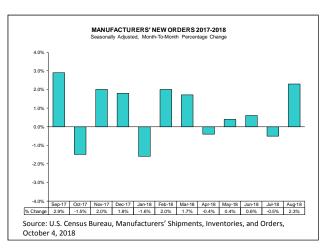
FOR RELEASE AT 10:00 AM EDT, THURSDAY, OCTOBER 4, 2018

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

Release Number: CB 18-153 M3-2 (18)-08

October 4, 2018 — The U.S. Census Bureau announces the August full report on manufacturers' shipments, inventories and orders:





Summary

New orders for manufactured goods in August, up three of the last four months, increased \$11.5 billion or 2.3 percent to \$510.5 billion, the U.S. Census Bureau reported today. This followed a 0.5 percent July decrease. Shipments, up fifteen of the last sixteen months, increased \$2.3 billion or 0.5 percent to \$504.0 billion. This followed a virtually unchanged July increase. Unfilled orders, up nine of the last ten months, increased \$10.4 billion or 0.9 percent to \$1,176.5 billion. This followed a 0.1 percent July increase. The unfilled orders-to-shipments ratio was 6.68, down from 6.72 in July. Inventories, down following twenty-one consecutive monthly increases, decreased \$0.5 billion or 0.1 percent to \$675.6 billion. This followed a 0.9 percent July increase. The inventories-to-shipments ratio was 1.34, down from 1.35 in July.

New Orders

New orders for manufactured durable goods in August, up two of the last three months, increased \$11.0 billion or 4.4 percent to \$259.6 billion, down from the previously published 4.5 percent increase. This followed a 1.2 percent July decrease. Transportation equipment, also up two of the last three months, drove the increase, \$11.1 billion or 13.1 percent to \$95.4 billion. New orders for manufactured nondurable goods increased \$0.6 billion or 0.2 percent to \$250.9 billion.

Data Inquiries

Economic Indicators Division, Shipments, Inventories, and Orders Branch (M3) 301-763-4832

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Shipments

Shipments of manufactured durable goods in August, up three of the last four months, increased \$1.8 billion or 0.7 percent to \$253.1 billion, down from the previously published 0.8 percent increase. This followed a 0.1 percent July decrease. Transportation equipment, up two of the last three months, led the increase, \$1.7 billion or 2.0 percent to \$86.2 billion. Shipments of manufactured nondurable goods, up fourteen of the last fifteen months, increased \$0.6 billion or 0.2 percent to \$250.9 billion. This followed a 0.1 percent July increase. Chemical products, up three of the last four months, led the increase, \$0.3 billion or 0.4 percent to \$65.4 billion.

Unfilled Orders

Unfilled orders for manufactured durable goods in August, up nine of the last ten months, increased \$10.4 billion or 0.9 percent to \$1,176.5 billion, unchanged from the previously published increase. This followed a 0.1 percent July increase. Transportation equipment, up six of the last seven months, led the increase, \$9.2 billion or 1.2 percent to \$811.0 billion.

Inventories

Inventories of manufactured durable goods in August, down following nineteen consecutive monthly increases, decreased \$1.4 billion or 0.3 percent to \$407.2 billion, up from the previously published 0.4 decrease. This followed a 1.3 percent July increase. Transportation equipment, down two of the last three months, drove the decrease, \$1.8 billion or 1.4 percent to \$129.4 billion. Inventories of manufactured nondurable goods, up fourteen consecutive months, increased \$0.8 billion or 0.3 percent to \$268.4 billion. This followed a 0.3 percent July increase. Petroleum and coal products, up four of the last five months, led the increase, \$0.5 billion or 1.1 percent to \$42.7 billion. By stage of fabrication, August materials and supplies increased 0.3 percent in durable goods and increased 0.4 percent in nondurable goods. Work in process decreased 1.1 percent in durable goods and increased 0.3 percent in nondurable goods. Finished goods were virtually unchanged in durable goods and increased 0.2 percent in nondurable goods.

The Advance Report on durable goods for September is scheduled for release on October 25, 2018 at 8:30 a.m. EDT and the Full Report on November 2, 2018 at 10:00 a.m. EDT. 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>.

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.

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U.S. Department of Commerce **Economics and Statistics Administration** U.S. CENSUS BUREAU census.gov





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-tomonth changes of the total operations of the reporting units in the M3 panel effectively represent the monthto-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>.

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/>.

Data Inquiries

Economic Indicators Division, Shipments, Inventories, and Orders Branch (M3) 301-763-4832 eid.m3.qs@census.gov



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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Data Inquiries

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Table 1. Value of Manufacturers' Shipments for Industry Groups¹

