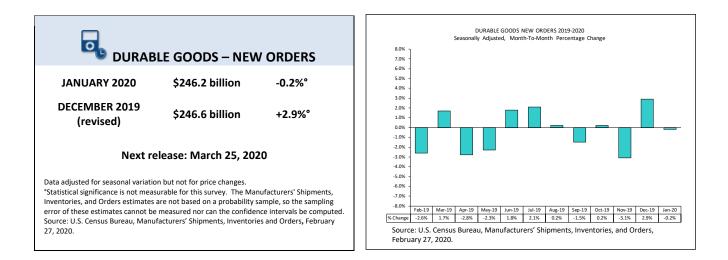
# MONTHLY ADVANCE REPORT ON DURABLE GOODS MANUFACTURERS' SHIPMENTS, INVENTORIES AND ORDERS JANUARY 2020

Release Number: CB 20-31 M3-1 (20)-01

**February 27, 2020** — The U.S. Census Bureau announces the January advance report on durable goods manufacturers' shipments, inventories and orders:



#### **New Orders**

New orders for manufactured durable goods in January decreased \$0.4 billion or 0.2 percent to \$246.2 billion, the U.S. Census Bureau announced today. This decrease, down two of the last three months, followed a 2.9 percent December increase. Excluding transportation, new orders increased 0.9 percent. Excluding defense, new orders increased 3.6 percent. Transportation equipment, down four of the last five months, drove the decrease, \$1.8 billion or 2.2 percent to \$82.0 billion.

#### Shipments

Shipments of manufactured durable goods in January, down seven consecutive months, decreased \$0.5 billion or 0.2 percent to \$250.1 billion. This followed a 0.1 percent December decrease. Transportation equipment, also down seven consecutive months, drove the decrease, \$1.3 billion or 1.6 percent to \$82.1 billion.

Data Inquiries Economic Indicators Division, Shipments, Inventories, and Orders Branch (M3) 301-763-4832 eid.m3.qs@census.gov Media Inquiries Public Information Office 301-763-3030 pio@census.gov



#### **Unfilled Orders**

Unfilled orders for manufactured durable goods in January, up three of the last four months, increased \$0.1 billion or virtually unchanged to \$1,157.0 billion. This followed a virtually unchanged December increase. Fabricated metal products, up two consecutive months, drove the increase, \$0.3 billion or 0.3 percent to \$86.2 billion.

#### Inventories

Inventories of manufactured durable goods in January, up eighteen of the last nineteen months, increased less than \$0.1 billion or virtually unchanged to \$435.4 billion. This followed a 0.4 percent December increase. Fabricated metal products, up following three consecutive monthly decreases, drove the increase, \$0.5 billion or 0.9 percent to \$54.1 billion.

#### **Capital Goods**

Nondefense new orders for capital goods in January increased \$8.0 billion or 12.4 percent to \$72.7 billion. Shipments decreased \$1.3 billion or 1.7 percent to \$73.5 billion. Unfilled orders decreased \$0.9 billion or 0.1 percent to \$670.9 billion. Inventories decreased \$0.4 billion or 0.2 percent to \$198.5 billion. Defense new orders for capital goods in January decreased \$7.5 billion or 39.8 percent to \$11.4 billion. Shipments increased \$0.6 billion or 4.8 percent to \$13.1 billion. Unfilled orders decreased \$1.7 billion or 1.0 percent to \$163.0 billion. Inventories increased \$0.2 billion or 0.9 percent to \$24.1 billion.

#### **Revised December Data**

Revised seasonally adjusted December figures for all manufacturing industries were: new orders, \$500.4 billion (revised from \$499.3 billion); shipments, \$504.4 billion (revised from \$504.1 billion); unfilled orders, \$1,156.9 billion (revised from \$1,156.2 billion) and total inventories, \$704.3 billion (revised from \$704.9 billion).

