

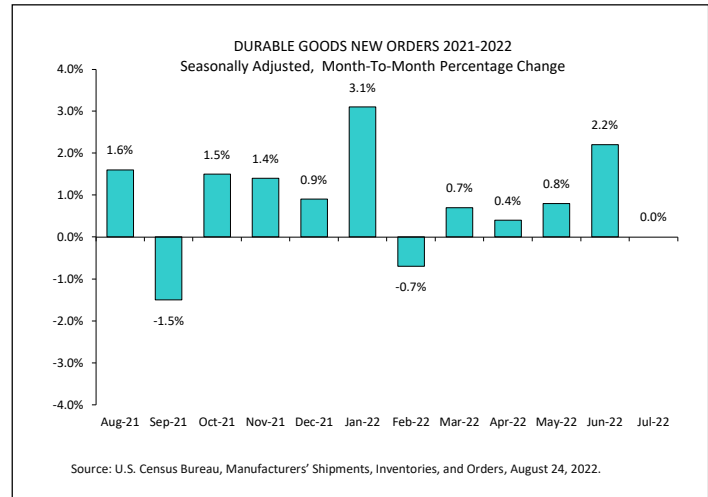
FOR RELEASE AT 8:30 AM EDT, WEDNESDAY, AUGUST 24, 2022

MONTHLY ADVANCE REPORT ON DURABLE GOODS MANUFACTURERS' SHIPMENTS, INVENTORIES AND ORDERS JULY 2022

Release Number: CB 22-134 M3-1 (22)-07

August 24, 2022 — The U.S. Census Bureau announces the July advance report on durable goods manufacturers' shipments, inventories and orders:

DURABLE GOODS – NEW ORDERS		
JULY 2022	\$273.5 billion	-0.0%°
JUNE 2022 (revised)	\$273.5 billion	+2.2%°
Next release: September 27, 2022		
<small>Data adjusted for seasonal variation but not for price changes. °Statistical significance is not measurable for this survey. The Manufacturers' Shipments, Inventories, and Orders estimates are not based on a probability sample, so the sampling error of these estimates cannot be measured nor can the confidence intervals be computed. Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories and Orders, August 24, 2022.</small>		



New Orders

New orders for manufactured durable goods in July decreased less than \$0.1 billion or virtually unchanged to \$273.5 billion, the U.S. Census Bureau announced today. This decrease, down following four consecutive monthly increases, followed a 2.2 percent June increase. Excluding transportation, new orders increased 0.3 percent. Excluding defense, new orders increased 1.2 percent. Transportation equipment, down following three consecutive monthly increases, drove the decrease, \$0.6 billion or 0.7 percent to \$93.0 billion.

Shipments

Shipments of manufactured durable goods in July, up fourteen of the last fifteen months, increased \$1.0 billion or 0.4 percent to \$270.5 billion. This followed a 0.3 percent June increase. Transportation equipment, up nine of the last ten months, drove the increase, \$1.0 billion or 1.1 percent to \$86.3 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



U.S. Department of Commerce
U.S. CENSUS BUREAU
[census.gov](https://www.census.gov)

Unfilled Orders

Unfilled orders for manufactured durable goods in July, up twenty-three consecutive months, increased \$7.9 billion or 0.7 percent to \$1,126.5 billion. This followed a 0.8 percent June increase. Transportation equipment, up seventeen of the last eighteen months, led the increase, \$6.7 billion or 1.0 percent to \$655.2 billion.

Inventories

Inventories of manufactured durable goods in July, up eighteen consecutive months, increased \$1.1 billion or 0.2 percent to \$486.2 billion. This followed a 0.4 percent June increase. Machinery, up twenty-one consecutive months, led the increase, \$0.7 billion or 0.8 percent to \$84.0 billion.

Capital Goods

Nondefense new orders for capital goods in July increased \$2.4 billion or 2.8 percent to \$87.3 billion. Shipments increased \$0.9 billion or 1.1 percent to \$80.7 billion. Unfilled orders increased \$6.6 billion or 1.1 percent to \$635.9 billion. Inventories increased \$0.8 billion or 0.4 percent to \$212.9 billion. Defense new orders for capital goods in July increased \$1.2 billion or 8.7 percent to \$14.6 billion. Shipments increased \$0.6 billion or 4.4 percent to \$14.2 billion. Unfilled orders increased \$0.3 billion or 0.2 percent to \$185.5 billion. Inventories increased \$0.2 billion or 0.8 percent to \$22.8 billion.