LESTIMATES are snown in millions of doi	ollars and are based on data from the Manufacturers' Seasonally Adjusted						Snipment	s, invento		Seasonally A				
		Monthly		_	cent Cha	nge		Mor	nthly			Year to date		
Industry	Aug. 2018 ^p	July 2018 ^r	June 2018	July - Aug.	June - July	May - June	Aug. 2018 ^p	July 2018 ^r	June 2018	Aug. 2017	2018 ^p	2017	% Change 2018/ 2017	
All manufacturing industries	504,009	501,661	501,641	0.5	0.0	1.0	528,427	482,868	525,660	489,567	3,968,840	3,689,044	7.6	
Excluding transportation	417,797	417,161	415,989	0.2	0.3	0.4	435,806	412,040	433,348	404,975	3,300,809	3,058,779	7.9	
Excluding defense	490,287 176,206	488,076 173,442	488,288 175,466	0.5 1.6	0.0 -1.2	1.1 0.9	514,738 184,450	470,970 161,449	511,206 189,848	477,176 170,533	3,865,467 1,380,446	3,594,915 1,282,742	7.5 7.6	
Durable goods industries	253,094	251,307	251,528	0.7	-0.1	1.7	267,248	232,167	269,575	247,126	1,983,757	1,849,525	7.3	
Wood products Nonmetallic mineral products	9,521 10,957	9,524 10,959	9,466 10,929	0.0	0.6 0.3	0.6 0.5	10,231 12,453	9,764 11,411	10,303 11,796	9,616 11,818	76,278 87,414	73,046 83,933	4.4 4.1	
Primary metals	21,787	21,650	21,480	0.6		0.5	23,182	20,937	22,440	19,867	172,105	148,983	15.5	
Iron and steel mills	11,084	10,948	10,750	1.2	1.8	1.3	11,866	10,722	11,289	9,803	85,727	72,953	17.5	
Aluminum and nonferrous metals Ferrous metal foundries	9,316	9,309	9,367	0.1	-0.6	0.7	9,815	8,906	9,635	8,616	75,134	65,230	15.2	
Fabricated metal products	1,387 32,951	1,393 32,926	1,363 32,884	-0.4 0.1	2.2 0.1	-0.8 0.4	1,501 35,475	1,309 32,123	1,516 34,683	1,448 32,857	11,244 262,111	10,800 238,049	4.1 10.1	
Machinery	32,818	33,000	32,754	-0.6	0.8	0.5	33,157	31,219	35,455	31,200	261,136	242,256	7.8	
Farm machinery	2,440	2,614	2,665	-6.7	-1.9	2.4	2,224	2,485	2,706	2,057	21,424	17,695	21.1 13.1	
Construction machinery Mining, oil field, and	3,028	3,005	2,973	0.8	1.1	0.5	3,007	2,802	3,131	2,633	23,711	20,967	13.1	
gas field machinery	1,538	1,541	1,507	-0.2	2.3	-6.8	1,528	1,454	1,517	1,467	12,015	11,232	7.0	
Industrial machinery	2,652	2,729	2,652	-2.8	2.9	3.0	2,569	2,606	3,025	2,560	20,423	20,409	0.1 2.2	
Photographic equipment Ventilation, heating, air-conditioning,	521	605	554	-13.9	9.2	5.9	493	570	643	486	4,228	4,136	2.2	
and refrigeration equipment	3,879	3,916	3,916	-0.9	0.0	0.4	4,242	4,172	4,966	3,909	31,614	29,966	5.5	
Metalworking machinery	2,682	2,772	2,761	-3.2	0.4	2.8	2,713	2,512	2,884	2,691	21,599	19,936	8.3	
Turbines, generators, and other power transmission equipment	4,385	4,103	4,122	6.9	-0.5	-0.5	4,506	3,901	4,230	4,085	33,349	30,576	9.1	
Material handling equipment	2,732	2,691	2,687	1.5	0.1	-1.6	2,958	2,517	2,736	2,705	21,492	19,729	8.9	
Computers and electronic products ²	27,166	27,139	26,777	0.1	1.4	0.5	27,348	25,488	29,261	25,678	206,381	194,664	6.0	
Computer storage devices	843 311	840 343	781 263	0.4 -9.3	7.6 30.4	-2.4 -2.6	886 269	816 235	954 417	812 471	6,074 2,095	6,631 4,305	-8.4 -51.3	
Computer storage devices Other peripheral equipment	781	788	716	-9.3 -0.9	10.1	-2.6 -2.8	722	783	886	665	5,625	4,814	16.8	
Nondefense communications														
equipment Defense communications equipment	3,225 304	3,248 296	3,250 290	-0.7 2.7	-0.1 2.1	2.5 11.1	2,939 312	2,822 283	4,041 277	2,644 263	24,147 2,181	21,580	11.9 12.9	
Audio and video equipment	230	235	290 225	-2.1	4.4	-0.4	232	203 207	217	255 255	1,643	1,931 1,836	-10.5	
Electronic components	3,391	3,345	3,416		-2.1	-2.7	3,658	3,308	3,799	3,811	27,825	27,083	2.7	
Nondefense search and navigation	1 501	1 500	1 500	0.1	0.3	4.7	4 500	1 260	1 607	1 407	11.005	11 220	6.4	
equipment Defense search and navigation	1,531	1,532	1,528	-0.1	0.3	1.7	1,533	1,369	1,627	1,487	11,925	11,239	6.1	
equipment	2,786	2,751	2,715	1.3	1.3	-1.3	2,808	2,508	2,856	2,715	21,302	20,497	3.9	
Electromedical, measuring, and control instruments	9,508	9,524	9,243	-0.2	3.0	2.3	9,282	8,864	10,331	8,188	70,781	62,451	13.3	
Electrical equipment, appliances,	3,300	3,324	3,243	-0.2	3.0	2.5	3,202	0,004	10,551	0,100	70,701	02,431	10.0	
and components	11,424	11,322	11,258	0.9	0.6	0.2	12,063	10,884	12,080	11,241	89,305	84,550	5.6	
Electric lighting equipment Household appliances	1,054 1,742	1,045 1,718	1,068 1,708	0.9 1.4	-2.2 0.6	-2.1 1.8	1,103 1,831	1,027 1,573	1,068 1,824	1,114 1,806	8,367 13,383	8,519 13,830	-1.8 -3.2	
Electrical equipment	3,141	3,150	3,088	-0.3	2.0	0.6	3,276	2,916	3,514	3,048	24,800	23,813	4.1	
Batteries	929	970	949	-4.2	2.2	-0.8	996	882	906	1,027	7,176	6,944	3.3	
Transportation equipment Automobiles	86,212 8,564	84,500 8,563	85,652 8,781	2.0 0.0	-1.3 -2.5	4.2 -1.3	92,621 9,589	70,828 6,437	92,312 9,309	84,592 11,160	668,031 72,869	630,265 79,155	6.0 -7.9	
Light trucks and utility vehicles	20,989	21,712	19,809	-3.3		13.1	23,462	17,280	20,235	17,883	153,642	129,183	18.9	
Heavy duty trucks	2,810	2,797	2,741	0.5	2.0	11.7	2,951	2,809	3,005	2,725	21,647	18,849	14.8	
Motor vehicle bodies, parts, and trailers	27,426	27,199	26,907	0.8	1.1	1.2	29,869	23,479	28,337	27,894	216,744	206.608	4.9	
Nondefense aircraft and parts	12,597	10,660	14,167	18.2	-24.8	5.7	12,810	9,237	16,825	12,595	99,380	100,275	-0.9	
Defense aircraft and parts	4,672	4,739	4,332	-1.4	9.4	-5.0	4,671	4,017	5,022	4,397	34,304	33,131	3.5	
Ships and boats Furniture and related products	2,726 6,557	2,798 6,532	2,900 6.521			2.3 -1.6	2,626 7,175	2,562 6.569	3,122 6,612	2,558 7,019	22,098 52,275	21,117 50,376	4.6 3.8	
Miscellaneous durable goods	13,701	13,755	13,807	-0.4	-0.4	0.2	13,543	12,944	14,633	13,238	108,721	103,403	5.1	
Nondurable goods industries	250,915	250,354	250,113	0.2	0.1	0.4	261,179	250,701	256,085	242,441	1,985,083	1,839,519	7.9	
Food products	67,506	67,509	67,583	0.0	-0.1	-0.3	68,606	65,177	67,095	68,573	533,338	523,736	1.8	
Grain and oilseed milling	7,938	7,956	7,957	-0.2	0.0	-0.3 -1.7	8,100	7,626	7,531	7,858	62,428	523,736	6.8	
Dairy products	9,366	9,400	9,474	-0.4	-0.8	-2.0	9,570	9,281	9,330	9,852	75,224	76,905	-2.2	
Meat, poultry, and seafood products Beverage and tobacco products	19,398	19,385	19,489	0.1	-0.5	-0.3 1.1	19,838	19,276 12,697	20,419 13,260	20,038 12,870	155,408 100,236	153,733 100,409	1.1 -0.2	
Beverages	12,972 8,829	12,700 8,824	12,557 8,697	2.1 0.1	1.1 1.5	-0.7	13,513 9,370	8,821	9,400	8,874	69,742	69,930	-0.2	
Tobacco	4,143	3,876	3,860	6.9	0.4	5.5	4,143	3,876	3,860	3,996	30,494	30,479	0.0	
Textile mills	2,531	2,532	2,519	0.0 0.3	0.5	0.8 0.2	2,701	2,494	2,670	2,588	20,278	19,729	2.8	
Textile products	2,302 970	2,295 960	2,257 976	1.0	1.7 -1.6	1.3	2,428 1,087	2,336 989	2,452 924	2,183 1,003	18,281 7,408	17,025 6,935	7.4 6.8	
Leather and allied products	423	422	423	0.2	-0.2	1.9	426	418	445	410	3,344	3,332	0.4	
Paper products	16,283 6,668	16,134 6,678	16,038	0.9 -0.1	0.6 2.5	-0.5 -0.9	17,098 6,991	16,126 6,790	16,291 6.530	16,201 6 784	128,667 52,641	121,413 50,994	6.0 3.2	
Pulp, paper, and paperboard mills Paperboard containers	5,648	5,490	6,513 5,541	-0.1 2.9	-0.9	-0.9 -0.8	6,991	6,790 5,444	6,530 5,689	6,784 5,758	52,641 44,683	50,994 42,579	3.2 4.9	
Printing	6,633	6,686	6,675	-0.8	0.2	1.5	6,886	6,369	6,525	6,702	51,909	51,380	1.0	
Petroleum and coal products	56,059	56,106	55,932	-0.1	0.3	1.2	60,138	59,913	57,596	47,494	438,345	342,258	28.1	
Petroleum refineries Chemical products	51,971 65,442	52,038 65,163	51,924 65,354	-0.1 0.4	0.2 -0.3	1.0 0.6	55,110 67,349	55,216 64,255	53,061 67,765	43,015 64,024	406,158 523,017	312,622 496,664	29.9 5.3	
Pesticides, fertilizers, and other														
agricultural chemicals	2,860	2,751	2,909	4.0	-5.4	13.4	2,554	2,380	3,222	1,915	22,469	20,228	11.1	
Pharmaceuticals and medicines Paints, coatings, and adhesives	21,452 3,805	21,292 3,759	21,196 3,817	0.8 1.2	0.5 -1.5	1.2 -1.0	22,096 4,176	20,689 3,893	21,518 4,117	20,797 3,935	167,497 31,532	153,266 29,271	9.3 7.7	
Plastics and rubber products	19,794	19,847	19,799	-0.3	0.2	0.3	20,947	19,927	21,062	20,393	160,260	156,638	2.3	
												l		

^p Preliminary

Revised data due to late receipts and concurrent seasonal adjustment.

