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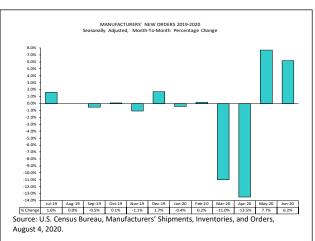
MONTHLY FULL REPORT ON MANUFACTURERS' SHIPMENTS, INVENTORIES AND ORDERS JUNE 2020

Release Number: CB 20-113 M3-2 (20)-06

Statement Regarding COVID-19 Impact: Due to recent events surrounding COVID-19, many businesses are operating on a limited capacity or have ceased operations completely. The Census Bureau has monitored response and data quality and determined estimates in this release meet publication standards. For more information on the compilation of this month's reports, see < <u>M3 COVID-19 FAQs</u>>.

August 4, 2020 — The U.S. Census Bureau announces the June full report on manufacturers' shipments, inventories and orders:





Summary

New orders for manufactured goods in June, up two consecutive months, increased \$25.5 billion or 6.2 percent to \$437.2 billion, the U.S. Census Bureau reported today. This followed a 7.7 percent May increase. Shipments, also up two consecutive months, increased \$40.7 billion or 9.8 percent to \$457.3 billion. This followed a 3.0 percent May increase. Unfilled orders, down three of the last four months, decreased \$15.3 billion or 1.4 percent to \$1,092.5 billion. This followed a virtually unchanged May increase. The unfilled orders-to-shipments ratio was 7.01, down from 7.56 in May. Inventories, up two consecutive months, increased \$4.0 billion or 0.6 percent to \$690.9 billion. This followed a 0.2 percent May increase. The inventories-to-shipments ratio was 1.51, down from 1.65 in May.

Data Inquiries

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New Orders

New orders for manufactured durable goods in June, up two consecutive months, increased \$14.6 billion or 7.6 percent to \$207.2 billion, up from the previously published 7.3 percent increase. This followed a 15.0 percent May increase. Transportation equipment, also up two consecutive months, led the increase, \$9.3 billion or 20.2 percent to \$55.4 billion. New orders for manufactured nondurable goods increased \$10.9 billion or 5.0 percent to \$230.0 billion.

Shipments

Shipments of manufactured durable goods in June, up two consecutive months, increased \$29.8 billion or 15.1 percent to \$227.3 billion, up from the previously published 14.9 percent increase. This followed a 4.1 percent May increase. Transportation equipment, also up two consecutive months, led the increase, \$24.3 billion or 52.1 percent to \$70.9 billion. Shipments of manufactured nondurable goods, up two consecutive months, increased \$10.9 billion or 5.0 percent to \$230.0 billion. This followed a 2.0 percent May increase. Petroleum and coal products, also up two consecutive months, led the increase, \$7.6 billion or 27.0 percent to \$35.9 billion.

Unfilled Orders

Unfilled orders for manufactured durable goods in June, down three of the last four months, decreased \$15.3 billion or 1.4 percent to \$1,092.5 billion, unchanged from the previously published decrease. This followed a virtually unchanged May increase. Transportation equipment, down four consecutive months, drove the decrease, \$15.6 billion or 2.1 percent to \$743.5 billion.

Inventories

Inventories of manufactured durable goods in June, up four consecutive months, increased \$0.2 billion or virtually unchanged to \$425.0 billion, down from the previously published 0.1 percent increase. This followed a virtually unchanged May increase. Transportation equipment, up twenty-three of the last twenty-four months, drove the increase, \$2.1 billion or 1.5 percent to \$146.5 billion. Inventories of manufactured nondurable goods, up two consecutive months, increased \$3.8 billion or 1.5 percent to \$265.9 billion. This followed a 0.4 percent May increase. Petroleum and coal products, also up two consecutive months, led the increase, \$3.2 billion or 11.0 percent to \$32.1 billion. By stage of fabrication, June materials and supplies decreased 1.2 percent in durable goods and increased 1.9 percent in nondurable goods. Work in process increased 1.2 percent in durable goods and 2.3 percent in nondurable goods. Finished goods increased 0.1 percent in durable goods and 0.9 percent in nondurable goods.

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The Advance Report on durable goods for July is scheduled for release on August 26, 2020 at 8:30 a.m. EDT and the Full Report on September 2, 2020 at 10:00 a.m. EDT. View the full schedule in the Economic Briefing Room: < www.census.gov/economic-indicators/>. The full text and tables of this release can be found at < www.census.gov/m3>.

EXPLANATORY NOTES

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

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

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 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>.

RESOURCES

API

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

<www.census.gov/developers/>.

FRED Mobile App



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

Louis, now incorporates the Census Bureau's 13 economic indicators.

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Table 1. Value of Manufacturers' Shipments for Industry Groups¹

