

# MONTHLY FULL REPORT ON MANUFACTURERS' SHIPMENTS, INVENTORIES AND ORDERS JULY 2020

Release Number: CB 20-125 M3-2 (20)-07

**Statement Regarding COVID-19 Impact:** The Census Bureau continues to monitor response and data quality and has determined that estimates in this release meet publication standards. For more information, see < [M3 COVID-19 FAQs](#)>.

**September 2, 2020** — The U.S. Census Bureau announces the July full report on manufacturers' shipments, inventories and orders:

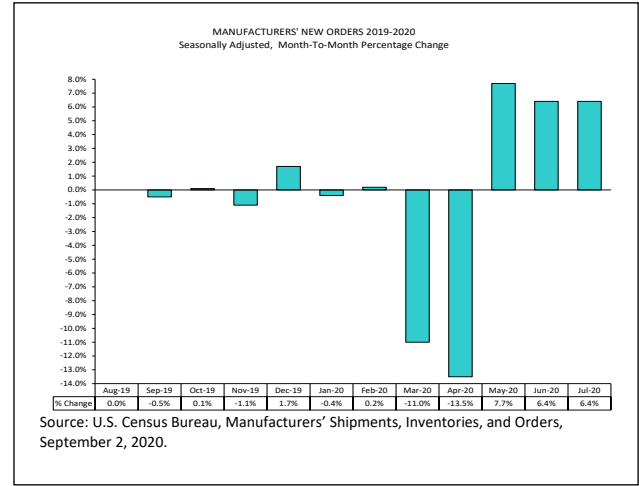


## MANUFACTURED GOODS – NEW ORDERS

<b>JULY 2020</b>	<b>\$466.1 billion</b>	<b>+6.4%°</b>
<b>JUNE 2020 (revised)</b>	<b>\$438.2 billion</b>	<b>+6.4%°</b>

**Next release: October 2, 2020**

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, September 2, 2020.



## Summary

New orders for manufactured goods in July, up three consecutive months, increased \$27.8 billion or 6.4 percent to \$466.1 billion, the U.S. Census Bureau reported today. This followed a 6.4 percent June increase. Shipments, also up three consecutive months, increased \$21.3 billion or 4.6 percent to \$479.5 billion. This followed a 10.0 percent June increase. Unfilled orders, down four of the last five months, decreased \$8.3 billion or 0.8 percent to \$1,084.3 billion. This followed a 1.4 percent June decrease. The unfilled orders-to-shipments ratio was 6.70, down from 7.01 in June. Inventories, down following two consecutive monthly increases, decreased \$3.1 billion or 0.5 percent to \$687.2 billion. This followed a 0.5 percent June increase. The inventories-to-shipments ratio was 1.43, down from 1.51 in June.

### Data Inquiries

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301-763-4832  
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## **New Orders**

New orders for manufactured durable goods in July, up three consecutive months, increased \$23.7 billion or 11.4 percent to \$231.1 billion, up from the previously published 11.2 percent increase. This followed a 7.7 percent June increase. Transportation equipment, also up three consecutive months, led the increase, \$19.6 billion or 35.7 percent to \$74.7 billion. New orders for manufactured nondurable goods increased \$4.2 billion or 1.8 percent to \$235.0 billion.

## **Shipments**

Shipments of manufactured durable goods in July, up three consecutive months, increased \$17.1 billion or 7.5 percent to \$244.6 billion, up from the previously published 7.3 percent increase. This followed a 15.2 percent June increase. Transportation equipment, also up three consecutive months, led the increase, \$12.7 billion or 17.9 percent to \$83.2 billion. Shipments of manufactured nondurable goods, up three consecutive months, increased \$4.2 billion or 1.8 percent to \$235.0 billion. This followed a 5.3 percent June increase. Petroleum and coal products, also up three consecutive months, led the increase, \$2.3 billion or 6.5 percent to \$38.3 billion.

## **Unfilled Orders**

Unfilled orders for manufactured durable goods in July, down four of the last five months, decreased \$8.3 billion or 0.8 percent to \$1,084.3 billion, unchanged from the previously published decrease. This followed a 1.4 percent June decrease. Transportation equipment, down five consecutive months, drove the decrease, \$8.5 billion or 1.1 percent to \$735.0 billion.

## **Inventories**

Inventories of manufactured durable goods in July, down two consecutive months, decreased \$2.7 billion or 0.6 percent to \$421.8 billion, down from the previously published 0.5 percent decrease. This followed a 0.1 percent June decrease. Fabricated metal products, also down two consecutive months, led the decrease, \$0.9 billion or 1.6 percent to \$51.7 billion. Inventories of manufactured nondurable goods, down following two consecutive monthly increases, decreased \$0.5 billion or 0.2 percent to \$265.4 billion. This followed a 1.4 percent June increase. Chemical products, down two of the last three months, led the decrease, \$0.2 billion or 0.2 percent to \$96.4 billion. By stage of fabrication, July materials and supplies decreased 0.8 percent in durable goods and increased 0.2 percent in nondurable goods. Work in process decreased 0.3 percent in durable goods and 0.4 percent in nondurable goods. Finished goods decreased 0.8 percent in durable goods and 0.3 percent in nondurable goods.

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The Advance Report on durable goods for August is scheduled for release on September 25, 2020 at 8:30 a.m. EDT and the Full Report on October 2, 2020 at 10:00 a.m. EDT. View the full schedule in the Economic Briefing Room: <[www.census.gov/economic-indicators/](http://www.census.gov/economic-indicators/)>. The full text and tables of this release can be found at <[www.census.gov/m3](http://www.census.gov/m3)>.

## EXPLANATORY NOTES

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

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

## Description of the survey

This report is compiled from results of the U.S. Census Bureau’s Manufacturers’ Shipments, Inventories, and Orders (M3) survey, which is a voluntary survey authorized by Title 13 of the United States Code. This survey provides statistics on a calendar-month basis for manufacturers' value of shipments, new orders (net of cancellations), end-of-month order backlog (unfilled orders), end-of-month total inventory (at current cost or market value), and inventories by stage of fabrication (materials and supplies, work-in-process, and finished goods). Data published from the M3 survey are based on a panel of approximately 5,000 reporting units that represent approximately 3,100 companies and provide an indication of month-to-month change for the Manufacturing Sector. These reporting units may be divisions of diversified large companies, large homogenous companies, or single-unit manufacturers in 92 industry categories, which are combined into 65 publication levels due to the small monthly panel size. The survey methodology assumes that the month-to-month changes of the total operations of the reporting units in the M3 panel effectively represent the month-to-month movements of all establishments that make up the category. The companies for which shipments data are currently reported or imputed in the M3 survey represent approximately 64 percent of the total value of shipments for manufacturing establishments in the 2012 Economic Census, and these companies include almost two-thirds of the manufacturing companies with \$500 million or more in shipments in the 2012 Economic Census. The companies for which shipments data are currently reported in the M3 survey represent approximately 57 percent of the total value of shipments for manufacturing establishments in the 2012 Economic Census. Statistics based on the M3 panel differ from the results that would be obtained from a complete enumeration of all manufacturing companies. The M3 panel is not based on a probability sample; therefore, the sampling errors that are normally provided with sample surveys cannot be measured. Nonsampling errors are attributable to many

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sources. The use of company or divisional reports to estimate the monthly change for establishments is one source of nonsampling error. The use of primarily large companies to represent the month-to-month movement of all companies is another potential source. Any corrections will be published in the full report. Corrections received after the full report will be released in the next month's advance report. Any revisions made later than two months will be reflected in the annual benchmark publication. Additional survey documentation can be found on our web site:

[www.census.gov/manufacturing/m3/how\\_the\\_data\\_are\\_collected/index.html](http://www.census.gov/manufacturing/m3/how_the_data_are_collected/index.html).

## RESOURCES

### API

The Census Bureau's application programming interface (API) lets developers create custom apps to reach new users and makes key demographic, socio-economic and housing statistics more accessible than ever before.

[www.census.gov/developers/](http://www.census.gov/developers/).