Testimates of shipments and new orders are for the duration of the period, while estimates of 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 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/how_the_data_are_collected/index.html>.

Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, August Full Report, October 4, 2018. Information on data sources and methodology can be found on our website at https://www.census.gov/manufacturing/m3/how_the_data_are_collected/index.html>.

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

		,	Seasonally		lanufactu		Not Seasonally Adjusted							
		Monthly		Per	cent Chan	ge		Mon	thly		Year to date			
Industry	Aug. 2018 ^p	July 2018 ^r	June 2018	July - Aug.	June - July	May - June	Aug. 2018 ^p	July 2018 ^r	June 2018	Aug. 2017	2018 ^p	2017	% Change 2018/ 2017	
All manufacturing industries ²	510,466	498,925	501,612	2.3	-0.5	0.6	525,527	477,354	528,244	476,236	3,972,062	3,658,902	8.6	
Excluding transportation ²	415,019	414,532	414,030	0.1	0.1	0.4	429,235	408,497	429,703	398,653	3,287,832	3,043,641	8.0	
Excluding defense ²	491,981	485,507	486,712	1.3	-0.2	0.9	510,123	467,329	508,238	466,865	3,863,391	3,570,405	8.2	
With unfilled orders ²	186,627	174,663	179,563	6.8	-2.7	-0.3	185,941	159,968	196,096	161,367	1,414,500	1,283,373	10.2	
Durable goods industries ²	259,551	248,571	251,499	4.4	-1.2	0.9	264,348	226,653	272,159	233,795	1,986,979	1,819,383	9.2	
Primary metals	22,048	21,876	21,892	0.8	-0.1	-0.2	22,563	21,284	22,737	19,551	175,198	150,126	16.7	
Iron and steel mills	11,177	11,123	10,912	0.5	1.9	0.2	11,347	10,957	11,492	9,765	88,285	73,997	19.3	
Aluminum and nonferrous metals	9,410	9,320	9,570	1.0			9,650	8,970	9,738	8,326	75,474	65,098	15.9	
Ferrous metal foundries	1,461	1,433	1,410	2.0	1.6		1,566	1,357	1,507	1,460	11,439	11,031	3.7	
Fabricated metal products	33,546	33,391	33,253	0.5	0.4	-0.6	35,233	32,469	34,468	32,523	269,955	243,942	10.7	
Machinery Construction machinery Mining, oil field, and	32,965 3,176	33,227 3,036	33,087 2,942	-0.8 4.6	0.4 3.2	0.3 -2.0	33,156 3,181	31,661 2,567	34,917 2,897	31,308 2,740	264,654 23,783	248,455 22,095	6.5 7.6	
gas field machinery	1,493	1,545	1,343	-3.4	15.0	-10.0	1,537	1.448	1,272	1,515	11,738	11,281	4.1	
Industrial machinery	2,642	2,554	2,668	3.4	-4.3		2,515	2,460	3,017	2,562	20,405	20,744	-1.6	
Photographic equipment	488	624	568	-21.8	9.9		475	633	533	308	3,916	3,873	1.1	
Ventilation, heating, air-conditioning,	0.005	4.004	0.000	4.0	4.7		4.070	4.005	4.045	0.000	00 507	00.000	7.4	
and refrigeration equipment Metalworking machinery	3,985 2,648	4,064 2,544	3,996 2,639	-1.9 4.1	1.7 -3.6	-4.4 -2.3	4,276 2,666	4,295 2,352	4,945 2,660	3,869 2,691	32,537 21,714	30,393 20,412		
Turbines, generators, and other	_,	_,	_,				_,,,,,	_,	_,	_,	,		-	
power transmission equipment	4,328	4,136	3,990	4.6	3.7	-0.7	4,473	4,106	4,190	3,987	33,134	30,952	7.0	
Material handling equipment	2,876	3,020	3,080	-4.8	-1.9	7.4	2,917	2,814	3,202	2,695	22,889	21,034	8.8	
Computers and electronic products ²	23,386	23,467	23,271	-0.3	0.8	0.8	22,240	21,168	25,875	20,484	177,685	164,936	7.7	
Computers	865	855	784	1.2	9.1	-3.1	908	831	957	840	6,251	6,815	-8.3	
Nondefense communications														
equipment	3,341	3,331	3,462	0.3	-3.8		2,888	2,769	4,053	2,650	25,095	23,197	8.2	
Defense communications equipment	318	302	270	5.3	11.9		329	267	305	262	2,227	2,008	10.9	
Electronic components	3,343	3,429	3,587	-2.5	-4.4	-0.7	3,567	3,546	3,729	3,895	28,560	27,558	3.6	
Nondefense search and navigation														
equipment	1,568	1,603	1,553	-2.2	3.2	-3.8	1,569	1,411	1,701	1,486	12,512	11,729	6.7	
Defense search and navigation equipment	2,882	2,796	2,854	3.1	-2.0	5.9	2,642	2,295	3,095	2,246	20,918	19,225	8.8	
Electromedical, measuring,	2,002	2,790	2,004	3.1	-2.0	5.9	2,042	2,293	3,095	2,240	20,910	19,223	0.0	
and control instruments	9,455	9,505	9,333	-0.5	1.8	2.0	8,798	8,564	10,323	7,512	70,808	61,925	14.3	
Electrical equipment, appliances,	5,466	3,000	0,000	0.0	1.0	2.0	0,700	0,004	10,020	7,012	70,000	01,020	14.0	
and components	11,494	11,472	11,508	0.2	-0.3	1.5	12,027	10,719	12,164	11,157	90,048	84,884	6.1	
Electric lighting equipment	1,048	1,048	1,119	0.0	-6.3	7.8	1,077	1,010	1,155	1,091	8,431	8,650	-2.5	
Household appliances	1,720	1,696	1,757	1.4	-3.5	3.1	1,809	1,506	1,817	1,860	13,551	13,905	-2.5	
Electrical equipment	3,140	3,157	3,111	-0.5	1.5	0.8	3,246	2,948	3,421	3,038	24,735	23,721	4.3	
Transportation equipment Motor vehicle bodies, parts,	95,447	84,393	87,582	13.1	-3.6		96,292	68,857	98,541	77,583	684,230	615,261	11.2	
and trailers	27,558	27,292	26,873	1.0	1.6		30,382	23,155	27,655	28,072	216,840	207,434	4.5	
Nondefense aircraft and parts	17,101	10,110	14,257	69.1	-29.1	1.3	14,219	8,742	18,025	8,150	109,226	91,317	19.6	
Defense aircraft and parts	5,186 3,507	4,433 2,944	6,549 2,205	17.0	-32.3 33.5	19.8 -31.2	3,905 2,384	3,566	8,694	3,180	34,062	34,913	-2.4	
Ships and boats Furniture and related products	3,507 6,494	2,944 6,507	2,205 6,696	19.1 -0.2	33.5 -2.8		2,384 6,618	1,569 6,376	4,005 6,717	1,206 6,506	24,048 52,768	16,203 51,345	48.4 2.8	
Nondurable goods industries	250,915	250,354	250,113	0.2		0.4	261,179	250,701	256,085	242,441	1,985,083	1,839,519		

^p Preliminary

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/s.

Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, August Full Report, October 4, 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>.

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.

