

FOR RELEASE AT 10:00 AM EDT, FRIDAY, NOVEMBER 3, 2017

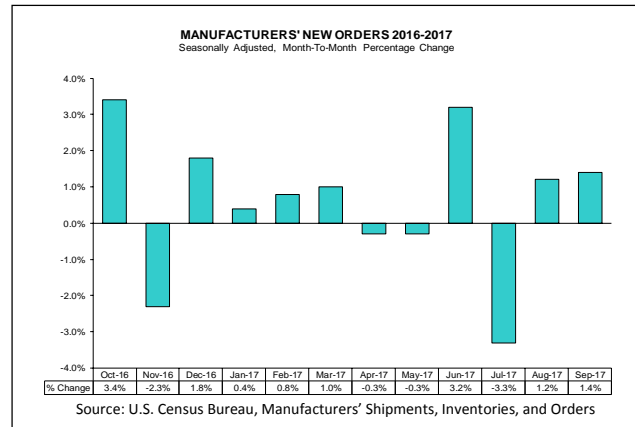
MONTHLY FULL REPORT ON MANUFACTURERS' SHIPMENTS, INVENTORIES AND ORDERS SEPTEMBER 2017

Release Number: CB 17-174 M3-2 (17)-09

Notice: For information on the impact of recent hurricanes on the compilation of this report, please see the [Frequently Asked Questions](#) document on our website.

November 3, 2017 — The U.S. Census Bureau announces the September full report on manufacturers' shipments, inventories and orders:

MANUFACTURED GOODS – NEW ORDERS		
SEPTEMBER 2017	\$478.5 billion	+1.4%°
AUGUST 2017 (revised)	\$472.0 billion	+1.2%°
Next release: December 4, 2017		
<small>Data adjusted for seasonal variation but not for price changes. Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories and Orders. °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.</small>		



Summary

New orders for manufactured goods in September, up three of the last four months, increased \$6.5 billion or 1.4 percent to \$478.5 billion, the U.S. Census Bureau reported today. This followed a 1.2 percent August increase. Shipments, up nine of the last ten months, increased \$3.9 billion or 0.8 percent to \$480.4 billion. This followed a 0.6 percent August increase. Unfilled orders, up following two consecutive monthly decreases, increased \$2.7 billion or 0.2 percent to \$1,135.0 billion. This followed a virtually unchanged August decrease. The unfilled orders-to-shipments ratio was 6.70, down from 6.76 in August. Inventories, up ten of the last eleven months, increased \$4.4 billion or 0.7 percent to \$660.8 billion. This followed a 0.6 percent August increase. The inventories-to-shipments ratio was 1.38, unchanged from August.

New Orders

New orders for manufactured durable goods in September, up three of the last four months, increased \$4.7 billion or 2.0 percent to \$238.4 billion, down from the previously published 2.2 percent increase. This followed a 2.1 percent August increase. Transportation equipment, also up three of the last four months, led the increase, \$3.6 billion or 4.7 percent to \$80.9 billion. New orders for manufactured nondurable goods increased \$1.8 billion or 0.8 percent to \$240.1 billion.

Data Inquiries

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Shipments

Shipments of manufactured durable goods in September, up four of the last five months, increased \$2.1 billion or 0.9 percent to \$240.3 billion, down from the previously published 1.0 percent increase. This followed a 0.7 percent August increase. Transportation equipment, up two of the last three months, led the increase, \$0.8 billion or 1.1 percent to \$79.5 billion. Shipments of manufactured nondurable goods, up five of the last six months, increased \$1.8 billion or 0.8 percent to \$240.1 billion. This followed a 0.4 percent August increase. Petroleum and coal products, up three consecutive months, drove the increase, \$2.1 billion or 5.0 percent to \$44.9 billion.

Unfilled Orders

Unfilled orders for manufactured durable goods in September, up following two consecutive monthly decreases, increased \$2.7 billion or 0.2 percent to \$1,135.0 billion, unchanged from the previously published increase. This followed a virtually unchanged August decrease. Transportation equipment, also up following two consecutive monthly decreases, led the increase, \$1.4 billion or 0.2 percent to \$771.9 billion.

