactured nondurable goods increased \$1.6 billion or 0.6 percent to \$253.3 billion.

#### Data Inquiries

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## Shipments

Shipments of manufactured durable goods in September, up four of the last five months, increased \$3.0 billion or 1.2 percent to \$256.5 billion, down from the previously published 1.3 percent increase. This followed a 0.9 percent August increase. Transportation equipment, up three of the last four months, led the increase, \$2.8 billion or 3.3 percent to \$89.4 billion. Shipments of manufactured nondurable goods, up fifteen of the last sixteen months, increased \$1.6 billion or 0.6 percent to \$253.3 billion. This followed a 0.6 percent August increase. Petroleum and coal products, up fourteen of the last fifteen months, led the increase, \$1.4 billion or 2.4 percent to \$57.9 billion.

## Unfilled Orders

Unfilled orders for manufactured durable goods in September, up ten of the last eleven months, increased \$9.7 billion or 0.8 percent to \$1,186.5 billion, unchanged from the previously published increase. This followed a 0.9 percent August increase. Transportation equipment, up seven of the last eight months, led the increase, \$8.0 billion or 1.0 percent to \$818.8 billion.

## Inventories

Inventories of manufactured durable goods in September, up twenty of the last twenty-one months, increased \$3.0 billion or 0.7 percent to \$410.9 billion, unchanged from the previously published increase. This followed a 0.2 percent August decrease. Transportation equipment, up two of the last three months, led the increase, \$1.2 billion or 0.9 percent to \$130.5 billion. Inventories of manufactured nondurable goods, up fifteen consecutive months, increased \$0.7 billion or 0.2 percent to \$269.5 billion. This followed a 0.5 percent August increase. Petroleum and coal products, up five of the last six months, led the increase, \$0.3 billion or 0.8 percent to \$43.2 billion. By stage of fabrication, September materials and supplies increased 0.8 percent in durable goods and decreased 0.3 percent in nondurable goods. Work in process increased 0.7 percent in durable goods and increased 2.2 percent in nondurable goods. Finished goods increased 0.7 percent in durable goods and decreased 0.2 percent in nondurable goods.

The Advance Report on durable goods for October is scheduled for release on November 21, 2018 at 8:30 a.m. EST and the Full Report on December 6, 2018 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 June 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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## Hurricanes

For information on the impact of recent hurricanes on the compilation of this report, please see the Frequently Asked Questions (FAQs) on our website at:

<<https://www.census.gov/manufacturing/m3/hurricanesfaqsm3.pdf>>.

## 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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## 2019 Release Dates

Survey month	Advance Report (8:30 a.m. release time)	Full Report (10:00 a.m. release time)
Nov-18	Fri 12/21/2018	Mon 1/7/2019
Dec-18	Fri 1/25/2019	Mon 2/4/2019
Jan-19	Wed 2/27/2019	Wed 3/6/2019
Feb-19	Tue 3/26/2019	Wed 4/3/2019
Mar-19	Thu 4/25/2019	Thu 5/2/2019
Apr-19	Fri 5/24/2019	Tue 6/4/2019
May-19	Wed 6/26/2019	Wed 7/3/2019
Jun-19	Thu 7/25/2019	Fri 8/2/2019
Jul-19	Mon 8/26/2019	Thu 9/5/2019
Aug-19	Fri 9/27/2019	Thu 10/3/2019
Sep-19	Thu 10/24/2019	Mon 11/4/2019
Oct-19	Wed 11/27/2019	Thu 12/5/2019
Nov-19	Tue 12/24/2019	Not available at this time

Source: <[https://www.whitehouse.gov/wp-content/uploads/2018/09/pfei\\_schedule\\_releasedates\\_2019.pdf](https://www.whitehouse.gov/wp-content/uploads/2018/09/pfei_schedule_releasedates_2019.pdf)>