### FRED Mobile App



ECONOMIC DATA | ST. LOUIS FED

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 Groups<sup>1</sup>**

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

Industry	Seasonally Adjusted						Not Seasonally Adjusted						
	Monthly			Percent Change			Monthly				Year to date		
	July 2020 <sup>P</sup>	June 2020 <sup>r</sup>	May 2020	June - July	May - June	Apr. - May	July 2020 <sup>P</sup>	June 2020 <sup>r</sup>	May 2020	July 2019	2020 <sup>P</sup>	2019	% Change 2020/2019
All manufacturing industries.....	479,530	458,275	416,573	4.6	10.0	3.0	466,322	483,749	418,914	489,206	3,205,987	3,494,301	-8.3
Excluding transportation.....	396,297	387,692	369,950	2.2	4.8	1.9	394,098	407,987	372,240	415,644	2,731,437	2,891,091	-5.5
Excluding defense.....	465,501	444,481	402,547	4.7	10.4	3.1	453,798	469,305	405,233	477,041	3,110,988	3,399,239	-8.5
With unfilled orders.....	161,823	155,831	146,472	3.8	6.4	1.8	153,525	168,711	146,145	161,526	1,112,578	1,208,246	-7.9
Durable goods industries.....	244,576	227,502	197,483	7.5	15.2	4.1	230,596	245,307	196,809	232,912	1,571,810	1,734,893	-9.4
Wood products.....	9,466	8,939	8,674	5.9	3.1	5.1	9,873	9,805	9,294	9,298	63,364	62,769	0.9
Nonmetallic mineral products.....	11,830	11,668	11,235	1.4	3.9	2.6	12,702	12,789	11,507	12,283	79,677	78,607	1.4
Primary metals.....	18,100	17,879	16,800	1.2	6.4	0.9	17,719	18,728	17,107	19,263	130,066	143,992	-9.7
Iron and steel mills.....	9,194	9,072	8,496	1.3	6.8	0.1	9,037	9,401	8,727	10,081	66,590	76,252	-12.7
Aluminum and nonferrous metals.....	7,668	7,642	7,162	0.3	6.7	1.1	7,493	8,009	7,227	7,750	54,539	56,833	-4.0
Ferrous metal foundries.....	1,238	1,165	1,142	6.3	2.0	5.6	1,189	1,318	1,153	1,432	8,937	10,907	-18.1
Fabricated metal products.....	30,099	29,178	27,668	3.2	5.5	1.0	29,680	31,318	28,082	31,326	208,989	221,208	-5.5
Machinery.....	30,365	29,839	28,793	1.8	3.6	2.1	29,386	32,779	28,991	30,748	212,337	226,119	-6.1
Farm machinery.....	1,999	1,770	1,569	12.9	12.8	0.1	1,855	1,867	1,613	1,826	13,176	14,910	-11.6
Construction machinery.....	2,590	2,504	2,252	3.4	11.2	-1.7	2,550	2,669	2,301	2,802	18,252	21,771	-16.2
Mining, oil field, and gas field machinery.....	1,089	1,140	1,145	-4.5	-0.4	-8.2	1,018	1,175	1,079	1,469	8,635	10,218	-15.5
Industrial machinery.....	3,074	3,107	3,178	-1.1	-2.2	3.9	2,883	3,560	3,066	2,789	21,546	19,786	8.9
Photographic equipment.....	538	533	550	0.9	-3.1	8.9	532	648	505	533	3,713	3,690	0.6
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,009	3,679	3,447	9.0	6.7	3.7	4,414	4,722	3,709	4,150	26,308	27,601	-4.7
Metalworking machinery.....	2,406	2,418	2,360	-0.5	2.5	2.3	2,246	2,625	2,233	2,557	16,626	18,486	-10.1
Turbines, generators, and other power transmission equipment.....	3,682	3,796	3,590	-3.0	5.7	3.9	3,549	3,929	3,686	3,913	26,476	28,629	-7.5
Material handling equipment.....	2,555	2,582	2,555	-1.0	1.1	-0.7	2,462	2,660	2,508	2,811	18,517	20,013	-7.5
Computers and electronic products <sup>2</sup> .....	29,765	28,617	28,701	4.0	-0.3	0.3	27,983	31,285	26,903	26,859	194,439	191,493	1.5
Computers.....	555	572	571	-3.0	0.2	2.1	520	686	558	562	3,790	4,273	-11.3
Computer storage devices.....	458	451	474	1.6	-4.9	-2.1	354	586	359	302	3,081	2,102	46.6
Other peripheral equipment.....	817	679	794	20.3	-14.5	9.5	771	895	728	659	4,983	4,688	6.3
Nondefense communications equipment.....	3,806	3,476	3,491	9.5	-0.4	0.2	3,344	4,390	3,172	2,937	23,655	22,064	7.2
Defense communications equipment.....	273	286	283	-4.5	1.1	7.2	257	290	263	225	1,807	1,800	0.4
Audio and video equipment.....	364	328	288	11.0	13.9	4.0	313	300	269	294	1,840	2,136	-13.9
Electronic components.....	4,410	4,181	4,181	5.5	0.0	-0.3	4,370	4,622	4,190	3,849	29,245	26,815	9.1
Nondefense search and navigation equipment.....	1,526	1,505	1,490	1.4	1.0	-0.7	1,347	1,627	1,443	1,448	10,401	11,107	-6.4
Defense search and navigation equipment.....	3,076	3,011	3,006	2.2	0.2	-0.2	2,814	3,119	2,900	2,693	20,368	19,775	3.0
Electromedical, measuring, and control instruments.....	8,836	8,799	8,779	0.4	0.2	0.0	8,380	9,633	8,378	8,583	59,796	61,985	-3.5
Electrical equipment, appliances, and components.....	10,510	10,306	10,085	2.0	2.2	0.7	10,279	11,246	9,905	10,685	73,170	75,218	-2.7
Electric lighting equipment.....	978	953	911	2.6	4.6	-2.4	968	961	920	1,001	6,692	6,935	-3.5
Household appliances.....	2,062	1,886	1,823	9.3	3.5	13.2	1,907	2,027	1,743	1,738	12,575	12,712	-1.1
Electrical equipment.....	2,849	2,937	2,942	-3.0	-0.2	-4.4	2,751	3,445	2,919	3,292	22,109	23,654	-6.5
Batteries.....	736	752	737	-2.1	2.0	15.3	693	790	657	726	4,783	4,877	-1.9
Transportation equipment.....	83,233	70,583	46,623	17.9	51.4	12.6	72,224	75,762	46,674	73,562	474,550	603,210	-21.3
Automobiles.....	9,217	6,119	1,692	50.6	261.6	257.7	7,400	6,574	1,693	6,960	39,348	62,997	-37.5
Light trucks and utility vehicles.....	23,453	17,658	4,031	32.8	338.1	84.1	19,631	18,465	3,930	17,611	95,238	140,581	-32.3
Heavy duty trucks.....	2,289	2,144	1,586	6.8	35.2	24.0	2,332	2,435	1,607	2,619	14,410	18,998	-24.1
Motor vehicle bodies, parts, and trailers.....	29,314	25,955	21,061	12.9	23.2	14.7	26,497	27,869	21,256	25,414	180,422	198,346	-9.0
Nondefense aircraft and parts.....	3,947	4,182	3,523	-5.6	18.7	-19.0	3,429	5,091	3,418	8,332	42,760	81,203	-47.3
Defense aircraft and parts.....	4,265	3,959	3,966	7.7	-0.2	-5.9	3,820	4,447	3,867	4,030	27,855	32,113	-13.3
Ships and boats.....	2,590	2,395	2,628	8.1	-8.9	11.2	2,360	2,604	2,654	2,605	18,359	21,388	-14.2
Furniture and related products.....	6,631	6,583	6,040	0.7	9.0	3.2	6,775	6,694	5,957	6,810	44,862	45,887	-2.2
Miscellaneous durable goods.....	14,577	13,910	12,864	4.8	8.1	4.0	13,975	14,901	12,389	12,078	90,356	86,390	4.6
Nondurable goods industries.....	234,954	230,773	219,090	1.8	5.3	2.0	235,726	238,442	222,105	256,294	1,634,177	1,759,408	-7.1
Food products.....	67,705	67,250	66,875	0.7	0.6	0.1	65,720	67,389	66,284	65,164	466,694	460,086	1.4
Grain and oilseed milling.....	7,119	7,148	7,328	-0.4	-2.5	4.0	6,967	7,188	7,002	6,750	48,437	47,662	1.6
Dairy products.....	10,733	10,680	10,367	0.5	3.0	1.3	10,747	10,550	10,351	10,373	72,941	70,854	2.9
Meat, poultry, and seafood products.....	18,166	17,938	17,721	1.3	1.2	-2.5	18,045	18,788	18,210	19,005	130,334	136,675	-4.6
Beverage and tobacco products.....	13,245	13,203	12,806	0.3	3.1	3.3	13,457	14,041	13,291	14,040	90,882	92,487	-1.7
Beverages.....	9,375	9,300	8,952	0.8	3.9	-1.4	9,587	10,138	9,437	9,442	64,428	63,894	0.8
Tobacco.....	3,870	3,903	3,854	-0.8	1.3	16.0	3,870	3,903	3,854	4,598	26,454	28,593	-7.5
Textile mills.....	2,076	2,055	1,909	1.0	7.6	2.9	2,071	2,202	1,977	2,312	14,845	16,519	-10.1
Textile products.....	1,754	1,804	1,697	-2.8	6.3	2.8	1,792	1,923	1,758	2,061	12,698	14,324	-11.4
Apparel.....	869	860	852	1.0	0.9	2.5	892	828	788	932	5,775	6,026	-4.2
Leather and allied products.....	421	386	342	9.1	12.9	12.9	425	409	337	413	2,610	2,868	-9.0
Paper products.....	16,252	16,028	16,092	1.4	-0.4	-0.3	16,449	16,530	16,084	16,470	113,182	112,628	0.5
Pulp, paper, and paperboard mills.....	6,441	6,465	6,541	-0.4	-1.2	-0.3	6,614	6,534	6,458	6,856	45,431	45,385	0.1
Paperboard containers.....	5,978	5,789	5,760	3.3	0.5	2.0	6,079	6,058	5,701	5,814	40,676	40,427	0.6
Printing.....	7,014	6,758	6,340	3.8	6.6	-1.3	6,754	6,670	6,360	7,119	47,549	48,470	-1.9
Petroleum and coal products.....	38,340	36,002	28,231	6.5	27.5	12.2	40,899	37,380	30,508	59,360	268,838	389,133	-30.9
Petroleum refineries.....	34,305	31,913	24,417	7.5	30.7	13.0	36,292	32,729	26,545	54,515	240,445	360,036	-33.2
Chemical products.....	67,762	67,016	65,282	1.1	2.7	0.5	67,371	70,123	65,638	67,493	472,964	472,088	0.2
Pesticides, fertilizers, and other agricultural chemicals.....	2,785	2,744	2,678	1.5	2.5	-1.5	2,358	3,073	3,165	2,308	20,969	22,228	-5.7
Pharmaceuticals and medicines.....	25,219	25,186	24,465	0.1	2.9	0.7	24,934	26,265	24,091	21,942	168,855	152,600	10.7
Paints, coatings, and adhesives.....	4,404	4,271	4,106	3.1	4.0	1.5	4,697	4,702	4,522	4,741	31,272	30,467	2.6
Plastics and rubber products.....	19,516	19,411	18,664	0.5	4.0	2.2	19,896	20,947	19,080	20,930	138,140	144,779	-4.6