Revised and more detailed estimates, plus nondurable goods data, will be published on March 5, 2020, at 10:00 a.m. EST. The Advance Report on durable goods for February is scheduled for release on March 25, 2020 at 8:30 a.m. EST. View the full schedule in the Economic Briefing Room:

<<u>www.census.gov/economic-indicators/</u>> The full text and tables of this release can be found at <u>www.census.gov/m3</u>>.

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#### **EXPLANATORY NOTES**

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

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

#### Description of the survey

This report is compiled from results of the U.S. Census Bureau's Manufacturers' Shipments, Inventories, and Orders (M3) survey, which is a voluntary survey authorized by Title 13 of the United States Code. This survey provides statistics on a calendar-month basis for manufacturers' value of shipments, new orders (net of cancellations), end-of-month order backlog (unfilled orders), end-of-month total inventory (at current cost or market value), and inventories by stage of fabrication (materials and supplies, work-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 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

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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>.

#### **BENCHMARK NOTICE**

Revised historical data from the Manufacturers' Shipments, Inventories, and Orders (M3) Survey will be issued on May 15, 2020. These revisions result from

- benchmarking the M3 shipments and inventories data to the 2017 Economic Census data on a 2017 NAICS basis;
- incorporating the unfilled orders to shipments ratios obtained for 2017 and 2016 from the Manufacturers' Unfilled Orders (M3UFO) Survey by applying these ratios to the respective 2017 Economic Census data and 2016 ASM shipments data;
- adjusting the new orders data to be consistent with the benchmarked shipments and unfilled orders data;
- correcting monthly data for late receipts, reclassifications of reported data, and revisions to previously reported data;
- updating the seasonally adjusted data based on the results of benchmarking and the recent annual review of the seasonal adjustment models.

These revisions will span the seasonally adjusted data for January 2007 through March 2020 and the data not seasonally adjusted for January 2012 through March 2020. An updated Press Release will contain revised monthly tables for January 2020 through March 2020. Please call M3 staff on (301) 763-4832 with any questions.

#### 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/>

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#### **FRED Mobile App**



Receive the latest updates on the nation's key economic indicators by downloading the FRED App <<u>https://fred.stlouisfed.org/fred-mobile/</u>> 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. Durable Goods Manufacturers' Shipments and New Orders <sup>1</sup>