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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		
	Sep. 2018 <sup>p</sup>	Aug. 2018 <sup>f</sup>	July 2018	Aug. - Sep.	July - Aug.	June - July	Sep. 2018 <sup>p</sup>	Aug. 2018 <sup>f</sup>	July 2018	Sep. 2017	2018 <sup>p</sup>	2017	% Change 2018/ 2017
All manufacturing industries.....	509,779	505,207	501,661	0.9	0.7	0.0	517,948	529,157	482,868	485,527	4,487,518	4,174,571	7.5
Excluding transportation.....	420,388	418,647	417,161	0.4	0.4	0.3	424,914	436,438	412,040	400,359	3,726,355	3,459,138	7.7
Excluding defense.....	496,006	491,454	488,076	0.9	0.7	0.0	502,882	515,436	470,970	471,449	4,369,047	4,066,364	7.4
With unfilled orders.....	178,630	176,516	173,442	1.2	1.8	-1.2	185,189	184,753	161,449	174,458	1,565,938	1,457,200	7.5
Durable goods industries.....	256,455	253,456	251,307	1.2	0.9	-0.1	263,897	267,539	232,167	248,844	2,247,945	2,098,369	7.1
Wood products.....	9,457	9,481	9,524	-0.3	-0.5	0.6	9,574	10,192	9,764	9,408	85,813	82,454	4.1
Nonmetallic mineral products.....	10,964	10,984	10,959	-0.2	0.2	0.3	11,191	12,503	11,411	11,090	98,655	95,023	3.8
Primary metals.....	21,914	21,770	21,650	0.7	0.6	0.8	21,383	23,152	20,937	18,603	193,458	167,586	15.4
Iron and steel mills.....	11,092	11,014	10,948	0.7	0.6	1.8	10,749	11,803	10,722	9,044	96,413	81,997	17.6
Aluminum and nonferrous metals.....	9,483	9,376	9,309	1.1	0.7	-0.6	9,261	9,846	8,906	8,152	84,426	73,382	15.1
Ferrous metal foundries.....	1,339	1,380	1,393	-3.0	-0.9	2.2	1,373	1,503	1,309	1,407	12,619	12,207	3.4
Fabricated metal products.....	33,053	32,967	32,926	0.3	0.1	0.1	33,362	35,501	32,123	31,668	295,499	269,717	9.6
Machinery.....	32,751	32,894	33,000	-0.4	-0.3	0.8	32,740	33,401	31,219	32,763	294,120	275,019	6.9
Farm machinery.....	2,520	2,435	2,614	3.5	-6.8	-1.9	2,319	2,218	2,485	2,045	23,737	19,740	20.2
Construction machinery.....	3,002	3,022	3,005	-0.7	0.6	1.1	2,870	3,006	2,802	2,740	26,580	23,707	12.1
Mining, oil field, and gas field machinery.....	1,502	1,538	1,541	-2.3	-0.2	2.3	1,568	1,536	1,454	1,957	13,591	13,189	3.0
Industrial machinery.....	2,786	2,803	2,729	-0.6	2.7	2.9	3,065	2,783	2,606	2,930	23,702	23,339	1.6
Photographic equipment.....	586	524	605	11.8	-13.4	9.2	632	496	570	550	4,863	4,686	3.8
Ventilation, heating, air-conditioning, and refrigeration equipment.....	3,852	3,883	3,916	-0.8	-0.8	0.0	3,850	4,264	4,172	3,871	35,486	33,837	4.9
Metalworking machinery.....	2,528	2,626	2,772	-3.7	-5.3	0.4	2,616	2,670	2,512	2,881	24,172	22,817	5.9
Turbines, generators, and other power transmission equipment.....	4,432	4,384	4,103	1.1	6.8	-0.5	4,303	4,507	3,901	4,273	37,653	34,849	8.0
Material handling equipment.....	2,696	2,732	2,691	-1.3	1.5	0.1	2,628	2,971	2,517	2,546	24,133	22,275	8.3
Computers and electronic products <sup>2</sup> .....	27,109	27,129	27,139	-0.1	0.0	1.4	29,987	27,326	25,488	28,197	236,346	222,861	6.1
Computers.....	838	848	840	-1.2	1.0	7.6	996	886	816	925	7,070	7,556	-6.4
Computer storage devices.....	283	306	343	-7.5	-10.8	30.4	371	269	235	384	2,466	4,689	-47.4
Other peripheral equipment.....	779	785	788	-0.8	-0.4	10.1	854	721	783	754	6,478	5,568	16.3
Nondefense communications equipment.....	3,288	3,225	3,248	2.0	-0.7	-0.1	4,013	2,939	2,822	3,627	28,160	25,207	11.7
Defense communications equipment....	301	304	296	-1.0	2.7	2.1	337	312	283	283	2,518	2,214	13.7
Audio and video equipment.....	237	233	235	1.7	-0.9	4.4	248	232	207	264	1,891	2,100	-10.0
Electronic components.....	3,391	3,396	3,345	-0.1	1.5	-2.1	3,581	3,660	3,308	3,694	31,408	30,777	2.1
Nondefense search and navigation equipment.....	1,508	1,531	1,532	-1.5	-0.1	0.3	1,676	1,535	1,369	1,621	13,603	12,860	5.8
Defense search and navigation equipment.....	2,723	2,774	2,751	-1.8	0.8	1.3	2,977	2,807	2,508	2,907	24,278	23,404	3.7
Electromedical, measuring, and control instruments.....	9,314	9,456	9,524	-1.5	-0.7	3.0	10,434	9,260	8,864	9,632	81,193	72,083	12.6
Electrical equipment, appliances, and components.....	11,529	11,465	11,322	0.6	1.3	0.6	11,965	12,101	10,884	11,373	101,308	95,923	5.6
Electric lighting equipment.....	1,041	1,050	1,045	-0.9	0.5	-2.2	1,050	1,101	1,027	1,088	9,415	9,607	-2.0
Household appliances.....	1,730	1,740	1,718	-0.6	1.3	0.6	1,826	1,831	1,573	1,927	15,209	15,757	-3.5
Electrical equipment.....	3,162	3,160	3,150	0.1	0.3	2.0	3,290	3,302	2,916	3,115	28,116	26,928	4.4
Batteries.....	920	926	970	-0.6	-4.5	2.2	931	996	882	989	8,107	7,933	2.2
Transportation equipment.....	89,391	86,560	84,500	3.3	2.4	-1.3	93,034	92,719	70,828	85,168	761,163	715,433	6.4
Automobiles.....	8,580	8,561	8,563	0.2	0.0	-2.5	8,633	9,589	6,437	10,325	81,502	89,480	-8.9
Light trucks and utility vehicles.....	21,712	21,082	21,712	3.0	-2.9	9.6	21,971	23,462	17,280	17,121	175,613	146,304	20.0
Heavy duty trucks.....	2,819	2,792	2,797	1.0	-0.2	2.0	2,804	2,951	2,809	2,630	24,451	21,479	13.8
Motor vehicle bodies, parts, and trailers.....	27,674	27,468	27,199	0.7	1.0	1.1	27,078	29,868	23,479	25,712	243,821	232,320	5.0
Nondefense aircraft and parts.....	14,760	12,778	10,660	15.5	19.9	-24.8	17,472	12,845	9,237	15,522	116,887	115,797	0.9
Defense aircraft and parts.....	4,761	4,693	4,739	1.4	-1.0	9.4	5,380	4,677	4,017	4,977	39,690	38,108	4.2
Ships and boats.....	2,777	2,738	2,798	1.4	-2.1	-3.5	2,814	2,650	2,562	2,837	24,936	23,954	4.1
Furniture and related products.....	6,429	6,484	6,532	-0.8	-0.7	0.2	6,425	7,094	6,569	6,510	58,619	56,886	3.0
Miscellaneous durable goods.....	13,858	13,722	13,755	1.0	-0.2	-0.4	14,236	13,550	12,944	14,064	122,964	117,467	4.7
Nondurable goods industries.....	253,324	251,751	250,354	0.6	0.6	0.1	254,051	261,618	250,701	236,683	2,239,573	2,076,202	7.9
Food products.....	67,188	67,464	67,509	-0.4	-0.1	-0.1	68,485	68,637	65,177	68,732	601,854	592,468	1.6
Grain and oilseed milling.....	7,795	7,915	7,956	-1.5	-0.5	0.0	7,538	8,099	7,626	7,497	69,965	65,923	6.1
Dairy products.....	9,353	9,367	9,400	-0.1	-0.4	-0.8	9,332	9,571	9,281	9,611	84,557	86,516	-2.3
Meat, poultry, and seafood products...	19,172	19,346	19,385	-0.9	-0.2	-0.5	19,415	19,838	19,276	19,663	174,823	173,396	0.8
Beverage and tobacco products.....	12,925	12,966	12,700	-0.3	2.1	1.1	13,149	13,504	12,697	12,300	113,376	112,709	0.6
Beverages.....	8,834	8,823	8,824	0.1	0.0	1.5	9,058	9,361	8,821	8,572	78,791	78,502	0.4
Tobacco.....	4,091	4,143	3,876	-1.3	6.9	0.4	4,091	4,143	3,876	3,728	34,585	34,207	1.1
Textile mills.....	2,557	2,538	2,532	0.7	0.2	0.5	2,535	2,705	2,494	2,425	22,817	22,154	3.0
Textile products.....	2,334	2,306	2,295	1.2	0.5	1.7	2,295	2,425	2,336	2,091	20,573	19,116	7.6
Apparel.....	990	984	960	0.6	2.5	-1.6	1,017	1,105	989	929	8,443	7,864	7.4
Leather and allied products.....	401	417	422	-3.8	-1.2	-0.2	390	425	418	406	3,733	3,738	-0.1
Paper products.....	16,283	16,294	16,134	-0.1	1.0	0.6	16,197	17,105	16,126	15,544	144,871	136,957	5.8
Pulp, paper, and paperboard mills.....	6,689	6,680	6,678	0.1	0.0	2.5	6,699	7,001	6,790	6,530	59,350	57,524	3.2
Paperboard containers.....	5,646	5,655	5,490	-0.2	3.0	-0.9	5,597	6,032	5,444	5,460	50,282	48,039	4.7
Printing.....	6,478	6,581	6,686	-1.6	-1.6	0.2	6,517	6,883	6,369	6,608	58,423	57,988	0.8
Petroleum and coal products.....	57,906	56,544	56,106	2.4	0.8	0.3	58,442	60,228	59,913	46,129	496,877	388,387	27.9
Petroleum refineries.....	53,744	52,393	52,038	2.6	0.7	0.2	53,860	55,124	55,216	41,937	460,032	354,559	29.7
Chemical products.....	66,261	65,784	65,163	0.7	1.0	-0.3	65,335	67,623	64,255	61,988	588,626	558,652	5.4
Pesticides, fertilizers, and other agricultural chemicals.....	2,993	2,936	2,751	1.9	6.7	-5.4	2,603	2,585	2,380	1,955	25,103	22,183	13.2
Pharmaceuticals and medicines.....	21,759	21,492	21,292	1.2	0.9	0.5	21,737	22,106	20,689	20,374	189,244	173,640	9.0
Paints, coatings, and adhesives.....	3,820	3,813	3,759	0.2	1.4	-1.5	3,680	4,187	3,893	3,534	35,223	32,805	7.4
Plastics and rubber products.....	20,001	19,873	19,847	0.6	0.1	0.2	19,689	20,978	19,927	19,531	179,980	176,169	2.2