<sup>P</sup> Preliminary

<sup>r</sup> Revised data due to late receipts and concurrent seasonal adjustment.

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

<sup>2</sup> Estimates 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, July Full Report, September 2, 2020. 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 Groups<sup>1</sup>**

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

Industry	Seasonally Adjusted						Not Seasonally Adjusted						
	Monthly			Percent Change			Monthly				Year to date		
	July 2020 <sup>p</sup>	June 2020 <sup>r</sup>	May 2020	June - July	May - June	Apr. - May	July 2020 <sup>p</sup>	June 2020 <sup>f</sup>	May 2020	July 2019	2020 <sup>p</sup>	2019	% Change 2020/2019
All manufacturing industries <sup>2</sup> .....	466,082	438,247	411,695	6.4	6.4	7.7	451,897	463,716	408,235	483,479	3,117,227	3,447,009	-9.6
Excluding transportation <sup>2</sup> .....	391,394	383,203	365,643	2.1	4.8	2.6	388,983	402,201	367,843	410,457	2,705,397	2,867,048	-5.6
Excluding defense <sup>2</sup> .....	450,419	426,502	397,556	5.6	7.3	7.5	440,775	448,788	396,667	474,849	3,018,679	3,355,278	-10.0
With unfilled orders <sup>2</sup> .....	153,534	140,648	146,473	9.2	-4.0	15.8	144,158	153,363	139,669	160,798	1,056,169	1,193,530	-11.5
Durable goods industries <sup>2</sup> .....	231,128	207,474	192,605	11.4	7.7	15.0	216,171	225,274	186,130	227,185	1,483,050	1,687,601	-12.1
Primary metals.....	18,004	17,897	17,106	0.6	4.6	8.4	17,549	18,636	17,020	19,206	129,216	144,354	-10.5
Iron and steel mills.....	9,053	8,979	8,908	0.8	0.8	14.2	9,009	9,332	8,886	10,349	65,884	76,730	-14.1
Aluminum and nonferrous metals.....	7,585	7,611	7,011	-0.3	8.6	2.2	7,167	7,912	6,965	7,518	54,191	56,918	-4.8
Ferrous metal foundries.....	1,366	1,307	1,187	4.5	10.1	5.8	1,373	1,392	1,169	1,339	9,141	10,706	-14.6
Fabricated metal products.....	30,168	29,364	27,773	2.7	5.7	6.0	30,082	31,366	28,376	31,930	210,557	224,725	-6.3
Machinery.....	30,506	29,916	28,826	2.0	3.8	1.1	29,614	32,088	28,626	30,521	215,002	226,818	-5.2
Construction machinery.....	2,656	2,596	2,322	2.3	11.8	5.4	2,600	2,480	2,194	2,513	17,917	19,736	-9.2
Mining, oil field, and gas field machinery.....	1,051	1,030	1,025	2.0	0.5	-18.8	980	1,065	959	1,413	8,252	9,733	-15.2
Industrial machinery.....	3,069	3,018	3,190	1.7	-5.4	5.2	2,799	3,300	2,936	2,580	21,560	19,917	8.2
Photographic equipment.....	527	505	563	4.4	-10.3	5.6	535	572	495	474	3,600	3,351	7.4
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,103	3,836	3,442	7.0	11.4	3.9	4,436	4,810	3,671	4,075	27,042	28,356	-4.6
Metalworking machinery.....	2,485	2,595	2,369	-4.2	9.5	-0.5	2,389	2,687	2,243	2,657	17,418	18,410	-5.4
Turbines, generators, and other power transmission equipment.....	3,716	3,647	3,592	1.9	1.5	2.1	3,583	3,780	3,688	3,987	26,351	28,577	-7.8
Material handling equipment.....	2,493	2,571	2,474	-3.0	3.9	-4.2	2,373	2,917	2,386	2,802	18,645	20,251	-7.9
Computers and electronic products <sup>2</sup> .....	24,491	23,879	23,893	2.6	-0.1	0.5	22,502	26,538	22,301	21,479	163,058	160,929	1.3
Computers.....	544	531	539	2.4	-1.5	2.7	509	645	526	553	3,635	4,221	-13.9
Nondefense communications equipment.....	3,771	3,472	3,509	8.6	-1.1	0.4	3,399	4,240	3,042	2,887	23,884	22,517	6.1
Defense communications equipment.....	255	233	237	9.4	-1.7	11.8	247	223	209	175	1,547	1,537	0.7
Electronic components.....	4,273	4,109	4,128	4.0	-0.5	-2.4	4,280	4,294	4,053	3,967	29,015	26,827	8.2
Nondefense search and navigation equipment.....	1,620	1,656	1,624	-2.2	2.0	4.8	1,457	1,837	1,545	1,522	11,164	11,641	-4.1
Defense search and navigation equipment.....	3,059	3,126	3,063	-2.1	2.1	1.7	2,488	3,488	2,689	2,405	20,549	21,103	-2.6
Electromedical, measuring, and control instruments.....	8,845	8,810	8,772	0.4	0.4	-0.3	8,229	9,578	8,441	8,407	60,238	61,985	-2.8
Electrical equipment, appliances, and components.....	10,740	10,313	10,110	4.1	2.0	-0.2	10,433	11,030	10,028	10,779	74,426	76,372	-2.5
Electric lighting equipment.....	989	965	893	2.5	8.1	-2.8	961	1,018	883	1,037	6,641	7,139	-7.0
Household appliances.....	2,203	2,034	1,899	8.3	7.1	16.9	2,048	2,133	1,877	1,774	13,052	12,782	2.1
Electrical equipment.....	2,817	2,899	2,933	-2.8	-1.2	-4.0	2,762	3,326	2,879	3,373	22,325	24,085	-7.3
Transportation equipment.....	74,688	55,044	46,052	35.7	19.5	78.8	62,914	61,515	40,392	73,022	411,830	579,961	-29.0
Motor vehicle bodies, parts, and trailers.....	29,209	26,703	21,076	9.4	26.7	16.3	26,141	27,919	21,126	24,917	180,072	196,814	-8.5
Nondefense aircraft and parts <sup>3</sup> .....	-5,801	-10,507	2,858	(NA)	-467.6	(NA)	-4,071	-9,905	-855	11,612	-23,511	64,993	-136.2
Defense aircraft and parts.....	4,665	2,634	3,718	77.1	-29.2	-5.2	3,764	3,689	2,431	2,696	26,574	30,643	-13.3
Ships and boats.....	3,670	2,097	2,547	75.0	-17.7	12.1	1,523	3,821	1,653	-42	22,843	20,440	11.8
Furniture and related products.....	6,654	6,532	6,055	1.9	7.9	4.4	6,523	6,594	6,180	6,579	45,558	46,623	-2.3
Nondurable goods industries.....	234,954	230,773	219,090	1.8	5.3	2.0	235,726	238,442	222,105	256,294	1,634,177	1,759,408	-7.1

<sup>p</sup> Preliminary

<sup>r</sup> Revised data due to late receipts and concurrent seasonal adjustment.

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

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

<sup>3</sup> (NA) - New Orders month-to-month percent change is not provided for Nondefense aircraft and parts because the denominator has a negative value.