Inventories

Inventories of manufactured durable goods in September, up fourteen of the last fifteen months, increased \$2.6 billion or 0.6 percent to \$403.9 billion, unchanged from the previously published increase. This followed a 0.5 percent August increase. Transportation equipment, up three consecutive months, led the increase, \$1.0 billion or 0.7 percent to \$131.0 billion. Inventories of manufactured nondurable goods, up four consecutive months, increased \$1.8 billion or 0.7 percent to \$256.8 billion. This followed a 0.7 percent August increase. Petroleum and coal products, up three consecutive months, led the increase, \$1.8 billion or 5.0 percent to \$38.6 billion. By stage of fabrication, September materials and supplies increased 0.8 percent in durable goods and increased 1.9 percent in nondurable goods. Work in process increased 0.8 percent in durable goods and increased 1.0 percent in nondurable goods. Finished goods increased 0.2 percent in durable goods and decreased 0.4 percent in nondurable goods.

The Advance Report on durable goods for October is scheduled for release on November 22, 2017 at 8:30 a.m. EST and the Full Report on December 4, 2017 at 10:00 a.m. EST. View the full schedule in the Economic Briefing Room: <www.census.gov/economic-indicators/>. The full text and tables of this release can be found at <www.census.gov/m3>.

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EXPLANATORY NOTES

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

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

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.

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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/.

2018 Release Dates for the M3 Survey

Survey month	Advance Report (8:30 a.m. release time)	Full Report (10:00 a.m. release time)
Sep-17	Wed 10/25/2017	Fri 11/3/2017
Oct-17	Wed 11/22/2017	Mon 12/4/2017
Nov-17	Fri 12/22/2017	Fri 1/5/2018
Dec-17	Fri 1/26/2018	Fri 2/2/2018
Jan-18	Tue 2/27/2018	Tue 3/6/2018
Feb-18	Fri 3/23/2018	Wed 4/4/2018
Mar-18	Thu 4/26/2018	Thu 5/3/2018
Apr-18	Fri 5/25/2018	Mon 6/4/2018
May-18	Wed 6/27/2018	Tue 7/3/2018
Jun-18	Thu 7/26/2018	Thu 8/2/2018
Jul-18	Fri 8/24/2018	Thu 9/6/2018
Aug-18	Thu 9/27/2018	Thu 10/4/2018
Sep-18	Thu 10/25/2018	Fri 11/2/2018
Oct-18	Wed 11/21/2018	Thu 12/6/2018
Nov-18	Fri 12/21/2018	Not available at this time

Source:

https://www.whitehouse.gov/sites/whitehouse.gov/files/omb/reports/pei_schedule_release_dates_2018_all_v2.pdf