[Estimates are shown in millions of do	liars and a		asonally Ad		anutactu	irers' Sni	pments, in	ventories,		Seasonally Ac	liusted		
		Monthly	,		rcent Char	nge		Mor	nthly	,	,	Year to date	
Industry	June 2020 ^p	May 2020 ^r	Apr. 2020	May - June	Apr May	Mar Apr.	June 2020 ^p	May 2020 ^r	Apr. 2020	June 2019	2020 ^p	2019	% Change 2020/ 2019
All manufacturing industries	457,303	416,573	404,544	9.8	3.0	-14.0	483,608	418,914	404,341	520,507	2,739,524	3,005,095	-8.8
Excluding transportation	386,380	369,950	363,123		1.9		407,449	372,240	363,032	427,540	2,336,801	2,475,447	-5.6
Excluding defense With unfilled orders	443,380 155,770	402,547 146,472	390,275 143,820		3.1 1.8		469,022 168,999	405,233 146,145	390,947 142,282	505,201 185,228	2,656,907 959,341	2,922,198 1,046,720	-9.1 -8.3
Durable goods industries	227,326	197,483	189,742		4.1		245,593	196,809	188,568	264,794	1,341,500	1,501,981	-10.7
-		•											
Wood products Nonmetallic mineral products	8,918 11,653	8,674 11,235	8,255 10,952		5.1 2.6	-9.4 -4.2	9,784 12,769	9,294 11,507	8,830 11,186	9,679 12,067	53,470 66,955	53,471 66,324	0.0 1.0
Primary metals	17,816	16,800	16,653	6.0	0.9	-12.2	18,741	17,107	17,379	20,279	112,360	124,729	-9.9
Iron and steel mills Aluminum and nonferrous metals	8,987 7,656	8,496 7,162	8,489 7,083		0.1 1.1	-13.3 -9.5	9,378 8,031	8,727 7,227	8,988 7,259	10,431 8,229	57,530 47,068	66,171 49,083	-13.1 -4.1
Ferrous metal foundries	1,173	1,142	1,081		5.6		1,332	1,153	1,132	1,619	7,762	9,475	-18.1
Fabricated metal products Machinery	29,132 29,715	27,668 28,793	27,397 28,211		1.0 2.1	-11.2 -8.5	31,263 32,699	28,082 28,991	27,681 28,275	32,940 34,577	179,254 182,871	189,882 195,371	-5.6 -6.4
Farm machinery	1,748	1,569	1,567		0.1	-8.5 -7.4	1,867	1,613	1,913	1,994	11,321	13,084	-13.5
Construction machinery	2,425	2,252	2,292	7.7	-1.7	-13.5	2,624	2,301	2,396	3,316	15,657	18,969	-17.5
Mining, oil field, and gas field machinery	1,141	1,145	1,247	-0.3	-8.2	-9.6	1,175	1,079	1,170	1,553	7,617	8,749	-12.9
Industrial machinery	3,114	3,178	3,060		3.9		3,565	3,066	2,809	3,499	18,668	16,997	9.8
Photographic equipment Ventilation, heating, air-conditioning,	536	550	505	-2.5	8.9	-6.7	648	505	456	615	3,181	3,157	0.8
and refrigeration equipment	3,681	3,447	3,323			-12.8		3,709	3,340	4,833	21,894	-	-6.6
Metalworking machinery Turbines, generators, and other	2,412	2,360	2,307	2.2	2.3	-6.8	2,617	2,233	2,187	2,718	14,372	15,929	-9.8
power transmission equipment	3,791	3,590	3,455		3.9	-12.2	3,918	3,686	3,459	4,195	22,916	24,716	-7.3
Material handling equipment	2,596 28,462	2,555 28,701	2,574 28,610		-0.7 0.3	-6.0 0.5	2,660 31,326	2,508 26,903	2,578 26,135	2,834 30,579	16,055 166,497	17,202 164,634	-6.7 1.1
Computers and electronic products ² Computers	28,402 567	571	559		2.1	-0.2	51,520 684	558	524	754	3,268	3,711	-11.9
Computer storage devices	453	474	484		-2.1	-2.8	586	359	354	440	2,727	1,800	
Other peripheral equipment Nondefense communications	680	794	725	-14.4	9.5	2.8	894	728	572	876	4,211	4,029	4.5
equipment	3,477	3,491	3,485		0.2	-0.2	4,390	3,172	3,133	4,069	20,311	19,127	6.2
Defense communications equipment Audio and video equipment	287 317	283 288	264 277	1.4 10.1	7.2 4.0	3.5 5.3	290 300	263 269	269 232	277 328	1,550 1,527	1,575 1,842	-1.6 -17.1
Electronic components	4,130	4,181	4,193		-0.3		4,593	4,190	4,085	4,307	24,846	22,966	
Nondefense search and navigation	1,484	1,490	1,501	-0.4	-0.7	-1.3	1,613	1,443	1,364	1,715	9,040	9,659	-6.4
equipment Defense search and navigation	1,404	1,490	1,301	-0.4	-0.7	-1.3	1,013	1,443	1,304	1,/13	9,040	9,039	-0.4
equipment Electromedical, measuring,	2,993	3,006	3,011	-0.4	-0.2	0.3	3,116	2,900	2,900	3,138	17,551	17,082	2.7
and control instruments	8,787	8,779	8,775	0.1	0.0	-1.1	9,691	8 <i>,</i> 378	7,985	9,809	51,474	53,402	-3.6
Electrical equipment, appliances,	10 202	10.005	10.012	2.1	0.7	10.2	11 270	0.005	0.020	11 002	62.015	64.522	2.5
and components Electric lighting equipment	10,293 947	10,085 911	10,013 933		0.7 -2.4	-10.3 -8.3	11,270 961	9,905 920	9,828 922	11,803 1,032	62,915 5,724	64,533 5,934	-2.5 -3.5
Household appliances	1,878	1,823	1,610		13.2		2,014	1,743	1,592	1,920	10,655	10,974	-2.9
Electrical equipment Batteries	2,959 759	2,942 737	3,079 639		-4.4 15.3		3,472 796	2,919 657	2,962 616	3,978 745	19,385 4,096	20,362 4,151	-4.8 -1.3
Transportation equipment	70,923	46,623	41,421	52.1	12.6	-43.6	76,159	46,674	41,309	92,967	402,723	529,648	
Automobiles Light trucks and utility vehicles	6,119 17,674	1,692 4,031	473 2,190		257.7 84.1	-92.1 -83.7	6,574 18,465	1,693 3,930	479 2,243	9,432 21,570	31,948 75,607	56,037 122,970	-43.0 -38.5
Heavy duty trucks	2,135	1,586	1,279		24.0		2,435	1,607	1,325	2,755	12,078	16,379	-26.3
Motor vehicle bodies, parts, and trailers	26,165	21,061	18,368	24.2	14.7	-30.5	28,147	21,256	19,213	28,892	154,203	172,932	-10.8
Nondefense aircraft and parts	4,190	3,523	4,350	18.9	-19.0	-59.5	5,091	3,418	3,807	14,037	39,331	72,871	-46.0
Defense aircraft and parts Ships and boats	3,940 2,504	3,966 2,628	4,213 2,363		-5.9 11.2		4,445 2,732	3,867 2,654	3,704 2,367	5,363 3,354	24,033 16,127	28,083 18,783	-14.4 -14.1
Furniture and related products	6,555	6,040	5,855	8.5	3.2	-10.8	6,681	5,957	5,825	6,761	38,074	39,077	-2.6
Miscellaneous durable goods	13,859	12,864	12,375	7.7	4.0	-3.0	14,901	12,389	12,120	13,142	76,381	74,312	2.8
Nondurable goods industries	229,977	219,090	214,802	5.0	2.0	-9.3	238,015	222,105	215,773	255,713	1,398,024	1,503,114	-7.0
Food products	67,133	66,875	66,810		0.1	-2.7	67,234	66,284	65,486 6,875	65,782	400,819	394,922 40,013	1.5
Grain and oilseed milling Dairy products	7,159 10,615	7,328 10,367	7,044 10,235		4.0 1.3	2.5 -3.7	7,188 10,467	7,002 10,351	6,875 10,044	6,599 10,032	41,470 62,111	40,912 60,481	1.4 2.7
Meat, poultry, and seafood products	17,934	17,721	18,173	1.2	-2.5	-7.4	18,788	18,210	18,209	20,011	112,289	117,670	
Beverage and tobacco products Beverages	13,130 9,192	12,806 8,952	12,398 9,077		3.3 -1.4		13,982 10,044	13,291 9,437	12,416 9,095	13,930 9,702	77,366 54,747	78,447 54,452	-1.4 0.5
Tobacco	3,938	3,854	3,321	2.2	16.0	-22.8	3,938	3,854	3,321	4,228	22,619	23,995	-5.7
Textile mills Textile products	2,053 1,811	1,909 1,697	1,856 1,651		2.9 2.8	-16.8 -11.8	2,201 1,920	1,977 1,758	1,900 1,696	2,493 2,147	12,773 10,903	14,207 12,263	-10.1 -11.1
Apparel	852	852	831	0.0	2.5	-6.1	823	788	719	877	4,878	5,094	-4.2
Leather and allied products Paper products	387 16,015	342 16,092	303 16,140		12.9 -0.3		410 16,534	337 16,084	298 15,811	422 16,323	2,186 96,737	2,455 96,158	-11.0 0.6
Pulp, paper, and paperboard mills	6,472	6,541	6,561	-1.1	-0.3	-0.7	6,537	6,458	6,396	6,477	38,820	38,529	0.8
Paperboard containers Printing	5,770 6,712	5,760 6,340	5,645 6,425		2.0 -1.3		6,059 6,632	5,701 6,360	5,621 6,510	5,907 6,903	34,598 40,757	34,613 41,351	0.0 -1.4
Petroleum and coal products	35,853	28,231	25,163		-1.3 12.2		37,347	30,508	25,744	56,255	227,906	329,773	-30.9
Petroleum refineries	31,797 66 738	24,417 65,282	21,607 64,969		13.0		32,755 70,068	26,545 65,638	22,286 66,435	51,449 69.245	204,179 405 538	305,521	-33.2 0.2
Chemical products Pesticides, fertilizers, and other	66,738	65,282	64,969	2.2	0.5	-4.7	70,068	65,638	66,435	69,245	405,538	404,595	0.2
agricultural chemicals	2,705	2,678	2,719		-1.5		3,074	3,165	3,529	3,111	18,612	19,920	-6.6
Pharmaceuticals and medicines Paints, coatings, and adhesives	25,184 4,256	24,465 4,106	24,306 4,045		0.7 1.5	1.0 -9.1	26,265 4,689	24,091 4,522	24,313 4,524	22,403 4,754	143,921 26,562	130,658 25,726	10.2 3.2
Plastics and rubber products	19,293	18,664	18,256		2.2		20,864	19,080	18,758	21,336	118,161	123,849	-4.6
-	<u> </u>	L								<u>_</u>			

^p Preliminary

^rRevised data due to late receipts and concurrent seasonal adjustment.