<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> 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, September Full Report, November 2, 2018. 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 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		
	Sep. 2018 <sup>p</sup>	Aug. 2018 <sup>f</sup>	July 2018	Aug. - Sep.	July - Aug.	June - July	Sep. 2018 <sup>p</sup>	Aug. 2018 <sup>f</sup>	July 2018	Sep. 2017	2018 <sup>p</sup>	2017	% Change 2018/ 2017
All manufacturing industries <sup>2</sup> .....	515,334	511,974	498,925	0.7	2.6	-0.5	521,364	526,774	477,354	487,841	4,494,673	4,146,743	8.4
Excluding transportation <sup>2</sup> .....	417,903	416,394	414,532	0.4	0.4	0.1	420,821	430,267	408,497	397,307	3,709,685	3,440,948	7.8
Excluding defense <sup>2</sup> .....	492,961	493,003	485,507	0.0	1.5	-0.2	495,993	511,292	467,329	469,091	4,360,553	4,039,496	7.9
With unfilled orders <sup>2</sup> .....	188,329	187,262	174,663	0.6	7.2	-2.7	192,765	186,759	159,968	180,666	1,608,083	1,464,039	9.8
Durable goods industries <sup>2</sup> .....	262,010	260,223	248,571	0.7	4.7	-1.2	267,313	265,156	226,653	251,158	2,255,100	2,070,541	8.9
Primary metals.....	22,302	22,195	21,876	0.5	1.5	-0.1	20,867	22,589	21,284	17,865	196,091	167,991	16.7
Iron and steel mills.....	11,402	11,251	11,123	1.3	1.2	1.9	10,320	11,319	10,957	8,497	98,577	82,494	19.5
Aluminum and nonferrous metals.....	9,474	9,472	9,320	0.0	1.6	-2.6	9,164	9,699	8,970	7,987	84,687	73,085	15.9
Ferrous metal foundries.....	1,426	1,472	1,433	-3.1	2.7	1.6	1,383	1,571	1,357	1,381	12,827	12,412	3.3
Fabricated metal products.....	33,237	33,546	33,391	-0.9	0.5	0.4	32,935	35,278	32,469	31,887	302,935	275,829	9.8
Machinery.....	33,364	33,277	33,227	0.3	0.2	0.4	32,717	33,539	31,661	33,156	297,754	281,611	5.7
Construction machinery.....	3,303	3,226	3,036	2.4	6.3	3.2	3,186	3,180	2,567	2,915	26,968	25,010	7.8
Mining, oil field, and gas field machinery.....	1,553	1,548	1,545	0.3	0.2	15.0	1,672	1,571	1,448	1,971	13,444	13,252	1.4
Industrial machinery.....	2,852	2,919	2,554	-2.3	14.3	-4.3	3,017	2,854	2,460	2,805	23,761	23,549	0.9
Photographic equipment.....	544	436	624	24.8	-30.1	9.9	608	445	633	681	4,494	4,554	-1.3
Ventilation, heating, air-conditioning, and refrigeration equipment.....	3,843	3,895	4,064	-1.3	-4.2	1.7	3,814	4,230	4,295	3,851	36,305	34,244	6.0
Metalworking machinery.....	2,517	2,578	2,544	-2.4	1.3	-3.6	2,465	2,590	2,352	2,512	24,103	22,924	5.1
Turbines, generators, and other power transmission equipment.....	4,430	4,325	4,136	2.4	4.6	3.7	4,163	4,451	4,106	3,809	37,275	34,761	7.2
Material handling equipment.....	2,790	2,911	3,020	-4.2	-3.6	-1.9	2,712	2,989	2,814	2,552	25,673	23,586	8.8
Computers and electronic products <sup>2</sup> .....	23,292	23,302	23,467	0.0	-0.7	0.8	26,872	22,199	21,168	25,503	204,516	190,439	7.4
Computers.....	886	870	855	1.8	1.8	9.1	1,044	908	831	957	7,295	7,772	-6.1
Nondefense communications equipment.....	3,328	3,314	3,331	0.4	-0.5	-3.8	4,105	2,888	2,769	4,004	29,200	27,201	7.3
Defense communications equipment.....	291	315	302	-7.6	4.3	11.9	328	329	267	293	2,555	2,301	11.0
Electronic components.....	3,445	3,351	3,429	2.8	-2.3	-4.4	3,551	3,569	3,546	3,697	32,113	31,255	2.7
Nondefense search and navigation equipment.....	1,571	1,557	1,603	0.9	-2.9	3.2	1,803	1,571	1,411	1,737	14,317	13,466	6.3
Defense search and navigation equipment.....	2,748	2,853	2,796	-3.7	2.0	-2.0	3,259	2,625	2,295	3,123	24,160	22,348	8.1
Electromedical, measuring, and control instruments.....	9,421	9,426	9,505	-0.1	-0.8	1.8	10,969	8,771	8,564	10,078	81,750	72,003	13.5
Electrical equipment, appliances, and components.....	11,498	11,536	11,472	-0.3	0.6	-0.3	11,719	12,107	10,719	11,284	101,847	96,168	5.9
Electric lighting equipment.....	1,036	1,054	1,048	-1.7	0.6	-6.3	1,038	1,087	1,010	1,090	9,479	9,740	-2.7
Household appliances.....	1,717	1,712	1,696	0.3	0.9	-3.5	1,798	1,809	1,506	1,958	15,349	15,863	-3.2
Electrical equipment.....	3,118	3,123	3,157	-0.2	-1.1	1.5	3,090	3,248	2,948	2,976	27,827	26,697	4.2
Transportation equipment.....	97,431	95,580	84,393	1.9	13.3	-3.6	100,543	96,507	68,857	90,534	784,988	705,795	11.2
Motor vehicle bodies, parts, and trailers.....	27,781	27,639	27,292	0.5	1.3	1.6	27,248	30,429	23,155	26,165	244,135	233,599	4.5
Nondefense aircraft and parts.....	13,645	16,547	10,110	-17.5	63.7	-29.1	14,416	14,248	8,742	14,749	123,671	106,066	16.6
Defense aircraft and parts.....	11,672	5,337	4,433	118.7	20.4	-32.3	12,259	3,910	3,566	3,929	46,326	38,842	19.3
Ships and boats.....	3,092	3,792	2,944	-18.5	28.8	33.5	3,763	2,497	1,569	9,424	27,924	25,627	9.0
Furniture and related products.....	6,688	6,617	6,507	1.1	1.7	-2.8	6,740	6,709	6,376	6,389	59,599	57,734	3.2
Nondurable goods industries.....	253,324	251,751	250,354	0.6	0.6	0.1	254,051	261,618	250,701	236,683	2,239,573	2,076,202	7.9

<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.

