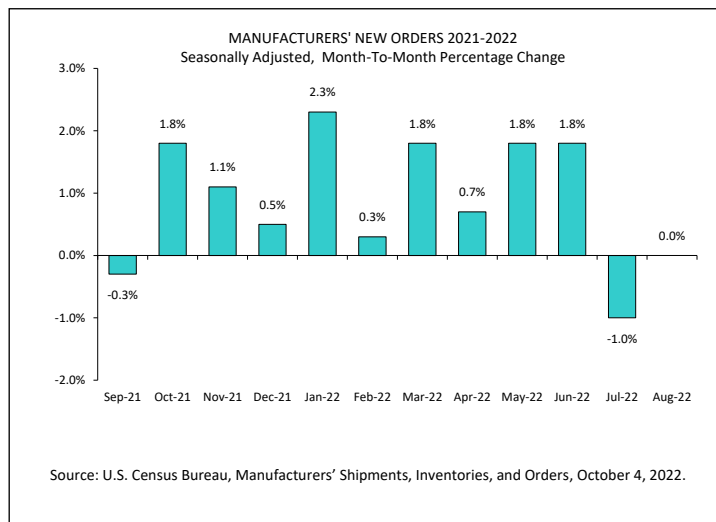


MONTHLY FULL REPORT ON MANUFACTURERS' SHIPMENTS, INVENTORIES AND ORDERS AUGUST 2022

Release Number: CB 22-158 M3-2 (22)-08

October 4, 2022 — The U.S. Census Bureau announces the August full report on manufacturers' shipments, inventories and orders:

 MANUFACTURED GOODS – NEW ORDERS		
AUGUST 2022	\$548.4 billion	-0.0%°
JULY 2022 (revised)	\$548.4 billion	-1.0%°
Next release: November 3, 2022		
<small>Data adjusted for seasonal variation but not for price changes. Statistical significance is not measurable for this survey. The Manufacturers' Shipments, Inventories, and Orders estimates are not based on a probability sample, so the sampling error of these estimates cannot be measured, nor can the confidence intervals be computed. Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories and Orders, October 4, 2022.</small>		



Summary

New orders for manufactured goods in August, down two consecutive months, decreased less than \$0.1 billion or virtually unchanged to \$548.4 billion, the U.S. Census Bureau reported today. This followed a 1.0 percent July decrease. Shipments, up seventeen of the last eighteen months, increased \$2.7 billion or 0.5 percent to \$547.9 billion. This followed a 0.9 percent July decrease. Unfilled orders, up twenty-four consecutive months, increased \$5.3 billion or 0.5 percent to \$1,132.1 billion. This followed a 0.7 percent July increase. The unfilled orders-to-shipments ratio was 6.01, down from 6.05 in July. Inventories, down two consecutive months, decreased \$1.2 billion or 0.1 percent to \$800.2 billion. This followed a virtually unchanged July decrease. The inventories-to-shipments ratio was 1.46, down from 1.47 in July.

New Orders

New orders for manufactured durable goods in August, down two consecutive months, decreased \$0.5 billion or 0.2 percent to \$272.7 billion, unchanged from the previously published decrease. This followed a 0.1 percent July decrease. Transportation equipment, also down two consecutive months, drove the decrease, \$1.0 billion or 1.1 percent to \$92.0 billion. New orders for manufactured nondurable goods increased \$0.5 billion or 0.2 percent to \$275.7 billion.

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Shipments

Shipments of manufactured durable goods in August, up fifteen of the last sixteen months, increased \$2.2 billion or 0.8 percent to \$272.2 billion, up from the previously published 0.7 percent increase. This followed a 0.2 percent July increase. Transportation equipment, up ten of the last eleven months, led the increase, \$1.7 billion or 2.0 percent to \$88.1 billion. Shipments of manufactured nondurable goods, up seventeen of the last eighteen months, increased \$0.5 billion or 0.2 percent to \$275.7 billion. This followed a 1.9 percent July decrease. Chemical products, up three of the last four months, drove the increase, \$0.6 billion or 0.9 percent to \$66.8 billion.

Unfilled Orders

Unfilled orders for manufactured durable goods in August, up twenty-four consecutive months, increased \$5.3 billion or 0.5 percent to \$1,132.1 billion, unchanged from the previously published increase. This followed a 0.7 percent July increase. Transportation equipment, up eighteen of the last nineteen months, led the increase, \$3.9 billion or 0.6 percent to \$659.0 billion.

Inventories

Inventories of manufactured durable goods in August, up nineteen consecutive months, increased \$1.1 billion or 0.2 percent to \$487.5 billion, unchanged from the previously published increase. This followed a 0.2 percent July increase. Machinery, up twenty-two consecutive months, led the increase, \$0.5 billion or 0.6 percent to \$84.4 billion. Inventories of manufactured nondurable goods, down two consecutive months, decreased \$2.3 billion or 0.7 percent to \$312.7 billion. This followed a 0.4 percent July decrease. Petroleum and coal products, down three consecutive months, drove the decrease, \$3.2 billion or 6.1 percent to \$49.5 billion. By stage of fabrication, August materials and supplies were virtually unchanged in durable goods and increased 0.1 percent in nondurable goods. Work in process increased 0.2 percent in durable goods and decreased 2.9 percent in nondurable goods. Finished goods increased 0.6 percent in durable goods and decreased 0.6 percent in nondurable goods.

The Advance Report on durable goods for September is scheduled for release on October 27, 2022, at 8:30 a.m. EDT and the Full Report on November 3, 2022, 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>.

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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 60 percent of the total value of shipments for manufacturing establishments in the 2017 Economic Census, and these companies include roughly 61 percent of the manufacturing companies with \$500 million or more in shipments in the 2017 Economic Census. The companies for which shipments data are currently reported in the M3 survey represent approximately 51 percent of the total value of shipments for manufacturing establishments in the 2017 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.

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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.

Special Notice - New Advance Estimates Of Total Manufacturing

Beginning with September 2021 data released on October 27, 2021, advance estimates of total manufacturing, including M3 durable and nondurable industries, for shipments and inventories, are available at the same time as the Advance Report on Durable Goods Manufacturers' Shipments, Inventories and Orders. Monthly advance total manufacturing estimates are available on a seasonally adjusted basis as well as a not seasonally adjusted basis on the M3 website under the "Advance Report Highlights".

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/.

FRED Mobile App



Receive the latest updates on the nation's key economic indicators by downloading the FRED App <https://fred.stlouisfed.org/fred-mobile/> for both Apple and Android devices. FRED, the signature database of the Federal Reserve Bank of St. Louis, now incorporates the Census Bureau's 13 economic indicators.

