FOR RELEASE AT 10:00 AM EDT, FRIDAY, MAY 12, 2023

BENCHMARK REPORT ON MANUFACTURERS' SHIPMENTS, INVENTORIES AND ORDERS

Release Number: CB 23-69 M3-3 (23)-B

May 12, 2023 — The U.S. Census Bureau released revisions to the monthly data from the Manufacturers' Shipments, Inventories, and Orders (M3) Survey, which span the seasonally adjusted data for January 2012 through March 2023 and the data not seasonally adjusted for January 2017 through March 2023. These revisions can be found in the "Historical Time Series and M3 Survey Revision Information" section of the "Data" tab located at < www.census.gov/m3. An updated Benchmark Release contains revised monthly tables for January 2023 through March 2023 on a 2017 North American Industry Classification System (NAICS) basis. Also, four Excel spreadsheets comprise the Benchmark Report, which contain revised data for 2019 through 2022, and can be found in the "Benchmark Report" section at the link listed above. This comprehensive revision includes:

- Benchmarking the M3 shipments and inventories data to the 2021 and 2020 Annual Survey of Manufactures (ASM) data;
- Incorporating the unfilled orders to shipments ratios obtained for 2021, 2020, and 2019 from the Manufacturers' Unfilled Orders (M3UFO) Survey;
- Adjusting the new orders data to be consistent with the benchmarked shipments and unfilled orders data;
- Correcting monthly data for late receipts, reclassifications of reported data, and revisions to previously reported data;
- Updating the seasonally adjusted data based on the results of benchmarking and the recent annual review of the seasonal adjustment models.

Data in the April 2023 Advance Report on Durable Goods, scheduled for release on May 26, 2023, at 8:30 a.m. EDT, and the Full Report, scheduled for release on June 5, 2023, at 10:00 a.m. EDT, will be consistent with the data contained in the report issued today. The full text and tables of this release can be found at <www.census.gov/m3>.

Data Inquiries

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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.

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-inprocess, 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 monthto-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. Any revisions made later than two months will be reflected in the annual benchmark publication. Additional survey documentation can be found on our web site:

www.census.gov/manufacturing/m3/how the data are collected/index.html>.

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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 January 2023 - March 2023