Item		Monthly	Seasonally	-			Not Seasonally A			Adjusted Year to Date		
	Monthly		Percent Change			Monthly			Percent			
	Jan 2020 <sup>2</sup>	Dec 2019 <sup>r</sup>	Nov 2019	Dec - Jan <sup>2</sup>	Nov - Dec <sup>r</sup>	Oct - Nov	Jan 2020 <sup>2</sup>	Dec 2019 <sup>r</sup>	Jan 2019	2020	2019	<b>Change</b> 2020/2019
DURABLE GOODS												
Total:												
Shipments	250,098		250,832	-0.2	-0.1	-0.2	228,151	246,112	233,379	228,151	233,379	-2.2
New Orders <sup>4</sup>	246,199	246,634	239,718	-0.2	2.9	-3.1	226,091	248,372	231,447	226,091	231,447	-2.3
Excluding transportation: Shipments	167,991	167,167	167,238	0.5	0.0	-0.2	154,005	164,782	153,871	154,005	153,871	0.1
New Orders <sup>4</sup>	164,170		162,612	0.9	0.0	-0.2	153,480	159,391	153,544	153,480	153,544	0.0
Excluding defense:												
Shipments	234,940	236,385	236,213	-0.6	0.1	-0.1	215,468	230,349	220,978	215,468	220,978	-2.5
New Orders <sup>4</sup>	232,301	224,133	228,461	3.6	-1.9	-0.6	215,717	221,979	221,068	215,717	221,068	-2.4
Manufacturing with unfilled orders:												
Shipments New Orders	174,618 174,732		173,649 166,755	0.2 0.2	0.3 4.6	-0.3 -4.5	159,030 161,595	174,054 180,058	161,727 164,590	159,030 161,595	161,727 164,590	
	174,732	174,358	100,755	0.2	4.0	-4.5	101,555	100,000	104,550	101,555	104,330	-1.0
Primary metals: Shipments	20,065	19,849	19,858	1.1	0.0	-0.9	19,796	17,817	20,974	19,796	20,974	-5.6
New Orders	20,169	19,736	19,786	2.2	-0.3	-1.7	20,113	18,135	21,257	20,113	21,257	-5.4
Fabricated metal products:												
Shipments New Orders	33,798 34,065	33,654 33,657	33,859 33,399	0.4 1.2	-0.6 0.8	0.1 -0.9	31,782 32,940	31,254 30,519	31,599 33,165	31,782 32,940	31,599 33,165	0.6 -0.7
	54,005	55,057	55,555	1.2	0.0	0.5	52,540	50,515	55,105	52,540	55,105	0.7
Machinery: Shipments	32,893	32,641	32,563	0.8	0.2	-1.4	29,620	33,207	29,874	29,620	29,874	-0.9
New Orders	32,684		32,520	2.1	-1.5	-1.2	31,093	31,988	31,586	31,093	31,586	-1.6
Computers and electronic products <sup>4</sup> :												
Shipments	28,052	27,875	27,887	0.6	0.0	0.3	24,910	31,585	24,653	24,910	24,653	1.0
New Orders	23,953	23,875	23,577	0.3	1.3	-0.1	20,808	28,291	20,240	20,808	20,240	2.8
Computers and related products:			6.000									
Shipments New Orders	1,914 1,911	1,769 1,770	1,893 1,930	8.2 8.0	-6.6 -8.3	8.0 8.2	1,566 1,563	2,358 2,359	1,407 1,447	1,566 1,563	1,407 1,447	11.3 8.0