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Table 1. Value of Manufacturers' Shipments for Industry 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		
	Aug. 2022 ^p	July 2022 ^r	June 2022	July - Aug.	June - July	May - June	Aug. 2022 ^p	July 2022 ^r	June 2022	Aug. 2021	2022 ^p	2021	% Change 2022/ 2021
All manufacturing industries.....	547,944	545,282	550,206	0.5	-0.9	0.8	569,812	523,169	586,711	501,241	4,287,724	3,780,743	13.4
Excluding transportation.....	459,857	458,928	464,926	0.2	-1.3	0.9	477,459	450,006	492,725	424,552	3,621,924	3,191,698	13.5
Excluding defense.....	531,313	528,868	534,326	0.5	-1.0	0.9	553,570	508,432	569,839	486,350	4,163,539	3,663,875	13.6
With unfilled orders.....	188,215	186,298	185,506	1.0	0.4	-0.1	195,186	172,121	203,114	173,089	1,465,119	1,306,398	12.1
Durable goods industries.....	272,224	270,036	269,545	0.8	0.2	0.3	284,852	248,929	292,868	251,983	2,119,961	1,904,149	11.3
Wood products.....	12,851	12,781	12,851	0.5	-0.5	-1.7	13,724	12,984	14,068	12,971	105,089	98,935	6.2
Nonmetallic mineral products.....	12,476	12,579	12,550	-0.8	0.2	0.8	14,093	12,946	13,881	12,899	100,034	92,321	8.4
Primary metals.....	20,722	20,670	21,394	0.3	-3.4	-0.5	21,868	19,709	22,572	19,887	168,953	148,211	14.0
Iron and steel mills.....	12,277	12,437	12,446	-1.3	-0.1	0.2	13,047	11,949	12,966	11,389	97,959	82,565	18.6
Aluminum and nonferrous metals.....	6,972	6,786	7,459	2.7	-9.0	-1.3	7,230	6,407	7,901	7,035	58,890	55,024	7.0
Ferrous metal foundries.....	1,473	1,447	1,489	1.8	-2.8	-2.9	1,591	1,353	1,705	1,463	12,104	10,622	14.0
Fabricated metal products.....	36,872	37,116	37,079	-0.7	0.1	0.6	39,421	35,522	39,391	35,687	294,853	260,351	13.3
Machinery.....	38,032	38,009	37,760	0.1	0.7	0.5	38,731	35,791	41,463	34,481	299,497	262,741	14.0
Farm machinery.....	2,791	2,866	2,807	-2.6	2.1	1.9	2,649	2,647	2,901	2,237	22,397	21,363	4.8
Construction machinery.....	3,609	3,668	3,593	-1.6	2.1	1.0	3,719	3,599	4,048	3,037	28,574	23,067	23.9
Mining, oil field, and gas field machinery.....	1,543	1,526	1,454	1.1	5.0	-3.6	1,535	1,415	1,515	1,232	11,342	9,905	14.5
Industrial machinery.....	6,219	6,218	6,258	0.0	-0.6	0.0	6,111	5,801	7,062	5,289	48,433	33,695	43.7
Photographic equipment.....	523	504	534	3.8	-5.6	2.1	519	478	603	494	4,082	4,066	0.4
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,664	4,581	4,614	1.8	-0.7	0.8	5,147	4,733	5,721	4,462	37,525	33,387	12.4
Metalworking machinery.....	2,593	2,642	2,618	-1.9	0.9	-0.7	2,672	2,369	2,782	2,656	20,504	20,225	1.4
Turbines, generators, and other power transmission equipment.....	3,318	3,271	3,245	1.4	0.8	1.9	3,478	3,128	3,287	3,378	25,961	25,773	0.7
Material handling equipment.....	3,439	3,407	3,421	0.9	-0.4	-0.8	3,596	3,064	3,560	2,933	27,439	21,998	24.7
Computers and electronic products ²	29,304	29,189	29,030	0.4	0.5	1.6	29,624	27,226	31,441	27,438	222,099	209,404	6.1
Computers.....	761	768	742	-0.9	3.5	1.4	796	735	884	796	5,736	5,754	-0.3
Computer storage devices.....	679	670	670	1.3	0.0	1.1	604	565	898	527	4,960	4,351	14.0
Other peripheral equipment.....	750	726	572	3.3	26.9	26.0	726	692	648	428	4,181	3,393	23.2
Nondefense communications equipment.....	3,083	3,153	3,097	-2.2	1.8	1.4	2,758	2,660	3,837	2,515	23,118	20,907	10.6
Defense communications equipment....	215	216	209	-0.5	3.3	1.5	221	200	215	209	1,633	1,525	7.1
Audio and video equipment.....	381	378	341	0.8	10.9	-15.0	339	323	271	287	2,817	2,158	30.5
Electronic components.....	4,663	4,611	4,562	1.1	1.1	-0.7	5,030	4,462	4,910	4,267	36,296	31,502	15.2
Nondefense search and navigation equipment.....	1,657	1,663	1,649	-0.4	0.8	1.4	1,693	1,435	1,798	1,645	12,829	12,593	1.9
Defense search and navigation equipment.....	3,234	3,169	3,195	2.1	-0.8	-1.1	3,218	2,888	3,374	3,161	24,930	24,829	0.4
Electromedical, measuring, and control instruments.....	8,947	8,887	8,956	0.7	-0.8	3.8	8,951	8,261	9,732	8,329	67,355	64,861	3.8
Electrical equipment, appliances, and components.....	13,484	13,152	13,405	2.5	-1.9	0.2	14,131	12,413	14,830	12,660	104,933	94,316	11.3
Electric lighting equipment.....	1,041	1,043	1,033	-0.2	1.0	1.1	1,111	1,005	1,089	1,048	8,196	8,023	2.2
Household appliances.....	2,757	2,671	2,809	3.2	-4.9	2.0	2,868	2,302	3,064	2,600	20,904	19,581	6.8
Electrical equipment.....	3,788	3,733	3,745	1.5	-0.3	-1.0	3,920	3,473	4,439	3,642	29,762	27,731	7.3
Batteries.....	957	949	955	0.8	-0.6	2.1	1,069	833	980	937	7,304	6,408	14.0
Transportation equipment.....	88,087	86,354	85,280	2.0	1.3	0.2	92,353	73,163	93,986	76,689	665,800	589,045	13.0
Automobiles.....	7,713	7,453	7,322	3.5	1.8	0.7	8,873	6,179	7,676	7,080	58,954	53,873	9.4
Light trucks and utility vehicles.....	22,555	22,620	23,209	-0.3	-2.5	3.0	24,279	18,139	24,674	19,983	171,384	148,467	15.4
Heavy duty trucks	2,464	2,411	2,337	2.2	3.2	2.5	2,577	2,237	2,519	1,882	18,511	15,292	21.1
Motor vehicle bodies, parts, and trailers.....	27,203	27,175	26,783	0.1	1.5	0.6	29,438	23,720	27,972	25,766	214,191	191,283	12.0
Nondefense aircraft and parts.....	12,006	10,534	10,085	14.0	4.5	-7.1	11,215	8,508	14,417	7,859	81,653	69,711	17.1
Defense aircraft and parts.....	5,519	5,192	5,377	6.3	-3.4	0.3	5,493	4,635	5,972	5,323	41,362	41,085	0.7
Ships and boats.....	3,571	3,580	3,485	-0.3	2.7	-1.5	3,566	3,276	3,716	3,540	27,968	27,955	0.0
Furniture and related products.....	6,200	6,184	6,158	0.3	0.4	-1.0	6,693	6,227	6,390	6,173	49,214	46,127	6.7
Miscellaneous durable goods.....	14,196	14,002	14,038	1.4	-0.3	-0.2	14,214	12,948	14,846	13,098	109,489	102,698	6.6
Nondurable goods industries.....	275,720	275,246	280,661	0.2	-1.9	1.4	284,960	274,240	293,843	249,258	2,167,763	1,876,594	15.5
Food products.....	76,163	76,097	76,031	0.1	0.1	0.2	77,890	73,465	76,155	73,949	598,168	568,654	5.2
Grain and oilseed milling.....	9,090	9,201	9,235	-1.2	-0.4	0.4	9,575	8,879	9,314	8,576	72,150	64,287	12.2
Dairy products.....	11,952	12,029	12,066	-0.6	-0.3	0.9	12,193	11,871	12,103	11,188	93,839	87,625	7.1
Meat, poultry, and seafood products...	22,804	22,763	22,838	0.2	-0.3	-1.3	23,192	22,382	23,806	22,533	182,324	172,070	6.0
Beverage and tobacco products.....	16,737	16,424	16,557	1.9	-0.8	3.6	17,359	16,495	17,338	15,043	126,687	109,937	15.2
Beverages.....	10,028	9,942	9,860	0.9	0.8	1.1	10,650	10,013	10,641	10,038	78,849	74,276	6.2
Tobacco.....	6,709	6,482	6,697	3.5	-3.2	7.5	6,709	6,482	6,697	5,005	47,838	35,661	34.1
Textile mills.....	2,349	2,325	2,286	1.0	1.7	-0.7	2,495	2,295	2,434	2,373	18,783	18,105	3.7
Textile products.....	1,977	1,981	1,993	-0.2	-0.6	-1.6	2,060	2,003	2,136	1,990	16,144	15,425	4.7
Apparel.....	714	724	732	-1.4	-1.1	0.1	774	711	705	773	5,602	5,444	2.9
Leather and allied products.....	441	421	423	4.8	-0.5	-5.4	473	432	441	423	3,469	3,153	10.0
Paper products.....	16,224	16,192	16,351	0.2	-1.0	-0.8	17,193	15,880	16,884	16,640	130,937	125,442	4.4
Pulp, paper, and paperboard mills.....	5,833	5,859	5,896	-0.4	-0.6	-2.3	6,195	5,888	5,961	6,001	47,313	45,160	4.8
Paperboard containers.....	6,021	5,989	6,062	0.5	-1.2	1.0	6,513	5,818	6,361	6,277	48,417	46,909	3.2
Printing.....	6,935	6,968	6,964	-0.5	0.1	2.0	7,159	6,672	6,981	6,343	53,490	48,751	9.7
Petroleum and coal products.....	64,807	65,500	70,355	-1.1	-6.9	4.2	67,413	71,115	76,868	46,545	506,026	327,677	54.4
Petroleum refineries.....	59,550	60,187	65,115	-1.1	-7.6	4.3	61,217	65,208	70,767	41,295	465,072	291,157	59.7
Chemical products.....	66,832	66,238	66,589	0.9	-0.5	0.5	68,568	63,417	70,159	63,541	528,660	490,126	7.9
Pesticides, fertilizers, and other agricultural chemicals.....	3,219	3,240	3,247	-0.6	-0.2	2.2	2,648	2,535	3,536	2,414	26,883	23,802	12.9
Pharmaceuticals and medicines.....	22,031	21,970	22,024	0.3	-0.2	2.4	23,114	21,028	23,125	20,405	169,395	154,615	9.6
Paints, coatings, and adhesives.....	3,837	3,762	3,782	2.0	-0.5	0.2	4,205	3,726	4,140	3,859	31,143	29,149	6.8
Plastics and rubber products.....	22,541	22,376	22,380	0.7	0.0	0.0	23,576	21,755	23,742	21,638	179,797	163,880	9.7