Revised June Data

Revised seasonally adjusted June figures for all manufacturing industries were: new orders, \$554.3 billion (revised from \$555.2 billion); shipments, \$550.3 billion (revised from \$551.9 billion); unfilled orders, \$1,118.7 billion (revised from \$1,118.0 billion) and total inventories, \$801.5 billion (unchanged from \$801.5 billion).

Revised and more detailed estimates, plus nondurable goods data, will be published on September 2, 2022, at 10:00 a.m. EDT. The Advance Report on durable goods for August is scheduled for release on September 27, 2022, at 8:30 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.

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



U.S. Department of Commerce
U.S. CENSUS BUREAU
census.gov

EXPLANATORY NOTES

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

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

Description of the survey

This report is compiled from results of the U.S. Census Bureau’s Manufacturers’ Shipments, Inventories, and Orders (M3) survey, which is a voluntary survey authorized by Title 13 of the United States Code. This survey provides statistics on a calendar-month basis for manufacturers' value of shipments, new orders (net of cancellations), end-of-month order backlog (unfilled orders), end-of-month total inventory (at current cost or market value), and inventories by stage of fabrication (materials and supplies, work-in-process, and finished goods). Data published from the M3 survey are based on a panel of approximately 5,000 reporting units that represent approximately 3,100 companies and provide an indication of month-to-month change for the Manufacturing Sector. These reporting units may be divisions of diversified large companies, large homogenous companies, or single-unit manufacturers in 92 industry categories, which are combined into 65 publication levels due to the small monthly panel size. The survey methodology assumes that the month-to-month changes of the total operations of the reporting units in the M3 panel effectively represent the month-to-month movements of all establishments that make up the category. The companies for which shipments data are currently reported or imputed in the M3 survey represent approximately 60 percent of the total value of shipments for manufacturing establishments in the 2017 Economic Census, and these companies include roughly 61 percent of the manufacturing companies with \$500 million or more in shipments in the 2017 Economic Census. The companies for which shipments data are currently reported in the M3 survey represent approximately 51 percent of the total value of shipments for manufacturing establishments in the 2017 Economic Census. Statistics based on the M3 panel differ from the results that would be obtained from a complete enumeration of all manufacturing companies. The M3 panel is not based on a probability sample; therefore, the sampling errors that are normally provided with sample surveys cannot be measured. Nonsampling errors are attributable to many sources. The use of company or divisional reports to estimate the monthly change for establishments is one source of nonsampling error. The use of primarily large companies to represent the month-to-month movement of all companies is another potential source. Any corrections will be published in the full report. Corrections received after the full report will be released in the next month’s advance report. Any revisions made later than two months will be reflected in the annual benchmark publication. Additional

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



U.S. Department of Commerce
U.S. CENSUS BUREAU
[census.gov](https://www.census.gov)

survey documentation can be found on our web site:

www.census.gov/manufacturing/m3/how_the_data_are_collected/index.html.