Communications equipment:	_/	_,	_,				_,	_,	_,	_,	_,	
Shipments	3,956	4,000	3,816	-1.1	4.8	-0.2	3,160	5,338	3,006	3,160	3,006	5.1
New Orders	3,923	4,126	3,812	-4.9	8.2	2.9	3,215	5,421	2,913	3,215	2,913	10.4
Electrical equipment, appliances,												
and components: Shipments	11,701	11,874	11,776	-1.5	0.8	2.3	10,469	11,693	10,318	10,469	10,318	1.5
New Orders	11,701	11,934	11,912	-1.5	0.8	2.5	10,403	11,542	10,518	10,409	10,518	
Transportation equipment:												
Shipments New Orders	82,107	83,454	83,594	-1.6 -2.2	-0.2 8.8	-0.2 -8.2	74,146	81,330	79,508	74,146	79,508	-6.7 -6.8
	82,029	83,872	77,106	-2.2	0.0	-0.2	72,611	88,981	77,903	72,611	77,903	-0.8
Motor vehicles and parts: Shipments	58,758	59,193	59,286	-0.7	-0.2	0.8	54,789	53,346	56,896	54,789	56,896	-3.7
New Orders	58,946		59,472	-0.8	0.0	1.6	55,130		57,161	55,130	57,161	-3.6
Nondefense aircraft and parts:												
Shipments	7,805	9,849	9,379	-20.8	5.0	-6.4	6,173	12,603	10,265	6,173	10,265	-39.9
New Orders	8,518	1,909	5,736	346.2	-66.7	-28.4	6,210	9,045	10,677	6,210	10,677	-41.8
Defense aircraft and parts: Shipments	4,722	3,781	4,126	24.9	-8.4	-5.3	3,605	4,520	3,987	3,605	3,987	-9.6
New Orders	4,722		2,194	-19.6	166.8	-69.1	2,712	8,483	3,904	2,712	3,904	-30.5
All other durable goods:												
Shipments	41,482	41,274	41,295	0.5	-0.1	-0.2	37,428	39,226	36,453	37,428	36,453	2.7
New Orders	41,527	41,537	41,418	0.0	0.3	0.0	37,605	38,916	36,621	37,605	36,621	2.7
Capital goods <sup>3</sup> :												
Shipments	86,621	87,295	87,095	-0.8	0.2	-0.9	75,677	95,965 oc 202	78,685	75,677	78,685	-3.8
New Orders	84,027	83,548	78,985	0.6	5.8	-10.3	73,693	96,203	79,971	73,693	79,971	-7.9
Nondefense capital goods:	70 6 4 7	7/ 010	74 240	1 7	0.6	-0.9	EN 711	07 220	60 046	GA 741	60 040	-4.9
Shipments New Orders	73,547 72,653	74,818 64,649	74,340 68,898	-1.7 12.4	0.6 -6.2	-0.9 -4.9	64,741 64,827	82,339 74,312	68,046 69,988	64,741 64,827	68,046 69,988	-4.9 -7.4
Excluding aircraft:	-,	_ ,					. ,	,		- ,		
Shipments	69,680	68,898	68,996	1.1	-0.1	-0.4	62,375	73,825	62,095	62,375	62,095	0.5
New Orders	69,564		69,193	1.1	-0.5	0.0	64,543		63,635	64,543	63,635	1.4
Defense capital goods:												
Shipments	13,074		12,755	4.8	-2.2	-0.7	10,936		10,639	10,936	10,639	2.8
New Orders	11,374	18,899	10,087	-39.8	87.4	-35.3	8,866	21,891	9,983	8,866	9,983	-11.2