Table 3. Value of Manufacturers' Unfilled Orders for Industry Groups¹

-			Seasonally A	djusted				Not S	easonally Adj	usted	
		Monthly		Pe	rcent Chan	ge		Mor	nthly		% Change
Industry	Aug. 2018 ^p	July 2018 ^r	June 2018	July - Aug.	June - July	May - June	Aug. 2018 ^p	July 2018 ^r	June 2018	Aug. 2017	August 2018/ 2017
All manufacturing industries ²	1,176,482	1,166,061	1,164,840	0.9	0.1	0.4	1,170,466	1,168,975	1,170,456	1,115,298	4.9
Excluding transportation ²	365,499	364,313	362,985	0.3	0.4	0.6	364,428	366,608	366,118	345,319	5.5
Excluding defense ²	989,302	983,644	982,256	0.6	0.1	0.3	984,987	985,211	984,819	937,967	5.0
Durable goods industries ²	1,176,482	1,166,061	1,164,840	0.9	0.1	0.4	1,170,466	1,168,975	1,170,456	1,115,298	4.9
Primary metals	31,333	31,072	30,846	0.8	0.7	1.4	30,971	31,590	31,243	27,018	
Iron and steel mills	16,855	16,762	16,587	0.6	1.1	1.0	16,776	17,295	17,060	13,898	20.7
Aluminum and nonferrous metals	11,127	11,033	11,022	0.9	0.1	1.9	10,846	11,011	10,947	10,025	8.2
Ferrous metal foundries	3,351	3,277	3,237	2.3	1.2	1.5	3,349	3,284	3,236	3,095	
Fabricated metal products	84,765	84,170	83,705	0.7	0.6	0.4	85,218	85,460	85,114	77,590	9.8
Machinery	104,828	104,681	104,454	0.1	0.2	0.3	104,855	104,856	104,414	102,106	2.7
Construction machinery	6,328	6,180	6,149	2.4	0.5	-0.5	6,070	5,896	6,131	5,809	4.5
gas field machinery	4,292	4,337	4,333	-1.0	0.1	-3.6	4,262	4,253	4,259	4,555	-6.4
Industrial machinery	8,400	8,410	8,585	-0.1	-2.0	0.2	8,448	8,502	8,648	8,825	-4.3
Photographic equipmentVentilation, heating, air-conditioning,	1,610	1,643	1,624	-2.0	1.2	0.9	1,518	1,536	1,473	1,432	6.0
and refrigeration equipment	7,070	6,964	6,816	1.5	2.2	1.2	7,034	7,000	6,877	5,950	18.2
Metalworking machinery Turbines, generators, and other	7,789	7,823	8,051	-0.4	-2.8	-1.5	7,880	7,927	8,087	8,300	-5.1
power transmission equipment	29,439	29,496	29,463	-0.2	0.1	-0.4	29,605	29,638	29,433	30,437	-2.7
Material handling equipment	12,816	12,672	12,343	1.1	2.7	3.3	12,822	12,863	12,566	11,284	13.6
Computers and electronic products ²	115,492	115,308	115,023	0.2	0.2	0.5	114,606	115,323	115,610	110,529	3.7
Computers Nondefense communications	2,055	2,033	2,018	1.1	0.7	0.1	2,055	2,033	2,018	1,763	16.6
equipment	24,787	24,671	24,588	0.5	0.3	0.9	24,577	24,628	24,681	22,664	8.4
Defense communications equipment	1,450	1,436	1,430	1.0	0.4	-1.4	1,476	1,459	1,475	1,430	3.2
Electronic components Nondefense search and navigation	12,555	12,603	12,519	-0.4	0.7	1.4	12,557	12,648	12,410	11,587	8.4
equipment Defense search and navigation	19,665	19,628	19,557	0.2	0.4	0.1	19,660	19,624	19,582	18,974	3.6
equipment	27,073	26,977	26,932	0.4	0.2	0.5	26,821	26,987	27,200	27,445	-2.3
and control instruments Electrical equipment, appliances,	27,907	27,960	27,979	-0.2	-0.1	0.3	27,460	27,944	28,244	26,666	3.0
and components	19,926	19,856	19,706	0.4	0.8	1.3	19,775	19,811	19,976	18,982	4.2
Electric lighting equipment	1,405	1,411	1,408	-0.4	0.2	3.8	1,409	1,435	1,452	1,365	3.2
Household appliances	1,385	1,407	1,429	-1.6	-1.5	3.6	1,352	1,374	1,441	1,168	15.8
Electrical equipment	7,773	7,774	7,767	0.0	0.1	0.3	7,770	7.800	7,768	7,719	0.7
Transportation equipment	810,983	801,748	801,855	1.2	0.0	0.2	806,038	802,367	804,338	769,979	4.7
and trailers	26,830	26,698	26,605	0.5	0.3	-0.1	26,603	26,090	26,414	25,308	5.1
Nondefense aircraft and parts	606,116	601,612	602,162	0.7	-0.1	0.0	602,956	601,547	602,042	578,754	4.2
Defense aircraft and parts	72,587	72,073	72,379	0.7	-0.4	3.2	72,252	73,018	73,469	73,578	-1.8
Ships and boats	29,920	29,139	28,993	2.7	0.5	-2.3	29,004	29,246	30,239	24,314	19.3
Furniture and related products	8,524	8,587	8,612	-0.7	-0.3	2.1	8,372	8,929	9,122	8,460	
	2,32 .	2,20.	2,3.2	J.,	5.0	2	-,3.2	2,320	-,	2,100	

^p Preliminary

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 seasonally adjusted on the results of the latest annual review of the model parameters. Estimates are not adjusted for price changes.

as well as seasonal variation, based on the results of the latest annual review of the model parameters. Estimates are not adjusted for price changes.

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

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

Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, August Full Report, October 4, 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>.