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

² Estimates and percent changes of shipments for the semiconductor industry are included in computers and electronic products, and all other applicable aggregate totals.

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

[Estimates are shown in millions of dollars		u on data n	Seasonally A		.		torres, arra (<u> </u>		Seasonally A	djusted		
		Monthly	-	-	rcent Chang	ge		Mon		•		Year to date	
Industry													% Change
	June	May	Apr.	May -	Apr	Mar	June	May	Apr.	June			2020/
	2020 ^p	2020 ^r	2020	June	May	Apr.	2020 ^p	2020 ^r	2020	2019	2020 ^p	2019	2019
All manufacturing industries ²	437,213	411,695	382,304	6.2	7.7	-13.5	463,346	408,235	381,868	508,008	2,664,960	2,963,530	-10.1
Excluding transportation ²	381,857	365,643	356,542	4.4	2.6	-8.9	401,468	367,843	358,154	421,701	2,315,681	2,456,591	-5.7
Excluding defense ²	425,449	397,556	369,967	7.0	7.5	-12.8	448,254	396,667	371,111	493,432	2,577,370	2,880,429	-10.5
With unfilled orders ²	140,485	146,473	126,453	-4.1	15.8	-12.3		139,669	124,104	177,297	912,102	1,032,732	
Durable goods industries ²	207,236	192,605	167,502	7.6	15.0	-18.3	225,331	186,130	166,095	252,295	1,266,936	1,460,416	-13.2
Primary metals	17,906	17,106	15,782	4.7	8.4	-14.5	18,687	17,020	16,402	20,242	111,718	125,148	-10.7
Iron and steel mills	8,962	8,908	7,800	0.6	14.2	-14.0	9,348	8,886	8,253	10,544	56,891	66,381	-14.3
Aluminum and nonferrous metals	7,644	7,011	6,860	9.0	2.2	-14.6	7,934	6,965	6,991	8,211	47,046	49,400	-4.8
Ferrous metal foundries	1,300	1,187	1,122	9.5	5.8	-16.4	1,405	1,169	1,158	1,487	7,781	9,367	-16.9
Fabricated metal products	29,159	27,773	26,211	5.0	6.0	-13.6	31,228	28,376	26,804	32,776	180,337	192,795	-6.5
Machinery	29,697	28,826	28,503	3.0	1.1	-8.0	31,940	28,626	28,892	33,429	185,240	196,297	-5.6
Construction machinery	2,410	2,322	2,204	3.8	5.4	-9.0	2,352	2,194	2,199	2,494	15,189	17,223	-11.8
Mining, oil field, and	4 004	4 00-	4 0 6 0	0.6	40.0	2 -	4 065	050	1 100	4 400	7.070	0.000	10.6
gas field machinery	1,031	1,025	1,263	0.6				959	1,186	1,403	7,272	8,320	
Industrial machinery	3,007	3,190	3,033	-5.7	5.2		3,300	2,936	2,876	3,412	18,761	17,337	
Photographic equipment	506	563	533	-10.1	5.6	0.0	572	495	472	651	3,065	2,877	6.5
Ventilation, heating, air-conditioning, and refrigeration equipment	3,826	3,442	3,314	11.2	3.9	-15.2	4,810	3,671	3,407	4,710	22,606	24,281	-6.9
Metalworking machinery	2,582	2,369	2,380	9.0			2,685	2,243	2,481	4,710 2,525	15,027	15,753	
Turbines, generators, and other	2,302	2,303	2,300	5.0	0.5	4.0	2,003	2,243	2,401	2,323	13,027	15,755	4.0
power transmission equipment	3,638	3,592	3,518	1.3	2.1	-12.9	3,765	3,688	3,522	4,228	22,753	24,590	-7.5
Material handling equipment	2,604	2,474	2,582	5.3			2,917	2,386	2,564	3,335	16,272	17,449	
Computers and electronic products ²	23,890	23,893	23,771	0.0			26,493	22,301	22,079	26,091	140,511	139,450	
Computers	526	539	525	-2.4			643	526	490	723	3,124	3,668	
Nondefense communications	323	333	323		2.,		0.0	323	.50	, 23	3,12 :	3,000	10
equipment	3,519	3,509	3,496	0.3	0.4	0.6	4,240	3,042	3,234	4,047	20,485	19,630	4.4
Defense communications equipment	229	237	212	-3.4			223	209	209	, 213	1,300	1,362	
Electronic components	4,118	4,128	4,230	-0.2	-2.4	0.5	4,268	4,053	4,205	4,028	24,709	22,860	8.1
Nondefense search and navigation													
equipment	1,619	1,624	1,549	-0.3	4.8	0.8	1,767	1,545	1,492	1,735	9,637	10,119	-4.8
Defense search and navigation	2 150	2.062	2 012	2.0	1.7	1 1	2 400	2.680	2.015	2 604	19.061	10.600	-3.4
equipment Electromedical, measuring,	3,150	3,063	3,013	2.8	1.7	1.1	3,488	2,689	2,915	3,604	18,061	18,698	-3.4
and control instruments	8,797	8,772	8,797	0.3	-0.3	-1.6	9,632	8,441	7,954	9,799	52,063	53,578	-2.8
Electrical equipment, appliances,	0,737	0,772	0,737	0.5	0.5	1.0	3,032	0,441	7,554	3,733	32,003	33,376	2.0
and components	10,307	10,110	10,128	1.9	-0.2	-9.0	11,071	10,028	10,150	11,768	64,034	65,593	-2.4
Electric lighting equipment	953	893	919	6.7	-2.8		1,018	883	909	1,146	5,680	6,102	-6.9
Household appliances	2,057	1,899	1,625	8.3			2,151	1,877	1,687	1,925	11,022	11,008	
Electrical equipment	2,933	2,933	3,054	0.0	-4.0			2,879	2,995	3,841	19,599	20,712	
Transportation equipment	55,356	46,052	25,762	20.2				40,392	23,714	86,307	349,279	506,939	
Motor vehicle bodies, parts,		,	,				, ,	,	,	,	, -	,	
and trailers	26,932	21,076	18,115	27.8	16.3	-31.1	28,191	21,126	18,527	28,076	154,203	171,897	-10.3
Nondefense aircraft and parts ³	-10,354	2,858	-8,601	-462.3	(NA)	(NA)	-9,905	-855	-9,938	9,407	-19,440	53,381	-136.4
Defense aircraft and parts	2,582	3,718	3,923	-30.6	-5.2	-34.9	3,706	2,431	3,516	5,533	22,827	27,947	-18.3
Ships and boats	2,092	2,547	2,272	-17.9	12.1	253.9	3,938	1,653	1,687	1,738	21,437	20,482	4.7
Furniture and related products	6,479	6,055	5,799	7.0	4.4	-12.4	6,568	6,180	5,954	6,778	39,009	40,044	-2.6
Nondurable goods industries	229,977	219,090	214,802	5.0	2.0	-9.3	238,015	222,105	215,773	255,713	1,398,024	1,503,114	-7.0

^p Preliminary

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

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

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

³ (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, June Full Report, August 4, 2020. Information on data sources and methodology can be found on our website at https://www.census.gov/manufacturing/m3/how_the_data_are_collected/index.html.