^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 Estimates and percent changes of shipments for the semiconductor industry are included in computers and electronic products, and all other applicable aggregate totals.

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

Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, August Full Report, October 4, 2022. Information on data sources and methodology can be found on our website at <www.census.gov/manufacturing/m3/how_the_data_are_collected/index.html>.

Table 2. Value of Manufacturers' New Orders for Industry 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		
	Aug. 2022 ^p	July 2022 ^r	June 2022	July - Aug.	June - July	May - June	Aug. 2022 ^p	July 2022 ^r	June 2022	Aug. 2021	2022 ^p	2021	% Change 2022/ 2021
All manufacturing industries ²	548,419	548,449	554,232	0.0	-1.0	1.8	564,168	523,696	588,313	500,229	4,301,919	3,801,549	13.2
Excluding transportation ²	456,432	455,462	460,606	0.2	-1.1	1.0	470,017	444,965	486,409	421,015	3,599,525	3,202,190	12.4
Excluding defense ²	529,602	531,192	534,338	-0.3	-0.6	1.1	547,747	510,766	566,306	488,742	4,177,859	3,688,277	13.3
With unfilled orders ²	193,542	194,332	194,488	-0.4	-0.1	2.7	194,745	177,574	209,510	177,269	1,516,926	1,364,106	11.2
Durable goods industries ²	272,699	273,203	273,571	-0.2	-0.1	2.3	279,208	249,456	294,470	250,971	2,134,156	1,924,955	10.9
Primary metals.....	20,769	20,649	21,050	0.6	-1.9	-1.4	21,424	19,522	21,919	19,463	169,064	152,501	10.9
Iron and steel mills.....	12,468	12,419	12,354	0.4	0.5	0.6	12,991	11,907	12,758	11,090	98,304	85,037	15.6
Aluminum and nonferrous metals.....	6,838	6,780	7,277	0.9	-6.8	-3.5	6,865	6,290	7,564	6,890	58,318	56,298	3.6
Ferrous metal foundries.....	1,463	1,450	1,419	0.9	2.2	-7.0	1,568	1,325	1,597	1,483	12,442	11,166	11.4
Fabricated metal products.....	36,934	37,195	36,922	-0.7	0.7	0.3	38,753	35,493	38,856	36,757	300,102	281,210	6.7
Machinery.....	38,757	38,622	38,434	0.3	0.5	0.5	38,732	36,345	41,299	35,487	306,443	275,754	11.1
Construction machinery.....	3,650	3,692	3,743	-1.1	-1.4	0.3	3,584	3,422	3,921	3,027	28,936	25,259	14.6
Mining, oil field, and gas field machinery.....	1,663	1,516	1,534	9.7	-1.2	1.7	1,655	1,405	1,595	1,335	11,430	10,239	11.6
Industrial machinery.....	6,301	6,576	6,522	-4.2	0.8	2.4	5,979	6,264	7,129	5,314	50,191	35,372	41.9
Photographic equipment.....	523	553	566	-5.4	-2.3	11.2	533	545	564	513	4,008	3,906	2.6
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,939	4,959	4,844	-0.4	2.4	-1.6	5,257	5,153	5,673	4,579	39,928	35,158	13.6
Metalworking machinery.....	2,596	2,551	2,518	1.8	1.3	-7.6	2,605	2,383	2,721	2,630	20,672	20,791	-0.6
Turbines, generators, and other power transmission equipment.....	3,275	3,190	3,313	2.7	-3.7	6.3	3,435	3,047	3,355	3,367	25,780	26,491	-2.7
Material handling equipment.....	3,607	3,528	3,375	2.2	4.5	-0.7	3,764	2,938	3,838	3,221	28,371	22,999	23.4
Computers and electronic products ²	24,712	24,547	24,211	0.7	1.4	1.8	23,475	21,803	26,647	22,006	184,625	174,927	5.5
Computers.....	753	778	753	-3.2	3.3	3.6	788	745	895	782	5,727	5,715	0.2
Nondefense communications equipment.....	3,159	3,053	2,918	3.5	4.6	-4.7	2,617	2,242	3,617	2,687	22,833	22,095	3.3
Defense communications equipment.....	219	222	214	-1.4	3.7	1.9	219	192	218	194	1,595	1,348	18.3
Electronic components.....	4,714	4,667	4,604	1.0	1.4	2.2	4,932	4,586	4,636	4,385	36,364	32,414	12.2
Nondefense search and navigation equipment.....	1,788	1,786	1,764	0.1	1.2	2.0	1,784	1,566	1,937	1,806	13,944	14,060	-0.8
Defense search and navigation equipment.....	3,157	3,250	3,275	-2.9	-0.8	1.2	2,768	2,616	3,744	2,810	23,998	23,861	0.6
Electromedical, measuring, and control instruments.....	9,030	8,936	9,019	1.1	-0.9	3.5	8,613	8,197	9,703	8,018	67,574	64,903	4.1
Electrical equipment, appliances, and components.....	13,885	13,661	13,717	1.6	-0.4	2.7	14,274	12,611	14,794	13,051	107,621	98,835	8.9
Electric lighting equipment.....	1,100	1,075	1,026	2.3	4.8	1.7	1,152	1,007	1,151	1,031	8,312	8,198	1.4
Household appliances.....	2,764	2,642	2,702	4.6	-2.2	9.9	2,807	2,240	2,897	2,590	20,113	20,200	-0.4
Electrical equipment.....	3,958	4,046	4,012	-2.2	0.8	-1.2	4,009	3,779	4,524	3,801	32,370	28,020	15.5
Transportation equipment.....	91,987	92,987	93,626	-1.1	-0.7	6.1	94,151	78,731	101,904	79,214	702,394	599,359	17.2
Motor vehicle bodies, parts, and trailers.....	27,098	27,139	26,782	-0.2	1.3	0.7	29,382	23,551	27,272	26,257	214,188	194,040	10.4
Nondefense aircraft and parts ³	13,338	16,366	14,596	-18.5	12.1	1.0	12,043	15,716	18,354	13,035	117,129	80,650	45.2
Defense aircraft and parts.....	6,878	5,244	9,644	31.2	-45.6	78.3	6,541	3,865	10,507	3,851	43,285	37,303	16.0
Ships and boats.....	5,517	5,097	3,221	8.2	58.2	-9.1	4,616	3,414	3,450	2,254	28,953	30,867	-6.2
Furniture and related products.....	6,133	6,181	6,157	-0.8	0.4	0.3	6,369	6,074	6,241	6,116	49,125	48,193	1.9
Nondurable goods industries.....	275,720	275,246	280,661	0.2	-1.9	1.4	284,960	274,240	293,843	249,258	2,167,763	1,876,594	15.5