	and are based on data from the Manutacturers' Shipments, Inv. Seasonally Adjusted							Not Seasonally Adjusted						
		Monthly		Pei	cent Char	nge		Mon	thly		Year to date			
Industry	Mar. 2023	Feb. 2023	Jan. 2023	Feb Mar.	Jan Feb.	Dec Jan.	Mar. 2023	Feb. 2023	Jan. 2023	Mar. 2022	2023	2022	Percent change 2023/ 2022	
All manufacturing industries ²	574,998	578,124	581,720	-0.5	-0.6	0.7	612,862	535,019	540,816	607,719	1,688,697	1,627,643	3.8	
Excluding transportation ²	486,124	491,328	494,157	-1.1	-0.6	1.1	510,172	452,928	463,539	517,051	1,426,639	1,394,639	2.3	
Excluding defense ²	559,965	562,951	566,355	-0.5	-0.6	0.7	596,143	520,451	528,057	592,053	1,644,651	1,586,550	3.7	
With unfilled orders	194,334	192,131	192,528	1.1	-0.2	0.1	213,121	179,930	174,986	201,666	568,037	539,196	5.3	
Durable goods industries ²	279,706	277,684	279,043	0.7	-0.5	0.1	306,448	259,423	253,017	291,764	818,888	775,754	5.6	
Wood products	13,468	13,417	13,484	0.4	-0.5	0.4	13,812	12,244	11,612	14,188	37,668	38,526	-2.2	
Nonmetallic mineral products Primary metals	13,080 26,976	13,222 26,787	13,369 26,877	-1.1 0.7	-1.1 -0.3	1.2 1.8	13,318 29,241	11,516 25,799	11,781 26,333	13,091 29,703	36,615 81,373	35,216 80,770	4.0 0.7	
Iron and steel mills	15,102	14,847	14,715	1.7	0.9	-0.2	16,278	14,128	14,445	15,442	44,851	43,005	4.3	
Aluminum and nonferrous metals Ferrous metal foundries	10,159 1,715	10,205 1,735	10,455 1,707	-0.5 -1.2	-2.4 1.6	3.8 7.2	11,056 1,907	10,027 1,644	10,279 1,609	12,518 1,743	31,362 5,160	33,222 4,543	-5.6 13.6	
Fabricated metal products	35,380	35,329	35,288	0.1	0.1	-0.2	37,390	33,132	33,071	37,543	103,593	103,760	-0.2	
Machinery Farm machinery	37,090 2,371	37,410 2,374	37,375 2,483	-0.9 -0.1	0.1 -4.4	0.8 -4.6	41,180 2,789	35,446 2,516	33,761 2,240	40,316 3,885	110,387 7,545	105,976 10,289	4. <u>2</u> -26.7	
Construction machinery	4,225	4,107	4,260	2.9	-3.6	4.7	4,774	3,968	3,816	3,877	12,558	10,003	25.5	
Mining, oil field, and gas field machinery	1,635	1,904	1,591	-14.1	19.7	0.4	1,745	1,774	1,502	1,551	5,021	4,094	22.6	
Industrial machinery	3,702	3,834	3,834	-3.4	0.0	6.4	4,113	3,261	3,264	4,288	10,638	10,768	-1.2	
Photographic equipment Ventilation, heating, air-conditioning,	623	611	622	2.0	-1.8	-2.7	730	550	523	737	1,803	1,812	-0.5	
and refrigeration equipment	4,676	4,734	4,788	-1.2	-1.1	1.9	5,126	4,039	3,908	4,856	13,073	12,224	6.9	
Metalworking machinery	2,717	2,861	2,778	-5.0	3.0	-1.8	2,967	2,651	2,537	3,052	8,155	8,210	-0.7	
Turbines, generators, and other power transmission equipment	4,051	3,837	3,740	5.6	2.6	-2.0	4,131	3,858	3,567	3,612	11,556	10,561	9.4	
Material handling equipment	3,795	3,760	3,843	0.9	-2.2	2.2	4,365	3,666	3,612	4,181	11,643	10,829	7.5	
Computers and electronic products ² Computers	29,342 799	29,423 805	29,430 798	-0.3 -0.7	0.0 0.9	0.5 5.1	30,888 760	26,514 636	26,893 697	29,997 692	84,295 2,093	81,122 1,928	3.9 8.6	
Computer storage devices	370	358	372	3.4	-3.8	6.0	481	273	324	431	1,078	990	8.9	
Other peripheral equipment Nondefense communications	796	765	775	4.1	-1.3	2.0	858	602	718	600	2,178	1,477	47.5	
equipment	2,919	2,951	2,931	-1.1	0.7	0.6	3,426	2,404	2,325	3,284	8,155	7,900	3.2	
Defense communications equipment	203 377	205	208 467	-1.0 2.4	-1.4 -21.2	2.0 33.0	209 325	202 324	169 402	203 428	580 1,051	554 1,287	4.7 -18.3	
Audio and video equipment Electronic components	4,766	368 4,861	4,760	-2.0	2.1	0.9	5,113	4,492	4,373	5,025	13,978	13,362	4.6	
Nondefense search and navigation	1 615	1.631	1.604	0.4		1.0	1 025	1 520	1 420	1 024	4 700	4 722	1.2	
equipment Defense search and navigation	1,615	1,621	1,604	-0.4	1.1	-1.0	1,825	1,529	1,436	1,834	4,790	4,733	1.2	
equipment	3,188	3,207	3,194	-0.6	0.4	-1.2	3,416	3,054	2,676	3,361	9,146	9,032	1.3	
Electromedical, measuring, and control instruments	8,811	8,736	8,711	0.9	0.3	-0.4	9,742	7,801	7,569	9,473	25,112	24,739	1.5	
Electrical equipment, appliances,	14,126	13,946	14,116	1.3	-1.2	4.0	15,487	12,765	12,359	14,243	40,611	36,748	10.5	
and components Electric lighting equipment	1,283	1,269	1,258	1.1	0.9	1.0	1,350	1,151	1,141	1,258	3,642	3,422	6.4	
Household appliances	2,346	2,361	2,437	-0.6	-3.1	3.4	2,621	2,081	1,980	2,690	6,682	6,594	1.3	
Electrical equipment Batteries	4,592 1,370	4,505 1,306	4,650 1,247	1.9 4.9	-3.1 4.7	6.6 5.1	5,267 1,437	4,178 1,160	4,037 1,091	4,474 1,079	13,482 3,688	11,307 2,705	19.2 36.3	
Transportation equipment	88,874	86,796	87,563	2.4	-0.9	-1.4	102,690	82,091	77,277	90,668	262,058	233,004	12.5	
Automobiles Light trucks and utility vehicles	8,763 20,583	8,681 20,594	8,309 21,310	0.9 -0.1	4.5 -3.4	-0.3 -0.3	10,827 24,355	8,183 19,335	6,987 18,829	9,997 22,347	25,997 62,519	23,136 55,339	12.4 13.0	
Heavy duty trucks	2,652	2,824	2,958	-6.1	-4.5	3.3	3,051	2,681	2,692	2,635	8,424	6,779	24.3	
Motor vehicle bodies, parts, and trailers	29,049	29,028	28,866	0.1	0.6	0.8	32,258	28,689	27,375	30,573	88,322	82,920	6.5	
Nondefense aircraft and parts	12,570	10,205	10,392	23.2	-1.8	-11.8	15,275	8,282	8,362	9,576	31,919	23,779	34.2	
Defense aircraft and parts Ships and boats	4,652 3,832	4,681 3,852	4,864 3,855	-0.6 -0.5	-3.8 -0.1	0.9 2.5	5,176 4,203	4,266 3,921	3,982 3,192	5,080 3,780	13,424 11,316	12,836 10,034	4.6 12.8	
Furniture and related products	6,905	6,896	6,993	0.1	-1.4	0.6	7,016	6,590	6,462	6,891	20,068	19,489	3.0	
Miscellaneous durable goods	14,465	14,458	14,548	0.0	-0.6	-0.4	15,426	13,326	13,468	15,124	42,220	41,143	2.6	
Nondurable goods industries	295,292	300,440	302,677	-1.7	-0.7	1.2	306,414	275,596	287,799	315,955	869,809	851,889	2.1	
Food products	80,326 10,146	80,257 10,212	79,999 10,180	0.1 -0.6	0.3 0.3	0.3 0.6	81,725 10,384	77,142 9,833	77,185 10,090	81,330 10,333	236,052 30,307	231,775 28,912	1.8 4.8	
Grain and oilseed milling Dairy products	11,803	11,819	11,875	-0.6	-0.5	0.0	11,945	11,023	11,651	11,722	34,619	33,456	3.5	
Meat, poultry, and seafood products	24,252	24,152	24,230	0.4	-0.3	-0.6	24,599	23,169	22,851	25,452	70,619	71,938	-1.8	
Beverage and tobacco products Beverages	17,195 10,687	16,757 10,833	16,752 10,725	2.6 -1.3	0.0 1.0	-1.2 1.4	17,116 10,608	15,574 9,650	15,704 9,677	15,207 9,887	48,394 29,935	42,135 27,642	14.9 8.3	
Tobacco	6,508	5,924	6,027	9.9	-1.7	-5.5	6,508	5,924	6,027	5,320	18,459	14,493	27.4	
Textile mills Textile products	2,117 2,014	2,149 2,043	2,165 2,042	-1.5 -1.4	-0.7 0.0	-0.6 0.0	2,209 2,079	2,098 1,998	2,008 1,851	2,381 2,154	6,315 5,928	6,709 6,050	-5.9 -2.0	
Apparel	837	858	871	-2.4	-1.5	-1.1	797	805	835	803	2,437	2,329	4.6	
Leather and allied products Paper products	498 17,596	505 17,541	527 17,515	-1.4 0.3	-4.2 0.1	1.7 1.3	503 18,291	469 16,510	483 17,259	449 18,040	1,455 52,060	1,173 50,950	24.0 2.2	
Pulp, paper, and paperboard mills	7,048	7,038	7,048	0.1	-0.1	2.4	7,218	6,564	7,066	6,914	20,848	19,729	5.7	
Paperboard containers Printing	6,349 7,346	6,313 7,410	6,265 7,380	0.6 -0.9	0.8 0.4	0.7 -0.1	6,693 7,566	5,882 6,777	6,164 7,047	6,748 7,370	18,739 21,390	18,791 20,201	-0.3 5.9	
Petroleum and coal products	64,762	70,223	73,138	-7.8	-4.0	4.1	65,454	58,993	68,043	78,319	192,490	193,767	-0.7	
Petroleum refineries Chemical products	59,981 77,952	65,428 77,919	68,330 77,415	-8.3 0.0	-4.2 0.7	4.5 0.8	60,984 84,483	55,160 72,339	64,159 73,771	74,109 83,161	180,303 230,593	182,533 223,895	-1.2 3.0	
Pesticides, fertilizers, and other														
agricultural chemicals Pharmaceuticals and medicines	4,001 24,623	3,929 24,645	3,983 24,355	1.8 -0.1	-1.4 1.2	-2.2 -0.1	5,407 25,727	4,128 22,217	3,805 23,226	5,485 23,480	13,340 71,170	13,631 63,920	-2.1 11.3	
Paints, coatings, and adhesives	4,130	4,227	4,180	-2.3	1.1	-1.1	4,531	3,807	3,738	4,652	12,076	12,057	0.2	
Plastics and rubber products	24,649	24,778	24,873	-0.5	-0.4	-0.1	26,191	22,891	23,613	26,741	72,695	72,905	-0.3	

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

reporters. Seasonally adjusted estimates include concurrent adjustments for noinacy and training-day differences, where appropriate, as well as seasonal variation, pased on the results of the latest annual review or the mode parameters, estimates are not adjusted to the processing 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 chittps://www.census.gov/manufacturing/m3/>.

Source: U.S. Census Bureau, Manufacturers' Shipments, inventories, and Orders (M3) Survey, Benchmark Report, May 12, 2023. Information on data sources and methodology can be found on our website at convex.essus.gov/manufacturing/m3/how_the_data_are_collected/index.hmlp.

The Census Bureau has reviewed this data product to ensure appropriate access, use, and disclosure avoidance protection of the confidential source data (Project No. P-6000307, Disclosure Review Board (DRB) approval number: CBDRB-FY23-0294).