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

			Seasonally Ad	ljusted			Not Seasonally Adjusted						
		Monthly		P	ercent Chang	e		Mon	thly		% Change		
Industry	June 2020 ^p	May 2020 ^r	Apr. 2020	May - June	Apr May	Mar Apr.	June 2020 ^p	May 2020 ^r	Apr. 2020	June 2019	June 2020/ 2019		
All manufacturing industries ²	1,092,528	1,107,813	1,107,812	-1.4	0.0	-1.5	1,094,903	1,110,448	1,116,924	1,150,272	-4.8		
Excluding transportation ²	349,037	348,755	348,183	0.1	0.2	-0.5	351,330	352,594	352,788	352,735	-0.4		
Excluding defense ²	873,397	886,523	886,635	-1.5	0.0	-1.7	873,082	889,133	893,496	943,561	-7.5		
Durable goods industries ²	1,092,528	1,107,813	1,107,812	-1.4	0.0	-1.5	1,094,903	1,110,448	1,116,924	1,150,272	-4.8		
Primary metals	30,656	30,566	30,260	0.3	1.0	-2.8	30,817	30,871	30,958	31,355			
Iron and steel mills	12,839	12,864	12,452	-0.2	3.3	-5.2	13,028	13,058	12,899	13,842	-5.9		
Aluminum and nonferrous metals	12,493	12,505	12,656	-0.1	-1.2	-1.7	12,512	12,609	12,871	12,563			
Ferrous metal foundries	5,324	5,197	5,152	2.4	0.9	0.8	5,277	5,204	5,188	4,950			
Fabricated metal products	72,533	72,506	72,401	0.0	0.1	-1.6	73,533	73,568	73,274	75,829			
Machinery	96,929	96,947	96,914	0.0	0.0	0.3	97,097	97,856	98,221	97,988			
Construction machinery Mining, oil field, and	5,059	5,074	5,004	-0.3	1.4	-1.7	4,909	5,181	5,288	6,529	-24.8		
gas field machinery	3,677	3,787	3,907	-2.9	-3.1	0.4	3,677	3,787	3,907	4,237	-13.2		
Industrial machinery	8,609	8,716	8,704	-1.2	0.1	-0.3	8,584	8,849	8,979	9,024			
Photographic equipmentVentilation, heating, air-conditioning,	1,022	1,052	1,039	-2.9	1.3	2.8	954	1,030	1,040	1,085			
and refrigeration equipment	7,038	6,893	6,898	2.1	-0.1	-0.1	7,208	7,120	7,158	6,973			
Metalworking machinery	8,210	8,040	8,031	2.1	0.1	0.9	8,269	8,201	8,191	8,271	0.0		
Turbines, generators, and other													
power transmission equipment	23,443	23,596	23,594	-0.6	0.0	0.3	23,443	23,596	23,594	23,861	-1.8		
Material handling equipment	11,051	11,043	11,124	0.1	-0.7	0.1	11,253	10,996	11,118	10,999			
Computers and electronic products ²	118,834	118,601	118,530	0.2	0.1	0.0	119,081	119,197	119,596	118,016	0.9		
Computers Nondefense communications	1,864	1,905	1,937	-2.2	-1.7	-1.7	1,864	1,905	1,937	1,948	-4.3		
equipment	24,882	24,840	24,822	0.2	0.1	0.0	24,806	24,956	25,086	24,677	0.5		
Defense communications equipment	711	769	815	-7.5	-5.6	-6.0	707	774	828	1,051	-32.7		
Electronic components Nondefense search and navigation	14,754	14,766	14,819	-0.1	-0.4	0.3	14,528	14,853	14,990	13,974	4.0		
equipment Defense search and navigation	21,943	21,808	21,674	0.6	0.6	0.2	21,945	21,791	21,689	21,215	3.4		
equipment Electromedical, measuring,	30,882	30,725	30,668	0.5	0.2	0.0	31,231	30,859	31,070	31,355	-0.4		
and control instruments Electrical equipment, appliances,	23,798	23,788	23,795	0.0	0.0	0.1	24,000	24,059	23,996	23,796	0.9		
and components	21,628	21,614	21,589	0.1	0.1	0.5	21,902	22,101	21,978	20,866	5.0		
Electric lighting equipment	1,669	1,663	1,681	0.4	-1.1	-0.8	1,703	1,646	1,683	1,501	13.5		
Household appliances	1,897	1,718	1,642	10.4	4.6	0.9	1,923	1,786	1,652	1,380	39.3		
Electrical equipment	8,573	8,599	8,608	-0.3	-0.1	-0.3	8,631	8,741	8,781	8,682	-0.6		
Transportation equipment Motor vehicle bodies, parts,	743,491	759,058	759,629	-2.1	-0.1	-2.0	743,573	757,854	764,136	797,537	-6.8		
and trailers	21,152	20,385	20,370	3.8	0.1	-1.2	20,748	20,704	20,834	20,868	-0.6		
Nondefense aircraft and parts	503,060	517,604	518,269	-2.8	-0.1	-2.4	501,203	516,199	520,472	570,814	-12.2		
Defense aircraft and parts	83,704	85,062	85,310	-1.6	-0.3	-0.3	83,831	84,570	86,006	80,042	4.7		
Ships and boats	48,230	48,642	48,723	-0.8	-0.2	-0.2	50,459	49,253	50,254	43,992	14.7		
Furniture and related products	7,888	7,964	7,949	-1.0	0.2	-0.7	8,331	8,444	8,221	8,114	2.7		