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

Note: Estimates of manufacturers' shipments, inventories and orders are subject to survey error and revision. One major component of survey error is nonsampling error, which includes errors of coverage, response, and nonreporting. Since the survey panel is not a probability sample, estimates of sampling error cannot be calculated. For further details on survey design, methodology, and data limitations see <<http://www.census.gov/manufacturing/m3/>>. Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, August Full Report, October 4, 2022. 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				
	Monthly			Percent Change			Monthly				% Change August 2022/ 2021
	Aug. 2022 ^p	July 2022 ^r	June 2022	July - Aug.	June - July	May - June	Aug. 2022 ^p	July 2022 ^r	June 2022	Aug. 2021	
All manufacturing industries ²	1,132,082	1,126,755	1,118,721	0.5	0.7	0.8	1,126,408	1,126,849	1,121,396	1,054,291	6.8
Excluding transportation ²	473,118	471,691	470,290	0.3	0.3	0.1	471,585	473,824	473,939	448,642	5.1
Excluding defense ²	917,193	914,052	906,861	0.3	0.8	0.6	914,745	915,365	908,105	844,839	8.3
Durable goods industries ²	1,132,082	1,126,755	1,118,721	0.5	0.7	0.8	1,126,408	1,126,849	1,121,396	1,054,291	6.8
Primary metals.....	30,786	30,739	30,760	0.2	-0.1	-1.1	30,356	30,800	30,987	30,647	-0.9
Iron and steel mills.....	16,070	15,879	15,897	1.2	-0.1	-0.6	16,011	16,067	16,109	16,548	-3.2
Aluminum and nonferrous metals.....	10,605	10,739	10,745	-1.2	-0.1	-1.7	10,243	10,608	10,725	10,600	-3.4
Ferrous metal foundries.....	4,111	4,121	4,118	-0.2	0.1	-1.7	4,102	4,125	4,153	3,499	17.2
Fabricated metal products.....	118,059	117,997	117,918	0.1	0.1	-0.1	119,219	119,887	119,916	115,308	3.4
Machinery.....	132,290	131,565	130,952	0.6	0.5	0.5	131,868	131,867	131,313	121,530	8.5
Construction machinery.....	10,088	10,047	10,023	0.4	0.2	1.5	9,627	9,762	9,939	8,503	13.2
Mining, oil field, and gas field machinery.....	5,155	5,035	5,045	2.4	-0.2	1.6	5,155	5,035	5,045	4,876	5.7
Industrial machinery.....	12,747	12,665	12,307	0.6	2.9	2.2	12,675	12,807	12,344	10,405	21.8
Photographic equipment.....	3,162	3,162	3,113	0.0	1.6	1.0	3,079	3,065	2,998	3,153	-2.3
Ventilation, heating, air-conditioning, and refrigeration equipment.....	11,630	11,355	10,977	2.4	3.4	2.1	11,680	11,570	11,150	8,568	36.3
Metalworking machinery.....	8,523	8,520	8,611	0.0	-1.1	-1.1	8,562	8,629	8,615	7,903	8.3
Turbines, generators, and other power transmission equipment.....	33,238	33,281	33,362	-0.1	-0.2	0.2	33,238	33,281	33,362	32,989	0.8
Material handling equipment.....	16,788	16,620	16,499	1.0	0.7	-0.3	16,742	16,574	16,700	15,132	10.6
Computers and electronic products ²	140,639	140,379	140,154	0.2	0.2	0.1	139,140	140,086	140,583	134,313	3.6
Computers.....	1,210	1,218	1,208	-0.7	0.8	0.9	1,210	1,218	1,208	1,338	-9.6
Nondefense communications equipment.....	21,130	21,054	21,154	0.4	-0.5	-0.8	20,717	20,858	21,276	18,734	10.6
Defense communications equipment.....	322	318	312	1.3	1.9	1.6	302	304	312	325	-7.1
Electronic components.....	16,091	16,040	15,984	0.3	0.4	0.3	15,840	15,938	15,814	15,160	4.5
Nondefense search and navigation equipment.....	32,268	32,137	32,014	0.4	0.4	0.4	32,206	32,115	31,984	30,403	5.9
Defense search and navigation equipment.....	38,374	38,451	38,370	-0.2	0.2	0.2	38,026	38,476	38,748	38,345	-0.8
Electromedical, measuring, and control instruments.....	31,244	31,161	31,112	0.3	0.2	0.2	30,839	31,177	31,241	30,008	2.8
Electrical equipment, appliances, and components.....	39,675	39,274	38,765	1.0	1.3	0.8	39,489	39,346	39,148	35,145	12.4
Electric lighting equipment.....	2,280	2,221	2,189	2.7	1.5	-0.3	2,269	2,228	2,226	2,042	11.1
Household appliances.....	4,751	4,744	4,773	0.1	-0.6	-2.2	4,616	4,677	4,739	5,089	-9.3
Electrical equipment.....	16,777	16,607	16,294	1.0	1.9	1.7	16,821	16,732	16,426	14,270	17.9
Transportation equipment.....	658,964	655,064	648,431	0.6	1.0	1.3	654,823	653,025	647,457	605,649	8.1
Motor vehicle bodies, parts, and trailers.....	28,331	28,436	28,472	-0.4	-0.1	0.0	27,744	27,800	27,969	26,458	4.9
Nondefense aircraft and parts.....	441,433	440,101	434,269	0.3	1.3	1.0	440,809	439,981	432,773	395,285	11.5
Defense aircraft and parts.....	61,474	60,115	60,063	2.3	0.1	7.6	60,481	59,433	60,203	56,281	7.5
Ships and boats.....	51,883	49,937	48,420	3.9	3.1	-0.5	50,592	49,542	49,404	52,075	-2.8
Furniture and related products.....	10,271	10,338	10,341	-0.6	0.0	0.0	10,115	10,439	10,592	10,296	-1.8

^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 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, 2022. 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 dollars and are based on data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