Table 2. Value of Manufacturers' New Orders for Industry Groups¹ January 2023 - March 2023

			Seasonally A	djusted			Not Seasonally Adjusted						
		Monthly		Pe	ercent Chan	ge		Mon	thly			Year to date	
Industry	Mar. 2023	Feb. 2023	Jan. 2023	Feb Mar.	Jan Feb.	Dec Jan.	Mar. 2023	Feb. 2023	Jan. 2023	Mar. 2022	2023	2022	Percent change 2023/ 2022
All manufacturing industries ²	573,809	571,265	581,049	0.4	-1.7	0.0	618,458	532,423	542,609	614,653	1,693,490	1,655,878	2.3
Excluding transportation ²	480,824	485,546	487,600	-1.0	-0.4	0.9	508,467	450,774	462,194	517,251	1,421,435	1,397,781	1.7
Excluding defense ²	558,249	555,847	564,163	0.4	-1.5	-0.2	597,936	518,089	529,198	596,400	1,645,223	1,614,754	1.9
With unfilled orders	198,491	190,665	197,315	4.1	-3.4	-1.9	223,287	182,385	182,836	213,110	588,508	582,105	1.1
Durable goods industries ²	278,517	270,825	278,372	2.8	-2.7	-1.3	312,044	256,827	254,810	298,698	823,681	803,989	2.4
Primary metals	26,920	26,708	26,548	0.8	0.6	0.7	29,373	26,530	26,580	30,244	82,483	83,546	-1.3
Iron and steel mills	15,095	14,863	14,452	1.6	2.8	-1.9	16,481	14,652	14,423	15,915	45,556	44,659	2.0
Aluminum and nonferrous metals	10,115	10,113	10,458	0.0	-3.3	4.4	11,024	10,176	10,539	12,474	31,739	33,983	-6.6
Ferrous metal foundries	1,710	1,732	1,638	-1.3	5.7	1.9	1,868	1,702	1,618	1,855	5,188	4,904	5.8
Fabricated metal products	35,209	35,056	34,958	0.4	0.3	-0.8	39,004	33,820	33,915	39,548	106,739	108,453	-1.6
Machinery	36,863	37,201	37,254	-0.9	-0.1	0.2	40,698	36,279	36,487	40,634	113,464	111,750	1.5
Construction machinery	4,169	3,665	3,860	13.8	-5.1	0.0	4,688	3,740	4,041	4,003	12,469	11,281	10.5
Mining, oil field, and	4 573	1.933	1.605	-18.6	20.4	0.8	1.683	1.803	4.546	4 425	F 003	3.881	28.9
gas field machinery	1,573 3,604	3,886	4,192	-18.6 -7.3	-7.3	13.9	3,981	3,228	1,516	1,425 4,383	5,002 11,581	11,610	-0.2
Industrial machinery Photographic equipment	694	720	640	-7.5 -3.6	-7.3 12.5	2.6	734	3,228 787	4,372 536	4,363 655	2,057	1,773	16.0
Ventilation, heating, air-conditioning,	094	720	040	-3.0	12.3	2.0	/34	767	550	033	2,037	1,773	10.0
and refrigeration equipment	4,907	4,713	4,829	4.1	-2.4	-1.7	5,543	4,135	4,390	4,892	14,068	13,246	6.2
Metalworking machinery	2,649	2,896	2,758	-8.5	5.0	3.2	2,730	2,967	2,665	3,044	8,362	8,509	-1.7
Turbines, generators, and other	2,043	2,030	2,750	0.5	5.0	3.2	2,730	2,507	2,003	3,044	0,302	0,303	1
power transmission equipment	3,915	3,865	3,563	1.3	8.5	-7.0	3,995	3,886	3,390	3,601	11,271	10,675	5.6
Material handling equipment	3,797	3,809	3,980	-0.3	-4.3	2.6	4,243	3,767	3,907	4,434	11,917	11,795	1.0
Computers and electronic products ²	24,509	23,976	23,850	2.2	0.5	-0.2	27,768	21,339	20,820	26,791	69,927	68,319	2.4
Computers	815	799	819	2.0	-2.4	8.5	776	630	718	694	2,124	1,913	11.0
Nondefense communications											,	· ·	
equipment	2,885	2,897	2,942	-0.4	-1.5	1.6	3,451	2,415	2,298	3,461	8,164	8,232	-0.8
Defense communications equipment	195	201	201	-3.0	0.0	3.1	201	202	172	202	575	549	4.7
Electronic components	4,695	4,742	4,589	-1.0	3.3	-0.6	4,897	4,352	4,358	5,060	13,607	13,838	-1.7
Nondefense search and navigation													
equipment	1,761	1,709	1,647	3.0	3.8	-14.0	2,040	1,612	1,575	2,020	5,227	5,298	-1.3
Defense search and navigation													
equipment	3,626	3,208	3,157	13.0	1.6	2.9	4,521	2,968	2,431	3,938	9,920	8,955	10.8
Electromedical, measuring,													l
and control instruments	8,837	8,776	8,729	0.7	0.5	-1.1	10,055	7,815	7,677	9,801	25,547	25,334	0.8
Electrical equipment, appliances,	44 200	44465	12.075	0.0		2.0	45.565	42 200	42.004	44.672	44.045	20.040	
and components	14,200 1,336	14,165 1,296	13,975 1,223	0.2 3.1	1.4 6.0	2.9 -10.1	15,565 1,438	13,299 1,192	13,081 1,115	14,673 1,316	41,945 3,745	38,849 3,526	8.0 6.2
Electric lighting equipment	2,423	2,547	2,439	-4.9	4.4	-10.1 -2.7	2,780	2,060	2,010	2,696	6,850	6,436	6.4
Household appliances Electrical equipment	4,503	4,523	4,574	-0.4	-1.1	13.3	5,064	4,443	4,669	4,694	14,176	13,129	8.0
Transportation equipment	92,985	85,719	93,449	8.5	-8.3	-4.2	109,991	81,649	80,415	97,402	272,055	258,097	5.4
Motor vehicle bodies, parts,	32,363	05,715	33,443	0.5	-0.5	-4.2	103,331	01,045	00,413	37,402	272,033	230,097] 3.4
and trailers	29,104	29,362	28,888	-0.9	1.6	1.4	32,030	29,754	27,920	30,654	89,704	84,421	6.3
Nondefense aircraft and parts	16,598	8,560	14,770	93.9	-42.0	-27.8	20,211	6,942	10,186	14,202	37,339	47,084	-20.7
Defense aircraft and parts	5,528	4,598	5,281	20.2	-12.9	12.7	6,681	3,638	4,888	4,961	15,207	11,224	35.5
Ships and boats	2,725	3,474	4,441	-21.6	-21.8	-0.6	4,402	4,739	4,201	5,092	13,342	11,608	14.9
Furniture and related products	6,854	6,955	7,013	-1.5	-0.8	1.4	7,125	6,877	6,727	6,999	20,729	19,845	4.5
Nondurable goods industries	295,292	300,440	302,677	-1.7	-0.7	1.2	306,414	275,596	287,799	315,955	869,809	851,889	2.1

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 https://www.census.gov/manufacturing/m3/. Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, Benchmark Report, May 12, 2023. 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>.