^p Preliminary

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

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

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

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

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

Table 4. Value of Manufacturers' Inventories for Industry Groups¹

		Monthly	Seasonally Ad	-	ercent Chang	0			Seasonally Adjus	sted	% Change
Industry	<u> </u>	ivionthly		I	ercent Chang	е		IVIOI	ithiy		% Change June
	June 2020 ^p	May 2020 ^r	Apr. 2020	May - June	Apr May	Mar Apr.	June 2020 ^p	May 2020 ^r	Apr. 2020	June 2019	2020/ 2019
All manufacturing industries	690,900	686,935	685,869	0.6	0.2	-0.5	687,406	689,972	688,560	690,324	-0.4
Excluding transportation	544,449	542,621	543,132	0.3	-0.1	-0.6		545,374		560,679	-3.3
Excluding defense With unfilled orders	665,366	661,724	660,549	0.6	0.2	-0.5 0.1	· · · · · · · · · · · · · · · · · · ·	664,629		665,479	-0.6 3.2
with unined orders	347,045	346,896	346,626	0.0	0.1		'	349,056	348,231	335,275	
Durable goods industries	424,973	424,813	424,744	0.0	0.0	0.0	423,014	426,987	426,439	412,969	2.4
Wood products	11,617	11,573	11,824	0.4	-2.1	-0.3	'	11,389	· ·	11,892	-4.5
Nonmetallic mineral products	14,287 34,016	14,404 34,697	14,606 35,430	-0.8 -2.0	-1.4 -2.1	0.8 -1.3	·	14,688	14,833 35,488	14,569	-1.2 -7.0
Primary metals Iron and steel mills	19,046	19,441	19,824	-2.0 -2.0	-2.1 -1.9	-1.5 -0.6		34,826 19,401	19,700	36,405 21,081	-7.0 -10.2
Aluminum and nonferrous metals	12,832	13,098	13,408	-2.0	-2.3	-2.4	· · ·	13,237	13,551	13,088	-2.1
Ferrous metal foundries	2,138	2,158	2,198	-0.9	-1.8	-0.8		2,188	· ·	2,236	-5.4 2.2
Fabricated metal products Machinery	52,674 70,613	53,400 70,981	53,382 71,200	-1.4 -0.5	0.0 -0.3	0.2 -0.4	'	53,692 71,370	53,601 71,481	53,996 71,770	-2.3 -2.1
Farm machinery	3,733	3,832	3,906	-2.6	-1.9	2.6		3,768		3,885	-5.6
Construction machinery	6,158	6,176	6,094	-0.3	1.3	0.2	6,150	6,146	6,150	6,328	-2.8
Mining, oil field, and gas field machinery	4,682	4,853	4,938	-3.5	-1.7	-1.3	4,631	4,873	4,953	5,536	-16.3
Industrial machinery	9,915	9,795	9,636	1.2	1.7	0.2		9,736	-	9,139	9.6
Photographic equipment	1,438	1,446	1,475	-0.6	-2.0	-0.8	1,407	1,443	1,462	1,433	-1.8
Ventilation, heating, air-conditioning, and refrigeration equipment	5,350	5,483	5,588	-2.4	-1.9	-3.4	5,413	5,850	5,960	5,851	-7.5
Metalworking machinery	5,987	6,037	6,068	-0.8	-0.5	-0.5		6,043		6,071	-3.1
Turbines, generators, and other											
power transmission equipment Material handling equipment	9,577 4,767	9,525 4,858	9,574 4,964	0.5 -1.9	-0.5 -2.1	-1.0 -1.4	'	9,671 4,877	9,703 4,976	9,645 5,322	-1.3 -9.8
Computers and electronic products ²	44,177	44,203	44,212	-0.1	0.0	0.5	· · ·	44,799		43,757	0.7
Computers	1,859	1,911	1,846	-2.7	3.5	4.9		1,964	1,735	1,863	2.6
Computer storage devices	955	954	960	0.1	-0.6	1.1		923	885	907	2.1
Other peripheral equipment Nondefense communications	1,076	1,071	1,076	0.5	-0.5	0.6	1,064	1,106	1,098	1,017	4.6
equipment	4,536	4 <i>,</i> 550	4,582	-0.3	-0.7	0.4	4,554	4,691	4,596	4,503	1.1
Defense communications equipment	660	662	667	-0.3	-0.7	1.2		662	667	675	-2.2
Audio and video equipment Electronic components	603 7,918	702 7,953	685 8,041	-14.1 -0.4	2.5 -1.1	9.8 -0.6		671 7,967	660 8,363	632 7,901	-7.0 -0.8
Nondefense search and navigation	7,510	7,555	0,041	0.4	1.1	0.0	7,037	7,307	0,303	7,501	0.0
equipment	2,946	2,950	2,932	-0.1	0.6	1.1	2,917	2,951	2,938	2,768	5.4
Defense search and navigation equipment	2,664	2,660	2,666	0.2	-0.2	-0.7	2,669	2,750	2,714	2,711	-1.5
Electromedical, measuring	2,004	2,000	2,000	0.2	-0.2	-0.7	2,009	2,730	2,714	2,711	-1.5
and control instruments	15,473	15,272	15,218	1.3	0.4	0.4	15,444	15,548	15,317	14,967	3.2
Electrical equipment, appliances, and components	19,760	19,813	19,906	-0.3	-0.5	1.0	19,900	20,100	20,164	19,943	-0.2
Electric lighting equipment	2,028	2,029	2,030	0.0	0.0	-1.1		2,041	2,042	2,069	-1.9
Household appliances	2,380	2,359	2,498	0.9	-5.6	-1.7	· · ·	2,415		2,761	-13.8
Electrical equipment Batteries	6,435 1,856	6,502 1,855	6,443 1,865	-1.0 0.1	0.9 -0.5	2.1 -0.1	'	6,620 1,924	6,559 1,914	6,298 2,022	2.2 -3.1
Transportation equipment	146,451	144,314	142,737	1.5	1.1	0.1	'	144,598		129,645	11.9
Automobiles	5,830	5,888	5,688	-1.0	3.5	0.3	· · ·	5,769	·	5,502	2.1
Light trucks and utility vehicles Heavy duty trucks	5,198 1,910	4,699 1,939	4,534 1,967	10.6 -1.5	3.6 -1.4	-11.9 3.2		4,609 2,006	4,484 1,996	4,936 1,926	-1.9 -0.2
Motor vehicle bodies, parts,	1,510	1,333	1,307	1.5	'	3.2	1,323	2,000	2,330	1,323	0.2
and trailers	27,192	27,621	27,748	-1.6	-0.5	2.7	· ·	27,620	· ·	26,234	2.2
Nondefense aircraft and parts Defense aircraft and parts	76,913 12,479	75,136 12,317	73,668 12,284	2.4 1.3	2.0 0.3	-0.4 0.7	,	75,612 12,411	74,210 12,327	63,570 11,913	20.6 4.3
Ships and boats	4,237	4,181	4,262	1.3	-1.9	0.7	· · ·	4,122	4,158	4,131	5.3
Furniture and related products	7,268	7,267	7,337	0.0	-1.0	-1.1	· · ·	7,312	7,276	7,621	-2.7
Miscellaneous durable goods	24,110	24,161	24,110	-0.2	0.2	0.8	23,892	24,213	24,142	23,371	2.2
Nondurable goods industries	265,927	262,122	261,125	1.5	0.4	-1.2	264,392	262,985	262,121	277,355	-4.7
Food products	54,441	54,421	55,144	0.0	-1.3	-0.2	53,229	52,960	54,109	54,165	-1.7
Grain and oilseed milling	5,182	5,228	5,285	-0.9	-1.1	-1.1	· · ·	4,976		5,160	-2.2
Dairy products Meat, poultry, and seafood products	8,332 9,285	8,260 9,336	8,381 9,776	0.9 -0.5	-1.4 -4.5	-1.3 -0.2		8,457 9,217	8,586 9,624	8,589 9,709	-0.2 -5.8
Beverage and tobacco products	25,724	25,667	25,674	0.2	0.0	1.3	, , , , , , , , , , , , , , , , , , ,	25,669	25,950	25,319	-0.4
Beverages	21,824	21,771	21,775	0.2	0.0	1.8		21,851	22,043	21,358	0.6
Tobacco Textile mills	3,900 3,111	3,896 3,169	3,899 3,170	0.1 -1.8	-0.1 0.0	-1.3 -0.6	· · ·	3,818 3,180	3,907 3,176	3,961 3,227	-6.0 -3.4
Textile products	3,777	3,789	3,805	-0.3	-0.4	-1.2	· · ·	3,779	3,806	4,005	-6.4
Apparel	1,845	1,839	1,858	0.3	-1.0	2.9	· · ·	1,829	*	1,897	-2.2
Leather and allied products Paper products	854 15,324	857 15,259	860 15,122	-0.4 0.4	-0.3 0.9	-0.1 1.3		865 15,249	854 15,075	862 15,388	-0.8 -0.7
Pulp, paper, and paperboard mills	5,696	5,672	5,630	0.4	0.9	0.8		5,695	5,658	5,801	-0.7
Paperboard containers	5,495	5,470	5,437	0.5	0.6	2.2	· ·	5,455	5,371	5,444	0.5
Printing Petroleum and coal products	5,683 32,146	5,680 28,955	5,703 27,035	0.1 11.0	-0.4 7.1	0.1 -12.2	· · ·	5,633 29,764	5,781 27,829	5,593 40,572	0.3 -20.7
Petroleum refineries	26,567	23,236	21,112	14.3	10.1	-15.2	'	23,704	· ·	34,677	-23.5
Chemical products	96,610	95,912	96,079	0.7	-0.2	0.3	'	97,222	96,759	98,532	-1.6
Pesticides, fertilizers, and other	E E30	E 400	5,387	0.0	1.0	^ 7	E 220	г игэ	E E 4 E	ב אור	0.0
agricultural chemicals Pharmaceuticals and medicines	5,539 45,578	5,490 45,084	5,387 44,896	0.9 1.1	1.9 0.4	-0.7 1.3	· ·	5,453 45,818	· ·	5,235 45,745	0.0 1.7
Paints, coatings, and adhesives	3,845	3,882	4,036	-1.0	-3.8	0.4	3,895	3,962	4,164	4,112	-5.3
Plastics and rubber products	26,412	26,574	26,675	-0.6	-0.4	-0.5	26,374	26,835	26,974	27,795	-5.1

^p Preliminary

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

¹Estimates 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 are not adjusted for price changes. ² Estimates of inventories for the semiconductor industry data are included in computers and electronic products, and all other applicable aggregate totals.