<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, September Full Report, November 2, 2018. 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				
	Monthly			Percent Change			Monthly				% Change September 2018/ 2017
	Sep. 2018 <sup>p</sup>	Aug. 2018 <sup>r</sup>	July 2018	Aug. - Sep.	July - Aug.	June - July	Sep. 2018 <sup>p</sup>	Aug. 2018 <sup>r</sup>	July 2018	Sep. 2017	
All manufacturing industries <sup>2</sup> .....	1,186,506	1,176,807	1,166,061	0.8	0.9	0.1	1,178,557	1,170,981	1,168,975	1,121,506	5.1
Excluding transportation <sup>2</sup> .....	367,698	366,039	364,313	0.5	0.5	0.4	364,893	364,826	366,608	346,161	5.4
Excluding defense <sup>2</sup> .....	990,271	989,172	983,644	0.1	0.6	0.1	982,727	985,456	985,211	939,503	4.6
Durable goods industries <sup>2</sup> .....	1,186,506	1,176,807	1,166,061	0.8	0.9	0.1	1,178,557	1,170,981	1,168,975	1,121,506	5.1
Primary metals.....	31,885	31,497	31,072	1.2	1.4	0.7	30,511	31,027	31,590	26,280	16.1
Iron and steel mills.....	17,309	16,999	16,762	1.8	1.4	1.1	16,382	16,811	17,295	13,351	22.7
Aluminum and nonferrous metals.....	11,120	11,129	11,033	-0.1	0.9	0.1	10,767	10,864	11,011	9,860	9.2
Ferrous metal foundries.....	3,456	3,369	3,277	2.6	2.8	1.2	3,362	3,352	3,284	3,069	9.5
Fabricated metal products.....	84,933	84,749	84,170	0.2	0.7	0.6	84,810	85,237	85,460	77,809	9.0
Machinery.....	105,677	105,064	104,681	0.6	0.4	0.2	104,971	104,994	104,856	102,499	2.4
Construction machinery.....	6,685	6,384	6,180	4.7	3.3	0.5	6,386	6,070	5,896	5,984	6.7
Mining, oil field, and gas field machinery.....	4,398	4,347	4,337	1.2	0.2	0.1	4,392	4,288	4,253	4,569	-3.9
Industrial machinery.....	8,592	8,526	8,410	0.8	1.4	-2.0	8,525	8,573	8,502	8,700	-2.0
Photographic equipment.....	1,513	1,555	1,643	-2.7	-5.4	1.2	1,461	1,485	1,536	1,563	-6.5
Ventilation, heating, air-conditioning, and refrigeration equipment.....	6,967	6,976	6,964	-0.1	0.2	2.2	6,930	6,966	7,000	5,930	16.9
Metalworking machinery.....	7,764	7,775	7,823	-0.1	-0.6	-2.8	7,696	7,847	7,927	7,931	-3.0
Turbines, generators, and other power transmission equipment.....	29,435	29,437	29,496	0.0	-0.2	0.1	29,442	29,582	29,638	29,973	-1.8
Material handling equipment.....	12,945	12,851	12,672	0.7	1.4	2.7	12,965	12,881	12,863	11,290	14.8
Computers and electronic products <sup>2</sup> .....	115,787	115,460	115,308	0.3	0.1	0.2	115,630	114,585	115,323	111,729	3.5
Computers.....	2,103	2,055	2,033	2.3	1.1	0.7	2,103	2,055	2,033	1,795	17.2
Nondefense communications equipment.....	24,800	24,760	24,671	0.2	0.4	0.3	24,669	24,577	24,628	23,041	7.1
Defense communications equipment.....	1,437	1,447	1,436	-0.7	0.8	0.4	1,467	1,476	1,459	1,440	1.9
Electronic components.....	12,612	12,558	12,603	0.4	-0.4	0.7	12,527	12,557	12,648	11,590	8.1
Nondefense search and navigation equipment.....	19,717	19,654	19,628	0.3	0.1	0.4	19,787	19,660	19,624	19,090	3.7
Defense search and navigation equipment.....	27,081	27,056	26,977	0.1	0.3	0.2	27,087	26,805	26,987	27,661	-2.1
Electromedical, measuring, and control instruments.....	28,037	27,930	27,960	0.4	-0.1	-0.1	27,990	27,455	27,944	27,112	3.2
Electrical equipment, appliances, and components.....	19,896	19,927	19,856	-0.2	0.4	0.8	19,571	19,817	19,811	18,893	3.6
Electric lighting equipment.....	1,410	1,415	1,411	-0.4	0.3	0.2	1,409	1,421	1,435	1,367	3.1
Household appliances.....	1,366	1,379	1,407	-0.9	-2.0	-1.5	1,324	1,352	1,374	1,199	10.4
Electrical equipment.....	7,693	7,737	7,774	-0.6	-0.5	0.1	7,546	7,746	7,800	7,580	-0.4
Transportation equipment.....	818,808	810,768	801,748	1.0	1.1	0.0	813,664	806,155	802,367	775,345	4.9
Motor vehicle bodies, parts, and trailers.....	26,976	26,869	26,698	0.4	0.6	0.3	26,821	26,651	26,090	25,761	4.1
Nondefense aircraft and parts.....	604,266	605,381	601,612	-0.2	0.6	-0.1	599,894	602,950	601,547	577,981	3.8
Defense aircraft and parts.....	79,628	72,717	72,073	9.5	0.9	-0.4	79,130	72,251	73,018	72,530	9.1
Ships and boats.....	30,508	30,193	29,139	1.0	3.6	0.5	30,042	29,093	29,246	30,901	-2.8
Furniture and related products.....	8,979	8,720	8,587	3.0	1.5	-0.3	8,859	8,544	8,929	8,339	6.2