Industry	Seasonally Adjusted						Not Seasonally Adjusted				
	Monthly			Percent Change			Monthly				% Change
	Aug. 2022 ^p	July 2022 ^r	June 2022	July - Aug.	June - July	May - June	Aug. 2022 ^p	July 2022 ^r	June 2022	Aug. 2021	August 2022/ 2021
All manufacturing industries.....	800,189	801,381	801,535	-0.1	0.0	0.4	802,917	807,098	802,257	737,806	8.8
Excluding transportation.....	642,711	643,867	643,959	-0.2	0.0	0.5	643,594	648,188	645,909	583,023	10.4
Excluding defense.....	773,529	774,581	774,964	-0.1	0.0	0.4	776,150	780,199	775,598	712,267	9.0
With unfilled orders.....	390,156	389,669	388,805	0.1	0.2	0.5	392,447	393,015	389,188	364,213	7.8
Durable goods industries.....	487,488	486,343	485,143	0.2	0.2	0.4	490,270	489,587	484,474	453,745	8.0
Wood products.....	14,709	14,726	14,772	-0.1	-0.3	0.5	14,489	14,523	14,546	13,672	6.0
Nonmetallic mineral products.....	16,273	16,170	15,979	0.6	1.2	0.9	16,178	16,226	16,103	14,471	11.8
Primary metals.....	38,956	39,084	39,284	-0.3	-0.5	-0.2	38,848	39,251	39,223	35,306	10.0
Iron and steel mills.....	22,814	22,939	23,165	-0.5	-1.0	-0.3	22,745	23,054	23,123	20,982	8.4
Aluminum and nonferrous metals.....	13,431	13,448	13,433	-0.1	0.1	-0.1	13,437	13,513	13,408	11,909	12.8
Ferrous metal foundries.....	2,711	2,697	2,686	0.5	0.4	-0.3	2,666	2,684	2,692	2,415	10.4
Fabricated metal products.....	62,781	62,608	62,429	0.3	0.3	0.3	62,811	63,350	62,765	57,203	9.8
Machinery.....	84,416	83,911	83,269	0.6	0.8	1.1	84,767	83,812	83,327	73,276	15.7
Farm machinery.....	5,980	5,871	5,882	1.9	-0.2	1.1	5,735	5,671	5,690	4,199	36.6
Construction machinery.....	7,126	7,159	7,070	-0.5	1.3	0.1	7,087	7,144	7,084	5,652	25.4
Mining, oil field, and gas field machinery.....	6,152	6,181	6,133	-0.5	0.8	1.5	6,233	6,250	6,171	5,844	6.7
Industrial machinery.....	10,765	10,643	10,628	1.1	0.1	1.4	10,968	10,387	10,920	9,501	15.4
Photographic equipment.....	1,387	1,381	1,363	0.4	1.3	-2.5	1,425	1,390	1,334	1,365	4.4
Ventilation, heating, air-conditioning, and refrigeration equipment.....	7,774	7,651	7,454	1.6	2.6	3.2	7,653	7,577	7,467	6,011	27.3
Metalworking machinery.....	6,768	6,715	6,666	0.8	0.7	1.0	6,862	6,821	6,646	6,105	12.4
Turbines, generators, and other power transmission equipment.....	10,296	10,348	10,301	-0.5	0.5	1.0	10,401	10,537	10,330	9,382	10.9
Material handling equipment.....	6,895	6,778	6,720	1.7	0.9	1.0	7,018	6,827	6,720	6,006	16.8
Computers and electronic products ²	52,457	52,278	52,097	0.3	0.3	0.7	52,833	52,755	52,151	50,240	5.2
Computers.....	2,151	2,129	2,125	1.0	0.2	0.5	2,261	2,200	2,214	2,097	7.8
Computer storage devices.....	867	861	858	0.7	0.3	-2.3	911	883	830	930	-2.0
Other peripheral equipment.....	949	913	891	3.9	2.5	-0.6	962	884	887	781	23.2
Nondefense communications equipment.....	4,733	4,735	4,723	0.0	0.3	0.9	4,881	4,806	4,719	4,686	4.2
Defense communications equipment.....	654	657	658	-0.5	-0.2	-0.2	654	657	658	662	-1.2
Audio and video equipment.....	1,165	1,141	1,174	2.1	-2.8	6.1	1,127	1,076	1,204	836	34.8
Electronic components.....	9,871	9,893	9,870	-0.2	0.2	0.4	9,622	10,087	9,940	9,816	-2.0
Nondefense search and navigation equipment.....	3,457	3,402	3,346	1.6	1.7	1.1	3,510	3,438	3,321	3,186	10.2
Defense search and navigation equipment.....	2,826	2,838	2,839	-0.4	0.0	0.2	2,849	2,867	2,838	2,899	-1.7
Electromedical, measuring and control instruments.....	17,949	17,861	17,752	0.5	0.6	1.1	18,210	18,062	17,755	16,841	8.1
Electrical equipment, appliances, and components.....	23,149	22,949	22,862	0.9	0.4	0.2	23,398	23,400	23,088	20,348	15.0
Electric lighting equipment.....	2,080	2,074	2,081	0.3	-0.3	0.4	2,093	2,088	2,081	2,064	1.4
Household appliances.....	3,322	3,424	3,394	-3.0	0.9	-0.1	3,432	3,522	3,374	2,809	22.2
Electrical equipment.....	7,778	7,652	7,614	1.6	0.5	0.2	7,880	7,814	7,696	6,797	15.9
Batteries.....	1,559	1,570	1,586	-0.7	-1.0	-2.3	1,625	1,633	1,686	1,618	0.4
Transportation equipment.....	157,478	157,514	157,576	0.0	0.0	0.2	159,323	158,910	156,348	154,783	2.9
Automobiles.....	6,334	6,304	6,427	0.5	-1.9	-2.3	6,681	6,425	6,305	6,735	-0.8
Light trucks and utility vehicles.....	10,025	9,777	9,633	2.5	1.5	-4.2	10,517	9,890	9,129	9,432	11.5
Heavy duty trucks	2,848	2,871	2,883	-0.8	-0.4	6.0	2,855	2,946	2,923	2,647	7.9
Motor vehicle bodies, parts, and trailers.....	32,527	32,545	32,609	-0.1	-0.2	0.6	32,508	33,022	32,455	30,373	7.0
Nondefense aircraft and parts.....	75,804	76,006	76,062	-0.3	-0.1	0.1	76,514	76,341	75,642	77,162	-0.8
Defense aircraft and parts.....	12,868	13,076	13,009	-1.6	0.5	1.9	12,893	13,137	13,000	12,592	2.4
Ships and boats.....	4,583	4,492	4,440	2.0	1.2	0.8	4,652	4,501	4,509	3,754	23.9
Furniture and related products.....	9,994	9,918	9,847	0.8	0.7	1.1	10,039	10,022	10,004	8,628	16.4
Miscellaneous durable goods.....	27,275	27,185	27,028	0.3	0.6	0.6	27,584	27,338	26,919	25,818	6.8
Nondurable goods industries.....	312,701	315,038	316,392	-0.7	-0.4	0.4	312,647	317,511	317,783	284,061	10.1
Food products.....	62,884	62,768	62,571	0.2	0.3	-0.2	62,807	62,015	61,189	59,577	5.4
Grain and oilseed milling.....	7,857	7,813	7,804	0.6	0.1	-2.0	7,646	7,642	7,645	6,977	9.6
Dairy products.....	9,323	9,369	9,355	-0.5	0.1	0.9	9,418	9,679	9,631	8,524	10.5
Meat, poultry, and seafood products.....	11,021	10,925	10,755	0.9	1.6	1.0	11,200	10,927	10,556	10,564	6.0
Beverage and tobacco products.....	28,465	28,295	28,232	0.6	0.2	0.1	27,802	27,603	27,861	26,232	6.0
Beverages.....	24,801	24,633	24,572	0.7	0.2	0.2	24,392	24,196	24,357	22,921	6.4
Tobacco.....	3,664	3,662	3,660	0.1	0.1	-0.6	3,410	3,407	3,504	3,311	3.0
Textile mills.....	3,640	3,656	3,584	-0.4	2.0	1.9	3,646	3,690	3,577	3,106	17.4
Textile products.....	4,335	4,310	4,289	0.6	0.5	0.4	4,334	4,289	4,254	3,907	10.9
Apparel.....	2,378	2,323	2,292	2.4	1.4	3.2	2,503	2,447	2,399	1,925	30.0
Leather and allied products.....	1,179	1,150	1,102	2.5	4.4	5.2	1,201	1,185	1,121	865	38.8
Paper products.....	16,728	16,660	16,550	0.4	0.7	0.8	16,859	16,879	16,545	15,712	7.3
Pulp, paper, and paperboard mills.....	4,989	4,982	4,953	0.1	0.6	0.9	5,012	5,039	4,953	4,844	3.5
Paperboard containers.....	6,169	6,137	6,062	0.5	1.2	1.2	6,238	6,202	6,026	5,705	9.3
Printing.....	6,504	6,463	6,407	0.6	0.9	1.2	6,578	6,422	6,363	6,100	7.8
Petroleum and coal products.....	49,469	52,704	55,551	-6.1	-5.1	-0.6	49,839	55,974	58,694	39,470	26.3
Petroleum refineries.....	43,016	45,775	48,739	-6.0	-6.1	-0.9	43,338	48,900	51,777	33,830	28.1
Chemical products.....	104,855	104,645	104,006	0.2	0.6	0.8	104,903	104,991	104,098	98,319	6.7
Pesticides, fertilizers, and other agricultural chemicals.....	6,768	6,781	6,595	-0.2	2.8	3.8	6,565	6,545	6,247	5,483	19.7
Pharmaceuticals and medicines.....	43,069	43,097	43,040	-0.1	0.1	0.1	42,834	43,312	43,719	43,010	-0.4
Paints, coatings, and adhesives.....	5,169	5,078	4,981	1.8	1.9	1.7	5,109	5,118	5,003	3,988	28.1
Plastics and rubber products.....	32,264	32,064	31,808	0.6	0.8	1.1	32,175	32,016	31,682	28,848	11.5

^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 Estimates of inventories for the semiconductor industry data are included in computers and electronic products, and all other applicable aggregate totals.