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Table 3. Value of Manufacturers' Unfilled Orders for Industry Groups¹
January 2023 - March 2023

			Seasonally Ad	ljusted			Not Seasonally Adjusted					
		Monthly		Р	ercent Chang	e		Mor	nthly		Percent	
Industry	Mar. 2023	Feb. 2023	Jan. 2023	Feb Mar.	Jan Feb.	Dec Jan.	Mar. 2023	Feb. 2023	Jan. 2023	Mar. 2022	Change Mar. 2023/ 2022	
All manufacturing industries ²	1,279,679	1,275,522	1,276,988	0.3	-0.1	0.4	1,290,767	1,280,601	1,278,146	1,232,263	4.7	
Excluding transportation ²	498,578	498,532	498,921	0.0	-0.1	-0.2	502,858	499,993	497,096	499,940	0.6	
Excluding defense ²	1,044,719	1,041,089	1,042,800	0.3	-0.2	0.3	1,051,818	1,045,455	1,042,766	1,004,489	4.7	
Durable goods industries ²	1,279,679	1,275,522	1,276,988	0.3	-0.1	0.4	1,290,767	1,280,601	1,278,146	1,232,263	4.7	
Primary metals	37,733	37,789	37,868	-0.1	-0.2	-0.9	38,876	38,744	38,013	40,791	-4.7	
Iron and steel mills	22,525	22,532	22,516	0.0	0.1	-1.2	23,166	22,963	22,439	23,713	-2.3	
Aluminum and nonferrous metals	10,667	10,711	10,803	-0.4	-0.9	0.0	11,086	11,118	10,969	12,595	-12.0	
Ferrous metal foundries	4,541	4,546	4,549	-0.1	-0.1	-1.5	4,624	4,663	4,605	4,483	3.1	
Fabricated metal products	129,055	129,226	129,499	-0.1	-0.2	-0.3	129,570	127,956	127,268	131,158	-1.2	
Machinery	140,233	140,460	140,669	-0.2	-0.1	-0.1	141,434	141,916	141,083	137,435	2.9	
Construction machinery	10,710	10,766	11,208	-0.5	-3.9	-3.4	11,298	11,384	11,612	12,622	-10.5	
Mining, oil field, and												
gas field machinery	5,293	5,355	5,326	-1.2	0.5	0.3	5,293	5,355	5,326	5,023	5.4	
Industrial machinery	12,551	12,649	12,597	-0.8	0.4	2.9	12,626	12,758	12,791	10,865	16.	
Photographic equipment	4,067	3,996	3,887	1.8	2.8	0.5	4,097	4,093	3,856	3,585	14.	
Ventilation, heating, air-conditioning,												
and refrigeration equipment	13,676	13,445	13,466	1.7	-0.2	0.3	13,947	13,530	13,434	11,085	25.	
Metalworking machinery	9,978	10,046	10,011	-0.7	0.3	-0.2	9,991	10,228	9,912	10,520	-5.0	
Turbines, generators, and other												
power transmission equipment	31,843	31,979	31,951	-0.4	0.1	-0.6	31,843	31,979	31,951	32,439	-1.3	
Material handling equipment	19,344	19,342	19,293	0.0	0.3	0.7	19,514	19,636	19,535	18,004	8.	
Computers and electronic products ²	134,674	134,161	134,215	0.4	0.0	-0.1	135,700	134,250	134,374	134,529	0.	
Computers	1,314	1,298	1,304	1.2	-0.5	1.6		1,298	1,304	1,312	0.	
Nondefense communications	1,51	2,230	2,50 .		0.5	2.0	1,51	1,230	2,50 .	1,512		
equipment	17,330	17,364	17,418	-0.2	-0.3	0.1	17,556	17,531	17,520	17,893	-1.5	
Defense communications equipment	226	234	238	-3.4	-1.7	-2.9	, , , , , , , , , , , , , , , , , , ,	249	249	279	-13.0	
Electronic components	17,057	17,128	17,247	-0.4	-0.7	-1.0		17,356	17,496	17,964	-4.	
Nondefense search and navigation	,	,	,				=:,=:0	,,				
equipment	30,815	30,669	30,581	0.5	0.3	0.1	30,816	30,601	30,518	29,371	4.	
Defense search and navigation		,	,					,		-,-		
equipment	35,879	35,441	35,440	1.2	0.0	-0.1	36,297	35,192	35,278	36,017	0.8	
Electromedical, measuring,												
and control instruments	32,053	32,027	31,987	0.1	0.1	0.1	32,336	32,023	32,009	31,693	2.0	
Electrical equipment, appliances,												
and components	43,403	43,329	43,110	0.2	0.5	-0.3	43,749	43,671	43,137	41,578	5.2	
Electric lighting equipment	3,753	3,700	3,673	1.4	0.7	-0.9	3,806	3,718	3,677	3,350	13.6	
Household appliances	4,764	4,687	4,501	1.6	4.1	0.0	4,748	4,589	4,610	4,503	5.4	
Electrical equipment	22,235	22,324	22,306	-0.4	0.1	-0.3	22,438	22,641	22,376	21,645	3.	
Transportation equipment	781,101	776,990	778,067	0.5	-0.1	0.8		780,608	781,050	732,323	7.0	
Motor vehicle bodies, parts,	1 1	•	·					·	•	•		
and trailers	35,051	34,996	34,662	0.2	1.0	0.1	36,323	36,551	35,486	37,406	-2.9	
Nondefense aircraft and parts	534,173	530,145	531,790	0.8	-0.3	0.8	, , , , , , , , , , , , , , , , , , ,	531,199	532,539	489,867	9.4	
Defense aircraft and parts	67,746	66,870	66,953	1.3	-0.1	0.6	,	67,580	68,208	64,196	7.0	
Ships and boats	54,911	56,018	56,396	-2.0	-0.7	1.0		57,013	56,195	54,209		
Furniture and related products	11,354	11,405	11,346	-0.4	0.5	0.2	, , , , , , , , , , , , , , , , , , ,	11,294	11,007	12,203	-6.0	
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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 https://www.census.gov/manufacturing/m3/.

Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, Benchmark Report, May 12, 2023. 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>.

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Table 4. Value of Manufacturers' Inventories for Industry Groups¹ January 2023 - March 2023