Table 4. Value of Manufacturers' Inventories for Industry Groups¹

[Estimates are shown in millions of do	ollars and ar				s, Inventories, and Orders Survey.] Not Seasonally Adjusted						
		Monthly	Seasonally A		ercent Chan	~			easonally Adj hthly	ustea	% Change
Industry		Monthly		PE	ercent Chan	ge		IVIOI	itniy		% Change August
	Aug. 2018 ^p	July 2018 ^r	June 2018	July - Aug.	June - July	May - June	Aug. 2018 ^p	July 2018 ^r	June 2018	Aug. 2017	2018/ 2017
All manufacturing industries	675,610	676,154	670,214	-0.1	0.9	0.2	679,325	680,361	665,586	646,655	5.1
Excluding transportation	546,208	544,978	543,294	0.2	0.3	0.6	549,533	548,040	540,620	521,086	
Excluding defense	648,616	648,996	643,016	-0.1	0.9	0.2	652,397	652,923	638,283	619,440	5.3
With unfilled orders	330,929	332,490	327,658	-0.5	1.5	-0.1	333,919	336,057	325,683	318,774	4.8
Durable goods industries	407,201	408,559	403,440	-0.3	1.3	0.0	410,422	412,243	400,579	392,232	4.6
Wood products	12,269	12,243	12,188	0.2	0.5	0.7	12,149	12,087	11,965	11,614	4.6
Nonmetallic mineral products	14,514	14,499	14,391	0.1	0.8	1.0	14,426	14,575	14,546	13,705	5.3
Primary metals	35,574	35,554	35,264	0.1	0.8	1.5	35,916	35,987	35,115	32,695	9.9
Iron and steel mills	20,075	20,060	19,860	0.1	1.0	1.3	20,281	20,298	19,737	18,400	10.2
Aluminum and nonferrous metals Ferrous metal foundries	13,478 2,021	13,486 2,008	13,410 1,994	-0.1 0.6	0.6 0.7	1.7 0.9	13,611 2,024	13,668 2,021	13,398 1,980	12,378 1,917	10.0 5.6
Fabricated metal products	53,572	53,420	53,035	0.3	0.7	1.1	53,831	54,065	53,053	49,679	8.4
Machinery	68,756	68,421	68,344	0.5	0.1	0.5	69,624	68,735	67,755	66,635	4.5
Farm machinery	3,796	3,685	3,638	3.0	1.3	0.7	3,570	3,454	3,606	3,391	5.3
Construction machinery	5,418	5,496	5,508	-1.4	-0.2	-0.1	5,420	5,464	5,475	5,202	4.2
Mining, oil field, and gas field machinery	5,371	5,402	5,462	-0.6	-1.1	0.4	5,446	5,413	5,451	5,615	-3.0
Industrial machinery	8,564	8,453	8,355	1.3	1.2	1.0	8,665	8,396	8,334	8,006	
Photographic equipment	1,700	1,692	1,714	0.5	-1.3	-0.8	1,762	1,731	1,674	1,725	2.1
Ventilation, heating, air-conditioning,			,					-	,		<u>.</u> .
and refrigeration equipment Metalworking machinery	5,029 5,988	4,964 5,959	4,923 5,949	1.3 0.5	0.8 0.2	-0.5 1.5	5,070 6,084	5,005 5,986	4,936 5,868	4,949	2.4 5.0
Turbines, generators, and other	5,988	5,959	5,949	0.5	0.2	1.5	6,084	5,986	5,868	5,792	5.0
power transmission equipment	9,447	9,500	9,648	-0.6	-1.5	1.1	9,754	9,758	9,437	9,523	2.4
Material handling equipment	5,659	5,619	5,619	0.7	0.0	-0.2	5,858	5,767	5,651	5,505	6.4
Computers and electronic products ²	42,965	43,136	43,371	-0.4	-0.5	0.1	43,723	43,770	43,189	43,139	1.4
Computers	1,497	1,488	1,529	0.6	-2.7	0.1	1,551	1,531	1,546	1,545	0.4
Computer storage devices	1,016	1,027	1,047 1,147	-1.1	-1.9	-0.6 2.7	1,044	1,075	1,048	1,097	-4.8 1.2
Other peripheral equipment Nondefense communications	1,165	1,151	1,147	1.2	0.3	2.1	1,224	1,184	1,125	1,209	1.2
equipment	4,677	4,710	4,723	-0.7	-0.3	-1.0	4,818	4,729	4,687	4,799	0.4
Defense communications equipment	661	677	693	-2.4	-2.3	2.4	661	677	693	678	-2.5
Audio and video equipment	564	559	570	0.9	-1.9	2.7	594	560	542	612	-2.9
Electronic components	7,214	7,268	7,289	-0.7	-0.3	0.2	7,203	7,418	7,247	7,245	-0.6
Nondefense search and navigation equipment	2,547	2,571	2,571	-0.9	0.0	-0.3	2,598	2,615	2,555	2,624	-1.0
Defense search and navigation	2,547	2,571	2,571	-0.3	0.0	-0.5	2,550	2,013	2,333	2,024	-1.0
equipment	2,636	2,618	2,639	0.7	-0.8	1.0	2,646	2,671	2,649	2,613	1.3
Electromedical, measuring											
and control instruments	15,261	15,243	15,301	0.1	-0.4	0.0	15,622	15,473	15,222	15,059	3.7
Electrical equipment, appliances,	10 000	10 005	10 716	0.3	0.6	1.0	19,238	10 214	10.050	10.000	6.7
and components Electric lighting equipment	18,898 2,241	18,835 2,229	18,716 2,231	0.5	-0.1	-0.3	2,258	19,214 2,278	18,852 2,256	18,028 2,140	5.5
Household appliances	2,813	2,821	2,808	-0.3	0.5	-0.6	2,907	2,890	2,799	2,801	3.8
Electrical equipment	5,210	5,187	5,153	0.4	0.7	0.6	5,291	5,308	5,155	4,960	6.7
Batteries	1,839	1,841	1,863	-0.1	-1.2	0.6	1,926	1,911	1,919	1,888	2.0
Transportation equipment	129,402	131,176	126,920	-1.4	3.4	-1.4 3.5	129,792	132,321	124,966	125,569	3.4 4.7
Automobiles Light trucks and utility vehicles	4,147 4,738	4,095 4,625	4,097 4,626	1.3 2.4	0.0 0.0	-0.7	4,140 4,884	4,176 4,766	3,877 4,244	3,953 4,183	16.8
Heavy duty trucks	2,242	2,249	2,164	-0.3	3.9	1.1	2,271	2,303	2,224	1,988	14.2
Motor vehicle bodies, parts,	·	,	, -				,	,	,	,	
and trailers	25,480	25,522	25,539	-0.2	-0.1	0.7	25,698	25,818	25,113	23,978	
Nondefense aircraft and parts	65,268	66,910	62,838	-2.5	6.5	-3.6	65,069	67,085	61,898	63,407	2.6
Defense aircraft and parts	12,888 3,041	12,911 2,995	12,846 2,994	-0.2 1.5	0.5 0.0	0.6 3.1	12,930 2,995	12,943 3,036	12,843 3,037	13,181 3,038	-1.9 -1.4
Furniture and related products	7,891	7,891	7,887	0.0		-0.3	8,030	8,076		7,794	3.0
Miscellaneous durable goods	23,360	23,384	23,324	-0.1	0.3	-0.3	23,693	23,413	23,046	23,374	1.4
Nondurable goods industries	268,409	267,595	266,774	0.3	0.3	0.6	268,903	268,118	265,007	254,423	5.7
•											
Food products	54,007	54,090	54,455	-0.2	-0.7	-0.4	54,484	53,482	53,053	54,719	-0.4
Grain and oilseed milling Dairy products	5,403 7,489	5,378 7,544	5,362 7,588	0.5 -0.7	0.3 -0.6	-2.1 -0.2	5,197 7,656	5,130 7,804	5,232 7,836	5,250 7,919	-1.0 -3.3
Meat, poultry, and seafood products	9,260	9,297	9,259	-0.7	0.4	-0.2	9,427	9,373	9,110	9,297	1.4
Beverage and tobacco products	24,477	24,477	24,522	0.0	-0.2	-0.6	23,700	23,651	23,861	23,278	1.8
Beverages	19,920	19,876	19,872	0.2	0.0	-0.5	19,468	19,392	19,448	18,961	2.7
Tobacco	4,557	4,601	4,650	-1.0	-1.1	-1.0	4,232	4,259	4,413	4,317	-2.0
Textile mills Textile products	3,251 3,496	3,242 3,473	3,212 3,419	0.3 0.7	0.9	0.2 0.1	3,267 3,506	3,264 3,463	3,228 3,414	3,138 3,373	4.1 3.9
Apparel	1,917	1,919	1,898	-0.1	1.6 1.1	2.4	2,026	2,024	1,896	1,956	3.6
Leather and allied products	779	780	781	-0.1	-0.1	0.1	805	804	797	793	1.5
Paper products	16,114	16,088	15,995	0.2	0.6	0.6	16,152	16,202	15,871	15,729	2.7
Pulp, paper, and paperboard mills	6,523	6,515	6,526	0.1	-0.2	0.5	6,504	6,533	6,485	6,562	-0.9
Paperboard containers	5,135	5,117	5,033	0.4	1.7	0.6	5,116	5,130	4,958	4,772	7.2
Printing Petroleum and coal products	5,410 42,735	5,427 42,265	5,442 41,578	-0.3 1.1	-0.3 1.7	-0.5 1.3	5,529 42,850	5,447 43,043	5,406 41,680	5,515 34,801	0.3 23.1
Petroleum refineries	36,986	36,606	36,084	1.0	1.7	1.0	37,020	37,284	36,116	30,001	23.1
Chemical products	89,489	89,229	89,004	0.3	0.3	1.1	89,922	90,163	89,370	85,873	4.7
Pesticides, fertilizers, and other											
agricultural chemicals	4,613	4,613	4,587	0.0	0.6	-2.7	4,356	4,335	4,281	4,465	-2.4
Pharmaceuticals and medicines	36,553	36,444	36,380	0.3 0.5	0.2	1.1 -0.1	36,726	36,927	37,042	34,621	6.1 5.1
Paints, coatings, and adhesives Plastics and rubber products	3,906 26,734	3,888 26,605	3,883 26,468	0.5 0.5	0.1 0.5	-0.1 1.2	3,858 26,662	3,919 26,575	3,954 26,431	3,672 25,248	
	20,704	20,000	20,400	0.0	0.5	1.2	20,002	20,070	20,401	20,240	0.0

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

Testimates of shipments and new orders are for the duration of the period, while estimates of 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 Estimates of inventories for the semiconductor industry data are included in computers and electronic products, and all other applicable aggregate totals.