Special Notice - New Advance Estimates Of Total Manufacturing

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

RESOURCES

API

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

www.census.gov/developers/

FRED Mobile App



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

###

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



U.S. Department of Commerce
U.S. CENSUS BUREAU
census.gov

Table 1. Durable Goods Manufacturers' Shipments and New Orders ¹

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

Item	Seasonally Adjusted						Not Seasonally Adjusted					
	Monthly			Percent Change			Monthly			Year to Date		
	Jul 2022 ²	Jun 2022 ^f	May 2022	Jun - Jul ²	May - Jun ^f	Apr - May	Jul 2022 ²	Jun 2022 ^f	Jul 2021	2022	2021	Percent Change 2022/2021
DURABLE GOODS												
Total:												
Shipments.....	270,511	269,537	268,814	0.4	0.3	1.5	249,685	292,776	231,481	1,835,773	1,652,166	11.1
New Orders ⁴	273,476	273,523	267,533	0.0	2.2	0.8	250,049	294,373	228,559	1,855,444	1,673,984	10.8
Excluding transportation:												
Shipments.....	184,235	184,240	183,702	0.0	0.3	1.0	176,353	198,795	164,533	1,262,162	1,139,810	10.7
New Orders ⁴	180,471	179,880	179,258	0.3	0.3	0.4	171,126	192,478	162,425	1,247,018	1,153,839	8.1
Excluding defense:												
Shipments.....	254,145	253,663	252,658	0.2	0.4	1.4	234,970	275,912	217,320	1,727,860	1,550,189	11.5
New Orders ⁴	256,760	253,640	251,752	1.2	0.7	0.7	237,147	272,378	216,553	1,747,845	1,572,199	11.2
Manufacturing with unfilled orders:												
Shipments.....	186,790	185,486	185,669	0.7	-0.1	1.5	172,677	203,049	159,025	1,270,424	1,133,309	12.1
New Orders.....	194,649	194,428	189,296	0.1	2.7	0.5	177,975	209,440	160,986	1,322,512	1,186,837	11.4
Primary metals:												
Shipments.....	20,828	21,392	21,509	-2.6	-0.5	2.2	19,768	22,569	18,641	147,141	128,324	14.7
New Orders.....	20,750	21,048	21,350	-1.4	-1.4	1.9	19,596	21,913	19,063	147,708	133,038	11.0
Fabricated metal products:												
Shipments.....	37,307	37,051	36,849	0.7	0.5	0.8	35,664	39,347	32,644	255,530	224,664	13.7
New Orders.....	37,339	36,883	36,810	1.2	0.2	-0.2	35,605	38,806	33,287	261,411	244,453	6.9
Machinery:												
Shipments.....	38,092	37,773	37,587	0.8	0.5	1.4	35,933	41,454	32,652	260,899	228,260	14.3
New Orders.....	38,585	38,424	38,242	0.4	0.5	1.3	36,354	41,298	34,568	267,719	240,267	11.4
Computers and electronic products⁴:												
Shipments.....	29,022	28,995	28,579	0.1	1.5	0.6	27,126	31,441	25,433	192,375	181,966	5.7
New Orders.....	24,293	24,161	23,787	0.5	1.6	0.2	21,672	26,647	20,337	161,019	152,921	5.3