		Monthly	Seasonally Ad		ercent Chang	_		Percent			
Industry	 	IVIOIILIIIY			ercent Chang	e		Mor	Itiliy		Change
industry	Mar. 2023	Feb. 2023	Jan. 2023	Feb Mar.	Jan Feb.	Dec Jan.	Mar. 2023	Feb. 2023	Jan. 2023	Mar. 2022	Mar. 2023/ 2022
All manufacturing industries ²	853,732	859,843	860,359	-0.7	-0.1	0.1	853,755	861,700	857,451	836,408	-
Excluding transportation ²	694,664	695,895	696,733	-0.2	-0.1	0.0	695,498	698,165	695,428	675,600	2
Excluding defense ²	824,737	830,852	831,353	-0.7	-0.1	0.0	824,795	832,811	828,646	808,595	
With unfilled orders	417,164	421,487	421,440	-0.7	0.0	0.0	417,251	421,982	419,601	408,084	
with unfilled orders	417,104	421,467	421,440	-1.0	0.0	0.2	417,231	421,962	419,001	400,004	•
Durable goods industries ²	516,982	521,701	521,279	-0.9	0.1	0.2	517,074	523,637	519,556	505,094	:
	46.470	46 247	46 226		0.5		46.577	46.766	46.605	46.025	
Wood products Nonmetallic mineral products	16,178 16,865	16,247 16,895	16,326 16,865	-0.4 -0.2	-0.5	-0.7 0.3	16,577	16,766 17,155	16,685	16,935 15,809	-1
Primary metals	46,597	46,817	46,859	-0.2 -0.5	0.2 -0.1	-0.4	17,121 46,633	47,163	16,895 47,128	47,205	-:
Iron and steel mills	27,219	27,338	27,397	-0.3	-0.1	0.4	27,223	27,545	27,774	28,017	-
Aluminum and nonferrous metals	16,275	16,387	16,362	-0.7	0.2	-1.5	16,243	16,434	16,225	16,228	
Ferrous metal foundries	3,103	3,092	3,100	0.4	-0.3	0.6	3,167	3,184	3,129	2,960	
Fabricated metal products	64,810	64,720	64,929	0.1	-0.3	-0.1	65,064	64,908	64,856	64,219	
Machinery	93,899	93,585	93,209	0.3	0.4	0.5	94,856	94,290	92,438	85,773	1
Farm machinery	5,904	5,894	5,891	0.2	0.1	0.4	6,104	6,235	6,025	5,941	
Construction machinery	9,353	9,380	9,402	-0.3	-0.2	1.6	9,605	9,508	9,333	8,349	1
Mining, oil field,											
and gas field machinery	5,814	5,821	5,763	-0.1	1.0	3.1	5,750	5,920	5,727	4,946	1
Industrial machinery	11,112	11,111	11,114	0.0	0.0	-1.1	11,447	11,031	10,569	10,344	10
Photographic equipment	1,469	1,446	1,445	1.6	0.1	0.5	1,428	1,473	1,449	1,354	5
Ventilation, heating, air-conditioning,			0.455				0.745	0.555	0.455	7.000	_
and refrigeration equipment	9,224	9,183	9,153	0.4 0.9	0.3	0.1	9,713	9,500	9,166	7,993	2:
Metalworking machinery Turbines, generators, and other	7,463	7,399	7,358	0.9	0.6	1.0	7,364	7,285	7,267	6,787	8
power transmission equipment	11,840	11,765	11,703	0.6	0.5	1.2	11,857	11,819	11,622	10,655	1:
Material handling equipment	7,901	7,878	7,770	0.8	1.4	0.8	7,833	7,780	7,667	6,896	13
Computers and electronic products ²	55,268	55,354	55,458	-0.2	-0.2	-0.3	54,480	55,414	55,450	53,156	1
Computers	1,992	1,957	2,062	1.8	-5.1	-1.7	1,896	1,868	1,943	1,984	-4
Computer storage devices	643	624	596	3.0	4.7	-3.4	585	633	583	616	-9
Other peripheral equipment	1,030	1,028	999	0.2	2.9	-1.1	1,006	1,063	991	891	1
Nondefense communications	2,030	1,020	333	0.2	2.5	1.1	2,000	1,003	331	031	
equipment	4,420	4,425	4,467	-0.1	-0.9	-0.2	4,304	4,403	4,380	4,205	
Defense communications equipment	610	613	607	-0.5	1.0	0.3	610	613	607	604	
Audio and video equipment	862	858	821	0.5	4.5	0.5	868	843	798	798	8
Electronic components	10,866	11,101	11,247	-2.1	-1.3	-1.5	10,864	11,262	11,587	11,419	-4
Nondefense search and navigation	,,,,,,	, ,	,				.,	, -	,		
equipment	4,165	4,179	4,144	-0.3	0.8	-0.5	4,105	4,157	4,151	3,826	7
Defense search and navigation											
equipment	3,346	3,337	3,353	0.3	-0.5	0.3	3,347	3,374	3,357	3,362	-0
Electromedical, measuring											
and control instruments	19,072	18,992	18,937	0.4	0.3	0.2	18,877	18,836	18,671	17,861	5
Electrical equipment, appliances,											
and components	26,048	25,875	25,760	0.7	0.4	-0.6	26,228	26,279	25,894	24,358	-
Electric lighting equipment	2,545	2,557	2,553	-0.5	0.2	-0.2	2,512	2,584	2,606	2,456	3
Household appliances	3,614	3,568	3,504	1.3	1.8	-5.2	3,627	3,618	3,447	3,553	
Electrical equipment	9,588	9,493	9,490	1.0	0.0	0.1	9,599	9,754	9,684	8,479	13
Batteries Transportation equipment	1,841 159,068	1,831 163,948	1,849 163,626	0.5 -3.0	-1.0 0.2	-0.5 0.7	1,970 158,257	1,773 163,535	1,734 162,023	1,959 160,808	(-1
Automobiles	5,639	5,721	5,665	-3.0	1.0	-0.4	5,444	5,754	5,683	5,548	-3
Light trucks and utility vehicles	9,368	9,719	9,581	-3.6	1.4	0.4	9,150	9,893	9,213	9,239	-5
Heavy duty trucks	2,966	2,908	2,889	2.0	0.7	-0.2	2,978	2,995	2,864	2,842	-
Motor vehicle bodies, parts,	_,	_,	_,				_,-,	_,	_,	-,	
and trailers	35,152	35,346	35,373	-0.5	-0.1	0.5	35,321	35,528	35,690	34,596	:
Nondefense aircraft and parts	73,298	77,756	77,639	-5.7	0.2	0.1	72,793	77,012	76,368	77,889	-6
Defense aircraft and parts	14,062	13,924	13,979	1.0	-0.4	1.3	13,986	13,943	13,928	13,670	2
Ships and boats	4,563	4,709	4,706	-3.1	0.1	7.6	4,593	4,561	4,565	4,371	5
Furniture and related products	10,517	10,509	10,554	0.1	-0.4	-0.5	10,390	10,512	10,658	10,107	-
Miscellaneous durable goods	27,732	27,751	27,693	-0.1	0.2	0.2	27,468	27,615	27,529	26,724	2
Nondurable goods industries	336,750	338,142	339,080	-0.4	-0.3	0.0	336,681	338,063	337,895	331,314	1
Food products	72,588	72,430	72,411	0.2	0.0	0.5	71,785	72,784	72,702	68,490	4
Grain and oilseed milling	7,975	8,017	7,949	-0.5	0.9	0.3	8,113	8,335	8,156	7,773	4
Dairy products	10,855	10,759	10,765	0.9	-0.1	0.7	10,968	10,740	10,590	10,146	8
Meat, poultry, and seafood products	13,372	13,383	13,426	-0.1	-0.3	0.0	13,323	13,494	13,275	13,072	:
Beverage and tobacco products	31,406	31,072	30,983	1.1	0.3	-0.2	31,513	31,520	31,450	30,439	3
Beverages	27,698	27,359	27,302	1.2 -0.1	0.2	-0.1	27,711	27,621	27,577	26,518 3,921	-3
Tobacco	3,708 3,624	3,713 3,619	3,681 3,625	-0.1 0.1	0.9 -0.2	-1.0 -1.4	3,802 3,602	3,899 3,616	3,873 3,642	3,921 3,501	-3
Textile mills	3,804	3,805	3,831	0.0	-0.2 -0.7	-1.4	3,789	3,840	3,880	3,832	-: -:
Textile products Apparel	2,292	2,285	2,302	0.0	-0.7 -0.7	-1.3	2,172	2,198	2,245	1,890	14
Leather and allied products	1,321	1,325	1,332	-0.3	-0.7	-2.6	1,299	1,302	1,333	1,099	1
Paper products	18,431	18,439	18,372	0.0	0.4	-2.6	18,362	18,541	18,477	17,964	1
Pulp, paper, and paperboard mills	5,694	5,682	5,664	0.0	0.4	-0.1	5,744	5,751	5,682	5,535	
Paperboard containers	6,980	6,985	6,963	-0.1	0.3	0.5	6,915	7,040	7,073	6,594	
Printing	6,986	7,101	7,131	-1.6	-0.4	-0.1	6,935	7,101	7,105	7,032	-
Petroleum and coal products	47,648	50,023	51,709	-4.7	-3.3	1.0	47,634	48,406	49,497	50,529	-
Petroleum refineries	40,465	42,899	44,660	-5.7	-3.9	1.0	40,397	41,213	42,424	43,969	-
Chemical products	113,804	113,402	112,834	0.4	0.5	-0.2	114,529	113,786	112,898	112,449	
Pesticides, fertilizers, and other	1 1		•					']			
agricultural chemicals	5,940	5,946	5,856	-0.1	1.5	-2.3	6,281	6,334	6,188	6,086	;
Pharmaceuticals and medicines	48,117	47,609	47,237	1.1	0.8	1.5	48,263	47,174	47,228	47,286	
Paints, coatings, and adhesives	5,910	5,958	5,976	-0.8	-0.3	-0.2	6,064	6,088	6,015	5,483	10
Plastics and rubber products	34,846	34,641	34,550	0.6	0.3	-0.6	35,061	34,969	34,666	34,089	

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 noncalendar 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

calendar reporters. Seasonally adjusted estimates include concurrent adjustments for holiday and trading-day differences, where deploying the concurrent 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, all limitations see thitps://www.census.gov/manufacturing/m3/>.