Estimates of internitions for the serincontroction industry data are inclouded in Computers and effections.

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/m3/5. Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, August Full Report, October 4, 2018. Information on data sources and methodology can be found on our website at https://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^{1, 2}

	Seasonally Adjusted						Not Seasonally Adjusted						
		Monthly		Per	cent Cha	inge		Mon	nthly		Year t	o date	
Industry	Aug. 2018 ^p	July 2018 ^r	June 2018	July - Aug.	June - July	May - June	Aug. 2018 ^p	July 2018 ^r	June 2018	Aug. 2017	2018 ^p	2017	% Change⁶ 2018/ 2017
SHIPMENTS													
All manufacturing industries	504,009	501,661	501,641	0.5	0.0	1.0	528,427	482,868	525,660	489,567	3,968,840	3,689,044	7.6
Construction materials and supplies Information technology Computers and related products Motor vehicle and parts	51,721 24,890 1,935 59,789	51,682 24,881 1,971 60,271	51,533 24,234 1,760 58,238	0.1 0.0 -1.8 -0.8	0.3 2.7 12.0 3.5	0.4 1.1 -2.6 5.0	57,184 24,649 1,877 65,871	53,191 23,203 1,834 50,005	56,072 27,209 2,257 60,886	53,382 22,434 1,948 59,662	413,592 187,531 13,794 464,902	388,143 172,388 15,750 433,795	
Capital goods Nondefense capital goods ³ Excluding aircraft Defense capital goods ⁴	88,823 77,189 68,692 11,634	86,619 75,135 68,801 11,484	89,741 78,277 68,008 11,464	2.5 2.7 -0.2 1.3	-3.5 -4.0 1.2 0.2	1.9 2.3 1.0 -0.7	89,583 77,989 69,063 11,594	80,297 70,150 64,912 10,147	98,632 86,421 73,927 12,211	83,519 73,188 64,934 10,331	689,946 601,759 535,333 88,187	641,063 562,857 497,646 78,206	6.9 7.6
Consumer goods Consumer durable goods Consumer nondurable goods	213,304 43,249 170,055	213,593 43,877 169,716	211,502 42,213 169,289	-0.1 -1.4 0.2	1.0 3.9 0.3	1.4 5.5 0.4	223,189 46,894 176,295	206,275 36,188 170,087	215,119 43,854 171,265	203,610 42,454 161,156	1,670,008 334,718 1,335,290	1,523,432 313,245 1,210,187	6.9
NEW ORDERS													
All manufacturing industries ⁵	510,466	498,925	501,612	2.3	-0.5	0.6	525,527	477,354	528,244	476,236	3,972,062	3,658,902	8.6
Construction materials and supplies Information technology Computers and related products Motor vehicle and parts	52,085 25,188 1,957 59,921	51,911 25,263 1,986 60,364	51,766 24,824 1,763 58,204	0.3 -0.3 -1.5 -0.7	0.3 1.8 12.6 3.7	-0.2 1.3 -2.9 5.0	56,757 24,047 1,899 66,384	53,310 22,628 1,849 49,681	55,813 27,544 2,260 60,204	53,037 21,038 1,976 59,840	419,841 189,196 13,971 464,998	392,603 172,915 15,934 434,621	9.4
Capital goods Nondefense capital goods ³ Excluding aircraft Defense capital goods ⁴	97,052 81,000 69,207 16,052	86,635 75,540 69,863 11,095	90,285 78,473 68,832 11,812	12.0 7.2 -0.9 44.7	-4.0 -3.7 1.5 -6.1	0.0 2.2 0.8 -12.6	91,118 77,720 68,329 13,398	78,652 70,230 65,224 8,422	102,194 86,576 73,588 15,618	75,634 67,648 63,533 7,986	706,220 614,331 541,403 91,889	636,713 564,693 504,534 72,020	8.8 7.3
Consumer goods	213,139 43,084 170,055	213,659 43,943 169,716	211,622 42,333 169,289	-0.2 -2.0 0.2	1.0 3.8 0.3	1.4 5.8 0.4	222,955 46,660 176,295	206,369 36,282 170,087	214,956 43,691 171,265	203,662 42,506 161,156	1,670,058 334,768 1,335,290	1,523,710 313,523 1,210,187	9.6 6.8 10.3
UNFILLED ORDERS													
All manufacturing industries ⁵	1,176,482	1,166,061	1,164,840	0.9	0.1	0.4	1,170,466	1,168,975	1,170,456	1,115,298	(X)	(X)	4.9
Construction materials and supplies Information technology Computers and related products Motor vehicle and parts	58,483 113,910 2,055 26,830	58,119 113,612 2,033 26,698	57,890 113,230 2,018 26,605	0.6 0.3 1.1 0.5	0.4 0.3 0.7 0.3	0.4 0.5 0.1 -0.1	58,820 112,811 2,055 26,603	59,247 113,413 2,033 26,090	59,128 113,988 2,018 26,414	52,586 109,104 1,763 25,308	(X) (X) (X) (X)	(X) (X) (X) (X)	3.4 16.6
Capital goods Nondefense capital goods ³ Excluding aircraft Defense capital goods ⁴	870,072 718,487 221,246 151,585	861,843 714,676 220,731 147,167	861,827 714,271 219,669 147,556	1.0 0.5 0.2 3.0	0.0 0.1 0.5 -0.3	0.1 0.0 0.4 0.2	865,367 715,384 220,560 149,983	863,832 715,653 221,294 148,179	865,477 715,573 220,982 149,904	834,364 692,108 214,472 142,256	(X) (X) (X) (X)	(X) (X) (X) (X)	3.4 2.8
Consumer goodsConsumer durable goods	5,076 5,076	5,241 5,241	5,175 5,175	-3.1 -3.1	1.3 1.3	2.4 2.4	4,861 4,861	5,095 5,095	5,001 5,001	4,844 4,844	(X) (X)	(X) (X)	
TOTAL INVENTORIES													
All manufacturing industries	675,610	676,154	670,214	-0.1	0.9	0.2	679,325	680,361	665,586	646,655	(X)	(X)	5.1
Construction materials and supplies Information technology Computers and related products Motor vehicle and parts	72,500 38,765 3,678 36,607	72,294 38,737 3,666 36,491	71,664 38,840 3,723 36,426	0.3 0.1 0.3 0.3	0.9 -0.3 -1.5 0.2	0.9 0.5 0.7 0.8	72,571 39,626 3,819 36,993	72,807 39,315 3,790 37,063	71,749 38,703 3,719 35,458	67,403 38,443 3,851 34,102	(X) (X) (X) (X)	(X) (X) (X) (X)	3.1 -0.8
Capital goods Nondefense capital goods ³ Excluding aircraft Defense capital goods ⁴	200,161 177,531 124,202 22,630	201,630 178,814 123,886 22,816	197,785 174,904 123,700 22,881	-0.7 -0.7 0.3 -0.8	1.9 2.2 0.2 -0.3	-0.6 -1.0 0.4 1.9	201,972 179,450 126,294 22,522	203,374 180,310 125,182 23,064	196,893 173,904 123,231 22,989	195,500 172,772 121,431 22,728	(X) (X) (X) (X)	(X) (X) (X) (X)	3.9 4.0
Consumer goods	202,708 30,423 172,285	202,086 30,281 171,805	201,694 30,217 171,477	0.3 0.5 0.3	0.2 0.2 0.2	0.3 0.2 0.4	203,430 30,959 172,471	202,286 30,514 171,772	199,369 29,333 170,036	191,925 29,636 162,289	(X) (X) (X)	(X) (X) (X)	6.0 4.5 6.3

^X Not Applicable

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.