<sup>p</sup> Preliminary

<sup>r</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, September Full Report, November 2, 2018. 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 September 2018/ 2017
	Sep. 2018 <sup>p</sup>	Aug. 2018 <sup>r</sup>	July 2018	Aug. - Sep.	July - Aug.	June - July	Sep. 2018 <sup>p</sup>	Aug. 2018 <sup>r</sup>	July 2018	Sep. 2017	
All manufacturing industries.....	680,400	676,738	676,154	0.5	0.1	0.9	680,458	680,217	680,361	647,570	5.1
Excluding transportation.....	549,868	547,388	544,978	0.5	0.4	0.3	550,194	550,501	548,040	520,632	5.7
Excluding defense.....	653,282	649,781	648,996	0.5	0.1	0.9	653,469	653,285	652,923	620,564	5.3
With unfilled orders.....	334,627	331,682	332,490	0.9	-0.2	1.5	334,253	334,438	336,057	318,590	4.9
Durable goods industries.....	410,927	407,936	408,559	0.7	-0.2	1.3	410,134	410,921	412,243	391,636	4.7
Wood products.....	12,305	12,242	12,243	0.5	0.0	0.5	12,111	12,113	12,087	11,577	4.6
Nonmetallic mineral products.....	14,671	14,543	14,499	0.9	0.3	0.8	14,513	14,432	14,575	13,631	6.5
Primary metals.....	35,652	35,669	35,554	0.0	0.3	0.8	36,045	36,048	35,987	32,926	9.5
Iron and steel mills.....	20,079	20,135	20,060	-0.3	0.4	1.0	20,487	20,379	20,298	18,580	10.3
Aluminum and nonferrous metals.....	13,513	13,505	13,486	0.1	0.1	0.6	13,554	13,646	13,668	12,482	8.6
Ferrous metal foundries.....	2,060	2,029	2,008	1.5	1.0	0.7	2,004	2,023	2,021	1,864	7.5
Fabricated metal products.....	54,278	53,777	53,420	0.9	0.7	0.7	54,220	53,959	54,065	49,717	9.1
Machinery.....	69,696	69,054	68,421	0.9	0.9	0.1	69,731	69,819	68,735	66,394	5.0
Farm machinery.....	3,861	3,801	3,685	1.6	3.1	1.3	3,588	3,576	3,454	3,449	4.0
Construction machinery.....	5,520	5,435	5,496	1.6	-1.1	-0.2	5,551	5,414	5,464	5,364	3.5
Mining, oil field, and gas field machinery.....	5,420	5,393	5,402	0.5	-0.2	-1.1	5,397	5,449	5,413	5,464	-1.2
Industrial machinery.....	8,879	8,711	8,453	1.9	3.1	1.2	9,020	8,809	8,396	8,215	9.8
Photographic equipment.....	1,695	1,704	1,692	-0.5	0.7	-1.3	1,707	1,773	1,731	1,663	2.6
Ventilation, heating, air-conditioning, and refrigeration equipment.....	5,066	5,021	4,964	0.9	1.1	0.8	4,939	5,048	5,005	4,784	3.2
Metalworking machinery.....	5,939	5,986	5,959	-0.8	0.5	0.2	6,046	6,095	5,986	5,782	4.6
Turbines, generators, and other power transmission equipment.....	9,538	9,468	9,500	0.7	-0.3	-1.5	9,570	9,770	9,758	9,362	2.2
Material handling equipment.....	5,813	5,727	5,619	1.5	1.9	0.0	5,982	5,911	5,767	5,517	8.4
Computers and electronic products <sup>2</sup> .....	43,419	43,068	43,136	0.8	-0.2	-0.5	43,018	43,761	43,770	42,117	2.1
Computers.....	1,507	1,500	1,488	0.5	0.8	-2.7	1,540	1,551	1,531	1,552	-0.8
Computer storage devices.....	992	1,009	1,027	-1.7	-1.8	-1.9	986	1,044	1,075	1,050	-6.1
Other peripheral equipment.....	1,232	1,175	1,151	4.9	2.1	0.3	1,189	1,225	1,184	1,136	4.7
Nondefense communications equipment.....	4,705	4,687	4,710	0.4	-0.5	-0.3	4,625	4,818	4,729	4,547	1.7
Defense communications equipment.....	646	661	677	-2.3	-2.4	-2.3	646	661	677	627	3.0
Audio and video equipment.....	561	563	559	-0.4	0.7	-1.9	616	594	560	631	-2.4
Electronic components.....	7,362	7,240	7,268	1.7	-0.4	-0.3	7,278	7,213	7,418	7,225	0.7
Nondefense search and navigation equipment.....	2,583	2,548	2,571	1.4	-0.9	0.0	2,592	2,597	2,615	2,581	0.4
Defense search and navigation equipment.....	2,621	2,632	2,618	-0.4	0.5	-0.8	2,535	2,646	2,671	2,494	1.6
Electromedical, measuring and control instruments.....	15,419	15,316	15,243	0.7	0.5	-0.4	15,235	15,649	15,473	14,600	4.3
Electrical equipment, appliances, and components.....	18,933	18,879	18,835	0.3	0.2	0.6	18,661	19,257	19,214	17,457	6.9
Electric lighting equipment.....	2,235	2,241	2,229	-0.3	0.5	-0.1	2,239	2,260	2,278	2,130	5.1
Household appliances.....	2,788	2,802	2,821	-0.5	-0.7	0.5	2,770	2,907	2,890	2,707	2.3
Electrical equipment.....	5,175	5,193	5,187	-0.3	0.1	0.7	4,868	5,307	5,308	4,622	5.3
Batteries.....	1,815	1,834	1,841	-1.0	-0.4	-1.2	1,888	1,926	1,911	1,896	-0.4
Transportation equipment.....	130,532	129,350	131,176	0.9	-1.4	3.4	130,264	129,716	132,321	126,938	2.6
Automobiles.....	4,088	4,139	4,095	-1.2	1.1	0.0	4,184	4,140	4,176	3,923	6.7
Light trucks and utility vehicles.....	4,516	4,717	4,625	-4.3	2.0	0.0	4,630	4,884	4,766	4,299	7.7
Heavy duty trucks.....	2,090	2,213	2,249	-5.6	-1.6	3.9	2,013	2,271	2,303	1,882	7.0
Motor vehicle bodies, parts, and trailers.....	25,641	25,496	25,522	0.6	-0.1	-0.1	25,608	25,684	25,818	25,088	2.1
Nondefense aircraft and parts.....	66,601	65,342	66,910	1.9	-2.3	6.5	66,177	65,063	67,085	63,888	3.6
Defense aircraft and parts.....	13,140	12,877	12,911	2.0	-0.3	0.5	13,117	12,924	12,943	12,984	1.0
Ships and boats.....	3,059	3,049	2,995	0.3	1.8	0.0	3,106	3,004	3,036	3,212	-3.3
Furniture and related products.....	7,966	7,924	7,891	0.5	0.4	0.1	7,915	8,056	8,076	7,646	3.5
Miscellaneous durable goods.....	23,475	23,430	23,384	0.2	0.2	0.3	23,656	23,760	23,413	23,233	1.8
Nondurable goods industries.....	269,473	268,802	267,595	0.2	0.5	0.3	270,324	269,296	268,118	255,934	5.6
Food products.....	54,008	53,988	54,090	0.0	-0.2	-0.7	54,632	54,491	53,482	54,989	-0.6
Grain and oilseed milling.....	5,297	5,378	5,378	-1.5	0.0	0.3	5,130	5,199	5,130	5,217	-1.7
Dairy products.....	7,689	7,491	7,544	2.6	-0.7	-0.6	7,708	7,636	7,804	7,774	-0.8
Meat, poultry, and seafood products.....	9,230	9,247	9,297	-0.2	-0.5	0.4	9,235	9,427	9,373	9,213	0.2
Beverage and tobacco products.....	24,505	24,480	24,477	0.1	0.0	-0.2	24,440	23,709	23,651	23,838	2.5
Beverages.....	19,963	19,928	19,876	0.2	0.3	0.0	20,029	19,477	19,392	19,281	3.9
Tobacco.....	4,542	4,552	4,601	-0.2	-1.1	-1.1	4,411	4,232	4,259	4,557	-3.2
Textile mills.....	3,276	3,254	3,242	0.7	0.4	0.9	3,279	3,268	3,264	3,134	4.6
Textile products.....	3,524	3,500	3,473	0.7	0.8	1.6	3,534	3,509	3,463	3,371	4.8
Apparel.....	1,966	1,945	1,919	1.1	1.4	1.1	2,034	2,045	2,024	1,980	2.7
Leather and allied products.....	795	785	780	1.3	0.6	-0.1	803	805	804	770	4.3
Paper products.....	16,076	16,076	16,088	0.0	-0.1	0.6	16,147	16,124	16,202	15,726	2.7
Pulp, paper, and paperboard mills.....	6,486	6,506	6,515	-0.3	-0.1	-0.2	6,454	6,490	6,533	6,487	-0.5
Paperboard containers.....	5,124	5,121	5,117	0.1	0.1	1.7	5,165	5,115	5,130	4,842	6.7
Printing.....	5,496	5,442	5,427	1.0	0.3	-0.3	5,571	5,533	5,447	5,494	1.4
Petroleum and coal products.....	43,153	42,824	42,265	0.8	1.3	1.7	44,223	42,869	43,043	36,909	19.8
Petroleum refineries.....	37,218	37,022	36,606	0.5	1.1	1.4	38,349	37,008	37,284	32,167	19.2
Chemical products.....	89,727	89,734	89,229	0.0	0.6	0.3	88,816	90,249	90,163	84,453	5.2
Pesticides, fertilizers, and other agricultural chemicals.....	4,403	4,567	4,613	-3.6	-1.0	0.6	4,083	4,353	4,335	4,385	-6.9
Pharmaceuticals and medicines.....	36,490	36,540	36,444	-0.1	0.3	0.2	36,070	36,748	36,927	34,105	5.8
Paints, coatings, and adhesives.....	3,943	3,914	3,888	0.7	0.7	0.1	3,859	3,859	3,919	3,672	5.1
Plastics and rubber products.....	26,947	26,774	26,605	0.6	0.6	0.5	26,845	26,694	26,575	25,270	6.2