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

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

Industry	Seasonally Adjusted						Not Seasonally Adjusted						
	Monthly			Percent Change			Monthly				Year to date		
	Sep. 2017 ^P	Aug. 2017 ^f	July 2017	Aug. - Sep.	July - Aug.	June - July	Sep. 2017 ^P	Aug. 2017 ^f	July 2017	Sep. 2016	2017 ^P	2016	% Change 2017/ 2016
All manufacturing industries ²	478,455	471,965	466,245	1.4	1.2	-3.3	490,942	486,891	443,570	466,021	4,232,630	4,008,341	5.6
Excluding transportation ²	397,595	394,737	392,449	0.7	0.6	0.5	406,531	409,459	382,800	385,424	3,538,073	3,344,016	5.8
Excluding defense ²	465,345	459,243	452,584	1.3	1.5	-3.7	476,537	476,595	432,552	452,498	4,126,845	3,910,292	5.5
With unfilled orders ²	172,190	167,549	164,050	2.8	2.1	-9.1	178,510	167,035	150,768	165,434	1,501,584	1,401,446	7.1
Durable goods industries ²	238,404	233,709	228,981	2.0	2.1	-6.8	247,695	237,439	208,716	233,803	2,093,123	1,989,457	5.2
Primary metals.....	19,631	19,886	19,635	-1.3	1.3	0.8	18,975	20,732	18,870	17,382	177,135	159,867	10.8
Iron and steel mills.....	9,293	9,532	9,516	-2.5	0.2	1.0	8,676	9,950	9,122	7,718	83,573	75,185	11.2
Aluminum and nonferrous metals.....	9,003	8,992	8,777	0.1	2.4	1.0	8,960	9,371	8,475	8,237	81,404	71,989	13.1
Ferrous metal foundries.....	1,335	1,362	1,342	-2.0	1.5	-2.1	1,339	1,411	1,273	1,427	12,158	12,693	-4.2
Fabricated metal products.....	33,311	32,760	32,620	1.7	0.4	0.7	33,841	34,395	31,578	29,965	294,242	269,278	9.3
Machinery.....	31,886	31,856	31,854	0.1	0.0	0.2	31,699	31,979	29,885	29,832	284,790	267,680	6.4
Construction machinery.....	2,298	2,282	2,294	0.7	-0.5	12.9	2,187	2,175	1,972	1,545	18,996	15,663	21.3
Mining, oil field, and gas field machinery.....	1,180	1,002	1,083	17.8	-7.5	3.7	1,242	1,060	1,076	1,080	9,064	7,713	17.5
Industrial machinery.....	2,832	3,087	2,776	-8.3	11.2	-0.7	3,046	2,845	2,649	2,754	25,702	23,646	8.7
Photographic equipment.....	538	482	487	11.6	-1.0	-10.3	602	513	445	642	4,673	4,934	-5.3
Ventilation, heating, air-conditioning, and refrigeration equipment.....	3,629	3,702	3,702	-2.0	0.0	-3.0	3,708	3,904	3,825	3,826	34,941	33,689	3.7
Metalworking machinery.....	2,930	3,030	3,212	-3.3	-5.7	4.9	3,020	3,148	2,938	3,043	26,517	25,332	4.7
Turbines, generators, and other power transmission equipment.....	4,194	4,048	4,040	3.6	0.2	-0.6	3,961	4,097	3,948	3,595	35,800	34,212	4.6
Material handling equipment.....	2,921	2,944	3,142	-0.8	-6.3	1.0	2,985	3,016	2,695	2,877	26,518	23,996	10.5
Computers and electronic products ²	23,459	23,014	22,550	1.9	2.1	2.4	27,525	21,545	20,718	25,513	201,205	195,325	3.0
Computers.....	729	750	749	-2.8	0.1	0.1	830	729	739	816	6,710	6,416	4.6
Nondefense communications equipment.....	3,160	3,008	2,787	5.1	7.9	-0.3	4,014	2,475	2,426	3,636	26,186	25,380	3.2
Defense communications equipment.....	244	256	251	-4.7	2.0	-2.0	285	254	214	298	2,242	2,282	-1.5
Electronic components.....	4,137	4,158	3,993	-0.5	4.1	1.3	4,275	4,578	4,165	4,115	36,742	34,721	5.8
Nondefense search and navigation equipment.....	1,608	1,615	1,525	-0.4	5.9	1.5	1,886	1,513	1,437	1,590	13,778	12,584	9.5
Defense search and navigation equipment.....	2,575	2,485	2,521	3.6	-1.4	3.2	3,004	2,232	2,100	2,856	22,030	22,597	-2.5
Electromedical, measuring, and control instruments.....	9,241	8,910	8,849	3.7	0.7	2.6	11,027	8,123	8,146	10,159	78,228	75,858	3.1
Electrical equipment, appliances, and components.....	10,158	10,084	9,885	0.7	2.0	1.9	10,622	10,490	8,911	10,778	90,880	91,017	-0.2
Electric lighting equipment.....	1,066	1,078	1,075	-1.1	0.3	-3.9	1,099	1,082	1,030	1,169	9,742	9,698	0.5
Household appliances.....	1,586	1,604	1,534	-1.1	4.6	-2.0	1,730	1,655	1,350	1,823	14,048	14,853	-5.4
Electrical equipment.....	2,647	2,712	2,490	-2.4	8.9	4.1	2,728	2,775	2,243	3,061	24,519	26,315	-6.8
Transportation equipment.....	80,860	77,228	73,796	4.7	4.7	-19.6	84,411	77,432	60,770	80,597	694,557	664,325	4.6
Motor vehicle bodies, parts, and trailers.....	27,774	27,751	27,066	0.1	2.5	-2.2	28,334	30,107	22,697	28,344	250,547	239,591	4.6
Nondefense aircraft and parts.....	12,684	9,699	7,267	30.8	33.5	-71.1	13,305	7,002	7,103	9,705	95,337	76,305	24.9
Defense aircraft and parts.....	3,850	3,756	5,429	2.5	-30.8	45.7	3,500	2,823	4,355	2,903	35,694	34,913	2.2
Ships and boats.....	4,339	3,258	3,015	33.2	8.1	-2.1	4,627	2,476	2,169	3,069	26,336	21,982	19.8
Furniture and related products.....	6,475	6,546	6,555	-1.1	-0.1	1.3	6,530	6,600	6,382	6,655	59,463	58,763	1.2
Nondurable goods industries.....	240,051	238,256	237,264	0.8	0.4	0.3	243,247	249,452	234,854	232,218	2,139,507	2,018,884	6.0

^P Preliminary

^f Revised data due to late receipts and concurrent seasonal adjustment.

