

U.S. Census Bureau News

U.S. Department of Commerce • Washington, D.C. 20233

FOR IMMEDIATE RELEASE
FRIDAY, JUNE 3, 2016, AT 10:00 A.M. EDT

Adriana Stoica
Economic Indicators Division
(301) 763-4832

M3-2 (16)-04
CB 16-95

Full Report on Manufacturers' Shipments, Inventories and Orders April 2016

Summary

New orders for manufactured goods in April, up three of the last four months, increased \$8.7 billion or 1.9 percent to \$460.5 billion, the U.S. Census Bureau reported today. This followed a 1.7 percent March increase.

Shipments, up two consecutive months, increased \$2.2 billion or 0.5 percent to \$456.8 billion. This followed a 0.3 percent March increase.

Unfilled orders, up three of the last four months, increased \$6.6 billion or 0.6 percent to \$1,137.3 billion. This followed a virtually unchanged March increase. The unfilled orders-to-shipments ratio was 6.94, up from 6.93 in March.

Inventories, down eleven of the last twelve months, decreased \$0.5 billion or 0.1 percent to \$620.8 billion. This followed a 0.1 percent March decrease. The inventories-to-shipments ratio was 1.36, down from 1.37 in March.

New Orders

New orders for manufactured durable goods in April, up three of the last four months, increased \$7.7 billion or 3.4 percent to \$236.2 billion, virtually unchanged from the previously published increase. This followed a 2.0 percent March increase.

Transportation equipment, also up three of the last four months, led the increase, \$6.9 billion or 8.7 percent to \$86.9 billion.

New orders for manufactured nondurable goods increased \$1.0 billion or 0.4 percent to \$224.3 billion.

Shipments

Shipments of manufactured durable goods in April, up following two consecutive monthly decreases, increased \$1.3 billion or 0.5 percent to \$232.5 billion, down from the previously published 0.6 percent increase. This followed a 0.7 percent March decrease.

Transportation equipment, also up following two consecutive monthly decreases, led the increase, \$0.9 billion or 1.1 percent to \$80.8 billion.

Shipments of manufactured nondurable goods, up two consecutive months, increased \$1.0 billion or 0.4 percent to \$224.3 billion. This followed a 1.4 percent March increase. Petroleum and coal products, also up two consecutive months, led the increase, \$0.7 billion or 2.1 percent to \$33.8 billion.

Unfilled Orders

Unfilled orders for manufactured durable goods in April, up three of the last four months, increased \$6.6 billion or 0.6 percent to \$1,137.3 billion, virtually unchanged from the previously published increase. This followed a virtually unchanged March increase.

Transportation equipment, up two consecutive months, led the increase, \$6.1 billion or 0.8 percent to \$783.0 billion.

Inventories

Inventories of manufactured durable goods in April, down nine of the last ten months, decreased \$0.6 billion or 0.1 percent to \$384.5 billion, up from the previously published 0.2 percent decrease. This followed a 0.2 percent March decrease.

Machinery, down eight of the last nine months, led the decrease, \$0.5 billion or 0.8 percent to \$66.1 billion.

Inventories of manufactured nondurable goods, up two consecutive months, increased less than \$0.1 billion or virtually unchanged to \$236.3 billion. This followed a 0.1 percent March increase. Petroleum and coal products, up following nine consecutive monthly decreases, drove the increase, \$0.3 billion or 1.3 percent to \$24.8 billion.

By stage of fabrication, April materials and supplies decreased 0.2 percent in durable goods and in nondurable goods. Work in process decreased 0.3 percent in durable goods and increased 2.0 percent in nondurable goods. Finished goods increased 0.2 percent in durable goods and decreased 0.7 percent in nondurable goods.

Figures in text are adjusted for seasonality, but not for inflation. Figures on new and unfilled orders exclude data for semiconductor manufacturing. For data, call (301) 763-4673 or go to www.census.gov/m3. The Advance Report on durable goods for May is scheduled for release on June 24, 2016 at 8:30 a.m. EDT and the Full Report on July 5, 2016 at 10:00 a.m. EDT. See back page for survey description. To receive the latest updates on the Nation's key economic indicators, download the America's Economy app for Apple and Android smartphones and tablets. To learn more about this release and the other indicators the U.S. Census Bureau publishes, join us for the Investigating Economic Indicators Webinar Series. For more information, visit www.census.gov/econ/webinar.

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

Table 1. Value of Manufacturers' Shipments for Industry Groups¹**[Estimates are shown in millions of dollars and are based on data from the Manufacturers' Shipments, Inventories, and Orders Survey.]**