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, July Full Report, September 2, 2020. Information on data sources and methodology can be found on our website at

<[www.census.gov/manufacturing/m3/how\\_the\\_data\\_are\\_collected/index.html](http://www.census.gov/manufacturing/m3/how_the_data_are_collected/index.html)>.

**Table 3. Value of Manufacturers' Unfilled Orders for Industry Groups<sup>1</sup>**

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

Industry	Seasonally Adjusted						Not Seasonally Adjusted				
	Monthly			Percent Change			Monthly				% Change July 2020/ 2019
	July 2020 <sup>p</sup>	June 2020 <sup>r</sup>	May 2020	June - July	May - June	Apr. - May	July 2020 <sup>p</sup>	June 2020 <sup>r</sup>	May 2020	July 2019	
All manufacturing industries <sup>2</sup> .....	1,084,341	1,092,630	1,107,813	-0.8	-1.4	0.0	1,085,733	1,095,100	1,110,448	1,149,544	-5.6
Excluding transportation <sup>2</sup> .....	349,367	349,111	348,755	0.1	0.1	0.2	351,436	351,493	352,594	352,547	-0.3
Excluding defense <sup>2</sup> .....	863,466	873,389	886,523	-1.1	-1.5	0.0	865,336	873,301	889,133	946,368	-8.6
Durable goods industries <sup>2</sup> .....	1,084,341	1,092,630	1,107,813	-0.8	-1.4	0.0	1,085,733	1,095,100	1,110,448	1,149,544	-5.6
Primary metals.....	30,488	30,584	30,566	-0.3	0.1	1.0	30,609	30,779	30,871	31,298	-2.2
Iron and steel mills.....	12,630	12,771	12,864	-1.1	-0.7	3.3	12,961	12,989	13,058	14,110	-8.1
Aluminum and nonferrous metals.....	12,391	12,474	12,505	-0.7	-0.2	-1.2	12,186	12,512	12,609	12,331	-1.2
Ferrous metal foundries.....	5,467	5,339	5,197	2.4	2.7	0.9	5,462	5,278	5,204	4,857	12.5
Fabricated metal products.....	72,761	72,692	72,506	0.1	0.3	0.1	74,018	73,616	73,568	76,433	-3.2
Machinery.....	97,165	97,024	96,947	0.1	0.1	0.0	97,393	97,165	97,856	97,761	-0.4
Construction machinery.....	5,232	5,166	5,074	1.3	1.8	1.4	5,042	4,992	5,181	6,240	-19.2
Mining, oil field, and gas field machinery.....	3,639	3,677	3,787	-1.0	-2.9	-3.1	3,639	3,677	3,787	4,181	-13.0
Industrial machinery.....	8,622	8,627	8,716	-0.1	-1.0	0.1	8,505	8,589	8,849	8,815	-3.5
Photographic equipment.....	1,013	1,024	1,052	-1.1	-2.7	1.3	957	954	1,030	1,026	-6.7
Ventilation, heating, air-conditioning, and refrigeration equipment.....	7,144	7,050	6,893	1.3	2.3	-0.1	7,230	7,208	7,120	6,898	4.8
Metalworking machinery.....	8,296	8,217	8,040	1.0	2.2	0.1	8,406	8,263	8,201	8,371	0.4
Turbines, generators, and other power transmission equipment.....	23,481	23,447	23,596	0.1	-0.6	0.0	23,481	23,447	23,596	23,935	-1.9
Material handling equipment.....	10,970	11,032	11,043	-0.6	-0.1	-0.7	11,164	11,253	10,996	10,990	1.6
Computers and electronic products <sup>2</sup> .....	118,593	118,708	118,601	-0.1	0.1	0.1	118,712	119,135	119,197	117,635	0.9
Computers.....	1,853	1,864	1,905	-0.6	-2.2	-1.7	1,853	1,864	1,905	1,939	-4.4
Nondefense communications equipment.....	24,801	24,836	24,840	-0.1	0.0	0.1	24,861	24,806	24,956	24,627	1.0
Defense communications equipment.....	698	716	769	-2.5	-6.9	-5.6	697	707	774	1,001	-30.4
Electronic components.....	14,557	14,694	14,766	-0.9	-0.5	-0.4	14,435	14,525	14,853	14,092	2.4
Nondefense search and navigation equipment.....	22,053	21,959	21,808	0.4	0.7	0.6	22,111	22,001	21,791	21,289	3.9
Defense search and navigation equipment.....	30,823	30,840	30,725	-0.1	0.4	0.2	30,902	31,228	30,859	31,067	-0.5
Electromedical, measuring, and control instruments.....	23,808	23,799	23,788	0.0	0.0	0.0	23,853	24,004	24,059	23,620	1.0
Electrical equipment, appliances, and components.....	21,851	21,621	21,614	1.1	0.0	0.1	22,039	21,885	22,101	20,960	5.1
Electric lighting equipment.....	1,686	1,675	1,663	0.7	0.7	-1.1	1,696	1,703	1,646	1,537	10.3
Household appliances.....	2,007	1,866	1,718	7.6	8.6	4.6	2,033	1,892	1,786	1,416	43.6
Electrical equipment.....	8,529	8,561	8,599	-0.4	-0.4	-0.1	8,633	8,622	8,741	8,763	-1.5
Transportation equipment.....	734,974	743,519	759,058	-1.1	-2.0	-0.1	734,297	743,607	757,854	796,997	-7.9
Motor vehicle bodies, parts, and trailers.....	21,028	21,133	20,385	-0.5	3.7	0.1	20,398	20,754	20,704	20,371	0.1
Nondefense aircraft and parts.....	493,167	502,915	517,604	-1.9	-2.8	-0.1	493,703	501,203	516,199	574,094	-14.0
Defense aircraft and parts.....	84,137	83,737	85,062	0.5	-1.6	-0.3	83,756	83,812	84,570	78,708	6.4
Ships and boats.....	49,424	48,344	48,642	2.2	-0.6	-0.2	49,633	50,470	49,253	41,345	20.0
Furniture and related products.....	7,936	7,913	7,964	0.3	-0.6	0.2	8,092	8,344	8,444	7,883	2.7

<sup>p</sup> Preliminary

<sup>r</sup> Revised data due to late receipts and concurrent seasonal adjustment.

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

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

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

Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, July Full Report, September 2, 2020. Information on data sources and methodology can be found on our website at <[www.census.gov/manufacturing/m3/how\\_the\\_data\\_are\\_collected/index.html](http://www.census.gov/manufacturing/m3/how_the_data_are_collected/index.html)>.