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

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

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 3, 2017. 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 3. Value of Manufacturers' Unfilled Orders for Industry Groups¹

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

Industry	Seasonally Adjusted						Not Seasonally Adjusted				% Change September 2017/ 2016
	Monthly			Percent Change			Monthly				
	Sep. 2017 ^P	Aug. 2017 ^r	July 2017	Aug. - Sep.	July - Aug.	June - July	Sep. 2017 ^P	Aug. 2017 ^r	July 2017	Sep. 2016	
All manufacturing industries ²	1,134,990	1,132,326	1,132,365	0.2	0.0	-0.3	1,126,005	1,126,322	1,134,728	1,110,279	1.4
Excluding transportation ²	363,064	361,789	360,424	0.4	0.4	0.5	359,975	360,473	362,853	344,759	4.4
Excluding defense ²	956,198	954,007	954,353	0.2	0.0	-0.5	948,863	949,651	955,985	937,523	1.2
Durable goods industries ²	1,134,990	1,132,326	1,132,365	0.2	0.0	-0.3	1,126,005	1,126,322	1,134,728	1,110,279	1.4
Primary metals.....	30,612	30,594	30,363	0.1	0.8	1.0	29,635	30,405	30,631	27,462	7.9
Iron and steel mills.....	15,421	15,381	15,098	0.3	1.9	2.0	14,825	15,408	15,394	13,218	12.2
Aluminum and nonferrous metals.....	10,825	10,901	11,027	-0.7	-1.1	-0.6	10,566	10,717	10,971	10,572	-0.1
Ferrous metal foundries.....	4,366	4,312	4,238	1.3	1.7	1.5	4,244	4,280	4,266	3,672	15.6
Fabricated metal products.....	80,261	79,352	78,774	1.1	0.7	1.1	80,023	79,763	80,110	74,939	6.8
Machinery.....	100,826	101,050	100,793	-0.2	0.3	0.8	99,793	100,905	100,812	96,386	3.5
Construction machinery.....	5,923	5,677	5,498	4.3	3.3	4.2	5,497	5,336	5,233	4,254	29.2
Mining, oil field, and gas field machinery.....	5,193	5,190	5,194	0.1	-0.1	0.8	5,234	5,221	5,169	5,318	-1.6
Industrial machinery.....	8,186	8,228	8,102	-0.5	1.6	-1.6	8,062	8,248	8,190	8,464	-4.7
Photographic equipment.....	1,208	1,207	1,250	0.1	-3.4	-4.4	1,187	1,173	1,183	1,268	-6.4
Ventilation, heating, air-conditioning, and refrigeration equipment.....	6,085	6,119	6,093	-0.6	0.4	0.0	5,977	6,049	6,138	5,574	7.2
Metalworking machinery.....	7,910	8,142	8,182	-2.8	-0.5	2.5	7,869	8,233	8,237	8,256	-4.7
Turbines, generators, and other power transmission equipment.....	29,428	29,723	29,802	-1.0	-0.3	0.1	29,378	29,851	29,976	29,811	-1.5
Material handling equipment.....	12,766	12,712	12,616	0.4	0.8	3.5	12,709	12,625	12,663	10,958	16.0
Computers and electronic products ²	118,617	117,995	117,707	0.5	0.2	0.0	118,356	117,002	118,164	115,177	2.8
Computers.....	1,920	1,886	1,856	1.8	1.6	2.3	1,920	1,886	1,856	1,667	15.2
Nondefense communications equipment.....	26,175	25,806	25,514	1.4	1.1	0.4	26,020	25,521	25,590	23,668	9.9
Defense communications equipment.....	1,620	1,622	1,611	-0.1	0.7	0.1	1,657	1,646	1,647	1,633	1.5
Electronic components.....	11,565	11,511	11,431	0.5	0.7	0.4	11,491	11,540	11,449	11,049	4.0
Nondefense search and navigation equipment.....	18,801	18,643	18,471	0.8	0.9	0.4	18,868	18,593	18,568	17,824	5.9
Defense search and navigation equipment.....	26,930	26,996	27,125	-0.2	-0.5	-0.3	26,916	26,720	27,144	28,293	-4.9
Electromedical, measuring, and control instruments.....	31,606	31,531	31,699	0.2	-0.5	-0.6	31,484	31,096	31,910	31,043	1.4
Electrical equipment, appliances, and components.....	22,370	22,350	22,311	0.1	0.2	-0.5	21,989	22,101	22,225	20,841	5.5
Electric lighting equipment.....	1,608	1,601	1,578	0.4	1.5	1.3	1,597	1,585	1,609	1,521	5.0
Household appliances.....	1,176	1,170	1,110	0.5	5.4	0.5	1,162	1,131	1,079	1,008	15.3
Electrical equipment.....	8,153	8,158	8,122	-0.1	0.4	-1.3	8,020	8,154	8,157	8,096	-0.9
Transportation equipment.....	771,926	770,537	771,941	0.2	-0.2	-0.7	766,030	765,849	771,875	765,520	0.1
Motor vehicle bodies, parts, and trailers.....	23,992	23,835	23,777	0.7	0.2	-0.4	23,847	23,628	23,479	22,948	3.9
Nondefense aircraft and parts.....	578,095	577,882	579,664	0.0	-0.3	-1.0	574,143	574,878	579,295	577,507	-0.6
Defense aircraft and parts.....	73,589	73,720	74,018	-0.2	-0.4	1.9	72,100	73,172	74,382	67,514	6.8
Ships and boats.....	25,055	23,701	23,446	5.7	1.1	-0.3	24,568	23,060	23,509	21,734	13.0
Furniture and related products.....	9,640	9,684	9,726	-0.5	-0.4	0.5	9,441	9,533	10,161	9,238	2.2