Source: U.S. Census Bureau, Manufacturers' Shipments, inventories, and Orders (M3) Survey, Benchmark Report, May 12, 2023. 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>.

The Census Bureau has reviewed this data product to ensure appropriate access, use, and disclosure avoidance protection of the confidential source data (Project No. P-6000307, Disclosure Review Board (DRB) approval number: CBDRB-FY23-0294).

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

January 2023 - March 2023

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

LESTIMATES are snown in millions of dollars a	l and are based		asonally Adju		3 Jilipili	101103, 1111	Not Seasonally Adjusted						
		Monthly		Pei	rcent Char	nge		Mon	thly		Year to	o date	Percent
Industry	Mar. 2023	Feb. 2023	Jan. 2023	Feb Mar.	Jan Feb.	Dec Jan.	Mar. 2023	Feb. 2023	Jan. 2023	Mar. 2022	2023	2022	Change ⁶ 2023/ 2022
SHIPMENTS													
All manufacturing industries	574,998	578,124	581,720	-0.5	-0.6	0.7	612,862	535,019	540,816	607,719	1,688,697	1,627,643	3.8
Construction materials and supplies	61,886	62,000	62,225	-0.2	-0.4	-0.1	64,006	55,545	55,088	64,443	174,639	173,938	0.4
Information technology Computers and related products	24,388 1,965	24,285 1,928	24,358 1,945	0.4 1.9	-0.3 -0.9	0.9 4.0	26,747 2,099	21,716 1,511	21,096 1,739	25,941 1,723	69,559 5,349	67,618 4,395	2.9 21.7
Motor vehicle and parts	61,047	61,127	61,443	-0.1	-0.5	0.4	70,491	58,888	55,883	65,552	185,262	168,174	10.2
Capital goods	94,298	92,516	93,289	1.9	-0.8	-0.8	105,563	85,275	81,914	96,750	272,752	253,094	7.8
Nondefense capital goods ³ Excluding aircraft	81,460 73,321	79,537 73,623	80,110 73,850	2.4 -0.4	-0.7 -0.3	-0.9 1.1	91,281 80,887	72,637 68,564	70,938 66,569	83,326 77,658	234,856 216,020	217,565 204,705	7.9 5.5
Defense capital goods ⁴	12,838	12,979	13,179	-1.1	-1.5	-0.7	14,282	12,638	10,976	13,424	37,896	35,529	6.7
Consumer goods	243,700	248,675	251,714	-2.0	-1.2	1.3	254,363	228,178	236,659	259,541	719,200	690,465	4.2
Consumer durable goods	44,738	44,647	45,332	0.2	-1.5	0.2	51,487	42,056	39,917	48,630	133,460	122,709	8.8
Consumer nondurable goods	198,962	204,028	206,382	-2.5	-1.1	1.6	202,876	186,122	196,742	210,911	585,740	567,756	3.2
NEW ORDERS													
All manufacturing industries ⁵	573,809	571,265	581,049	0.4	-1.7	0.0	618,458	532,423	542,609	614,653	1,693,490	1,655,878	2.3
Construction materials and supplies Information technology	62,037 25,076	61,886 24,447	62,019 24,393	0.2 2.6	-0.2 0.2	-0.3 0.0	65,862 28,451	56,080 22,218	55,965 21,194	66,249 27,274	177,907 71,863	178,330 69,307	-0.2 3.7
Computers and related products ⁵	1,981	1,922	1,966	3.1	-2.2	5.4	2,115	1,505	1,760	1,725	5,380	4,380	22.8
Motor vehicle and parts	61,102	61,461	61,465	-0.6	0.0	0.6	70,263	59,953	56,428	65,633	186,644	169,675	10.0
Capital goods	97,755	90,496	98,883	8.0	-8.5	-4.9	113,243	84,690	87,261	105,571	285,194	285,896	-0.2
Nondefense capital goods ³ Excluding aircraft	84,793 72,653	77,659 73,468	84,527 73,619	9.2 -1.1	-8.1 -0.2	-6.3 0.9	95,628 80,391	72,745 70,055	76,071 69,979	89,415 79,164	244,444 220,425	249,806 213,641	-2.1 3.2
Defense capital goods ⁴	12,962	12,837	14,356	1.0	-10.6	4.2	17,615	11,945	11,190	16,156	40,750	36,090	12.9
Consumer goods	243,669	248,837	251,634	-2.1	-1.1	1.2	254,437	228,351	236,760	259,496	719,548	690,645	4.2
Consumer durable goods	44,707	44,809	45,252	-0.2	-1.0	-0.3	51,561	42,229	40,018	48,585	133,808	122,889	8.9
Consumer nondurable goods	198,962	204,028	206,382	-2.5	-1.1	1.6	202,876	186,122	196,742	210,911	585,740	567,756	3.2
UNFILLED ORDERS	4 270 670	4 275 522	4 276 000	0.2	0.4	0.4	4 200 767	4 200 504	4 270 446	4 222 262	44	(24)	4.7
All manufacturing industries5	1,279,679 100,559	1,275,522	1,276,988	0.3	-0.1 -0.1	0.4 -0.2	1,290,767 101,015	1,280,601 99,159	1,278,146	1,232,263 99,644	(X)	(X)	4.7
Construction materials and supplies Information technology	134,335	100,408 133,647	100,522 133,485	0.2	0.1	0.0	135,414	133,710	98,624 133,208	132,230	(X) (X)	(X)	1.4 2.4
Computers and related products ⁵ Motor vehicle and parts	1,314 35,051	1,298 34,996	1,304 34,662	1.2 0.2	-0.5 1.0	1.6 0.1	1,314 36,323	1,298 36,551	1,304 35,486	1,312 37,406	(X) (X)	(X) (X)	0.2 -2.9
•	939,849	936,392	938,412	0.4	-0.2	0.6	946,328	938,648	939,233	891,831	(X)	(X)	6.1
Capital goods Nondefense capital goods ³	735,033	731,700	733,578	0.4	-0.2	0.6	738,232	733,885	733,777	687,946	(X)	(X)	7.3
Excluding aircraft	273,167	273,835	273,990	-0.2	-0.1	-0.1	275,085	275,581	274,090	271,614	(X)	(X)	1.3
Defense capital goods ⁴	204,816	204,692	204,834	0.1	-0.1	0.6	208,096	204,763	205,456	203,885	(X)	(X)	2.1
Consumer goods Consumer durable goods	12,078 12,078	12,109 12,109	11,947 11,947	-0.3 -0.3	1.4 1.4	-0.7 -0.7	12,226 12,226	12,152 12,152	11,979 11,979	12,575 12,575	(X) (X)	(X) (X)	-2.8 -2.8
TOTAL INVENTORIES	12,070	12,103	11,547	0.5	2.7	0.7	12,220	12,132	11,575	12,373	(//)	(//	2.0
All manufacturing industries	853,732	859,843	860,359	-0.7	-0.1	0.1	853,755	861,700	857,451	836,408	(X)	(X)	2.1
Construction materials and supplies	92,902	92,835	93,031	0.1	-0.2	-0.1	94,260	94,155	93,549	91,119	(X)	(X)	3.4
Information technology	46,236	46,055	45,963	0.4	0.2	0.0	45,711	45,995	45,535	43,568	(X)	(X)	4.9
Computers and related products Motor vehicle and parts	3,665	3,609	3,657 53,508	1.6	-1.3 0.3	-1.8 0.3	3,487	3,564 54,170	3,517	3,491	(X)	(X) (X)	-0.1 1.3
	53,125	53,694		-1.1			52,893		53,450	52,225	(X)		
Capital goods Nondefense capital goods ³	244,657 220,846	248,587 224,752	248,145 224,288	-1.6 -1.7	0.2 0.2	0.5 0.2	244,124 220,272	248,219 224,505	245,387 221,680	237,194 214,340	(X) (X)	(X)	2.9 2.8
Excluding aircraft	161,342	160,766	160,361	0.4	0.3	0.3	161,259	161,263	159,097	149,869	(X)	(X)	7.6
Defense capital goods ⁴	23,811	23,835	23,857	-0.1	-0.1	2.8	23,852	23,714	23,707	22,854	(X)	(X)	4.4
Consumer goods	257,819	259,687	260,582	-0.7	-0.3	0.4	256,269	258,564	258,779	253,138	(X)	(X)	1.2
Consumer durable goods Consumer nondurable goods	42,642 215,177	43,092 216,595	42,763 217,819	-1.0 -0.7	0.8 -0.6	-0.6 0.6	41,944 214,325	43,355 215,209	42,445 216,334	41,330 211,808	(X) (X)	(X) (X)	1.5 1.2
								,	, ,		()	. ,	