**Table 4. Value of Manufacturers' Inventories for Industry Groups<sup>1</sup>**

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

Industry	Seasonally Adjusted						Not Seasonally Adjusted				% Change July 2020/ 2019
	Monthly			Percent Change			Monthly				
	July 2020 <sup>p</sup>	June 2020 <sup>r</sup>	May 2020	June - July	May - June	Apr. - May	July 2020 <sup>p</sup>	June 2020 <sup>r</sup>	May 2020	July 2019	
All manufacturing industries.....	687,216	690,353	686,935	-0.5	0.5	0.2	690,711	687,081	689,972	698,908	-1.2
Excluding transportation.....	540,899	543,971	542,621	-0.6	0.2	-0.1	543,110	542,085	545,374	564,841	-3.8
Excluding defense.....	661,832	664,949	661,724	-0.5	0.5	0.2	665,231	661,636	664,629	673,747	-1.3
With unfilled orders.....	344,460	346,587	346,896	-0.6	-0.1	0.1	347,348	345,768	349,056	340,548	2.0
Durable goods industries.....	421,789	424,468	424,813	-0.6	-0.1	0.0	424,926	422,750	426,987	419,913	1.2
Wood products.....	11,588	11,619	11,573	-0.3	0.4	-2.1	11,358	11,352	11,389	11,889	-4.5
Nonmetallic mineral products.....	14,153	14,303	14,404	-1.0	-0.7	-1.4	14,160	14,438	14,688	14,550	-2.7
Primary metals.....	33,374	33,935	34,697	-1.7	-2.2	-2.1	33,569	33,839	34,826	36,386	-7.7
Iron and steel mills.....	18,591	18,998	19,441	-2.1	-2.3	-1.9	18,688	18,934	19,401	20,906	-10.6
Aluminum and nonferrous metals.....	12,697	12,806	13,098	-0.9	-2.2	-2.3	12,803	12,789	13,237	13,240	-3.3
Ferrous metal foundries.....	2,086	2,131	2,158	-2.1	-1.3	-1.8	2,078	2,116	2,188	2,240	-7.2
Fabricated metal products.....	51,665	52,530	53,400	-1.6	-1.6	0.0	52,307	52,655	53,692	54,502	-4.0
Machinery.....	69,656	70,398	70,981	-1.1	-0.8	-0.3	69,975	70,143	71,370	72,865	-4.0
Farm machinery.....	3,712	3,729	3,832	-0.5	-2.7	-1.9	3,597	3,668	3,768	4,004	-10.2
Construction machinery.....	6,073	6,136	6,176	-1.0	-0.6	1.3	6,056	6,138	6,146	6,528	-7.2
Mining, oil field, and gas field machinery.....	4,843	4,682	4,853	3.4	-3.5	-1.7	4,823	4,631	4,873	5,576	-13.5
Industrial machinery.....	9,800	9,903	9,795	-1.0	1.1	1.7	9,733	10,032	9,736	9,075	7.3
Photographic equipment.....	1,435	1,437	1,446	-0.1	-0.6	-2.0	1,454	1,407	1,443	1,469	-1.0
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,987	5,351	5,483	-6.8	-2.4	-1.9	5,085	5,413	5,850	5,855	-13.2
Metalworking machinery.....	5,929	5,974	6,037	-0.8	-1.0	-0.5	5,959	5,882	6,043	6,248	-4.6
Turbines, generators, and other power transmission equipment.....	9,291	9,430	9,525	-1.5	-1.0	-0.5	9,516	9,397	9,671	9,856	-3.4
Material handling equipment.....	4,823	4,793	4,858	0.6	-1.3	-2.1	4,896	4,803	4,877	5,339	-8.3
Computers and electronic products <sup>2</sup> .....	43,989	44,203	44,203	-0.5	0.0	0.0	44,416	44,129	44,799	44,170	0.6
Computers.....	1,855	1,861	1,911	-0.3	-2.6	3.5	1,914	1,910	1,964	1,876	2.0
Computer storage devices.....	936	964	954	-2.9	1.0	-0.6	1,000	956	923	1,029	-2.8
Other peripheral equipment.....	1,054	1,072	1,071	-1.7	0.1	-0.5	1,067	1,064	1,106	1,041	2.5
Nondefense communications equipment.....	4,568	4,540	4,550	0.6	-0.2	-0.7	4,583	4,554	4,691	4,542	0.9
Defense communications equipment.....	670	660	662	1.5	-0.3	-0.7	670	660	662	679	-1.3
Audio and video equipment.....	517	604	702	-14.4	-14.0	2.5	522	588	671	633	-17.5
Electronic components.....	7,824	7,885	7,953	-0.8	-0.9	-1.1	7,857	7,824	7,967	7,861	-0.1
Nondefense search and navigation equipment.....	2,932	2,959	2,950	-0.9	0.3	0.6	2,967	2,934	2,951	2,837	4.6
Defense search and navigation equipment.....	2,668	2,665	2,660	0.1	0.2	-0.2	2,705	2,670	2,750	2,730	-0.9
Electromedical, measuring and control instruments.....	15,471	15,493	15,272	-0.1	1.4	0.4	15,644	15,471	15,548	15,167	3.1
Electrical equipment, appliances, and components.....	19,763	19,795	19,813	-0.2	-0.1	-0.5	20,074	19,936	20,100	20,238	-0.8
Electric lighting equipment.....	2,022	2,026	2,029	-0.2	-0.1	0.0	2,047	2,029	2,041	2,108	-2.9
Household appliances.....	2,351	2,382	2,359	-1.3	1.0	-5.6	2,418	2,381	2,415	2,832	-14.6
Electrical equipment.....	6,482	6,504	6,502	-0.3	0.0	0.9	6,538	6,508	6,620	6,410	2.0
Batteries.....	1,848	1,854	1,855	-0.3	-0.1	-0.5	1,963	1,958	1,924	2,007	-2.2
Transportation equipment.....	146,317	146,382	144,314	0.0	1.4	1.1	147,601	144,996	144,598	134,067	10.1
Automobiles.....	5,710	5,805	5,888	-1.6	-1.4	3.5	5,841	5,620	5,769	5,928	-1.5
Light trucks and utility vehicles.....	5,149	5,217	4,699	-1.3	11.0	3.6	5,359	4,848	4,609	5,569	-3.8
Heavy duty trucks.....	1,847	1,880	1,939	-1.8	-3.0	-1.4	1,958	1,923	2,006	2,023	-3.2
Motor vehicle bodies, parts, and trailers.....	26,509	27,226	27,621	-2.6	-1.4	-0.5	26,815	26,831	27,620	26,898	-0.3
Nondefense aircraft and parts.....	77,854	76,923	75,136	1.2	2.4	2.0	78,058	76,664	75,612	65,348	19.4
Defense aircraft and parts.....	12,447	12,476	12,317	-0.2	1.3	0.3	12,491	12,422	12,411	12,008	4.0
Ships and boats.....	4,135	4,084	4,181	1.2	-2.3	-1.9	4,178	4,133	4,122	4,265	-2.0
Furniture and related products.....	7,153	7,214	7,267	-0.8	-0.7	-1.0	7,257	7,376	7,312	7,613	-4.7
Miscellaneous durable goods.....	24,131	24,089	24,161	0.2	-0.3	0.2	24,209	23,886	24,213	23,633	2.4
Nondurable goods industries.....	265,427	265,885	262,122	-0.2	1.4	0.4	265,785	264,331	262,985	278,995	-4.7
Food products.....	54,505	54,441	54,421	0.1	0.0	-1.3	54,074	53,240	52,960	55,180	-2.0
Grain and oilseed milling.....	5,291	5,203	5,228	1.7	-0.5	-1.1	5,143	5,048	4,976	5,243	-1.9
Dairy products.....	8,487	8,322	8,260	2.0	0.8	-1.4	8,728	8,531	8,457	8,608	1.4
Meat, poultry, and seafood products.....	9,190	9,286	9,336	-1.0	-0.5	-4.5	9,308	9,147	9,217	10,071	-7.6
Beverage and tobacco products.....	25,786	25,710	25,667	0.3	0.2	0.0	25,046	25,191	25,669	25,090	-0.2
Beverages.....	21,875	21,798	21,771	0.4	0.1	0.0	21,414	21,453	21,851	21,270	0.7
Tobacco.....	3,911	3,912	3,896	0.0	0.4	-0.1	3,632	3,738	3,818	3,820	-4.9
Textile mills.....	3,068	3,105	3,169	-1.2	-2.0	0.0	3,089	3,112	3,180	3,279	-5.8
Textile products.....	3,742	3,763	3,789	-0.6	-0.7	-0.4	3,743	3,741	3,779	4,042	-7.4
Apparel.....	1,836	1,838	1,839	-0.1	-0.1	-1.0	1,904	1,856	1,829	1,955	-2.6
Leather and allied products.....	852	853	857	-0.1	-0.5	-0.3	856	855	865	860	-0.5
Paper products.....	15,193	15,313	15,259	-0.8	0.4	0.9	15,307	15,274	15,249	15,419	-0.7
Pulp, paper, and paperboard mills.....	5,656	5,688	5,672	-0.6	0.3	0.7	5,664	5,672	5,695	5,797	-2.3
Paperboard containers.....	5,389	5,494	5,470	-1.9	0.4	0.6	5,444	5,471	5,455	5,437	0.1
Printing.....	5,680	5,679	5,680	0.0	0.0	-0.4	5,648	5,603	5,633	5,635	0.2
Petroleum and coal products.....	32,106	32,274	28,955	-0.5	11.5	7.1	32,744	32,212	29,764	41,196	-20.5
Petroleum refineries.....	26,646	26,696	23,236	-0.2	14.9	10.1	27,204	26,575	23,950	35,245	-22.8
Chemical products.....	96,360	96,559	95,912	-0.2	0.7	-0.2	97,108	96,949	97,222	98,627	-1.5
Pesticides, fertilizers, and other agricultural chemicals.....	5,460	5,526	5,490	-1.2	0.7	1.9	5,195	5,235	5,453	5,306	-2.1
Pharmaceuticals and medicines.....	45,562	45,540	45,084	0.0	1.0	0.4	46,171	46,503	45,818	45,236	2.1
Paints, coatings, and adhesives.....	3,841	3,841	3,882	0.0	-1.1	-3.8	3,856	3,891	3,962	4,069	-5.2
Plastics and rubber products.....	26,299	26,350	26,574	-0.2	-0.8	-0.4	26,266	26,298	26,835	27,712	-5.2

<sup>p</sup> Preliminary

<sup>r</sup> Revised data due to late receipts and concurrent seasonal adjustment.

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

<sup>2</sup> Estimates of inventories for the semiconductor industry data are included in computers and electronic products, and all other applicable aggregate totals.

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

 Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, July Full Report, September 2, 2020. Information on data sources and methodology can be found on our website at <[www.census.gov/manufacturing/m3/how\\_the\\_data\\_are\\_collected/index.html](http://www.census.gov/manufacturing/m3/how_the_data_are_collected/index.html)>.