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

<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> Based on advance sample. 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.

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

## <sup>4</sup> Estimates and percent changes of shipments and inventories for the semiconductor industry are included in computers and electronic products, and all other applicable aggregate totals. Estimates and percent changes for new orders and unfilled orders exclude semiconductor industry data.

## Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, January Advance Report, February 27, 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. Durable Goods Manufacturers' Unfilled Orders and Total Inventories <sup>1</sup>

		Monthly	Seasonally	-	ercent Change	e	Not Seasonally Adjusted Monthly			Percent
Item	Jan 2020 <sup>2</sup>	Dec 2019 <sup>r</sup>	Nov 2019	Dec - Jan <sup>2</sup>	Nov - Dec <sup>r</sup>	Oct - Nov	Jan 2020 <sup>2</sup>	Dec 2019 <sup>r</sup>	Jan 2019	<b>Change</b> 2020/ 2019
DURABLE GOODS										
<b>Total:</b> Unfilled Orders <sup>4</sup> Total Inventories	1,157,012 435,379	1,156,898 435,339	1,156,728 433,799	0.0 0.0	0.0 0.4	-0.6 0.4	1,156,765 434,207	1,154,200 423,540	1,182,497 417,311	-2.: 4.
<b>Excluding transportation:</b> Unfilled Orders <sup>4</sup> Total Inventories	368,255 284,159	368,063 284,413	368,311 284,326		-0.1 0.0	-0.1 -0.1	365,791 283,395	361,691 277,304	367,525 284,695	-0. -0.
<b>Excluding defense:</b> Unfilled Orders <sup>4</sup> Total Inventories	949,214 406,772	947,840 406,965	955,935 405,020	0.1	-0.8 0.5		948,699 405,740	943,825	984,204 390,140	-3
Manufacturing with unfilled orders: Unfilled Orders Total Inventories	1,157,012 356,628	1,156,898 356,422	1,156,728 354,516	0.0	0.0 0.5	-0.6 0.4	1,156,765 355,215	1,154,200	1,182,497 339,242	-2. 4.
Primary metals: Unfilled Orders Total Inventories	31,961 34,887	31,857 35,164	31,970 34,986		-0.4 0.5	-0.2 0.5	31,758 35,026		31,386 36,790	1.
Fabricated metal products: Unfilled Orders Total Inventories	86,176 54,082	85,909 53,618	85,906 53,793	0.3 0.9	0.0 -0.3	-0.5 -0.8	84,679 54,055	83,521 52,571	85,130 54,787	-0 -1
<b>Machinery:</b> Unfilled Orders Total Inventories	101,222 71,050	101,431 71,510	102,049 71,621	-0.2 -0.6	-0.6 -0.2	0.0 -0.5	101,209 70,446	99,736 69,111	105,512 70,707	-4 -0
Computers and electronic products <sup>4</sup> : Unfilled Orders Total Inventories	118,581 43,918	118,667 43,935	118,510 43,782		0.1 0.3	-0.1 0.7	118,478 43,475	117,955 42,399	117,425 42,868	0
<b>Computers and related products:</b> Unfilled Orders Total Inventories	2,210 3,881	2,213 3,962	2,212 3,872		0.0 2.3	1.7 0.9	2,210 3,833	2,213	2,235 3,660	-1
<b>Communications equipment:</b> Unfilled Orders Total Inventories	25,193 5,485	25,226 5,498	25,100 5,465	-0.1 -0.2	0.5 0.6	0.0 -1.5	25,045 5,397	24,990 5,223	26,000 5,385	-3 0
Electrical equipment, appliances, and components: Unfilled Orders Total Inventories	20,608 20,464	20,537 20,373	20,477 20,377	0.3 0.4	0.3 0.0	0.7 -0.2	20,488 20,413	20,036 19,425	19,312 19,809	6
Transportation equipment: Unfilled Orders Total Inventories	788,757 151,220	788,835 150,926	788,417 149,473	0.4 0.0 0.2	0.0 0.1 1.0	-0.2 -0.8 1.3	790,974 150,812	792,509 146,236	814,972 132,616	-2 13
Motor vehicles and parts: Unfilled Orders Total Inventories	26,391 38,818	26,203 38,839	25,951 39,013	0.7 -0.1	1.0 -0.4		26,515 39,050	26,174	27,457 37,924	-3
Nondefense Aircraft and parts: Unfilled Orders Total Inventories	566,369 82,154	565,656 82,138	573,596 80,073	0.1 0.0	-1.4 2.6	-0.6 2.2	567,943 81,644	567,906 79,216	598,600 66,613	-5 22
<b>Defense Aircraft and parts:</b> Unfilled Orders Total Inventories	85,740 13,601	85,757 13,473	83,684 13,445	0.0 1.0	2.5 0.2	-2.3 -0.6	86,307 13,567	87,200 13,396	82,106 13,278	5
All other durable goods: Unfilled Orders Total Inventories	9,707 59,758	9,662 59,813	9,399 59,767	0.5 -0.1	2.8 0.1	1.3 0.1	9,179 59,980		8,760 59,734	4 0
Capital goods <sup>3</sup> : Unfilled Orders Total Inventories	833,820 222,640	836,414 222,795	840,161 221,248	-0.3 -0.1	-0.4 0.7	-1.0 0.6	833,559 220,909	835,543 215,673	868,483 204,597	-4 8
Nondefense capital goods: Unfilled Orders Total Inventories	670,850 198,539	671,744 198,911	681,913 196,925	-0.1 -0.2	-1.5 1.0	-0.8 0.6	670,379 196,914	,	711,362 181,744	-5
Excluding aircraft: Unfilled Orders Total Inventories	217,825 129,607	217,941 129,976	218,010 129,575	-0.1 -0.3	0.0 0.3	0.1 -0.2	216,871 128,379	214,703 125,873	220,885 127,120	-1 1
Defense capital goods: Unfilled Orders Total Inventories	162,970 24,101	164,670 23,884	158,248 24,323		4.1 -1.8	-1.7 0.1	163,180 23,995	165,250 23,790	157,121 22,853	

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

<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> Based on advance sample. 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.

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

<sup>4</sup> Estimates and percent changes of shipments and inventories for the semiconductor industry are included in computers and electronic products, and all other applicable aggregate totals. Estimates and percent changes for new orders and unfilled orders exclude semiconductor industry data.

Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, January Advance Report, February 27, 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>.