<sup>p</sup> Preliminary

<sup>r</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, September Full Report, November 2, 2018. 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>	
	Sep. 2018 <sup>p</sup>	Aug. 2018 <sup>r</sup>	July 2018	Aug. - Sep.	July - Aug.	June - July	Sep. 2018 <sup>p</sup>	Aug. 2018 <sup>r</sup>	July 2018	Sep. 2017	2018 <sup>p</sup>		2017
<b>SHIPMENTS</b>													
All manufacturing industries.....	509,779	505,207	501,661	0.9	0.7	0.0	517,948	529,157	482,868	485,527	4,487,518	4,174,571	7.5
Construction materials and supplies.....	51,757	51,724	51,682	0.1	0.1	0.3	52,426	57,208	53,191	50,621	466,042	438,764	6.2
Information technology.....	24,836	24,867	24,881	-0.1	-0.1	2.7	27,746	24,644	23,203	25,413	215,272	197,801	8.8
Computers and related products.....	1,900	1,939	1,971	-2.0	-1.6	12.0	2,221	1,876	1,834	2,063	16,014	17,813	-10.1
Motor vehicle and parts.....	60,785	59,903	60,271	1.5	-0.6	3.5	60,486	65,870	50,005	55,788	525,387	489,583	7.3
Capital goods.....	91,102	89,033	86,619	2.3	2.8	-3.5	97,807	89,774	80,297	92,258	787,944	733,321	7.4
Nondefense capital goods <sup>3</sup> .....	79,370	77,376	75,135	2.6	3.0	-4.0	85,034	78,154	70,150	80,601	686,958	643,458	6.8
Excluding aircraft.....	68,675	68,724	68,801	-0.1	-0.1	1.2	71,769	69,228	64,912	69,455	607,267	567,101	7.1
Defense capital goods <sup>4</sup> .....	11,732	11,657	11,484	0.6	1.5	0.2	12,773	11,620	10,147	11,657	100,986	89,863	12.4
Consumer goods.....	215,794	213,842	213,593	0.9	0.1	1.0	217,784	223,310	206,275	199,864	1,887,913	1,723,296	9.6
Consumer durable goods.....	43,909	43,315	43,877	1.4	-1.3	3.9	44,477	46,899	36,188	41,301	379,200	354,546	7.0
Consumer nondurable goods.....	171,885	170,527	169,716	0.8	0.5	0.3	173,307	176,411	170,087	158,563	1,508,713	1,368,750	10.2
<b>NEW ORDERS</b>													
All manufacturing industries <sup>5</sup> .....	515,334	511,974	498,925	0.7	2.6	-0.5	521,364	526,774	477,354	487,841	4,494,673	4,146,743	8.4
Construction materials and supplies.....	51,787	52,005	51,911	-0.4	0.2	0.3	52,041	56,743	53,310	50,803	471,868	443,406	6.4
Information technology.....	25,098	25,108	25,263	0.0	-0.6	1.8	28,791	24,042	22,628	26,758	217,982	199,673	9.2
Computers and related products.....	1,948	1,961	1,986	-0.7	-1.3	12.6	2,269	1,898	1,849	2,095	16,239	18,029	-9.9
Motor vehicle and parts.....	60,892	60,074	60,364	1.4	-0.5	3.7	60,656	66,431	49,681	56,241	525,701	490,862	7.1
Capital goods.....	93,316	97,603	86,635	-4.4	12.7	-4.0	99,540	91,760	78,652	98,933	806,402	735,646	9.6
Nondefense capital goods <sup>3</sup> .....	79,201	81,095	75,540	-2.3	7.4	-3.7	82,207	78,289	70,230	81,829	697,107	646,522	7.8
Excluding aircraft.....	69,712	69,747	69,863	-0.1	-0.2	1.5	72,421	68,898	65,224	71,652	614,393	576,186	6.6
Defense capital goods <sup>4</sup> .....	14,115	16,508	11,095	-14.5	48.8	-6.1	17,333	13,471	8,422	17,104	109,295	89,124	22.6
Consumer goods.....	215,728	213,682	213,659	1.0	0.0	1.0	217,807	223,080	206,369	199,943	1,887,990	1,723,653	9.5
Consumer durable goods.....	43,843	43,155	43,943	1.6	-1.8	3.8	44,500	46,669	36,282	41,380	379,277	354,903	6.9
Consumer nondurable goods.....	171,885	170,527	169,716	0.8	0.5	0.3	173,307	176,411	170,087	158,563	1,508,713	1,368,750	10.2
<b>UNFILLED ORDERS</b>													
All manufacturing industries <sup>5</sup> .....	1,186,506	1,176,807	1,166,061	0.8	0.9	0.1	1,178,557	1,170,981	1,168,975	1,121,506	(X)	(X)	5.1
Construction materials and supplies.....	58,430	58,400	58,119	0.1	0.5	0.4	58,397	58,782	59,247	52,768	(X)	(X)	10.7
Information technology.....	114,115	113,853	113,612	0.2	0.2	0.3	113,856	112,811	113,413	110,449	(X)	(X)	3.1
Computers and related products.....	2,103	2,055	2,033	2.3	1.1	0.7	2,103	2,055	2,033	1,795	(X)	(X)	17.2
Motor vehicle and parts.....	26,976	26,869	26,698	0.4	0.6	0.3	26,821	26,651	26,090	25,761	(X)	(X)	4.1
Capital goods.....	872,627	870,413	861,843	0.3	1.0	0.0	867,551	865,818	863,832	841,039	(X)	(X)	3.2
Nondefense capital goods <sup>3</sup> .....	718,226	718,395	714,676	0.0	0.5	0.1	712,961	715,788	715,653	693,336	(X)	(X)	2.8
Excluding aircraft.....	222,791	221,754	220,731	0.5	0.5	0.5	221,616	220,964	221,294	216,669	(X)	(X)	2.3
Defense capital goods <sup>4</sup> .....	154,401	152,018	147,167	1.6	3.3	-0.3	154,590	150,030	148,179	147,703	(X)	(X)	4.7
Consumer goods.....	5,015	5,081	5,241	-1.3	-3.1	1.3	4,888	4,865	5,095	4,923	(X)	(X)	-0.7
Consumer durable goods.....	5,015	5,081	5,241	-1.3	-3.1	1.3	4,888	4,865	5,095	4,923	(X)	(X)	-0.7
<b>TOTAL INVENTORIES</b>													
All manufacturing industries.....	680,400	676,738	676,154	0.5	0.1	0.9	680,458	680,217	680,361	647,570	(X)	(X)	5.1
Construction materials and supplies.....	73,356	72,682	72,294	0.9	0.5	0.9	72,926	72,613	72,807	67,229	(X)	(X)	8.5
Information technology.....	39,128	38,850	38,737	0.7	0.3	-0.3	38,815	39,665	39,315	37,243	(X)	(X)	4.2
Computers and related products.....	3,731	3,684	3,666	1.3	0.5	-1.5	3,715	3,820	3,790	3,738	(X)	(X)	-0.6
Motor vehicle and parts.....	36,335	36,565	36,491	-0.6	0.2	0.2	36,435	36,979	37,063	35,192	(X)	(X)	3.5
Capital goods.....	202,528	200,472	201,630	1.0	-0.6	1.9	201,692	202,212	203,374	194,019	(X)	(X)	4.0
Nondefense capital goods <sup>3</sup> .....	179,740	177,868	178,814	1.1	-0.5	2.2	179,010	179,680	180,310	171,458	(X)	(X)	4.4
Excluding aircraft.....	125,369	124,534	123,886	0.7	0.5	0.2	125,039	126,524	125,182	119,749	(X)	(X)	4.4
Defense capital goods <sup>4</sup> .....	22,788	22,604	22,816	0.8	-0.9	-0.3	22,682	22,532	23,064	22,561	(X)	(X)	0.5
Consumer goods.....	202,851	202,787	202,086	0.0	0.3	0.2	204,575	203,540	202,286	194,163	(X)	(X)	5.4
Consumer durable goods.....	30,211	30,445	30,281	-0.8	0.5	0.2	30,481	31,017	30,514	29,439	(X)	(X)	3.5
Consumer nondurable goods.....	172,640	172,342	171,805	0.2	0.3	0.2	174,094	172,523	171,772	164,724	(X)	(X)	5.7