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

Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, August Full Report, October 4, 2022. 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 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
	Aug. 2022 ^p	July 2022 ^r	June 2022	July - Aug.	June - July	May - June	Aug. 2022 ^p	July 2022 ^r	June 2022	Aug. 2021	2022 ^p	2021	
SHIPMENTS													
All manufacturing industries.....	547,944	545,282	550,206	0.5	-0.9	0.8	569,812	523,169	586,711	501,241	4,287,724	3,780,743	13.4
Construction materials and supplies.....	61,466	61,442	61,646	0.0	-0.3	0.3	67,360	61,893	68,028	60,930	495,307	447,242	10.7
Information technology.....	25,253	24,971	24,909	1.1	0.2	1.7	25,073	23,116	27,598	22,906	191,040	177,639	7.5
Computers and related products.....	2,190	2,164	1,984	1.2	9.1	7.3	2,126	1,992	2,430	1,751	14,877	13,498	10.2
Motor vehicle and parts.....	59,935	59,659	59,651	0.5	0.0	1.6	65,167	50,275	62,841	54,711	463,040	408,915	13.2
Capital goods.....	96,633	94,963	93,411	1.8	1.7	-0.4	96,191	86,947	104,888	84,350	734,189	660,282	11.2
Nondefense capital goods ³	82,126	80,660	79,762	1.8	1.1	-0.2	82,115	74,067	90,655	71,432	626,237	558,636	12.1
Excluding aircraft.....	74,246	73,946	73,474	0.4	0.6	0.8	74,913	69,104	80,372	66,851	574,771	513,726	11.9
Defense capital goods ⁴	14,507	14,303	13,649	1.4	4.8	-1.9	14,076	12,880	14,233	12,918	107,952	101,646	6.2
Consumer goods.....	235,274	235,226	240,856	0.0	-2.3	1.9	244,352	229,511	251,539	207,630	1,830,530	1,553,818	17.8
Consumer durable goods.....	45,050	44,755	45,259	0.7	-1.1	1.8	48,237	37,635	47,836	41,220	344,717	311,433	10.7
Consumer nondurable goods.....	190,224	190,471	195,597	-0.1	-2.6	1.9	196,115	191,876	203,703	166,410	1,485,813	1,242,385	19.6
NEW ORDERS													
All manufacturing industries ⁵	548,419	548,449	554,232	0.0	-1.0	1.8	564,168	523,696	588,313	500,229	4,301,919	3,801,549	13.2
Construction materials and supplies.....	61,708	61,566	61,582	0.2	0.0	-0.1	66,749	61,806	67,586	62,244	500,602	467,653	7.0
Information technology.....	25,627	25,382	25,195	1.0	0.7	2.1	24,313	22,514	27,817	22,826	191,791	182,428	5.1
Computers and related products.....	2,182	2,174	1,995	0.4	9.0	8.2	2,118	2,002	2,441	1,737	14,868	13,459	10.5
Motor vehicle and parts.....	59,830	59,623	59,650	0.3	0.0	1.6	65,111	50,106	62,141	55,202	463,037	411,672	12.5
Capital goods.....	101,399	102,190	98,332	-0.8	3.9	0.7	97,592	92,343	109,302	88,105	776,428	689,300	12.6
Nondefense capital goods ³	84,785	87,100	84,937	-2.7	2.5	1.0	82,905	81,178	94,359	77,852	671,558	588,505	14.1
Excluding aircraft.....	75,723	74,709	74,190	1.4	0.7	1.0	74,684	68,913	80,033	67,947	584,005	532,184	9.7
Defense capital goods ⁴	16,614	15,090	13,395	10.1	12.7	-1.4	14,687	11,165	14,943	10,253	104,870	100,795	4.0
Consumer goods.....	235,203	235,138	240,785	0.0	-2.3	2.0	244,223	229,446	251,269	207,594	1,829,604	1,555,908	17.6
Consumer durable goods.....	44,979	44,667	45,188	0.7	-1.2	2.4	48,108	37,570	47,566	41,184	343,791	313,523	9.7
Consumer nondurable goods.....	190,224	190,471	195,597	-0.1	-2.6	1.9	196,115	191,876	203,703	166,410	1,485,813	1,242,385	19.6
UNFILLED ORDERS													
All manufacturing industries ⁵	1,132,082	1,126,755	1,118,721	0.5	0.7	0.8	1,126,408	1,126,849	1,121,396	1,054,291	(X)	(X)	6.8
Construction materials and supplies.....	89,176	88,934	88,810	0.3	0.1	-0.1	90,156	90,767	90,854	84,489	(X)	(X)	6.7
Information technology.....	143,577	143,203	142,792	0.3	0.3	0.2	142,162	142,922	143,524	136,050	(X)	(X)	4.5
Computers and related products.....	1,210	1,218	1,208	-0.7	0.8	0.9	1,210	1,218	1,208	1,338	(X)	(X)	-9.6
Motor vehicle and parts.....	28,331	28,436	28,472	-0.4	-0.1	0.0	27,744	27,800	27,969	26,458	(X)	(X)	4.9
Capital goods.....	826,510	821,744	814,517	0.6	0.9	0.6	822,410	821,009	815,613	764,762	(X)	(X)	7.5
Nondefense capital goods ³	638,393	635,734	629,294	0.4	1.0	0.8	636,949	636,159	629,048	576,708	(X)	(X)	10.4
Excluding aircraft.....	266,998	265,521	264,758	0.6	0.3	0.3	265,528	265,757	265,948	249,309	(X)	(X)	6.5
Defense capital goods ⁴	188,117	186,010	185,223	1.1	0.4	-0.1	185,461	184,850	186,565	188,054	(X)	(X)	-1.4
Consumer goods.....	10,781	10,852	10,940	-0.7	-0.8	-0.6	10,569	10,698	10,763	11,660	(X)	(X)	-9.4
Consumer durable goods.....	10,781	10,852	10,940	-0.7	-0.8	-0.6	10,569	10,698	10,763	11,660	(X)	(X)	-9.4
TOTAL INVENTORIES													
All manufacturing industries.....	800,189	801,381	801,535	-0.1	0.0	0.4	802,917	807,098	802,257	737,806	(X)	(X)	8.8
Construction materials and supplies.....	86,671	86,335	85,951	0.4	0.4	0.7	86,165	86,593	86,052	78,017	(X)	(X)	10.4
Information technology.....	44,660	44,259	44,026	0.9	0.5	0.8	45,268	44,713	44,110	41,444	(X)	(X)	9.2
Computers and related products.....	3,967	3,903	3,874	1.6	0.7	-0.4	4,134	3,967	3,931	3,808	(X)	(X)	8.6
Motor vehicle and parts.....	51,734	51,497	51,552	0.5	-0.1	-0.4	52,561	52,283	50,812	49,187	(X)	(X)	6.9
Capital goods.....	236,323	235,687	234,656	0.3	0.4	0.7	238,533	237,201	235,065	221,924	(X)	(X)	7.5
Nondefense capital goods ³	213,631	212,851	212,041	0.4	0.4	0.6	215,759	214,327	212,353	200,274	(X)	(X)	7.7
Excluding aircraft.....	148,515	147,514	146,642	0.7	0.6	0.9	149,939	148,579	147,159	133,654	(X)	(X)	12.2
Defense capital goods ⁴	22,692	22,836	22,615	-0.6	1.0	1.5	22,774	22,874	22,712	21,650	(X)	(X)	5.2
Consumer goods.....	242,973	245,562	247,818	-1.1	-0.9	-0.2	243,711	248,032	249,088	222,688	(X)	(X)	9.4
Consumer durable goods.....	43,606	43,321	43,187	0.7	0.3	-0.7	44,724	43,556	42,405	40,257	(X)	(X)	11.1
Consumer nondurable goods.....	199,367	202,241	204,631	-1.4	-1.2	-0.1	198,987	204,476	206,683	182,431	(X)	(X)	9.1