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

LESTIMATES are snown in millions of dollar			asonally Adju						<i></i>	Seasonally A	Adjusted		
		Monthly		Per	cent Cha	nge		Mon	thly		Year t	o date	
Industry	June 2020 ^p	May 2020 ^r	Apr. 2020	May - June	Apr May	Mar Apr.	June 2020 ^p	May 2020 ^r	Apr. 2020	June 2019	2020 ^p	2019	% Change ⁶ 2020/ 2019
<u>SHIPMENTS</u>													
All manufacturing industries	457,303	416,573	404,544	9.8	3.0	-14.0	483,608	418,914	404,341	520,507	2,739,524	3,005,095	-8.8
Construction materials and supplies Information technology Computers and related products Motor vehicle and parts	49,967 23,813 1,700 52,093	47,637 23,863 1,839 28,370	46,380 23,801 1,768 22,310	-0.2 -7.6	0.3 4.0	-10.2 -1.5 0.3 -53.5	55,252 26,691 2,164 55,621	49,687 22,681 1,645 28,486	47,912 21,947 1,450 23,260	55,980 26,447 2,070 62,649	140,562 10,206	306,670 140,360 9,540 368,318	0.1 7.0
Capital goods Nondefense capital goods ³ Excluding aircraft Defense capital goods ⁴	78,296 65,995 64,093 12,301	75,600 63,227 62,026 12,373	75,518 63,081 61,110 12,437	4.4	0.2 1.5	-11.1 -13.5 -6.4 3.7	85,896 73,135 70,613 12,761	73,867 61,672 60,438 12,195	72,118 60,318 58,755 11,800	94,348 81,117 71,316 13,231	404,842 382,925	515,934 443,760 395,058 72,174	-8.8 -3.1
Consumer goods Consumer durable goods Consumer nondurable goods	189,283 36,923 152,360	161,587 18,178 143,409	154,240 14,381 139,859	103.1	4.8 26.4 2.5	-17.7 -55.8 -9.7	194,519 38,803 155,716	163,079 17,987 145,092	153,668 14,728 138,940	214,111 44,830 169,281	185,078	1,261,995 259,892 1,002,103	-28.8
NEW ORDERS	427.242	411 605	202.204	<i>C</i> 2	77	42.5	462.246	400 225	204.000	F00 000	2.664.060	2 062 520	10.1
All manufacturing industries ⁵	437,213 50,141 23,883 1,659 52,860	411,695 47,520 23,976 1,807 28,385	382,304 45,306 23,965 1,734 22,057	5.5 -0.4 -8.2	4.9 0.0 4.2	-13.5 -10.9 -0.4 0.0 -53.9	463,346 55,533 26,541 2,123 55,665	408,235 49,740 22,475 1,613 28,356	381,868 47,181 22,289 1,416 22,574	508,008 56,058 26,825 2,039 61,833	299,530 142,504 10,062	2,963,530 309,663 143,087 9,497 367,283	-3.3 -0.4 5.9
Capital goods Nondefense capital goods ³ Excluding aircraft Defense capital goods ⁴	62,954 52,155 64,338 10,799	75,292 62,334 62,226 12,958	60,509 49,398 61,299 11,111	-16.3 3.4	26.2 1.5	-2.4 7.0 -6.6 -30.0	71,317 58,048 69,732 13,269	68,213 57,225 60,473 10,988	57,253 47,465 59,690 9,788	86,708 75,165 70,211 11,543	349,746 388,576	501,575 429,078 397,889 72,497	-18.5 -2.3
Consumer goods Consumer durable goods Consumer nondurable goods	189,474 37,114 152,360	161,774 18,365 143,409	154,232 14,373 139,859	102.1	4.9 27.8 2.5		194,602 38,886 155,716	163,260 18,168 145,092	153,658 14,718 138,940	214,081 44,800 169,281	185,548	1,262,143 260,040 1,002,103	-28.6
UNFILLED ORDERS													
All manufacturing industries ⁵	1,092,528	1,107,813	1,107,812	-1.4	0.0	-1.5	1,094,903	1,110,448	1,116,924	1,150,272	(X)	(X)	-4.8
Construction materials and supplies Information technology Computers and related products Motor vehicle and parts	50,495 114,591 1,864 21,152	50,321 114,521 1,905 20,385	50,438 114,408 1,937 20,370	0.1 -2.2	0.1 -1.7	-2.1 0.1 -1.7 -1.2	51,555 115,152 1,864 20,748	51,274 115,302 1,905 20,704	51,221 115,508 1,937 20,834	54,688 114,430 1,948 20,868	(X) (X)	(X) (X) (X) (X)	0.6 -4.3
Capital goods Nondefense capital goods ³ Excluding aircraft Defense capital goods ⁴	788,210 610,040 216,821 178,170	803,552 623,880 216,576 179,672	803,860 624,773 216,376 179,087	-2.2 0.1	-0.1 0.1	-1.8 -2.1 0.1 -0.7	790,351 609,568 217,785 180,783	804,930 624,655 218,666 180,275	810,584 629,102 218,631 181,482	851,659 685,616 216,246 166,043	(X)	(X) (X) (X) (X)	-11.1 0.7
Consumer goods Consumer durable goods	5,204 5,204	5,013 5,013	4,826 4,826	3.8	3.9		5,160 5,160	5,077 5,077	4,896 4,896	4,367 4,367	(X)	(X) (X)	18.2
TOTAL INVENTORIES													
All manufacturing industries	690,900	686,935	685,869	0.6	0.2	-0.5	687,406	689,972	688,560	690,324	(X)	(X)	-0.4
Construction materials and supplies Information technology Computers and related products Motor vehicle and parts	70,350 39,421 3,890 40,130	71,273 39,407 3,936 40,147	71,989 39,339 3,882 39,937	0.0 -1.2	0.2 1.4	-0.1 0.9 2.7 0.5	70,326 39,378 3,901 39,201	72,053 39,968 3,993 40,004	72,878 39,337 3,718 39,880	72,628 38,422 3,787 38,598	(X) (X)	(X) (X) (X) (X)	2.5 3.0
Capital goods Nondefense capital goods ³ Excluding aircraft Defense capital goods ⁴	214,238 192,970 128,717 21,268	212,594 191,551 128,971 21,043	211,312 190,199 128,972 21,113	0.7 -0.2	0.7 0.0	0.1	214,045 192,615 128,504 21,430	214,067 192,986 130,007 21,081	211,917 190,837 129,115 21,080	200,807 179,986 127,694 20,821	(X)	(X) (X) (X) (X)	7.0 0.6
Consumer goods Consumer durable goods Consumer nondurable goods	202,972 31,518 171,454	198,808 31,144 167,664	197,175 30,969 166,206	1.2	0.6	-2.3	201,180 30,632 170,548	198,373 30,802 167,571	196,970 30,752 166,218	211,203 31,468 179,735	(X)	(X) (X) (X)	-2.7

X Not Applicable

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, June Full Report, August 4, 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>.