^P Preliminary

^r Revised data due to late receipts and concurrent seasonal adjustment.

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

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

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

Industry	Seasonally Adjusted						Not Seasonally Adjusted						
	Monthly			Percent Change			Monthly			Year to date		% Change ⁶	
	Sep. 2017 ^p	Aug. 2017 ^r	July 2017	Aug. - Sep.	July - Aug.	June - July	Sep. 2017 ^p	Aug. 2017 ^r	July 2017	Sep. 2016	2017 ^p		2016
SHIPMENTS													
All manufacturing industries.....	480,390	476,452	473,756	0.8	0.6	0.2	495,631	499,958	450,898	476,622	4,268,359	4,078,102	4.7
Construction materials and supplies.....	50,072	49,701	49,393	0.7	0.6	-0.7	51,821	54,798	50,009	49,902	451,881	431,916	4.6
Information technology.....	23,213	23,016	23,051	0.9	-0.2	2.8	26,557	22,854	21,184	24,761	201,801	191,910	5.2
Computers and related products.....	1,929	2,035	2,088	-5.2	-2.5	8.0	2,464	1,830	1,750	2,366	17,539	17,596	-0.3
Motor vehicle and parts.....	54,420	54,593	53,197	-0.3	2.6	-1.7	56,206	59,521	43,200	57,146	489,248	485,529	0.8
Capital goods.....	84,296	82,342	82,923	2.4	-0.7	2.2	91,381	82,881	75,824	86,297	727,940	704,272	3.4
Nondefense capital goods ³	73,719	71,915	72,612	2.5	-1.0	2.0	79,772	72,493	66,701	75,587	637,035	621,021	2.6
Excluding aircraft.....	65,383	64,780	63,942	0.9	1.3	1.0	69,982	65,243	59,432	65,753	569,972	551,380	3.4
Defense capital goods ⁴	10,577	10,427	10,311	1.4	1.1	3.2	11,609	10,388	9,123	10,710	90,905	83,251	9.2
Consumer goods.....	199,090	197,345	195,100	0.9	1.2	0.3	202,935	206,744	187,129	190,480	1,754,691	1,638,422	7.1
Consumer durable goods.....	37,477	37,595	36,693	-0.3	2.5	-1.8	39,207	40,196	29,955	40,399	336,550	343,173	-1.9
Consumer nondurable goods.....	161,613	159,750	158,407	1.2	0.8	0.8	163,728	166,548	157,174	150,081	1,418,141	1,295,249	9.5
NEW ORDERS													
All manufacturing industries ⁵	478,455	471,965	466,245	1.4	1.2	-3.3	490,942	486,891	443,570	466,021	4,232,630	4,008,341	5.6
Construction materials and supplies.....	50,627	50,070	49,786	1.1	0.6	-0.2	51,972	54,336	50,398	49,181	456,644	433,058	5.4
Information technology.....	23,794	23,101	22,908	3.0	0.8	2.4	27,953	21,442	20,485	25,814	203,833	197,693	3.1
Computers and related products.....	1,963	2,065	2,129	-4.9	-3.0	7.7	2,498	1,860	1,791	2,357	17,770	17,584	1.1
Motor vehicle and parts.....	54,577	54,651	53,104	-0.1	2.9	-2.1	56,425	59,670	43,051	57,043	490,195	484,166	1.2
Capital goods.....	86,432	81,612	79,638	5.9	2.5	-16.0	91,839	75,781	73,372	82,146	725,989	675,303	7.5
Nondefense capital goods ³	75,132	70,600	67,861	6.4	4.0	-19.7	78,958	66,793	63,394	69,995	637,581	593,817	7.4
Excluding aircraft.....	66,259	65,132	64,258	1.7	1.4	1.3	70,130	63,651	59,278	65,116	576,494	554,985	3.9
Defense capital goods ⁴	11,300	11,012	11,777	2.6	-6.5	15.3	12,881	8,988	9,978	12,151	88,408	81,486	8.5