^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, August Full Report, October 4, 2022. 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 dollars and are based on data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

Industry	Seasonally Adjusted						Not Seasonally Adjusted				
	Monthly			Percent Change			Monthly				% Change August 2022/ 2021
	Aug. 2022 ^p	July 2022 ^r	June 2022	July - Aug.	June - July	May - June	Aug. 2022 ^p	July 2022 ^r	June 2022	Aug. 2021	
<u>MATERIALS AND SUPPLIES</u>											
All manufacturing industries.....	294,493	294,320	294,301	0.1	0.0	0.6	294,929	297,138	295,457	262,065	12.5
Durable goods industries.....	180,471	180,414	179,438	0.0	0.5	1.0	181,375	182,243	179,219	160,391	13.1
Wood products.....	6,522	6,624	6,594	-1.5	0.5	0.3	6,484	6,564	6,447	5,880	10.3
Nonmetallic mineral products.....	7,261	7,053	6,946	2.9	1.5	0.6	7,267	7,068	6,984	6,183	17.5
Primary metals.....	14,286	14,557	14,610	-1.9	-0.4	0.4	14,268	14,653	14,610	12,471	14.4
Fabricated metal products.....	25,606	25,572	25,605	0.1	-0.1	-0.1	25,686	25,853	25,697	22,889	12.2
Machinery.....	36,432	36,468	36,040	-0.1	1.2	1.0	36,716	36,891	36,141	30,838	19.1
Computers and electronic products.....	25,281	24,966	24,708	1.3	1.0	1.8	25,517	25,251	24,830	22,444	13.7
Electrical equipment, appliances, and components.....	10,988	10,859	10,781	1.2	0.7	0.4	11,110	11,150	10,925	9,182	21.0
Transportation equipment.....	40,397	40,650	40,609	-0.6	0.1	1.8	40,461	40,982	39,982	37,895	6.8
Furniture and related products.....	4,890	4,851	4,814	0.8	0.8	1.5	4,887	4,870	4,886	4,094	19.4
Miscellaneous products.....	8,808	8,814	8,731	-0.1	1.0	0.4	8,979	8,961	8,717	8,515	5.4
Nondurable goods industries.....	114,022	113,906	114,863	0.1	-0.8	0.0	113,554	114,895	116,238	101,674	11.7
Food products.....	23,983	24,078	24,041	-0.4	0.2	0.4	23,610	23,910	23,834	22,652	4.2
Beverage and tobacco products.....	5,700	5,621	5,876	1.4	-4.3	0.9	5,420	5,361	5,706	5,731	-5.4
Textiles.....	1,431	1,444	1,404	-0.9	2.8	2.9	1,438	1,457	1,408	1,260	14.1
Textile products.....	1,583	1,620	1,517	-2.3	6.8	0.7	1,584	1,617	1,507	1,392	13.8
Apparel.....	739	737	741	0.3	-0.5	3.3	766	768	756	642	19.3
Leather and allied products.....	373	373	364	0.0	2.5	2.2	381	387	370	302	26.2
Paper products.....	8,895	8,793	8,723	1.2	0.8	1.6	8,953	8,871	8,695	8,024	11.6
Printing	3,364	3,359	3,320	0.1	1.2	2.0	3,408	3,375	3,327	3,050	11.7
Petroleum and coal products.....	17,687	17,652	18,924	0.2	-6.7	-3.2	17,572	18,656	20,880	13,311	32.0
Chemical products.....	36,355	36,383	36,246	-0.1	0.4	0.8	36,372	36,557	36,067	32,478	12.0
Plastics and rubber products.....	13,912	13,846	13,707	0.5	1.0	-0.9	14,050	13,936	13,688	12,832	9.5
<u>WORK IN PROCESS</u>											
All manufacturing industries.....	224,836	226,143	226,187	-0.6	0.0	0.1	226,026	228,046	226,673	214,612	5.3
Durable goods industries.....	172,373	172,093	172,322	0.2	-0.1	0.0	173,850	173,143	172,796	167,970	3.5
Wood products.....	2,083	2,090	2,086	-0.3	0.2	-0.7	2,073	2,074	2,075	1,966	5.4
Nonmetallic mineral products.....	1,485	1,484	1,480	0.1	0.3	0.3	1,473	1,488	1,505	1,486	-0.9
Primary metals.....	12,617	12,390	12,720	1.8	-2.6	-1.4	12,894	12,549	12,881	12,410	3.9
Fabricated metal products.....	14,953	14,859	14,771	0.6	0.6	0.5	14,976	15,007	14,808	13,821	8.4
Machinery.....	23,518	23,198	23,403	1.4	-0.9	0.4	23,824	22,989	23,616	20,202	17.9
Computers and electronic products.....	13,098	13,116	13,153	-0.1	-0.3	-1.2	12,815	13,124	13,254	14,053	-8.8
Electrical equipment, appliances, and components.....	4,232	4,209	4,176	0.5	0.8	-0.9	4,281	4,313	4,260	3,905	9.6
Transportation equipment.....	94,415	94,809	94,626	-0.4	0.2	0.3	95,451	95,615	94,462	94,590	0.9
Furniture and related products.....	1,342	1,347	1,347	-0.4	0.0	1.5	1,345	1,339	1,364	1,308	2.8
Miscellaneous products.....	4,630	4,591	4,560	0.8	0.7	-0.6	4,718	4,645	4,571	4,229	11.6
Nondurable goods industries.....	52,463	54,050	53,865	-2.9	0.3	0.3	52,176	54,903	53,877	46,642	11.9
Food products.....	6,080	5,881	5,995	3.4	-1.9	-0.8	5,624	5,501	5,590	5,296	6.2
Beverage and tobacco products.....	8,959	8,990	8,910	-0.3	0.9	0.7	8,620	8,611	8,620	8,432	2.2
Textiles.....	624	622	619	0.3	0.5	0.7	624	629	616	575	8.5
Textile products.....	471	464	451	1.5	2.9	-0.4	473	464	443	415	14.0
Apparel.....	281	281	281	0.0	0.0	1.1	293	292	293	279	5.0
Leather and allied products.....	118	123	120	-4.1	2.5	4.3	121	124	119	123	-1.6
Paper products.....	1,406	1,438	1,446	-2.2	-0.6	-0.5	1,439	1,476	1,462	1,398	2.9
Printing	1,254	1,257	1,271	-0.2	-1.1	-0.5	1,281	1,227	1,208	1,223	4.7
Petroleum and coal products.....	13,192	14,925	14,881	-11.6	0.3	-0.9	13,550	16,151	15,385	9,654	40.4
Chemical products.....	16,473	16,518	16,348	-0.3	1.0	1.7	16,538	16,914	16,619	15,767	4.9
Plastics and rubber products.....	3,605	3,551	3,543	1.5	0.2	-0.3	3,613	3,514	3,522	3,480	3.8
<u>FINISHED GOODS</u>											
All manufacturing industries.....	280,860	280,918	281,047	0.0	0.0	0.5	281,962	281,914	280,127	261,129	8.0
Durable goods industries.....	134,644	133,836	133,383	0.6	0.3	0.3	135,045	134,201	132,459	125,384	7.7
Wood products.....	6,104	6,012	6,092	1.5	-1.3	1.0	5,932	5,885	6,024	5,826	1.8
Nonmetallic mineral products.....	7,527	7,633	7,553	-1.4	1.1	1.2	7,438	7,670	7,614	6,802	9.4
Primary metals.....	12,053	12,137	11,954	-0.7	1.5	0.3	11,686	12,049	11,732	10,425	12.1
Fabricated metal products.....	22,222	22,177	22,053	0.2	0.6	0.6	22,149	22,490	22,260	20,493	8.1
Machinery.....	24,466	24,245	23,826	0.9	1.8	2.0	24,227	23,932	23,570	22,236	9.0
Computers and electronic products.....	14,078	14,196	14,236	-0.8	-0.3	0.5	14,501	14,380	14,067	13,743	5.5
Electrical equipment, appliances, and components.....	7,929	7,881	7,905	0.6	-0.3	0.5	8,007	7,937	7,903	7,261	10.3
Transportation equipment.....	22,666	22,055	22,341	2.8	-1.3	-2.9	23,411	22,313	21,904	22,298	5.0
Furniture and related products.....	3,762	3,720	3,686	1.1	0.9	0.5	3,807	3,813	3,754	3,226	18.0
Miscellaneous products.....	13,837	13,780	13,737	0.4	0.3	1.2	13,887	13,732	13,631	13,074	6.2
Nondurable goods industries.....	146,216	147,082	147,664	-0.6	-0.4	0.7	146,917	147,713	147,668	135,745	8.2
Food products.....	32,821	32,809	32,535	0.0	0.8	-0.5	33,573	32,604	31,765	31,629	6.1
Beverage and tobacco products.....	13,806	13,684	13,446	0.9	1.8	-0.6	13,762	13,631	13,535	12,069	14.0
Textiles.....	1,585	1,590	1,561	-0.3	1.9	1.6	1,584	1,604	1,553	1,271	24.6
Textile products.....	2,281	2,226	2,321	2.5	-4.1	0.3	2,277	2,208	2,304	2,100	8.4
Apparel.....	1,358	1,305	1,270	4.1	2.8	3.6	1,444	1,387	1,350	1,004	43.8
Leather and allied products.....	688	654	618	5.2	5.8	7.1	699	674	632	440	58.9
Paper products.....	6,427	6,429	6,381	0.0	0.8	0.1	6,467	6,532	6,388	6,290	2.8
Printing	1,886	1,847	1,816	2.1	1.7	0.8	1,889	1,820	1,828	1,827	3.4
Petroleum and coal products.....	18,590	20,127	21,746	-7.6	-7.4	1.9	18,717	21,167	22,429	16,505	13.4
Chemical products.....	52,027	51,744	51,412	0.5	0.6	0.6	51,993	51,520	51,412	50,074	3.8
Plastics and rubber products.....	14,747	14,667	14,558	0.5	0.7	3.3	14,512	14,566	14,472	12,536	15.8