**Table 5. Value of Manufacturers' Shipments, New Orders, Unfilled Orders, and Total Inventories for Topical Series<sup>1, 2</sup>**

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

Industry	Seasonally Adjusted						Not Seasonally Adjusted						
	Monthly			Percent Change			Monthly				Year to date		% Change <sup>6</sup>
	July 2020 <sup>p</sup>	June 2020 <sup>r</sup>	May 2020	June - July	May - June	Apr. - May	July 2020 <sup>p</sup>	June 2020 <sup>r</sup>	May 2020	July 2019	2020 <sup>p</sup>	2019	
<b>SHIPMENTS</b>													
All manufacturing industries.....	479,530	458,275	416,573	4.6	10.0	3.0	466,322	483,749	418,914	489,206	3,205,987	3,494,301	-8.3
Construction materials and supplies.....	51,710	50,010	47,637	3.4	5.0	2.7	54,316	55,314	49,687	54,481	353,470	361,151	-2.1
Information technology.....	24,619	23,902	23,863	3.0	0.2	0.3	23,047	26,649	22,681	22,472	163,567	162,832	0.5
Computers and related products.....	1,830	1,702	1,839	7.5	-7.4	4.0	1,645	2,167	1,645	1,523	11,854	11,063	7.1
Motor vehicle and parts.....	64,273	51,876	28,370	23.9	82.9	27.2	55,860	55,343	28,486	52,604	329,418	420,922	-21.7
Capital goods.....	79,886	78,420	75,600	1.9	3.7	0.1	75,229	85,810	73,867	78,555	552,482	594,489	-7.1
Nondefense capital goods <sup>3</sup> .....	67,569	66,248	63,227	2.0	4.8	0.2	64,302	73,193	61,672	68,059	469,202	511,819	-8.3
Excluding aircraft.....	65,925	64,351	62,026	2.4	3.7	1.5	62,987	70,671	60,438	63,311	445,970	458,369	-2.7
Defense capital goods <sup>4</sup> .....	12,317	12,172	12,373	1.2	-1.6	-0.5	10,927	12,617	12,195	10,496	83,280	82,670	0.7
Consumer goods.....	202,168	189,647	161,587	6.6	17.4	4.8	195,725	194,741	163,079	208,744	1,298,693	1,470,739	-11.7
Consumer durable goods.....	46,570	36,986	18,178	25.9	103.5	26.4	39,974	38,835	17,987	37,091	225,084	296,983	-24.2
Consumer nondurable goods.....	155,598	152,661	143,409	1.9	6.5	2.5	155,751	155,906	145,092	171,653	1,073,609	1,173,756	-8.5
<b>NEW ORDERS</b>													
All manufacturing industries <sup>5</sup> .....	466,082	438,247	411,695	6.4	6.4	7.7	451,897	463,716	408,235	483,479	3,117,227	3,447,009	-9.6
Construction materials and supplies.....	51,609	50,167	47,520	2.9	5.6	4.9	54,229	55,588	49,740	54,547	353,814	364,210	-2.9
Information technology.....	24,740	23,938	23,976	3.4	-0.2	0.0	22,726	26,579	22,475	21,855	165,268	164,942	0.2
Computers and related products.....	1,819	1,661	1,807	9.5	-8.1	4.2	1,634	2,126	1,613	1,514	11,699	11,011	6.2
Motor vehicle and parts.....	64,168	52,624	28,385	21.9	85.4	28.7	55,504	55,393	28,356	52,107	329,068	419,390	-21.5
Capital goods.....	72,082	63,458	75,292	13.6	-15.7	24.4	67,533	71,505	68,213	78,712	497,138	580,287	-14.3
Nondefense capital goods <sup>3</sup> .....	58,051	52,665	62,334	10.2	-15.5	26.2	57,454	58,383	57,225	71,282	407,535	500,360	-18.6
Excluding aircraft.....	66,112	64,885	62,226	1.9	4.3	1.5	62,976	70,067	60,473	62,943	451,887	460,832	-1.9
Defense capital goods <sup>4</sup> .....	14,031	10,793	12,958	30.0	-16.7	16.6	10,079	13,122	10,988	7,430	89,603	79,927	12.1
Consumer goods.....	202,364	189,822	161,774	6.6	17.3	4.9	195,965	194,793	163,260	208,838	1,299,372	1,470,981	-11.7
Consumer durable goods.....	46,766	37,161	18,365	25.8	102.3	27.8	40,214	38,887	18,168	37,185	225,763	297,225	-24.0
Consumer nondurable goods.....	155,598	152,661	143,409	1.9	6.5	2.5	155,751	155,906	145,092	171,653	1,073,609	1,173,756	-8.5
<b>UNFILLED ORDERS</b>													
All manufacturing industries <sup>5</sup> .....	1,084,341	1,092,630	1,107,813	-0.8	-1.4	0.0	1,085,733	1,095,100	1,110,448	1,149,544	(X)	(X)	-5.6
Construction materials and supplies.....	50,377	50,478	50,321	-0.2	0.3	-0.2	51,461	51,548	51,274	54,754	(X)	(X)	-6.0
Information technology.....	114,678	114,557	114,521	0.1	0.0	0.1	114,911	115,232	115,302	113,813	(X)	(X)	1.0
Computers and related products.....	1,853	1,864	1,905	-0.6	-2.2	-1.7	1,853	1,864	1,905	1,939	(X)	(X)	-4.4
Motor vehicle and parts.....	21,028	21,133	20,385	-0.5	3.7	0.1	20,398	20,754	20,704	20,371	(X)	(X)	0.1
Capital goods.....	780,786	788,590	803,552	-1.0	-1.9	0.0	782,929	790,625	804,930	851,816	(X)	(X)	-8.1
Nondefense capital goods <sup>3</sup> .....	600,779	610,297	623,880	-1.6	-2.2	-0.1	602,997	609,845	624,655	688,839	(X)	(X)	-12.5
Excluding aircraft.....	217,297	217,110	216,576	0.1	0.2	0.1	218,051	218,062	218,666	215,878	(X)	(X)	1.0
Defense capital goods <sup>4</sup> .....	180,007	178,293	179,672	1.0	-0.8	0.3	179,932	180,780	180,275	162,977	(X)	(X)	10.4
Consumer goods.....	5,384	5,188	5,013	3.8	3.5	3.9	5,369	5,129	5,077	4,461	(X)	(X)	20.4
Consumer durable goods.....	5,384	5,188	5,013	3.8	3.5	3.9	5,369	5,129	5,077	4,461	(X)	(X)	20.4
<b>TOTAL INVENTORIES</b>													
All manufacturing industries.....	687,216	690,353	686,935	-0.5	0.5	0.2	690,711	687,081	689,972	698,908	(X)	(X)	-1.2
Construction materials and supplies.....	68,994	70,287	71,273	-1.8	-1.4	-1.0	69,346	70,314	72,053	72,955	(X)	(X)	-4.9
Information technology.....	39,317	39,434	39,407	-0.3	0.1	0.2	39,782	39,417	39,968	39,041	(X)	(X)	1.9
Computers and related products.....	3,845	3,897	3,936	-1.3	-1.0	1.4	3,981	3,930	3,993	3,946	(X)	(X)	0.9
Motor vehicle and parts.....	39,215	40,128	40,147	-2.3	0.0	0.5	39,973	39,222	40,004	40,418	(X)	(X)	-1.1
Capital goods.....	214,305	213,903	212,594	0.2	0.6	0.6	215,944	213,750	214,067	204,698	(X)	(X)	5.5
Nondefense capital goods <sup>3</sup> .....	193,147	192,762	191,551	0.2	0.6	0.7	194,734	192,514	192,986	183,623	(X)	(X)	6.1
Excluding aircraft.....	127,839	128,443	128,971	-0.5	-0.4	0.0	129,075	128,403	130,007	129,897	(X)	(X)	-0.6
Defense capital goods <sup>4</sup> .....	21,158	21,141	21,043	0.1	0.5	-0.3	21,210	21,236	21,081	21,075	(X)	(X)	0.6
Consumer goods.....	202,693	202,994	198,808	-0.1	2.1	0.8	203,082	201,193	198,373	213,537	(X)	(X)	-4.9
Consumer durable goods.....	31,198	31,499	31,144	-1.0	1.1	0.6	31,448	30,632	30,802	32,771	(X)	(X)	-4.0
Consumer nondurable goods.....	171,495	171,495	167,664	0.0	2.3	0.9	171,634	170,561	167,571	180,766	(X)	(X)	-5.1

<sup>x</sup> Not Applicable

<sup>p</sup> Preliminary

<sup>r</sup> Revised data due to late receipts and concurrent seasonal adjustment.

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

<sup>2</sup> Topical series are regroupings of the separate industry categories.

<sup>3</sup> Nondefense capital goods industries include: small arms and ordnance; farm machinery and equipment; construction machinery; mining, oil, and gas field machinery; industrial machinery; vending, laundry, and other machinery; photographic equipment; metalworking machinery; turbines and generators; other power transmission equipment; pumps and compressors; material handling equipment; all other machinery; electronic computers; computer storage devices; other computer peripheral equipment; communications equipment; search and navigation equipment; electromedical, measuring, and control instruments; electrical equipment; other electrical equipment, appliances, and components; heavy duty trucks; aircraft; railroad rolling stock; ships and boats; office and institutional furniture; and medical equipment and supplies.