^p Preliminary

Revised data due to late receipts and concurrent seasonal adjustment.

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

²Topical series are regroupings of the separate industry categories.

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, 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

		Monthly	Seasonally Ad	-	ercent Chang	re			Seasonally Adjus	sted	% Change
Industry	June 2020 ^p	May 2020 ^r	Apr. 2020	May - June	Apr May	Mar Apr.	June 2020 ^p	May 2020 ^r	Apr. 2020	June 2019	June 2020/ 2019
MATERIALS AND SUPPLIES											
All manufacturing industries	238,419	238,549	238,756	-0.1	-0.1	0.9	237,515	238,806	238,848	237,468	0.0
Durable goods industries	147,355	149,157	149,309	-1.2	-0.1	2.4	•	149,019	*	143,855	2.0
Wood products Nonmetallic mineral products	5,352 5,811	5,388 5,853	5,468 5,911	-0.7 -0.7	-1.5 -1.0		*	5,134 5,888		5,171 5,713	-0.3 2.2
Primary metals Fabricated metal products	12,686 19,574	13,037 19,819	13,105 19,715	-2.7 -1.2	-0.5 0.5		,	12,834 19,716	· ·	13,468 20,375	-6.0 -3.9
Machinery	28,041	28,255	28,531	-0.8	-1.0	3.0	27,902	28,398	28,469	28,329	-1.5
Computers and electronic products Electrical equipment, appliances,	19,863	19,957	19,861	-0.5	0.5	0.4	19,940	20,253	19,998	19,195	3.9
and components Transportation equipment	8,838 35,659	8,884 36,439	8,808 36,418		0.9 0.1	2.2 5.6		9,005 36,257	8,874 36,503	8,496 31,737	4.5 10.8
Furniture and related products	3,555	3,578	3,538	-0.6	1.1	0.4	3,596	3,573	-	3,703	-2.9
Miscellaneous products	7,976	7,947	7,954	0.4	-0.1	1.0		7,961	7,913	7,668	3.6
Nondurable goods industries Food products	91,064 19,583	89,392 19,561	89,447 19,513	1.9 0.1	-0.1 0.2	-1.5 -1.1	•	89,787 19,172	89,972 19,259	93,613 19,595	-3.0 -1.1
Beverage and tobacco products Textiles	5,821 1,166	5,813 1,182	5,764 1,187	0.1 -1.4	0.9 -0.4		5,596	5,772 1,191	5,829	5,701 1,188	-1.8 -1.0
Textile products	1,196	1,202	1,213	-0.5	-0.9	0.6	1,197	1,207	1,196 1,213	1,250	-4.2
Apparel Leather and allied products	547 284	547 284	544 283	0.0 0.0	0.6 0.4			547 288		572 288	-4.4 0.0
Paper products	7,731	7,731	7,639	0.0	1.2	2.0	7,651	7,659	7,603	7,660	-0.1 -0.7
Printing Petroleum and coal products	2,713 10,004	2,706 8,566	2,705 8,643	16.8	0.0 -0.9	-11.5	10,349	2,698 9,143	9,131	2,714 12,311	-15.9
Chemical products Plastics and rubber products	31,062 10,957	30,795 11,005	30,980 10,976	0.9 -0.4	-0.6 0.3		, in the second of the second	31,124 10,986	31,178 11,024	31,477 10,857	-1.3 0.4
WORK IN PROCESS	_5,551	,	_5,5 / 6		0.0			_0,000	,		• • •
All manufacturing industries	206,473	203,584	201,922	1.4	0.8	-0.9	205,589	204,637	203,221	199,456	3.1
Durable goods industries	159,523	157,682	157,206	1.2	0.3	-0.7	159,399	159,216	158,490	148,300	7.5
Wood products	1,665	1,631	1,642	2.1	-0.7	-3.1	1,667	1,637	1,665	1,811	-8.0
Nonmetallic mineral products Primary metals	1,387 9,269	1,397 9,420	1,402 9,841	-0.7 -1.6	-0.4 -4.3		· ·	1,428 9,540	*	1,483 10,657	-5.3 -12.7
Fabricated metal products Machinery	13,353 19,767	13,569 19,624	13,654 19,415	-1.6 0.7	-0.6 1.1	0.0 -4.5	· ·	13,637 19,773	13,713 19,461	13,642 19,493	-2.0 1.1
Computers and electronic products	12,776	12,779	12,835		-0.4			13,145	*	12,843	-0.3
Electrical equipment, appliances, and components	4,230	4,241	4,254	-0.3	-0.3	1.4	4,305	4,358	4,325	4,225	1.9
Transportation equipment Furniture and related products	92,188 1,118	90,213 1,101	89,283 1,137	2.2 1.5	1.0 -3.2		· · · · · · · · · · · · · · · · · · ·	90,850 1,126		79,323 1,131	15.9 0.4
Miscellaneous products	3,770	3,707	3,743	1.7	-1.0			3,722	3,777	3,692	1.6
Nondurable goods industries	46,950	45,902	44,716		2.7		,	45,421	44,731	51,156	-9.7
Food products Beverage and tobacco products	4,894 9,112	4,847 9,094	4,587 9,078	1.0 0.2	5.7 0.2		· ·	4,507 8,949	4,387 9,050	4,172 8,950	8.3 -2.7
Textiles Textile products	592 338	599 332	596 334	-1.2 1.8	0.5 -0.6			602 328	600 336	648 371	-8.5 -11.3
Apparel	302	296	312	2.0	-5.1	-0.6	308	299	305	325	-5.2
Leather and allied products Paper products	88 1,413	85 1,396	86 1,395	3.5 1.2	-1.2 0.1	-1.1 -0.1		84 1,400	85 1,394	94 1,481	-9.6 -3.5
Printing Petroleum and coal products	1,198 7,261	1,199 6,610		-0.1 9.8	-2.0 19.4		,	1,133 6,636		1,134 10,626	-0.6 -32.4
Chemical products	18,849	18,557	18,742	1.6	-1.0	2.0	19,023	18,585	18,754	20,263	-6.1
Plastics and rubber products	2,903	2,887	2,826	0.6	2.2	-1.1	2,885	2,898	2,861	3,092	-6.7
FINISHED GOODS	246 000	244 902	245 101	0.5	0.2	1.4	244 202	246 520	246 401	252 400	-3.6
All manufacturing industries	246,008	244,802	245,191	0.5	-0.2		·	246,529	·	253,400	
Durable goods industries Wood products	118,095 4,600	117,974 4,554	118,229 4,714	0.1 1.0	-0.2 -3.4		•	118,752 4,618	*	120,814 4,910	-3.2 -7.6
Nonmetallic mineral products Primary metals	7,089 12,061	7,154 12,240	7,293 12,484	-0.9 -1.5	-1.9 -2.0		*	7,372 12,452	•	7,373 12,280	-3.1 -3.1
Fabricated metal products	19,747	20,012	20,013	-1.3	0.0	0.2	19,817	20,339	20,312	19,979	-0.8
Machinery Computers and electronic products	22,805 11,538	23,102 11,467	23,254 11,516	-1.3 0.6	-0.7 -0.4	-0.8 1.7	,	23,199 11,401	23,551 11,322	23,948 11,719	-5.4 -3.5
Electrical equipment, appliances, and components	6,692	6,688	6,844	0.1	-2.3	-0.9	6,714	6,737	6,965	7,222	-7.0
Transportation equipment	18,604	17,662	17,036	5.3	3.7	-10.7	17,985	17,491	16,788	18,585	-3.2
Furniture and related products Miscellaneous products	2,595 12,364	2,588 12,507	2,662 12,413	0.3 -1.1	-2.8 0.8		· ·	2,613 12,530	2,630 12,452	2,787 12,011	-3.8 1.5
Nondurable goods industries	127,913	126,828	126,962	0.9	-0.1	-1.0		127,777	127,418	132,586	-3.9
Food products	29,964 10,791	30,013 10,760	31,044 10,832	-0.2	-3.3 -0.7	0.2	29,327	29,281	30,463	30,398 10,668	-3.5 2.2
Beverage and tobacco products Textiles	1,353	1,388	1,387	0.3 -2.5	0.1	-0.1	1,348	10,948 1,387	1,380	1,391	-3.1
Textile products Apparel	2,243 996	2,255 996	2,258 1,002	-0.5 0.0	-0.1 -0.6	-1.7 4.0	,	2,244 983	2,257 964	2,384 1,000	-6.8 0.1
Leather and allied products	482	488	491	-1.2	-0.6	-0.4	482	493	490	480	0.4
Paper products Printing	6,180 1,772	6,132 1,775	6,088 1,774	0.8 -0.2	0.7 0.1	0.8 0.5	1,787	6,190 1,802	1,796	6,247 1,745	-0.8 2.4
Petroleum and coal products Chemical products	14,881 46,699	13,779 46,560			7.2 0.4			13,985 47,513		17,635 46,792	-17.0 0.2
Plastics and rubber products	12,552	12,682	-		-1.5			12,951	-	13,846	-9.1