Computers and related products:												
Shipments.....	2,064	1,984	1,849	4.0	7.3	0.8	1,992	2,430	1,617	12,751	11,747	8.5
New Orders.....	2,074	1,995	1,844	4.0	8.2	0.7	2,002	2,441	1,630	12,750	11,722	8.8
Communications equipment:												
Shipments.....	3,383	3,306	3,259	2.3	1.4	0.9	2,860	4,052	2,554	21,772	19,708	10.5
New Orders.....	3,185	3,132	3,271	1.7	-4.2	-2.2	2,434	3,835	2,738	21,592	20,562	5.0
Electrical equipment, appliances, and components:												
Shipments.....	13,242	13,423	13,383	-1.3	0.3	2.2	12,555	14,831	11,883	90,945	81,656	11.4
New Orders.....	13,683	13,741	13,353	-0.4	2.9	-0.8	12,704	14,795	11,673	93,441	85,784	8.9
Transportation equipment:												
Shipments.....	86,276	85,297	85,112	1.1	0.2	2.5	73,332	93,981	66,948	573,611	512,356	12.0
New Orders.....	93,005	93,643	88,275	-0.7	6.1	1.6	78,923	101,895	66,134	608,426	520,145	17.0
Motor vehicles and parts:												
Shipments.....	59,659	59,668	58,708	0.0	1.6	1.7	50,432	62,841	45,926	398,030	354,204	12.4
New Orders.....	59,799	59,672	58,695	0.2	1.7	1.2	50,289	62,141	46,255	398,109	356,470	11.7
Nondefense aircraft and parts⁵:												
Shipments.....	10,460	10,085	10,850	3.7	-7.1	5.8	8,514	14,417	7,873	70,444	61,852	13.9
New Orders.....	16,715	14,596	14,452	14.5	1.0	0.9	15,722	18,354	8,614	105,092	67,615	55.4
Defense aircraft and parts:												
Shipments.....	5,177	5,371	5,359	-3.6	0.2	0.6	4,625	5,964	4,907	35,851	35,762	0.2
New Orders.....	4,839	9,633	5,410	-49.8	78.1	9.9	3,851	10,495	4,119	36,718	33,452	9.8
All other durable goods:												
Shipments.....	45,744	45,606	45,795	0.3	-0.4	0.2	45,307	49,153	43,280	315,272	294,940	6.9
New Orders.....	45,821	45,623	45,716	0.4	-0.2	0.2	45,195	49,019	43,497	315,720	297,376	6.2
Capital goods³:												
Shipments.....	94,899	93,410	93,833	1.6	-0.5	1.8	87,107	104,884	79,939	638,154	575,932	10.8
New Orders.....	101,823	98,293	97,652	3.6	0.7	1.0	92,270	109,306	80,103	678,767	601,195	12.9
Nondefense capital goods:												
Shipments.....	80,653	79,761	79,921	1.1	-0.2	1.7	74,239	90,651	67,633	544,290	487,204	11.7
New Orders.....	87,265	84,898	84,070	2.8	1.0	0.9	81,119	94,363	69,759	588,598	510,653	15.3
Excluding aircraft:												
Shipments.....	73,960	73,473	72,872	0.7	0.8	1.0	69,276	80,368	62,933	500,026	446,875	11.9
New Orders.....	74,464	74,151	73,477	0.4	0.9	0.5	68,854	80,037	64,243	509,266	464,237	9.7
Defense capital goods:												
Shipments.....	14,246	13,649	13,912	4.4	-1.9	2.2	12,868	14,233	12,306	93,864	88,728	5.8
New Orders.....	14,558	13,395	13,582	8.7	-1.4	1.5	11,151	14,943	10,344	90,169	90,542	-0.4