Consumer goods.....	199,035	197,434	195,183	0.8	1.2	0.3	202,996	206,759	187,189	190,624	1,754,934	1,638,702	7.1
Consumer durable goods.....	37,422	37,684	36,776	-0.7	2.5	-1.6	39,268	40,211	30,015	40,543	336,793	343,453	-1.9
Consumer nondurable goods.....	161,613	159,750	158,407	1.2	0.8	0.8	163,728	166,548	157,174	150,081	1,418,141	1,295,249	9.5
UNFILLED ORDERS													
All manufacturing industries ⁵	1,134,990	1,132,326	1,132,365	0.2	0.0	-0.3	1,126,005	1,126,322	1,134,728	1,110,279	(X)	(X)	1.4
Construction materials and supplies.....	53,566	53,011	52,642	1.0	0.7	0.8	53,438	53,287	53,749	49,599	(X)	(X)	7.7
Information technology.....	119,693	119,112	119,027	0.5	0.1	-0.1	119,262	117,866	119,278	115,612	(X)	(X)	3.2
Computers and related products.....	1,920	1,886	1,856	1.8	1.6	2.3	1,920	1,886	1,856	1,667	(X)	(X)	15.2
Motor vehicle and parts.....	23,992	23,835	23,777	0.7	0.2	-0.4	23,847	23,628	23,479	22,948	(X)	(X)	3.9
Capital goods.....	848,441	846,305	847,035	0.3	-0.1	-0.4	842,226	841,768	848,868	831,303	(X)	(X)	1.3
Nondefense capital goods ³	704,835	703,422	704,737	0.2	-0.2	-0.7	699,235	700,049	705,749	691,732	(X)	(X)	1.1
Excluding aircraft.....	227,798	226,922	226,570	0.4	0.2	0.1	226,087	225,939	227,531	220,269	(X)	(X)	2.6
Defense capital goods ⁴	143,606	142,883	142,298	0.5	0.4	1.0	142,991	141,719	143,119	139,571	(X)	(X)	2.5
Consumer goods.....	5,391	5,446	5,357	-1.0	1.7	1.6	5,247	5,186	5,171	5,056	(X)	(X)	3.8
Consumer durable goods.....	5,391	5,446	5,357	-1.0	1.7	1.6	5,247	5,186	5,171	5,056	(X)	(X)	3.8
TOTAL INVENTORIES													
All manufacturing industries.....	660,752	656,323	652,659	0.7	0.6	0.4	660,371	660,704	656,270	636,647	(X)	(X)	3.7
Construction materials and supplies.....	68,020	67,660	67,191	0.5	0.7	0.7	67,527	67,632	67,523	64,297	(X)	(X)	5.0
Information technology.....	38,532	38,490	38,385	0.1	0.3	0.1	38,188	39,502	38,869	37,257	(X)	(X)	2.5
Computers and related products.....	4,393	4,362	4,355	0.7	0.2	0.1	4,358	4,571	4,485	4,150	(X)	(X)	5.0
Motor vehicle and parts.....	35,152	34,751	34,773	1.2	-0.1	1.2	35,093	35,093	35,279	34,893	(X)	(X)	0.6
Capital goods.....	203,253	202,047	200,851	0.6	0.6	0.3	202,451	204,026	201,807	196,411	(X)	(X)	3.1
Nondefense capital goods ³	179,857	178,565	177,638	0.7	0.5	-0.1	179,120	180,581	178,490	175,160	(X)	(X)	2.3
Excluding aircraft.....	124,631	123,844	123,206	0.6	0.5	0.1	124,250	126,102	124,326	118,945	(X)	(X)	4.5
Defense capital goods ⁴	23,396	23,482	23,213	-0.4	1.2	3.5	23,331	23,445	23,317	21,251	(X)	(X)	9.8
Consumer goods.....	196,978	195,063	193,345	1.0	0.9	0.3	198,621	196,351	194,187	190,028	(X)	(X)	4.5
Consumer durable goods.....	29,848	29,703	29,596	0.5	0.4	0.4	30,045	30,301	29,887	29,298	(X)	(X)	2.5
Consumer nondurable goods.....	167,130	165,360	163,749	1.1	1.0	0.3	168,576	166,050	164,300	160,730	(X)	(X)	4.9