<sup>x</sup> Not Applicable

<sup>p</sup> Preliminary

<sup>r</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, September Full Report, November 2, 2018. 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 September 2018/ 2017
	Sep. 2018 <sup>p</sup>	Aug. 2018 <sup>f</sup>	July 2018	Aug. - Sep.	July - Aug.	June - July	Sep. 2018 <sup>p</sup>	Aug. 2018 <sup>f</sup>	July 2018	Sep. 2017	
<b><u>MATERIALS AND SUPPLIES</u></b>											
All manufacturing industries.....	235,428	234,542	232,388	0.4	0.9	0.9	235,822	235,357	234,055	221,438	6.5
Durable goods industries.....	143,050	141,880	140,596	0.8	0.9	0.7	143,872	143,224	141,964	133,655	7.6
Wood products.....	5,099	5,089	5,068	0.2	0.4	-0.4	5,133	5,132	4,996	4,901	4.7
Nonmetallic mineral products.....	5,947	5,939	5,946	0.1	-0.1	0.3	5,942	5,939	5,955	5,522	7.6
Primary metals.....	13,010	12,952	12,828	0.4	1.0	1.6	13,270	13,162	12,897	12,241	8.4
Fabricated metal products.....	20,731	20,458	20,343	1.3	0.6	1.8	20,881	20,634	20,632	18,752	11.4
Machinery.....	27,964	27,512	26,851	1.6	2.5	0.2	28,177	27,860	27,176	25,082	12.3
Computers and electronic products.....	18,903	18,856	18,667	0.2	1.0	0.8	18,799	18,938	18,880	17,509	7.4
Electrical equipment, appliances, and components.....	8,037	8,005	7,936	0.4	0.9	1.3	7,898	8,108	8,058	7,096	11.3
Transportation equipment.....	31,562	31,206	31,220	1.1	0.0	-0.2	31,968	31,409	31,522	31,115	2.7
Furniture and related products.....	3,888	3,894	3,898	-0.2	-0.1	1.1	3,867	3,930	3,939	3,748	3.2
Miscellaneous products.....	7,909	7,969	7,839	-0.8	1.7	0.9	7,937	8,112	7,909	7,689	3.2
Nondurable goods industries.....	92,378	92,662	91,792	-0.3	0.9	1.2	91,950	92,133	92,091	87,783	4.7
Food products.....	17,764	17,835	17,915	-0.4	-0.4	0.0	17,505	17,612	17,773	18,369	-4.7
Beverage and tobacco products.....	5,944	5,842	5,786	1.7	1.0	-0.2	5,848	5,586	5,546	5,695	2.7
Textiles.....	1,164	1,155	1,153	0.8	0.2	2.0	1,164	1,168	1,163	1,083	7.5
Textile products.....	1,315	1,317	1,319	-0.2	-0.2	0.5	1,325	1,321	1,320	1,297	2.2
Apparel.....	516	511	497	1.0	2.8	0.2	517	517	511	492	5.1
Leather and allied products.....	270	267	265	1.1	0.8	0.0	274	272	274	238	15.1
Paper products.....	8,237	8,218	8,206	0.2	0.1	0.8	8,265	8,227	8,238	7,830	5.6
Printing.....	2,834	2,812	2,792	0.8	0.7	1.2	2,851	2,837	2,815	2,718	4.9
Petroleum and coal products.....	12,176	12,386	12,232	-1.7	1.3	3.8	12,309	12,106	12,402	10,997	11.9
Chemical products.....	30,782	31,003	30,409	-0.7	2.0	1.3	30,524	31,101	30,767	28,541	6.9
Plastics and rubber products.....	11,376	11,316	11,218	0.5	0.9	1.2	11,368	11,386	11,282	10,523	8.0
<b><u>WORK IN PROCESS</u></b>											
All manufacturing industries.....	209,379	207,121	208,787	1.1	-0.8	2.0	208,037	207,535	210,116	196,228	6.0
Durable goods industries.....	152,348	151,306	153,266	0.7	-1.3	2.8	151,360	152,118	154,671	145,173	4.3
Wood products.....	2,274	2,275	2,284	0.0	-0.4	0.9	2,244	2,229	2,242	1,986	13.0
Nonmetallic mineral products.....	1,553	1,553	1,540	0.0	0.8	1.0	1,527	1,548	1,551	1,530	-0.2
Primary metals.....	10,606	10,640	10,669	-0.3	-0.3	-0.2	10,669	10,883	10,907	9,522	12.0
Fabricated metal products.....	13,931	13,827	13,769	0.8	0.4	-0.8	14,005	13,924	13,903	13,043	7.4
Machinery.....	18,765	18,845	19,004	-0.4	-0.8	-0.2	18,775	19,274	19,094	18,190	3.2
Computers and electronic products.....	12,769	12,713	12,778	0.4	-0.5	-1.1	12,447	12,855	12,994	12,714	-2.1
Electrical equipment, appliances, and components.....	4,014	3,992	3,989	0.6	0.1	1.0	3,932	4,067	4,081	3,562	10.4
Transportation equipment.....	83,285	82,274	84,094	1.2	-2.2	5.5	82,563	82,082	84,729	79,825	3.4
Furniture and related products.....	1,393	1,414	1,386	-1.5	2.0	-2.5	1,385	1,427	1,401	1,277	8.5
Miscellaneous products.....	3,758	3,773	3,753	-0.4	0.5	1.0	3,813	3,829	3,769	3,524	8.2
Nondurable goods industries.....	57,031	55,815	55,521	2.2	0.5	-0.2	56,677	55,417	55,445	51,055	11.0
Food products.....	6,225	6,153	6,164	1.2	-0.2	-4.4	5,609	5,508	5,642	5,652	-0.8
Beverage and tobacco products.....	9,340	9,416	9,465	-0.8	-0.5	0.4	9,330	8,824	8,838	9,044	3.2
Textiles.....	712	707	707	0.7	0.0	0.9	720	709	714	700	2.9
Textile products.....	436	432	411	0.9	5.1	1.2	443	434	409	422	5.0
Apparel.....	344	341	336	0.9	1.5	0.0	355	364	360	318	11.6
Leather and allied products.....	82	81	79	1.2	2.5	3.9	83	84	78	79	5.1
Paper products.....	1,311	1,303	1,298	0.6	0.4	1.2	1,318	1,326	1,320	1,237	6.5
Printing.....	1,148	1,104	1,102	4.0	0.2	-0.4	1,211	1,170	1,111	1,179	2.7
Petroleum and coal products.....	14,252	13,676	13,425	4.2	1.9	-0.5	14,569	13,967	13,840	11,130	30.9
Chemical products.....	19,986	19,427	19,378	2.9	0.3	0.8	19,852	19,878	19,988	18,326	8.3
Plastics and rubber products.....	3,195	3,175	3,156	0.6	0.6	0.6	3,187	3,153	3,145	2,968	7.4
<b><u>FINISHED GOODS</u></b>											
All manufacturing industries.....	235,593	235,075	234,979	0.2	0.0	0.0	236,599	237,325	236,190	229,904	2.9
Durable goods industries.....	115,529	114,750	114,697	0.7	0.0	0.1	114,902	115,579	115,608	112,808	1.9
Wood products.....	4,932	4,878	4,891	1.1	-0.3	1.1	4,734	4,752	4,849	4,690	0.9
Nonmetallic mineral products.....	7,171	7,051	7,013	1.7	0.5	1.1	7,044	6,945	7,069	6,579	7.1
Primary metals.....	12,036	12,077	12,057	-0.3	0.2	0.9	12,106	12,003	12,183	11,163	8.4
Fabricated metal products.....	19,616	19,492	19,308	0.6	1.0	0.7	19,334	19,401	19,530	17,922	7.9
Machinery.....	22,967	22,697	22,566	1.2	0.6	0.3	22,779	22,685	22,465	23,122	-1.5
Computers and electronic products.....	11,747	11,499	11,691	2.2	-1.6	-1.9	11,772	11,968	11,896	11,894	-1.0
Electrical equipment, appliances, and components.....	6,882	6,882	6,910	0.0	-0.4	-0.3	6,831	7,082	7,075	6,799	0.5
Transportation equipment.....	15,685	15,870	15,862	-1.2	0.1	-0.3	15,733	16,225	16,070	15,998	-1.7
Furniture and related products.....	2,685	2,616	2,607	2.6	0.3	-0.2	2,663	2,699	2,736	2,621	1.6
Miscellaneous products.....	11,808	11,688	11,792	1.0	-0.9	-0.4	11,906	11,819	11,735	12,020	-0.9
Nondurable goods industries.....	120,064	120,325	120,282	-0.2	0.0	-0.1	121,697	121,746	120,582	117,096	3.9
Food products.....	30,019	30,000	30,011	0.1	0.0	-0.3	31,518	31,371	30,067	30,968	1.8
Beverage and tobacco products.....	9,221	9,222	9,226	0.0	0.0	-0.7	9,262	9,299	9,267	9,099	1.8
Textiles.....	1,400	1,392	1,382	0.6	0.7	0.1	1,395	1,391	1,387	1,351	3.3
Textile products.....	1,773	1,751	1,743	1.3	0.5	2.5	1,766	1,754	1,734	1,652	6.9
Apparel.....	1,106	1,093	1,086	1.2	0.6	1.9	1,162	1,164	1,153	1,170	-0.7
Leather and allied products.....	443	437	436	1.4	0.2	-0.9	446	449	452	453	-1.5
Paper products.....	6,528	6,555	6,584	-0.4	-0.4	0.1	6,564	6,571	6,644	6,659	-1.4
Printing.....	1,514	1,526	1,533	-0.8	-0.5	-2.7	1,509	1,526	1,521	1,597	-5.5
Petroleum and coal products.....	16,725	16,762	16,608	-0.2	0.9	1.8	17,345	16,796	16,801	14,782	17.3
Chemical products.....	38,959	39,304	39,442	-0.9	-0.3	-0.8	38,440	39,270	39,408	37,586	2.3
Plastics and rubber products.....	12,376	12,283	12,231	0.8	0.4	-0.1	12,290	12,155	12,148	11,779	4.3