^p Preliminary

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

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

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

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

	Inve	entory/Ship	oments rati	io	Unfille	ed Orders/	Shipments	ratio ²
Industry	Jun 2020 ^p	May 2020 ^r	Apr 2020	Mar 2020	Jun 2020 ^p	May 2020 ^r	Apr 2020	Mar 2020
All manufacturing industries ³	1.51	1.65	1.70	1.46	(X)	(X)	(X)	(X)
Durable goods industries ³	1.87	2.15	2.24	1.82	7.01	7.56	7.70	6.70
Wood products	1.30	1.33	1.43	1.30	(X)	(X)	(X)	(X)
Nonmetallic mineral products	1.23	1.28	1.33	1.27	(X)	(X)	(X)	(X)
Primary metals	1.91	2.07	2.13	1.89	1.72	1.82		1.64
Fabricated metal products	1.81	1.93	1.95	1.73	2.56	2.70	2.72	2.45
Machinery	2.38	2.47	2.52	2.32	3.60	3.69	3.74	3.42
Computers and electronic products ³	1.55	1.54	1.55	1.55	5.47	5.44	5.44	5.43
Electrical equipment, appliances,								
and components	1.92	1.96	1.99	1.77	2.27	2.31	2.30	2.07
Transportation equipment	2.06	3.10	3.45	1.94	16.52	19.31	20.27	14.92
Furniture and related products	1.11	1.20	1.25	1.13	1.37	1.47	1.49	1.36
Miscellaneous products	1.74	1.88	1.95	1.87	(X)	(X)	(X)	(X)
Nondurable goods industries	1.16	1.20	1.22	1.12	(X)	(X)	(X)	(X)
Food products	0.81	0.81	0.83	0.80	(X)	(X)	(X)	(X)
Beverage and tobacco products	1.96	2.00	2.07	1.86	(X)	(X)	(X)	(X)
Textiles	1.52	1.66	1.71	1.43	(X)	(X)	(X)	(X)
Textile products	2.09	2.23	2.30	2.06	(X)	(X)	(X)	(X)
Apparel	2.17	2.16	2.24	2.04	(X)	(X)	(X)	(X)
Leather and allied products	2.21	2.51	2.84	2.41	(X)	(X)	(X)	(X)
Paper products	0.96	0.95	0.94	0.92	(X)	(X)	(X)	(X)
Printing	0.85	0.90	0.89	0.80	(X)	(X)	(X)	(X)
Petroleum and coal products	0.90	1.03	1.07	0.83	(X)	(X)	(X)	(X)
Chemical products	1.45	1.47	1.48	1.41	(X)	(X)	(X)	(X)
Plastics and rubber products	1.37	1.42	1.46	1.33	(X)	(X)	(X)	(X)

^X Not Applicable

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

³ Unfilled orders to shipments ratio excludes semiconductor manufacturing.

Note: Estimates of manufacturers' shipments, inventories and orders are subject to survey error and revision. One major component of survey error is nonsampling error, which includes errors of coverage, response, and nonreporting. Since the survey panel is not a probability sample, estimates of sampling error cannot be calculated. For further details on survey design, methodology, and data limitations see http://www.census.gov/manufacturing/m3/. Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, June Full Report, August 4, 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 8. Revisions to Previously Published Monthly Percent Changes ¹

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

	Shipr	ments	New C	Orders	Unfilled	Orders	Inven	ntories	
Industry	Jun² 2020	Jun ³ 2019- May	Jun²	Jun ³ 2019- May	Jun² 2020	Jun ³ 2019- May	Jun²	Jun ³ 2019- May	
	2020	2020	2020	2020	2020	2020	2020	2020	
All manufacturing industries	(X)	0.2	(X)	0.2	(X)	0.1	(X)	0.1	
Durable goods industries	0.2	0.3	0.3	0.6	0.0	0.1	-0.1	0.3	
Wood products	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.:	
Nonmetallic mineral products	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.	
Primary metals	1.2	0.5	1.1	0.6	-0.1	0.1	-0.2	0.	
Fabricated metal products	0.4	0.7	0.5	0.8	0.0	0.2	-0.2	0.	
Machinery	0.1	0.4	0.3	0.5	0.1	0.1	0.1	0.	
Computers and electronic products Electrical equipment, appliances,	0.0	0.3	-0.1	0.5	0.0	0.1	-0.2	0.	
and components	0.1	0.3	0.7	0.4	0.3	0.2	-0.1	0.	
Transportation equipment	0.2	0.3	0.2	1.2	0.0	0.1	0.0	0.	
Furniture and related products	(X)	0.6	(X)	0.8	(X)	0.5	(X)	0.	
Miscellaneous products	(X)	0.3	(X)	0.3	(X)	0.1	(X)	0.0	
Nondurable goods industries	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.	
Food products	(X)	0.1	(X)	(NA)	(X)	(NA)	(X)	0.	
Beverage and tobacco products	(X)	0.6	(X)	(NA)	(X)	(NA)	(X)	0.	
Textiles	(X)	0.7	(X)	(NA)	(X)	(NA)	(X)	0.	
Textile products	(X)	0.6	(X)	(NA)	(X)	(NA)	(X)	0.	
Apparel	(X)	0.8	(X)	(NA)	(X)	(NA)	(X)	0.	
Leather and allied products	(X)	1.2	(X)	(NA)	(X)	(NA)	(X)	0.	
Paper products	(X)	0.4	(X)	(NA)	(X)	(NA)	(X)	0.	
Printing	(X)	0.6	(X)	(NA)	(X)	(NA)	(X)	0.	
Petroleum and coal products	(X)	0.5	(X)	(NA)	(X)	(NA)	(X)	0.	
Chemical products	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.	
Plastics and rubber products	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.	

X Not Applicable NA Not Available

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

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

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

^p Preliminary

Revised data due to late receipts and concurrent seasonal adjustment.

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

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