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 https://www.census.gov/manufacturing/m3/. Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, Benchmark Report, May 12, 2023. 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>.
The Census Bureau has reviewed this data product to ensure appropriate access, use, and disclosure avoidance protection of the confidential source data (Project No. P-6000307, Disclosure Review Board (DRB) approval number: CBDRB-FY23-0294).

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

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.

Table 6. Value of Manufacturers' Inventories, by Stage of Fabrication, by Industry Group¹ January 2023 - March 2023

Estimates are shown in millions of dollars a	and are based	on data from	Seasonally A		pments, inv	Not Seasonally Adjusted					
		Monthly		P	ercent Chang	ge		Moi	nthly		Percent
Industry	Mar. 2023	Feb. 2023	Jan. 2023	Feb Mar.	Jan Feb.	Dec Jan.	Mar. 2023	Feb. 2023	Jan. 2023	Mar. 2022	Change Mar. 2023/ 2022
MATERIALS AND SUPPLIES											
All manufacturing industries	316,788	317,245	318,076	-0.1	-0.3	-0.1	316,297	317,212	318,553	305,716	3.5
Durable goods industries	196,750	196,519	196,709	0.1	-0.1	0.4	196,210	196,194	196,896	186,796	5.0
Wood products Nonmetallic mineral products	7,813 7,707	7,756 7,715	7,789 7,655	0.7 -0.1	-0.4 0.8	0.7 1.2	7,844 7,746	7,950 7,750	7,985 7,640	7,748 6,851	1.2 13.1
Primary metals	19,257	18,925	18,828	1.8	0.5	0.4		18,851	18,792	18,893	0.5
Fabricated metal products Machinery	24,578 40,229	24,592 40,374	24,783 40,389	-0.1 -0.4	-0.8 0.0	-1.0 1.0		24,519 40,159	24,864 40,222	25,718 36,185	-4.7 11.3
Computers and electronic products Electrical equipment, appliances,	26,416	26,392	26,351	0.1	0.2	0.8	- 7	26,206	26,296	23,911	8.7
and components Transportation equipment	12,660 42,824	12,553 43,025	12,491 43,306	0.9 -0.5	0.5 -0.6	0.0 0.1		12,689 42,983	12,596 43,316	11,322 41,765	12.2 3.0
Furniture and related products	5,435	5,396	5,372	0.7	0.4	0.4		5,438	5,461	5,170	5.3
Miscellaneous products	9,831	9,791	9,745	0.4	0.5	1.7	9,674	9,649	9,724	9,233	4.8
Nondurable goods industries Food products	120,038 26,627	120,726 26,605	121,367 26,633	-0.6 0.1	-0.5 -0.1	-0.8 0.5		121,018 26,645	121,657 26,843	118,920 25,530	1.0 3.3
Beverage and tobacco products	6,391	6,285	6,392	1.7	-1.7	-1.2	6,513	6,469	6,690	6,436	1.2
Textiles Textile products	1,454 1,732	1,456 1,717	1,454 1,717	-0.1 0.9	0.1 0.0	-0.2 -0.3		1,449 1,723	1,451 1,736	1,398 1,666	3.7 3.4
Apparel	616	618	631	-0.3	-2.1	-0.5	597	602	627	600	-0.5
Leather and allied products Paper products	406 9,725	408 9,736	421 9,722	-0.5 -0.1	-3.1 0.1	-0.9 0.0		401 9,797	419 9,804	357 9,292	11.8 4.1
Printing	3,607	3,695	3,706	-2.4	-0.3	-2.1	3,589	3,701	3,712	3,659	-1.9
Petroleum and coal products Chemical products	14,138 39,685	14,659 39,776	15,222 39,756	-3.6 -0.2	-3.7 0.1	-3.0 -1.2		14,323 40,046	14,621 39,939	15,266 39,295	-7.5 1.8
Plastics and rubber products	15,657	15,771	15,713	-0.7	0.4	0.0		15,862	15,815	15,421	1.4
WORK IN PROCESS											
All manufacturing industries	237,974	243,029	242,946	-2.1	0.0	-0.1		242,729	240,402	236,408	0.6
Durable goods industries Wood products	174,134 1,843	178,575 1,855	178,632 1,860	-2.5 -0.6	0.0 -0.3	-0.7 -11.5		178,411 1,902	176,860 1,897	177,176 2,211	-1.8 -14.5
Nonmetallic mineral products	1,643	1,634	1,621	0.6	0.8	-0.9	1,699	1,679	1,628	1,632	4.1
Primary metals Fabricated metal products	12,482 16,777	12,917 16,728	13,044 16,791	-3.4 0.3	-1.0 -0.4	-1.6 1.3		12,957 16,759	12,933 16,723	13,210 15,749	-5.3 7.2
Machinery	24,816	24,250	24,068	2.3	0.8	-2.3	25,186	24,521	23,629	23,374	7.8
Computers and electronic products Electrical equipment, appliances,	13,928	14,093	14,231	-1.2	-1.0	-1.4	13,934	14,304	14,449	15,188	-8.3
and components	4,528	4,530	4,507	0.0	0.5	-3.8		4,566	4,483	4,457	1.8
Transportation equipment Furniture and related products	91,868 1,464	96,337 1,472	96,223 1,518	-4.6 -0.5	0.1 -3.0	-0.1 -0.6		95,502 1,482	94,875 1,536	95,528 1,432	-4.5 0.9
Miscellaneous products	4,785	4,759	4,769	0.5	-0.2	-1.2	4,728	4,739	4,707	4,395	7.6
Nondurable goods industries	63,840	64,454	64,314	-1.0	0.2	1.7		64,318	63,542	59,232	7.6
Food products Beverage and tobacco products	7,951 11,024	7,950 10,863	7,811 10,742	0.0 1.5	1.8 1.1	0.4 -0.3		8,164 11,085	8,136 11,093	7,841 10,529	-0.6 4.7
Textiles	587 473	583 470	588 479	0.7	-0.9	-3.9	1	582 479	587	620 481	-6.1 -1.7
Textile products Apparel	275	274	278	0.6 0.4	-1.9 -1.4	-1.2 -2.5		267	488 271	261	3.1
Leather and allied products Paper products	133 1,655	132 1,653	127 1,644	0.8 0.1	3.9 0.5	-1.6 0.4		134 1,639	128 1,635	139 1,668	-1.4 -1.0
Printing	1,153	1,177	1,197	-2.0	-1.7	-2.4	1,132	1,181	1,184	1,325	-14.6
Petroleum and coal products Chemical products	16,707 20,028	17,469 20,003	17,995 19,592	-4.4 0.1	-2.9 2.1	1.9 4.6		17,090 19,771	16,705 19,451	13,883 18,488	22.0 7.4
Plastics and rubber products	3,854	3,880	3,861	-0.7	0.5	-1.2		3,926		3,997	-2.9
FINISHED GOODS											
All manufacturing industries	298,970	299,569	299,337	-0.2	0.1	0.5	299,704	301,759	298,496	294,284	1.8
Durable goods industries Wood products	146,098 6,522	146,607 6,636	145,938 6,677	-0.3 -1.7	0.5 -0.6	1.0 1.2		149,032 6,914	145,800 6,803	141,122 6,976	4.1 -1.9
Nonmetallic mineral products	7,515	7,546	7,589	-0.4	-0.6	-0.4	7,676	7,726	7,627	7,326	4.8
Primary metals Fabricated metal products	14,858 23,455	14,975 23,400	14,987 23,355	-0.8 0.2	-0.1 0.2	-0.2 -0.2		15,355 23,630	15,403 23,269	15,102 22,752	0.2 4.1
Machinery	28,854	28,961	28,752	-0.4	0.7	2.0		29,610	28,587	26,214	12.1
Computers and electronic products Electrical equipment, appliances,	14,924 8,860	14,869 8,792	14,876	0.4	0.0	-1.1 0.4		14,904 9,024	14,705 8,815	14,057 8,579	3.5 4.7
and components Transportation equipment	24,376	24,586	8,762 24,097	-0.9	2.0	4.7	-,	25,050	23,832	23,515	2.2
Furniture and related products	3,618	3,641	3,664	-0.6	-0.6	-1.8		3,592	3,661	3,505	-0.2
Miscellaneous products Nondurable goods industries	13,116 152,872	13,201 152,962	13,179 153,399	-0.6 -0.1	-0.3	-0.3 0.0	· ·	13,227 152,727	13,098 152,696	13,096 153,162	-0.2 -0.2
Food products	38,010	37,875	37,967	0.4	-0.2	0.4	37,617	37,975	37,723	35,119	7.1
Beverage and tobacco products Textiles	13,991 1,583	13,924 1,580	13,849 1,583	0.5 0.2	0.5 -0.2	0.3 -1.6		13,966 1,585	13,667 1,604	13,474 1,483	3.7 5.9
Textile products	1,599	1,618	1,635	-1.2	-1.0	-2.2	1,594	1,638	1,656	1,685	-5.4
Apparel Leather and allied products	1,401 782	1,393 785	1,393 784	0.6 -0.4	0.0 0.1	-1.2 -3.6		1,329 767	1,347 786	1,029 603	26.9 26.5
Paper products	7,051	7,050	7,006	0.0	0.6	-0.3	7,039	7,105	7,038	7,004	0.5
Printing Petroleum and coal products	2,226 16,803	2,229 17,895	2,228 18,492	-0.1 -6.1	0.0 -3.2	4.7 3.6		2,219 16,993	2,209 18,171	2,048 21,380	8.1 -22.5
Chemical products	54,091	53,623	53,486	0.9	0.3	-1.2	54,647	53,969	53,508	54,666	0.0
Plastics and rubber products	15,335	14,990	14,976	2.3	0.1	-1.1	15,546	15,181	14,987	14,671	6.0