^x Not Applicable

^p Preliminary

^r Revised data due to late receipts and concurrent seasonal adjustment.

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

² Topical series are regroupings of the separate industry categories.

³ Nondefense capital goods industries include: small arms and ordnance; farm machinery and equipment; construction machinery; mining, oil, and gas field machinery; industrial machinery; vending, laundry, and other machinery; photographic equipment; metalworking machinery; turbines and generators; other power transmission equipment; pumps and compressors; material handling equipment; all other machinery; electronic computers; computer storage devices; other computer peripheral equipment; communications equipment; search and navigation equipment; 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.

⁴ Defense capital goods industries include: small arms and ordnance; communications equipment; aircraft; missiles, space vehicles, and parts; ships and boats; and search and navigation equipment.

⁵ Estimates and percent changes exclude semiconductor industry data.

⁶ Based on year-to-date for shipments and new orders, but on same month prior year for unfilled orders and inventories.

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

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

Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, September Full Report, November 3, 2017. 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 7. Ratios of Manufacturers' Inventories to Shipments and Unfilled Orders to Shipments, by Industry Group ¹

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

Industry	Inventory/Shipments ratio				Unfilled Orders/Shipments ratio ²			
	Sep 2017 ^p	Aug 2017 ^r	Jul 2017	Jun 2017	Sep 2017 ^p	Aug 2017 ^r	Jul 2017	Jun 2017
	All manufacturing industries ³	1.38	1.38	1.38	1.38	(X)	(X)	(X)
Durable goods industries ³	1.68	1.68	1.69	1.68	6.70	6.76	6.77	6.82
Wood products.....	1.27	1.29	1.31	1.30	(X)	(X)	(X)	(X)
Nonmetallic mineral products.....	1.27	1.27	1.27	1.25	(X)	(X)	(X)	(X)
Primary metals.....	1.72	1.70	1.72	1.72	1.56	1.56	1.57	1.56
Fabricated metal products.....	1.56	1.56	1.56	1.55	2.55	2.54	2.55	2.51
Machinery.....	2.17	2.19	2.21	2.20	3.51	3.59	3.64	3.60
Computers and electronic products ³	1.65	1.65	1.66	1.67	5.63	5.65	5.69	5.81
Electrical equipment, appliances, and components.....	1.76	1.76	1.77	1.74	2.43	2.45	2.46	2.42
Transportation equipment.....	1.65	1.65	1.65	1.64	14.66	14.89	14.62	14.90
Furniture and related products.....	1.20	1.18	1.18	1.20	1.68	1.68	1.71	1.71
Miscellaneous products.....	1.81	1.82	1.82	1.83	(X)	(X)	(X)	(X)
Nondurable goods industries.....	1.07	1.07	1.07	1.07	(X)	(X)	(X)	(X)
Food products.....	0.81	0.81	0.80	0.81	(X)	(X)	(X)	(X)
Beverage and tobacco products.....	1.84	1.78	1.78	1.76	(X)	(X)	(X)	(X)
Textiles.....	1.24	1.23	1.23	1.24	(X)	(X)	(X)	(X)
Textile products.....	1.55	1.57	1.55	1.53	(X)	(X)	(X)	(X)
Apparel.....	2.02	1.95	1.88	1.91	(X)	(X)	(X)	(X)
Leather and allied products.....	2.08	2.11	2.08	2.09	(X)	(X)	(X)	(X)
Paper products.....	0.96	0.96	0.98	0.98	(X)	(X)	(X)	(X)
Printing.....	0.87	0.86	0.86	0.86	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.86	0.86	0.85	0.85	(X)	(X)	(X)	(X)
Chemical products.....	1.28	1.28	1.28	1.28	(X)	(X)	(X)	(X)
Plastics and rubber products.....	1.30	1.30	1.28	1.26	(X)	(X)	(X)	(X)