²Topical 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.

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, August Full Report, October 4, 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>.

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

[Estimates are shown in millions of do		- 22504 011	Seasonally A				,				
		Monthly		-	rcent Chan	ge			easonally Adj nthly		% Change
Industry	Aug. 2018 ^p	July 2018 ^r	June 2018	July - Aug.	June - July	May - June	Aug. 2018 ^p	July 2018 ^r	June 2018	Aug. 2017	August 2018/ 2017
MATERIALS AND SUPPLIES											
All manufacturing industries	233,226	232,388	230,394	0.4	0.9	1.0	234,169	234,055	229,287	219,333	6.8
Durable goods industries	141,039	140,596	139,681	0.3	0.7	1.2	142,493	141,964	138,994	132,968	7.2
Wood products	5,081	5,068	5,088 5,929	0.3	-0.4	0.5	5,110	4,996	4,881	4,857	5.2
Nonmetallic mineral products Primary metals	5,935 12,908	5,946 12,828	5,929 12,623	-0.2 0.6	0.3 1.6	0.5 1.2	5,937 13,092	5,955 12,897	5,955 12,488	5,508 12,139	7.8 7.9
Fabricated metal products	20,327	20,343	19,978	-0.1	1.8	2.2	20,525	20,632	19,953	18,525	10.8
Machinery Computers and electronic products	27,010 18,795	26,851 18,667	26,785 18,527	0.6 0.7	0.2 0.8	0.8 0.5	27,391 18,907	27,176 18,880	26,820 18,475	25,078 17,133	9.2 10.4
Electrical equipment, appliances,					0.0						
and components Transportation equipment	8,005 31,160	7,936 31,220	7,837 31,291	0.9 -0.2	1.3 -0.2	1.7 1.9	8,089 31,442	8,058 31,522	7,880 30,892	7,260 30,888	11.4 1.8
Furniture and related products	3,878	3,898	3,854	-0.5	1.1	1.1	3,914	3,939	3,896	3,815	2.6
Miscellaneous products	7,940	7,839	7,769	1.3	0.9	-0.1	8,086	7,909	7,754	7,765	4.1
Nondurable goods industries	92,187	91,792	90,713	0.4	1.2	0.6	91,676	92,091	90,293	86,365	6.1
Food products Beverage and tobacco products	17,788 5,823	17,915 5,786	17,918 5,798	-0.7 0.6	0.0 -0.2	-0.3 -2.2	17,545 5,592	17,773 5,546	17,629 5,621	18,381 5,553	-4.5 0.7
Textiles	1,152	1,153	1,130	-0.1	2.0	0.3	1,166	1,163	1,138	1,091	6.9
Textile products	1,315 501	1,319 497	1,313 496	-0.3 0.8	0.5 0.2	0.0 1.8	1,319 511	1,320 511	1,318 496	1,298 487	1.6 4.9
Leather and allied products	265	265	265	0.0	0.0	3.1	272	274	268	241	12.9
Paper products	8,230 2,793	8,206 2,792	8,137 2,760	0.3 0.0	0.8 1.2	1.2 -0.9	8,240 2,823	8,238 2.815	8,008 2,742	7,768 2,727	6.1 3.5
Petroleum and coal products	12,381	12,232	11,782	1.2	3.8	-0.6	12,097	12,402	12,011	9,452	28.0
Chemical products	30,665	30,409	30,025	0.8 0.5	1.3 1.2	1.8 1.1	30,765	30,767	30,033	28,881	6.5 8.2
Plastics and rubber products	11,274	11,218	11,089	0.5	1.2	1.1	11,346	11,282	11,029	10,486	0.2
WORK IN PROCESS	007.404	000 707	004 700				007.000	040440	000 704	400.004	
All manufacturing industries	207,181	208,787	204,760	-0.8	2.0	-0.6	207,822	210,116	202,781	196,281	5.9
Durable goods industries	151,516 2,292	153,266 2,284	149,126 2,264	-1.1 0.4	2.8 0.9	-1.3 1.0	152,378 2,247	154,671 2,242	147,993 2,250	145,582 1,936	4.7 16.1
Wood products Nonmetallic mineral products	1,552	1,540	1,524	0.4	1.0	1.3	1,546	1,551	1,548	1,530	1.0
Primary metals	10,662	10,669	10,686	-0.1	-0.2	2.9	10,896	10,907	10,775	9,522	14.4
Fabricated metal products	13,763 19,090	13,769 19,004	13,878 19,050	0.0 0.5	-0.8 -0.2	0.2 0.9	13,884 19,530	13,903 19,094	13,841 18,687	12,946 18,405	7.2 6.1
Computers and electronic products	12,692	12,778	12,923	-0.7	-1.1	-0.4	12,862	12,994	13,034	13,504	-4.8
Electrical equipment, appliances, and components	3,984	3,989	3,948	-0.1	1.0	1.4	4,056	4,081	4,007	3,726	8.9
Transportation equipment	82,298	84,094	79,714	-2.1	5.5	-3.1	82,106	84,729	78,736	79,182	3.7
Furniture and related products Miscellaneous products	1,419 3,764	1,386 3,753	1,422 3,717	2.4 0.3	-2.5 1.0	-1.1 -0.2	1,432 3,819	1,401 3,769	1,438 3,677	1,297 3,534	10.4 8.1
Nondurable goods industries	55,665	55,521	55,634	0.3	-0.2	1.3	55,444	55,445	54,788	50,699	9.4
Food products	6,114	6,164	6,445	-0.8	-0.2 -4.4	2.9	5,509	5,642	5,820	5,322	3.5
Beverage and tobacco products	9,449	9,465	9,431	-0.2	0.4	0.5	8,823	8,838	8,885	8,512	3.7
Textiles Textile products	706 432	707 411	701 406	-0.1 5.1	0.9 1.2	-0.7 -1.5	708 433	714 409	699 402	694 410	2.0 5.6
Apparel	333	336	336	-0.9	0.0	1.5	358	360	347	319	12.2
Leather and allied products Paper products	81 1,301	79 1,298	76 1,282	2.5 0.2	3.9 1.2	1.3 0.6	85 1,324	78 1,320	74 1,289	82 1,261	3.7 5.0
Printing	1,100	1,102	1,106	-0.2	-0.4	-0.3	1,189	1,111	1,065	1,167	1.9
Petroleum and coal products Chemical products	13,610 19,346	13,425 19,378	13,488 19,226	1.4 -0.2	-0.5 0.8	2.9 0.2	13,979 19,858	13,840 19,988	13,431 19,639	10,935 19,085	27.8 4.1
Plastics and rubber products	3,193	3,156		1.2	0.6	1.6	3,178	3,145	3,137	2,912	9.1
FINISHED GOODS											
All manufacturing industries	235,203	234,979	235,060	0.1	0.0	0.3	237,334	236,190	233,518	231,041	2.7
Durable goods industries	114,646	114,697	114,633	0.0	0.1	0.3	115,551	115,608	113,592	113,682	1.6
Wood products	4,896	4,891	4,836	0.1	1.1	0.9	4,792	4,849	4,834	4,821	-0.6
Nonmetallic mineral products Primary metals	7,027 12,004	7,013 12,057	6,938 11,955	0.2 -0.4	1.1 0.9	1.4 0.5	6,943 11,928	7,069 12,183	7,043 11,852	6,667 11,034	4.1 8.1
Fabricated metal products	19,482	19,308	19,179	0.9	0.7	0.7	19,422	19,530	19,259	18,208	6.7
Machinery Computers and electronic products	22,656 11,478	22,566 11,691	22,509 11,921	0.4 -1.8	0.3 -1.9	-0.1 0.1	22,703 11,954	22,465 11,896	22,248 11,680	23,152 12,502	-1.9 -4.4
Electrical equipment, appliances,											
and components Transportation equipment	6,909 15,944	6,910 15,862	6,931 15,915	0.0 0.5	-0.3 -0.3	-0.1 0.9	7,093 16,244	7,075 16,070	6,965 15,338	7,042 15,499	0.7 4.8
Furniture and related products	2,594	2,607	2,611	-0.5	-0.2	-1.8	2,684	2,736	2,758	2,682	0.1
Miscellaneous products	11,656	11,792		-1.2	-0.4	-0.4		11,735	11,615	12,075	-2.4
Nondurable goods industries	120,557	120,282	120,427	0.2	-0.1	0.3	121,783	120,582	119,926	117,359	3.8
Food products Beverage and tobacco products	30,105 9,205	30,011 9,226	30,092 9,293	0.3 -0.2	-0.3 -0.7	-1.2 -0.6	31,430 9,285	30,067 9,267	29,604 9,355	31,016 9,213	1.3 0.8
Textiles	1,393	1,382	1,381	0.8	0.1	0.7	1,393	1,387	1,391	1,353	3.0
Textile products	1,749 1,083	1,743 1,086	1,700 1,066	0.3 -0.3	2.5 1.9	0.6 2.9	1,754 1,157	1,734 1,153	1,694 1,053	1,665 1,150	5.3 0.6
Leather and allied products	433	436	440	-0.7	-0.9	-1.8	448	452	455	470	-4.7
Paper products	6,583 1,517	6,584 1,533	6,576 1,576	0.0 -1.0	0.1 -2.7	-0.2 0.1	6,588 1,517	6,644 1,521	6,574 1,599	6,700 1,621	-1.7 -6.4
Petroleum and coal products	16,744	16,608	16,308	0.8	1.8	1.3	16,774	16,801	16,238	14,414	16.4
Chemical products	39,478 12,267	39,442 12,231	39,753 12,242	0.1 0.3	-0.8 -0.1	1.0 1.2	39,299 12,138	39,408 12 148	39,698 12,265	37,907 11,850	3.7
Plastics and rubber products	12,267	12,231	12,242	0.3	-0.1	1.2	12,138	12,148	12,265	11,850	2.4