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

<sup>5</sup> Estimates and percent changes exclude semiconductor industry data.

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

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

Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, July Full Report, September 2, 2020. Information on data sources and methodology can be found on our website at <[www.census.gov/manufacturing/m3/how\\_the\\_data\\_are\\_collected/index.html](http://www.census.gov/manufacturing/m3/how_the_data_are_collected/index.html)>.

**Table 6. Value of Manufacturers' Inventories, by Stage of Fabrication, by Industry Group<sup>1</sup>**

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

Industry	Seasonally Adjusted						Not Seasonally Adjusted				
	Monthly			Percent Change			Monthly				% Change July 2020/ 2019
	July 2020 <sup>p</sup>	June 2020 <sup>f</sup>	May 2020	June - July	May - June	Apr. - May	July 2020 <sup>p</sup>	June 2020 <sup>f</sup>	May 2020	July 2019	
<b>MATERIALS AND SUPPLIES</b>											
All manufacturing industries.....	237,193	238,215	238,549	-0.4	-0.1	-0.1	238,722	237,477	238,806	239,663	-0.4
Durable goods industries.....	145,874	147,069	149,157	-0.8	-1.4	-0.1	147,102	146,598	149,019	146,073	0.7
Wood products.....	5,315	5,353	5,388	-0.7	-0.6	-1.5	5,248	5,158	5,134	5,262	-0.3
Nonmetallic mineral products.....	5,809	5,840	5,853	-0.5	-0.2	-1.0	5,829	5,872	5,888	5,729	1.7
Primary metals.....	12,440	12,632	13,037	-1.5	-3.1	-0.5	12,540	12,640	12,834	13,419	-6.6
Fabricated metal products.....	19,381	19,568	19,819	-1.0	-1.3	0.5	19,689	19,589	19,716	20,586	-4.4
Machinery.....	27,665	27,849	28,255	-0.7	-1.4	-1.0	27,864	27,826	28,398	28,890	-3.6
Computers and electronic products.....	19,832	19,861	19,957	-0.1	-0.5	0.5	20,110	19,949	20,253	19,452	3.4
Electrical equipment, appliances, and components.....	8,880	8,843	8,884	0.4	-0.5	0.9	8,996	8,886	9,005	8,610	4.5
Transportation equipment.....	35,057	35,628	36,439	-1.6	-2.2	0.1	35,205	35,159	36,257	32,670	7.8
Furniture and related products.....	3,483	3,519	3,578	-1.0	-1.6	1.1	3,527	3,573	3,573	3,696	-4.6
Miscellaneous products.....	8,012	7,976	7,947	0.5	0.4	-0.1	8,094	7,946	7,961	7,759	4.3
Nondurable goods industries.....	91,319	91,146	89,392	0.2	2.0	-0.1	91,620	90,879	89,787	93,590	-2.1
Food products.....	19,765	19,631	19,561	0.7	0.4	0.2	19,645	19,417	19,172	19,619	0.1
Beverage and tobacco products.....	5,797	5,812	5,813	-0.3	0.0	0.9	5,506	5,598	5,772	5,629	-2.2
Textiles.....	1,142	1,163	1,182	-1.8	-1.6	-0.4	1,155	1,174	1,191	1,195	-3.3
Textile products.....	1,190	1,194	1,202	-0.3	-0.7	-0.9	1,194	1,196	1,207	1,241	-3.8
Apparel.....	559	550	547	1.6	0.5	0.6	565	548	547	586	-3.6
Leather and allied products.....	282	283	284	-0.4	-0.4	0.4	290	288	288	290	0.0
Paper products.....	7,613	7,733	7,731	-1.6	0.0	1.2	7,668	7,657	7,659	7,609	0.8
Printing.....	2,682	2,708	2,706	-1.0	0.1	0.0	2,693	2,696	2,698	2,730	-1.4
Petroleum and coal products.....	10,204	10,061	8,566	1.4	17.5	-0.9	10,385	10,377	9,143	11,894	-12.7
Chemical products.....	31,253	31,148	30,795	0.3	1.1	-0.6	31,577	31,125	31,124	31,942	-1.1
Plastics and rubber products.....	10,832	10,863	11,005	-0.3	-1.3	0.3	10,942	10,803	10,986	10,855	0.8
<b>WORK IN PROCESS</b>											
All manufacturing industries.....	205,699	206,426	203,584	-0.4	1.4	0.8	206,889	205,609	204,637	202,559	2.1
Durable goods industries.....	158,913	159,442	157,682	-0.3	1.1	0.3	160,326	159,298	159,216	150,698	6.4
Wood products.....	1,972	1,658	1,631	18.9	1.7	-0.7	1,946	1,657	1,637	1,797	8.3
Nonmetallic mineral products.....	1,371	1,396	1,397	-1.8	-0.1	-0.4	1,381	1,420	1,428	1,481	-6.8
Primary metals.....	8,934	9,254	9,420	-3.5	-1.8	-4.3	9,082	9,307	9,540	10,622	-14.5
Fabricated metal products.....	12,937	13,330	13,569	-2.9	-1.8	-0.6	13,100	13,333	13,637	13,798	-5.1
Machinery.....	19,389	19,794	19,624	-2.0	0.9	1.1	19,562	19,706	19,773	19,586	-0.1
Computers and electronic products.....	12,653	12,753	12,779	-0.8	-0.2	-0.4	12,712	12,801	13,145	12,747	-0.3
Electrical equipment, appliances, and components.....	4,171	4,209	4,241	-0.9	-0.8	-0.3	4,234	4,288	4,358	4,226	0.2
Transportation equipment.....	92,533	92,151	90,213	0.4	2.1	1.0	93,327	91,899	90,850	81,600	14.4
Furniture and related products.....	1,129	1,120	1,101	0.8	1.7	-3.2	1,129	1,137	1,126	1,122	0.6
Miscellaneous products.....	3,824	3,777	3,707	1.2	1.9	-1.0	3,853	3,750	3,722	3,719	3.6
Nondurable goods industries.....	46,786	46,984	45,902	-0.4	2.4	2.7	46,563	46,311	45,421	51,861	-10.2
Food products.....	4,863	4,883	4,847	-0.4	0.7	5.7	4,527	4,521	4,507	4,234	6.9
Beverage and tobacco products.....	9,178	9,158	9,094	0.2	0.7	0.2	8,638	8,774	8,949	8,830	-2.2
Textiles.....	593	593	599	0.0	-1.0	0.5	598	591	602	657	-9.0
Textile products.....	335	336	332	-0.3	1.2	-0.6	334	329	328	376	-11.2
Apparel.....	291	298	296	-2.3	0.7	-5.1	302	306	299	337	-10.4
Leather and allied products.....	89	88	85	1.1	3.5	-1.2	89	85	84	97	-8.2
Paper products.....	1,417	1,413	1,396	0.3	1.2	0.1	1,454	1,429	1,400	1,525	-4.7
Printing.....	1,215	1,200	1,199	1.3	0.1	-2.0	1,202	1,127	1,133	1,185	1.4
Petroleum and coal products.....	7,092	7,232	6,610	-1.9	9.4	19.4	7,310	7,188	6,636	11,131	-34.3
Chemical products.....	18,684	18,800	18,557	-0.6	1.3	-1.0	19,083	19,003	18,585	20,362	-6.3
Plastics and rubber products.....	3,029	2,983	2,887	1.5	3.3	2.2	3,026	2,958	2,898	3,127	-3.2
<b>FINISHED GOODS</b>											
All manufacturing industries.....	244,324	245,712	244,802	-0.6	0.4	-0.2	245,100	243,995	246,529	256,686	-4.5
Durable goods industries.....	117,002	117,957	117,974	-0.8	0.0	-0.2	117,498	116,854	118,752	123,142	-4.6
Wood products.....	4,301	4,608	4,554	-6.7	1.2	-3.4	4,164	4,537	4,618	4,830	-13.8
Nonmetallic mineral products.....	6,973	7,067	7,154	-1.3	-1.2	-1.9	6,950	7,146	7,372	7,340	-5.3
Primary metals.....	12,000	12,049	12,240	-0.4	-1.6	-2.0	11,947	11,892	12,452	12,345	-3.2
Fabricated metal products.....	19,347	19,632	20,012	-1.5	-1.9	0.0	19,518	19,733	20,339	20,118	-3.0
Machinery.....	22,602	22,755	23,102	-0.7	-1.5	-0.7	22,549	22,611	23,199	24,389	-7.5
Computers and electronic products.....	11,504	11,589	11,467	-0.7	1.1	-0.4	11,594	11,379	11,401	11,971	-3.1
Electrical equipment, appliances, and components.....	6,712	6,743	6,688	-0.5	0.8	-2.3	6,844	6,762	6,737	7,402	-7.5
Transportation equipment.....	18,727	18,603	17,662	0.7	5.3	3.7	19,069	17,938	17,491	19,797	-3.7
Furniture and related products.....	2,541	2,575	2,588	-1.3	-0.5	-2.8	2,601	2,666	2,613	2,795	-6.9
Miscellaneous products.....	12,295	12,336	12,507	-0.3	-1.4	0.8	12,262	12,190	12,530	12,155	0.9
Nondurable goods industries.....	127,322	127,755	126,828	-0.3	0.7	-0.1	127,602	127,141	127,777	133,544	-4.4
Food products.....	29,877	29,927	30,013	-0.2	-0.3	-3.3	29,902	29,302	29,281	31,327	-4.5
Beverage and tobacco products.....	10,811	10,740	10,760	0.7	-0.2	-0.7	10,902	10,819	10,948	10,631	2.5
Textiles.....	1,333	1,349	1,388	-1.2	-2.8	0.1	1,336	1,347	1,387	1,427	-6.4
Textile products.....	2,217	2,233	2,255	-0.7	-1.0	-0.1	2,215	2,216	2,244	2,425	-8.7
Apparel.....	986	990	996	-0.4	-0.6	-0.6	1,037	1,002	983	1,032	0.5
Leather and allied products.....	481	482	488	-0.2	-1.2	-0.6	477	482	493	473	0.8
Paper products.....	6,163	6,167	6,132	-0.1	0.6	0.7	6,185	6,188	6,190	6,285	-1.6
Printing.....	1,783	1,771	1,775	0.7	-0.2	0.1	1,753	1,780	1,802	1,720	1.9
Petroleum and coal products.....	14,810	14,981	13,779	-1.1	8.7	7.2	15,049	14,647	13,985	18,171	-17.2
Chemical products.....	46,423	46,611	46,560	-0.4	0.1	0.4	46,448	46,821	47,513	46,323	0.3
Plastics and rubber products.....	12,438	12,504	12,682	-0.5	-1.4	-1.5	12,298	12,537	12,951	13,730	-10.4