Lestimates 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 https://www.census.gov/manufacturing/m3/.

Source: U.S. Census Bureau, Manufacturers' Shipments, inventories, and Orders (M3) Survey, Benchmark Report, May 12, 2023. Information on data sources and methodology can be found on our website at https://www.census.gov/manufacturing/m3/.

The Census Bureau has reviewed this data product to ensure appropriate access, use, and disclosure avoidance protection of the confidential source data (Project No. P-6000307, Disclosure Review Board (DRB) approval number: CBDRB-FY23-0294).

Table 7. Ratios of Manufacturers' Inventories to Shipments and Unfilled Orders to Shipments, by Industry Group³

January 2023 - March 2023

 $\underline{[\text{Based on Seasonally Adjusted data from the Manufacturers' Shipments, Inventories, and Orders Survey.]}$

	Invent	ory/Shipmen	ts ratio	Unfilled Orders/Shipments ratio ¹				
Industry	Mar. 2023	Feb. 2023	Jan. 2023	Mar. 2023	Feb. 2023	Jan. 2023		
All manufacturing industries ²	1.48	1.49	1.48	(X)	(X)	(X)		
Durable goods industries ²	1.85	1.88	1.87	6.58	6.64	6.63		
Wood products	1.20	1.21	1.21	(X)	(X)	(X)		
Nonmetallic mineral products	1.29	1.28	1.26	(X)	(X)	(X)		
Primary metals	1.73	1.75	1.74	1.40	1.41	1.41		
Fabricated metal products	1.83	1.83	1.84	3.74	3.75	3.77		
Machinery	2.53	2.50	2.49	4.14	4.12	4.14		
Computers and electronic products ³ Electrical equipment, appliances,	1.88	1.88	1.88	6.04	5.99	6.04		
and components	1.84	1.86	1.82	3.40	3.43	3.35		
Transportation equipment	1.79	1.89	1.87	13.73	14.21	14.15		
Furniture and related products	1.52	1.52	1.51	1.91	1.91	1.88		
Miscellaneous products	1.92	1.92	1.90	(X)	(X)	(X)		
Nondurable goods industries	1.14	1.13	1.12	(X)	(X)	(X)		
Food products	0.90	0.90	0.91	(X)	(X)	(X)		
Beverage and tobacco products	1.83	1.85	1.85	(X)	(X)	(X)		
Textiles	1.71	1.68	1.67	(X)	(X)	(X)		
Textile products	1.89	1.86	1.88	(X)	(X)	(X)		
Apparel	2.74	2.66	2.64	(X)	(X)	(X)		
Leather and allied products	2.65	2.62	2.53	(X)	(X)	(X)		
Paper products	1.05	1.05	1.05	(X)	(X)	(X)		
Printing	0.95	0.96	0.97	(X)	(X)	(X)		
Petroleum and coal products	0.74	0.71	0.71	(X)	(X)	(X)		
Chemical products	1.46	1.46	1.46	(X)	(X)	(X)		
Plastics and rubber products	1.41	1.40	1.39	(X)	(X)	(X)		

(X) Not Applicable

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 https://www.census.gov/manufacturing/m3/.

Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, Benchmark Report, May 12, 2023. 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.

The Census Bureau has reviewed this data product to ensure appropriate access, use, and disclosure avoidance protection of the confidential source data (Project No. P-6000307, Disclosure Review Board (DRB) approval number: CBDRB-FY23-0294).

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 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.