^x Not Applicable

^p Preliminary

^r Revised data due to late receipts and concurrent seasonal adjustment.

² Excludes the following industries with no unfilled orders: Wood products; nonmetallic mineral products; medical equipment and supplies; office supplies; other miscellaneous manufacturing; cutlery and handtools; farm and garden machinery; computer storage and peripheral devices; audio and video equipment; manufacturing and reproducing magnetic and optical media; batteries; automobiles; light trucks and utility vehicles; heavy duty trucks; and miscellaneous furniture.

³ Unfilled orders to shipments ratio excludes semiconductor manufacturing.

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 3, 2017. Information on data sources and methodology can be found on our website at <www.census.gov/manufacturing/m3/how_the_data_are_collected/index.html>.

Table 8. Revisions to Previously Published Monthly Percent Changes ¹

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

Industry	Shipments		New Orders		Unfilled Orders		Inventories	
	Sep ² 2017	Sep ³ 2016- Aug 2017	Sep ² 2017	Sep ³ 2016- Aug 2017	Sep ² 2017	Sep ³ 2016- Aug 2017	Sep ² 2017	Sep ³ 2016- Aug 2017
	All manufacturing industries.....	(X)	0.2	(X)	0.3	(X)	0.1	(X)
Durable goods industries.....	-0.1	0.2	-0.2	0.4	0.0	0.1	0.0	0.1
Wood products.....	(X)	0.4	(X)	(NA)	(X)	(NA)	(X)	0.2
Nonmetallic mineral products.....	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.1
Primary metals.....	-0.8	0.3	-1.2	0.7	-0.1	0.4	0.2	0.3
Fabricated metal products.....	0.0	0.4	0.0	1.1	0.0	0.3	0.1	0.1
Machinery.....	0.4	0.4	0.3	0.6	-0.1	0.2	-0.1	0.1
Computers and electronic products.....	0.2	0.4	0.3	0.6	0.0	0.1	0.2	0.1
Electrical equipment, appliances, and components.....	-0.1	0.4	0.8	0.7	0.6	0.3	-0.1	0.2
Transportation equipment.....	-0.3	0.2	-0.4	1.0	0.0	0.1	0.0	0.1
Furniture and related products.....	(X)	0.3	(X)	0.8	(X)	0.4	(X)	0.2
Miscellaneous products.....	(X)	0.4	(X)	0.4	(X)	0.3	(X)	0.1
Nondurable goods industries.....	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.3
Food products.....	(X)	0.4	(X)	(NA)	(X)	(NA)	(X)	0.4
Beverage and tobacco products.....	(X)	0.4	(X)	(NA)	(X)	(NA)	(X)	0.2
Textiles.....	(X)	0.5	(X)	(NA)	(X)	(NA)	(X)	0.2
Textile products.....	(X)	0.7	(X)	(NA)	(X)	(NA)	(X)	0.3
Apparel.....	(X)	1.1	(X)	(NA)	(X)	(NA)	(X)	0.6
Leather and allied products.....	(X)	0.6	(X)	(NA)	(X)	(NA)	(X)	0.3
Paper products.....	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.2
Printing.....	(X)	0.4	(X)	(NA)	(X)	(NA)	(X)	0.2
Petroleum and coal products.....	(X)	0.7	(X)	(NA)	(X)	(NA)	(X)	1.9
Chemical products.....	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.1
Plastics and rubber products.....	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.2

^X Not Applicable

^{NA} Not Available

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

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

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

Note: Estimates of manufacturers' shipments, inventories and orders are subject to survey error and revision. One major component of survey 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 3, 2017. 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>.