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

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.

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/how_the_data_are_collected/index.html>.

Survey, August Full Report, October 4, 2018. Information on data sources and methodology can be found on our website at "http://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>"http://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>"http://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>"http://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>"http://www.cens

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

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

	Inve	ntory/Shi	oments ra	atio	Unfilled Orders/Shipments ratio ²				
Industry	Aug 2018 ^p	Jul 2018 ^r	Jun 2018	May 2018	Aug 2018 ^p	Jul 2018 ^r	Jun 2018	May 2018	
All manufacturing industries ³	1.34	1.35	1.34	1.35	(X)	(X)	(X)	(X)	
Durable goods industries ³	1.61 1.29 1.32 1.63 1.63 2.10 1.58	1.63 1.29 1.32 1.64 1.62 2.07 1.59	1.60 1.29 1.32 1.64 1.61 2.09 1.62	1.29 1.31 1.63 1.60 2.09 1.63 1.65 1.57	(X) (X) 1.44 2.65 3.53 5.35 1.90 15.06	(X) (X) 1.44 2.63 3.53 5.35 1.92 15.59	6.64 (X) (X) 1.44 2.62 3.56 5.42 1.91 14.76	(X) (X) 1.43 2.62 3.56 5.44 1.89 14.99	
Furniture and related products	1.20 1.70	1.21 1.70	1.21 1.69	1.19 1.70		1.48 (X)	1.49 (X)	1.44 (X)	
Nondurable goods industries. Food products. Bewerage and tobacco products. Textiles. Textile products. Apparel. Leather and allied products. Printing. Petroleum and coal products. Chemical products.	1.07 0.80 1.89 1.28 1.52 1.98 1.84 0.99 0.82 0.76 1.37	1.07 0.80 1.93 1.28 1.51 2.00 1.85 1.00 0.81 0.75 1.37	1.07 0.81 1.95 1.28 1.51 1.94 1.85 1.00 0.82 0.74	1.28 1.52 1.93 1.88 0.99 0.83 0.74 1.36	(X) (X) (X) (X) (X) (X) (X) (X)	(X) (X) (X) (X) (X) (X)	(X) (X) (X) (X) (X) (X) (X) (X) (X) (X)	(X) (X) (X) (X) (X) (X) (X) (X) (X) (X)	
Plastics and rubber products	1.35	1.34	1.34	1.32	(X)	(X)	(X)	(X)	

Table 8. Revisions to Previously Published Monthly Percent Changes 1

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

	Ship	ments	New 0	Orders	Unfilled	Orders	Inven	tories
Industry	Aug ² 2018	Aug ³ 2017- Jul 2018	Aug² 2018	Aug ³ 2017- Jul 2018	Aug ² 2018	Aug ³ 2017- Jul 2018	Aug ² 2018	Aug ³ 2017- Jul 2018
All manufacturing industries	(X)	0.1	(X)	0.3	(X)	0.1	(X)	0.1
Durable goods industries	-0.1 (X) (X) -0.1 0.0 -0.7 0.1 -0.3 0.1 (X) (X)	0.2 0.2 0.3 0.4 0.3 0.2 0.3 0.3 0.4 0.2	-0.1 (X) (X) -0.1 0.5 -0.9 0.2 -0.4 (X) (X)	0.4 (NA) (NA) 0.7 0.6 0.8 0.7 0.7 0.7 0.8 0.2	0.1 0.0 0.0	0.1 (NA) (NA) 0.3 0.2 0.2 0.1 0.3 0.1 0.6 0.2	0.1 (X) (X) 0.0 0.0 0.0 -0.1 0.0 (X) (X)	0.1 0.2 0.2 0.4 0.2 0.1 0.1 0.2 0.1 0.4 0.1
Nondurable goods industries Food products Beverage and tobacco products Textiles Textiles products Apparel Leather and allied products Paper products Paper products Paper products Petroleum and coal products. Chemical products Plastics and rubber products Plastics and rubber products.	(X) (X) (X) (X) (X) (X) (X) (X) (X) (X)	0.2 0.2 0.4 0.4 0.5 0.5 0.5 0.3 0.3 0.6 0.3	(X) (X) (X) (X) (X) (X) (X) (X) (X) (X)	(NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)	(X) (X) (X) (X) (X) (X) (X) (X) (X) (X)	(NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)	(X) (X) (X) (X) (X) (X) (X) (X) (X) (X)	0.2 0.2 0.2 0.2 0.6 0.4 0.1 0.3 0.9 0.1

X Not Applicable NA Not Available

Preliminary

Preliminary

Revised data due to late receipts and concurrent seasonal adjustment.

**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 medis; batteries; automobiles; light trucks and utility wehties; heavy duty rucks; and miscellaneous furniture.

Juffilled 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 chttp://www.census.gov/manufacturing/m3/.

**Source: U.S. Census Bureau, Manufacturers' Shipments, inventories, and Orders (M3) Survey, August Full Report, October 4, 2018. Information on data sources and methodology can be found on our website at cwww.census.gov/manufacturing/m3/how_the_data_are_collected/index.html>.

NA tot 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 substitution.

³ The current month revisions are the difference between the advance percent change and the percent change and 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 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 perfor 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' Simpents, Inventories, and Orders (M3) Survey, August Full Report, October 4, 2018. Information on data sources and methodology can be found on our website at http://www.census.gov/manufacturing/m3/how_the_data_are_collected/index.html.