^f 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 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>.

³ 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.

⁴ 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.

Table 2. Durable Goods Manufacturers' Unfilled Orders and Total Inventories ¹

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

Item	Seasonally Adjusted						Not Seasonally Adjusted			
	Monthly			Percent Change			Monthly			Percent Change 2022/2021
	Jul 2022 ²	Jun 2022 [†]	May 2022	Jun - Jul ²	May - Jun [†]	Apr - May	Jul 2022 ²	Jun 2022 [†]	Jul 2021	
DURABLE GOODS										
Total:										
Unfilled Orders ⁴	1,126,540	1,118,681	1,109,739	0.7	0.8	0.3	1,126,689	1,121,391	1,050,111	7.3
Total Inventories.....	486,213	485,106	482,970	0.2	0.4	0.6	489,340	484,481	449,605	8.8
Excluding transportation:										
Unfilled Orders ⁴	471,380	470,250	469,654	0.2	0.1	0.1	473,645	473,938	446,987	6.0
Total Inventories.....	328,857	327,549	325,682	0.4	0.6	0.8	330,549	328,135	296,560	11.5
Excluding defense:										
Unfilled Orders ⁴	914,335	906,826	901,893	0.8	0.5	0.4	915,215	908,104	837,255	9.3
Total Inventories.....	459,464	458,538	456,759	0.2	0.4	0.6	462,478	457,825	424,319	9.0
Manufacturing with unfilled orders:										
Unfilled Orders.....	1,126,540	1,118,681	1,109,739	0.7	0.8	0.3	1,126,689	1,121,391	1,050,111	7.3
Total Inventories.....	389,695	388,769	386,714	0.2	0.5	0.6	392,875	389,182	361,756	8.6
Primary metals:										
Unfilled Orders.....	30,682	30,760	31,104	-0.3	-1.1	-0.5	30,812	30,984	31,071	-0.8
Total Inventories.....	39,054	39,272	39,371	-0.6	-0.3	1.1	39,211	39,225	34,966	12.1
Fabricated metal products:										
Unfilled Orders.....	117,939	117,907	118,075	0.0	-0.1	0.0	119,851	119,910	114,238	4.9
Total Inventories.....	62,629	62,415	62,238	0.3	0.3	0.7	63,347	62,755	57,059	11.0
Machinery:										
Unfilled Orders.....	131,422	130,929	130,278	0.4	0.5	0.5	131,742	131,321	120,524	9.3
Total Inventories.....	83,952	83,275	82,362	0.8	1.1	1.3	83,774	83,333	71,745	16.8
Computers and electronic products⁴:										
Unfilled Orders.....	140,304	140,139	140,017	0.1	0.1	0.1	140,063	140,583	134,553	4.1
Total Inventories.....	52,157	52,070	51,758	0.2	0.6	0.1	52,634	52,151	50,172	4.9
Computers and related products:										
Unfilled Orders.....	1,218	1,208	1,197	0.8	0.9	-0.4	1,218	1,208	1,352	-9.9
Total Inventories.....	3,885	3,874	3,889	0.3	-0.4	1.6	3,968	3,931	3,691	7.5
Communications equipment:										
Unfilled Orders.....	21,268	21,466	21,640	-0.9	-0.8	0.1	21,162	21,588	18,902	12.0
Total Inventories.....	5,377	5,381	5,338	-0.1	0.8	-0.9	5,463	5,377	5,255	4.0
Electrical equipment, appliances, and components:										
Unfilled Orders.....	39,212	38,771	38,453	1.1	0.8	-0.1	39,297	39,148	34,754	13.1
Total Inventories.....	23,035	22,884	22,813	0.7	0.3	1.3	23,540	23,084	20,392	15.4
Transportation equipment:										
Unfilled Orders.....	655,160	648,431	640,085	1.0	1.3	0.5	653,044	647,453	603,124	8.3
Total Inventories.....	157,356	157,557	157,288	-0.1	0.2	0.3	158,791	156,346	153,045	3.8
Motor vehicles and parts:										
Unfilled Orders.....	28,617	28,477	28,473	0.5	0.0	0.0	27,826	27,969	25,967	7.2
Total Inventories.....	51,363	51,536	51,766	-0.3	-0.4	0.5	52,178	50,812	48,186	8.3
Nondefense Aircraft and parts:										
Unfilled Orders.....	440,524	434,269	429,758	1.4	1.0	0.8	439,981	432,773	390,109	12.8
Total Inventories.....	76,028	76,062	76,012	0.0	0.1	-0.2	76,340	75,642	76,554	-0.3
Defense Aircraft and parts:										
Unfilled Orders.....	59,720	60,058	55,796	-0.6	7.6	0.1	59,425	60,199	57,753	2.9
Total Inventories.....	13,069	13,006	12,765	0.5	1.9	0.0	13,131	12,997	12,508	5.0
All other durable goods:										
Unfilled Orders.....	11,821	11,744	11,727	0.7	0.1	-0.7	11,880	11,992	11,847	0.3
Total Inventories.....	68,030	67,633	67,140	0.6	0.7	0.4	68,043	67,587	62,226	9.3
Capital goods³:										
Unfilled Orders.....	821,403	814,479	809,596	0.9	0.6	0.5	820,784	815,621	761,007	7.9
Total Inventories.....	235,649	234,653	233,124	0.4	0.7	0.4	237,160	235,061	219,430	8.1
Nondefense capital goods:										
Unfilled Orders.....	635,868	629,256	624,119	1.1	0.8	0.7	635,936	629,056	570,288	11.5
Total Inventories.....	212,857	212,038	210,848	0.4	0.6	0.4	214,317	212,349	198,026	8.2
Excluding aircraft:										
Unfilled Orders.....	265,224	264,720	264,042	0.2	0.3	0.2	265,534	265,956	248,213	7.0
Total Inventories.....	147,501	146,639	145,364	0.6	0.9	0.7	148,569	147,155	131,957	12.6
Defense capital goods:										
Unfilled Orders.....	185,535	185,223	185,477	0.2	-0.1	-0.2	184,848	186,565	190,719	-3.1
Total Inventories.....	22,792	22,615	22,276	0.8	1.5	0.4	22,843	22,712	21,404	6.7

[†] 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 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>.

³ 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.

⁴ 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.