<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, September Full Report, November 2, 2018. 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>			
	Sep 2018 <sup>a</sup>	Aug 2018 <sup>a</sup>	Jul 2018	Jun 2018	Sep 2018 <sup>a</sup>	Aug 2018 <sup>a</sup>	Jul 2018	Jun 2018
All manufacturing industries <sup>3</sup> .....	1.33	1.34	1.35	1.34	(X)	(X)	(X)	(X)
Durable goods industries <sup>3</sup> .....	1.60	1.61	1.63	1.60	6.64	6.67	6.72	6.64
Wood products.....	1.30	1.29	1.29	1.29	(X)	(X)	(X)	(X)
Nonmetallic mineral products.....	1.34	1.32	1.32	1.32	(X)	(X)	(X)	(X)
Primary metals.....	1.63	1.64	1.64	1.64	1.46	1.45	1.44	1.44
Fabricated metal products.....	1.64	1.63	1.62	1.61	2.64	2.65	2.63	2.62
Machinery.....	2.13	2.10	2.07	2.09	3.57	3.53	3.53	3.56
Computers and electronic products <sup>3</sup> .....	1.60	1.59	1.59	1.62	5.42	5.36	5.35	5.42
Electrical equipment, appliances, and components.....	1.64	1.65	1.66	1.66	1.88	1.89	1.92	1.91
Transportation equipment.....	1.46	1.49	1.55	1.49	14.55	14.98	15.59	14.76
Furniture and related products.....	1.24	1.22	1.21	1.21	1.57	1.52	1.48	1.49
Miscellaneous products.....	1.69	1.71	1.70	1.69	(X)	(X)	(X)	(X)
Nondurable goods industries.....	1.06	1.07	1.07	1.07	(X)	(X)	(X)	(X)
Food products.....	0.80	0.80	0.80	0.81	(X)	(X)	(X)	(X)
Beverage and tobacco products.....	1.90	1.89	1.93	1.95	(X)	(X)	(X)	(X)
Textiles.....	1.28	1.28	1.28	1.28	(X)	(X)	(X)	(X)
Textile products.....	1.51	1.52	1.51	1.51	(X)	(X)	(X)	(X)
Apparel.....	1.99	1.98	2.00	1.94	(X)	(X)	(X)	(X)
Leather and allied products.....	1.98	1.88	1.85	1.85	(X)	(X)	(X)	(X)
Paper products.....	0.99	0.99	1.00	1.00	(X)	(X)	(X)	(X)
Printing.....	0.85	0.83	0.81	0.82	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.75	0.76	0.75	0.74	(X)	(X)	(X)	(X)
Chemical products.....	1.35	1.36	1.37	1.36	(X)	(X)	(X)	(X)
Plastics and rubber products.....	1.35	1.35	1.34	1.34	(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>d</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>e</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, September Full Report, November 2, 2018. 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	
	Sep <sup>2</sup> 2018	Sep <sup>1</sup> 2017- Aug 2018	Sep <sup>2</sup> 2018	Sep <sup>1</sup> 2017- Aug 2018	Sep <sup>2</sup> 2018	Sep <sup>1</sup> 2017- Aug 2018	Sep <sup>2</sup> 2018	Sep <sup>1</sup> 2017- Aug 2018
All manufacturing industries.....	(X)	0.1	(X)	0.3	(X)	0.1	(X)	0.1
Durable goods industries.....	-0.1	0.2	-0.1	0.4	0.0	0.1	0.0	0.1
Wood products.....	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.2
Nonmetallic mineral products.....	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.2
Primary metals.....	0.3	0.3	0.4	0.8	0.1	0.3	-0.1	0.3
Fabricated metal products.....	-0.2	0.2	-0.2	0.5	0.0	0.2	0.1	0.2
Machinery.....	-0.5	0.2	-0.5	0.9	0.0	0.2	0.2	0.2
Computers and electronic products.....	-0.2	0.3	0.0	0.6	0.1	0.1	0.0	0.2
Electrical equipment, appliances, and components.....	0.1	0.4	0.2	0.7	0.0	0.2	0.0	0.2
Transportation equipment.....	0.0	0.3	0.0	0.7	0.0	0.1	0.0	0.1
Furniture and related products.....	(X)	0.5	(X)	0.9	(X)	0.8	(X)	0.4
Miscellaneous products.....	(X)	0.2	(X)	0.2	(X)	0.3	(X)	0.1
Nondurable goods industries.....	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.2
Food products.....	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.2
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)	0.5	(X)	(NA)	(X)	(NA)	(X)	0.2
Apparel.....	(X)	0.5	(X)	(NA)	(X)	(NA)	(X)	0.6
Leather and allied products.....	(X)	0.6	(X)	(NA)	(X)	(NA)	(X)	0.4
Paper products.....	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.1
Printing.....	(X)	0.4	(X)	(NA)	(X)	(NA)	(X)	0.4
Petroleum and coal products.....	(X)	0.6	(X)	(NA)	(X)	(NA)	(X)	0.8
Chemical products.....	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.2
Plastics and rubber products.....	(X)	0.3	(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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