<sup>p</sup> Preliminary

<sup>f</sup> Revised data due to late receipts and concurrent seasonal adjustment.

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

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

Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, July Full Report, September 2, 2020. Information on data sources and methodology can be found on our website at <[www.census.gov/manufacturing/m3/how\\_the\\_data\\_are\\_collected/index.html](http://www.census.gov/manufacturing/m3/how_the_data_are_collected/index.html)>.

**Table 7. Ratios of Manufacturers' Inventories to Shipments and Unfilled Orders to Shipments, by Industry Group <sup>1</sup>**

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

Industry	Inventory/Shipments ratio				Unfilled Orders/Shipments ratio <sup>2</sup>			
	Jul 2020 <sup>0</sup>	Jun 2020 <sup>1</sup>	May 2020	Apr 2020	Jul 2020 <sup>0</sup>	Jun 2020 <sup>1</sup>	May 2020	Apr 2020
All manufacturing industries <sup>3</sup> .....	1.43	1.51	1.65	1.70	(X)	(X)	(X)	(X)
Durable goods industries <sup>3</sup> .....	1.72	1.87	2.15	2.24	6.70	7.01	7.56	7.70
Wood products.....	1.22	1.30	1.33	1.43	(X)	(X)	(X)	(X)
Nonmetallic mineral products.....	1.20	1.23	1.28	1.33	(X)	(X)	(X)	(X)
Primary metals.....	1.84	1.90	2.07	2.13	1.68	1.71	1.82	1.82
Fabricated metal products.....	1.72	1.80	1.93	1.95	2.50	2.57	2.70	2.72
Machinery.....	2.29	2.36	2.47	2.52	3.55	3.59	3.69	3.74
Computers and electronic products <sup>3</sup> .....	1.48	1.54	1.54	1.55	5.28	5.44	5.44	5.44
Electrical equipment, appliances, and components.....	1.88	1.92	1.96	1.99	2.24	2.26	2.31	2.30
Transportation equipment.....	1.76	2.07	3.10	3.45	15.23	16.65	19.31	20.27
Furniture and related products.....	1.08	1.10	1.20	1.25	1.36	1.37	1.47	1.49
Miscellaneous products.....	1.66	1.73	1.88	1.95	(X)	(X)	(X)	(X)
Nondurable goods industries.....	1.13	1.15	1.20	1.22	(X)	(X)	(X)	(X)
Food products.....	0.81	0.81	0.81	0.83	(X)	(X)	(X)	(X)
Beverage and tobacco products.....	1.95	1.95	2.00	2.07	(X)	(X)	(X)	(X)
Textiles.....	1.48	1.51	1.66	1.71	(X)	(X)	(X)	(X)
Textile products.....	2.13	2.09	2.23	2.30	(X)	(X)	(X)	(X)
Apparel.....	2.11	2.14	2.16	2.24	(X)	(X)	(X)	(X)
Leather and allied products.....	2.02	2.21	2.51	2.84	(X)	(X)	(X)	(X)
Paper products.....	0.93	0.96	0.95	0.94	(X)	(X)	(X)	(X)
Printing.....	0.81	0.84	0.90	0.89	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.84	0.90	1.03	1.07	(X)	(X)	(X)	(X)
Chemical products.....	1.42	1.44	1.47	1.48	(X)	(X)	(X)	(X)
Plastics and rubber products.....	1.35	1.36	1.42	1.46	(X)	(X)	(X)	(X)

<sup>0</sup> Not Applicable

<sup>1</sup> Preliminary

<sup>2</sup> Revised data due to late receipts and concurrent seasonal adjustment.

<sup>3</sup> Excludes the following industries with no unfilled orders: Wood products; nonmetallic mineral products; medical equipment and supplies; office supplies; other miscellaneous manufacturing; cutlery and handtools; farm and garden machinery; computer storage and peripheral devices; audio and video equipment; manufacturing and reproducing magnetic and optical media; batteries; automobiles; light trucks and utility vehicles; heavy duty trucks; and miscellaneous furniture.

<sup>4</sup> Unfilled orders to shipments ratio excludes semiconductor manufacturing.

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

Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, July Full Report, September 2, 2020. Information on data sources and methodology can be found on our website at <[www.census.gov/manufacturing/m3/how\\_the\\_data\\_are\\_collected/index.html](http://www.census.gov/manufacturing/m3/how_the_data_are_collected/index.html)>.

**Table 8. Revisions to Previously Published Monthly Percent Changes <sup>1</sup>**

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

Industry	Shipments		New Orders		Unfilled Orders		Inventories	
	Jul <sup>2</sup> 2020	Jul <sup>3</sup> 2019- Jun 2020	Jul <sup>2</sup> 2020	Jul <sup>3</sup> 2019- Jun 2020	Jul <sup>2</sup> 2020	Jul <sup>3</sup> 2019- Jun 2020	Jul <sup>2</sup> 2020	Jul <sup>3</sup> 2019- Jun 2020
	All manufacturing industries.....	(X)	0.2	(X)	0.2	(X)	0.1	(X)
Durable goods industries.....	0.2	0.3	0.2	0.6	0.0	0.1	-0.1	0.1
Wood products.....	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.2
Nonmetallic mineral products.....	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.2
Primary metals.....	0.0	0.4	0.4	0.5	0.3	0.2	-0.5	0.3
Fabricated metal products.....	0.7	0.7	0.7	0.8	0.0	0.2	-0.4	0.2
Machinery.....	0.1	0.4	0.0	0.5	-0.1	0.1	-0.1	0.1
Computers and electronic products.....	0.6	0.3	0.4	0.4	-0.1	0.1	-0.1	0.1
Electrical equipment, appliances, and components.....	-0.1	0.3	0.0	0.4	0.1	0.2	-0.3	0.2
Transportation equipment.....	0.1	0.3	0.1	1.2	0.0	0.1	-0.1	0.1
Furniture and related products.....	(X)	0.7	(X)	0.7	(X)	0.4	(X)	0.4
Miscellaneous products.....	(X)	0.3	(X)	0.3	(X)	0.1	(X)	0.1
Nondurable goods industries.....	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.1
Food products.....	(X)	0.1	(X)	(NA)	(X)	(NA)	(X)	0.2
Beverage and tobacco products.....	(X)	0.7	(X)	(NA)	(X)	(NA)	(X)	0.3
Textiles.....	(X)	0.6	(X)	(NA)	(X)	(NA)	(X)	0.2
Textile products.....	(X)	0.6	(X)	(NA)	(X)	(NA)	(X)	0.3
Apparel.....	(X)	0.7	(X)	(NA)	(X)	(NA)	(X)	0.3
Leather and allied products.....	(X)	1.1	(X)	(NA)	(X)	(NA)	(X)	0.1
Paper products.....	(X)	0.4	(X)	(NA)	(X)	(NA)	(X)	0.2
Printing.....	(X)	0.6	(X)	(NA)	(X)	(NA)	(X)	0.2
Petroleum and coal products.....	(X)	0.5	(X)	(NA)	(X)	(NA)	(X)	0.6
Chemical products.....	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.0
Plastics and rubber products.....	(X)	0.4	(X)	(NA)	(X)	(NA)	(X)	0.2

X Not Applicable

NA Not Available

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

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

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

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

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