^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.

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, 2022. 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			
	Aug 2022 ⁶	Jul 2022 ⁷	Jun 2022	May 2022	Aug 2022 ⁶	Jul 2022 ⁷	Jun 2022	May 2022
All manufacturing industries ³	1.46	1.47	1.46	1.46	(X)	(X)	(X)	(X)
Durable goods industries ³	1.79	1.80	1.80	1.80	6.01	6.05	6.03	5.98
Wood products.....	1.14	1.15	1.15	1.12	(X)	(X)	(X)	(X)
Nonmetallic mineral products.....	1.30	1.29	1.27	1.27	(X)	(X)	(X)	(X)
Primary metals.....	1.88	1.89	1.84	1.83	1.49	1.49	1.44	1.45
Fabricated metal products.....	1.70	1.69	1.68	1.69	3.28	3.26	3.26	3.28
Machinery.....	2.22	2.21	2.21	2.19	3.84	3.84	3.84	3.83
Computers and electronic products ³	1.79	1.79	1.79	1.81	6.23	6.25	6.25	6.34
Electrical equipment, appliances, and components.....	1.72	1.74	1.71	1.70	3.17	3.22	3.11	3.09
Transportation equipment.....	1.79	1.82	1.85	1.85	11.90	12.16	12.37	12.07
Furniture and related products.....	1.61	1.60	1.60	1.57	1.87	1.89	1.90	1.88
Miscellaneous products.....	1.92	1.94	1.93	1.91	(X)	(X)	(X)	(X)
Nondurable goods industries.....	1.13	1.14	1.13	1.14	(X)	(X)	(X)	(X)
Food products.....	0.83	0.82	0.82	0.83	(X)	(X)	(X)	(X)
Beverage and tobacco products.....	1.70	1.72	1.71	1.76	(X)	(X)	(X)	(X)
Textiles.....	1.55	1.57	1.57	1.53	(X)	(X)	(X)	(X)
Textile products.....	2.19	2.18	2.15	2.11	(X)	(X)	(X)	(X)
Apparel.....	3.33	3.21	3.13	3.04	(X)	(X)	(X)	(X)
Leather and allied products.....	2.67	2.73	2.61	2.34	(X)	(X)	(X)	(X)
Paper products.....	1.03	1.03	1.01	1.00	(X)	(X)	(X)	(X)
Printing.....	0.94	0.93	0.92	0.93	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.76	0.80	0.79	0.83	(X)	(X)	(X)	(X)
Chemical products.....	1.57	1.58	1.56	1.56	(X)	(X)	(X)	(X)
Plastics and rubber products.....	1.43	1.43	1.42	1.41	(X)	(X)	(X)	(X)

^x Not Applicable
⁶ Preliminary
⁷ 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, August Full Report, October 4, 2022. 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	
	Aug ² 2022	Aug ³ 2021- Jul	Aug ² 2022	Aug ³ 2021- Jul	Aug ² 2022	Aug ³ 2021- Jul	Aug ² 2022	Aug ³ 2021- Jul
All manufacturing industries.....	(X)	0.2	(X)	0.3	(X)	0.1	(X)	0.1
Durable goods industries.....	0.1	0.1	0.0	0.5	0.0	0.1	0.0	0.1
Wood products.....	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.2
Nonmetallic mineral products.....	(X)	0.4	(X)	(NA)	(X)	(NA)	(X)	0.2
Primary metals.....	0.3	0.4	0.2	0.6	0.0	0.2	0.0	0.1
Fabricated metal products.....	-0.1	0.2	0.0	0.4	0.1	0.1	0.1	0.1
Machinery.....	0.0	0.3	0.0	0.4	0.1	0.1	0.1	0.2
Computers and electronic products....	0.0	0.2	-0.1	0.3	0.0	0.1	0.0	0.1
Electrical equipment, appliances, and components.....	0.5	0.3	0.6	0.8	0.0	0.2	0.0	0.3
Transportation equipment.....	0.1	0.3	0.0	1.5	0.0	0.2	0.0	0.1
Furniture and related products.....	(X)	0.4	(X)	0.6	(X)	0.4	(X)	0.3
Miscellaneous products.....	(X)	0.4	(X)	0.4	(X)	0.4	(X)	0.1
Nondurable goods industries.....	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.2
Food products.....	(X)	0.1	(X)	(NA)	(X)	(NA)	(X)	0.1
Beverage and tobacco products.....	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.3
Textiles.....	(X)	0.4	(X)	(NA)	(X)	(NA)	(X)	0.4
Textile products.....	(X)	0.5	(X)	(NA)	(X)	(NA)	(X)	0.2
Apparel.....	(X)	0.5	(X)	(NA)	(X)	(NA)	(X)	0.7
Leather and allied products.....	(X)	0.9	(X)	(NA)	(X)	(NA)	(X)	0.6
Paper products.....	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.1
Printing.....	(X)	0.8	(X)	(NA)	(X)	(NA)	(X)	0.4
Petroleum and coal products.....	(X)	1.0	(X)	(NA)	(X)	(NA)	(X)	0.7
Chemical products.....	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.2
Plastics and rubber products.....	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.2

X Not Applicable
NA Not Available
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, August Full Report, October 4, 2022. 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>.