Industry	Seasonally Adjusted						Not Seasonally Adjusted						
	Monthly			Percent Change			Monthly				Year to date		
	Apr. 2016 ^p	Mar. 2016 ^f	Feb. 2016	Mar. - Apr.	Feb. - Mar.	Jan. - Feb.	Apr. 2016 ^p	Mar. 2016 ^f	Feb. 2016	Apr. 2015	2016 ^p	2015	% Change 2016/ 2015
All manufacturing industries.....	456,785	454,540	453,120	0.5	0.3	-0.6	453,739	486,063	436,362	475,879	1,785,545	1,836,916	-2.8
Excluding transportation.....	375,985	374,623	371,164	0.4	0.9	-0.5	375,058	394,581	355,539	395,651	1,465,481	1,526,743	-4.0
Excluding defense.....	445,410	442,021	440,598	0.8	0.3	-0.7	443,420	471,488	424,421	465,036	1,739,156	1,793,183	-3.0
With unfilled orders.....	163,882	163,193	163,483	0.4	-0.2	-0.9	159,921	179,502	157,534	165,175	640,502	648,040	-1.2
Durable goods industries.....	232,476	231,225	232,924	0.5	-0.7	-0.8	229,034	253,239	225,222	235,512	912,019	913,520	-0.2
Wood products.....	8,234	8,466	8,234	-2.7	2.8	1.8	8,717	8,443	7,574	8,230	31,495	29,604	6.4
Nonmetallic mineral products.....	9,890	9,927	9,954	-0.4	-0.3	1.1	9,903	9,917	8,798	9,634	36,906	35,050	5.3
Primary metals.....	17,767	17,674	17,644	0.5	0.2	-0.7	17,982	18,839	17,621	20,274	71,444	81,844	-12.7
Iron and steel mills.....	8,009	7,876	7,943	1.7	-0.8	-1.3	8,049	8,244	7,877	9,483	31,932	38,629	-17.3
Aluminum and nonferrous metals.....	8,247	8,292	8,166	-0.5	1.5	-0.1	8,403	8,973	8,229	9,123	33,451	36,710	-8.9
Ferrous metal foundries.....	1,511	1,506	1,535	0.3	-1.9	-0.7	1,530	1,622	1,515	1,668	6,061	6,505	-6.8
Fabricated metal products.....	29,969	29,512	29,559	1.5	-0.2	-0.7	30,061	30,794	28,664	30,230	116,679	116,495	0.2
Machinery.....	30,440	30,630	30,580	-0.6	0.2	-1.3	30,772	34,160	30,043	33,092	121,675	128,194	-5.1
Farm machinery.....	1,757	1,743	1,724	0.8	1.1	-4.6	2,298	2,244	2,102	2,557	8,307	9,406	-11.7
Construction machinery.....	2,975	2,975	2,984	0.0	-0.3	4.6	3,061	3,302	2,914	3,941	11,636	15,273	-23.8
Mining, oil field, and gas field machinery.....	936	1,205	1,162	-22.3	3.7	-5.8	852	1,310	1,104	1,748	4,376	7,879	-44.5
Industrial machinery.....	2,580	2,505	2,437	3.0	2.8	-2.4	2,347	2,810	2,237	2,160	9,445	8,331	13.4
Photographic equipment.....	443	450	432	-1.6	4.2	-1.8	383	518	378	381	1,634	1,570	4.1
Ventilation, heating, air-conditioning, and refrigeration equipment.....	3,435	3,536	3,570	-2.9	-1.0	0.2	3,341	3,774	3,017	3,531	12,935	12,812	1.0
Metalworking machinery.....	3,095	2,976	3,049	4.0	-2.4	-3.6	2,835	3,271	2,782	2,586	11,588	10,184	13.8
Turbines, generators, and other power transmission equipment.....	3,805	3,962	3,962	-4.0	0.0	-0.4	3,898	4,106	4,037	4,478	15,744	18,155	-13.3
Material handling equipment.....	3,021	2,882	2,958	4.8	-2.6	-4.0	2,912	3,128	2,911	2,556	11,636	9,559	21.7
Computers and electronic products ²	26,355	26,280	26,344	0.3	-0.2	-0.9	24,488	28,942	23,734	24,486	100,261	96,422	4.0
Computers.....	621	596	584	4.2	2.1	-16.1	564	620	461	769	2,223	2,791	-20.4
Computer storage devices.....	623	522	575	19.3	-9.2	5.5	405	789	384	318	1,945	1,938	0.4
Other peripheral equipment.....	666	660	752	0.9	-12.2	-5.1	535	857	573	667	2,465	3,044	-19.0
Nondefense communications equipment.....	2,988	3,075	2,986	-2.8	3.0	1.3	2,641	3,588	2,625	2,774	11,178	11,363	-1.6
Defense communications equipment.....	271	278	322	-2.5	-13.7	20.1	270	295	316	343	1,112	1,366	-18.6
Audio and video equipment.....	365	337	359	8.3	-6.1	-0.8	298	327	311	177	1,218	664	83.4
Electronic components.....	4,681	4,612	4,602	1.5	0.2	-0.5	4,473	4,837	4,170	4,145	17,550	15,031	16.8
Nondefense search and navigation equipment.....	1,374	1,371	1,370	0.2	0.1	-2.0	1,160	1,648	1,344	1,067	5,299	4,647	14.0
Defense search and navigation equipment.....	2,519	2,502	2,476	0.7	1.1	-1.4	2,234	2,716	2,424	2,337	9,371	9,331	0.4
Electromedical, measuring, and control instruments.....	9,035	8,858	8,838	2.0	0.2	0.0	8,327	10,060	8,180	7,745	34,056	31,857	6.9
Electrical equipment, appliances, and components.....	9,444	9,319	9,357	1.3	-0.4	-2.6	9,210	9,919	8,933	10,160	36,535	40,118	-8.9
Electric lighting equipment.....	1,071	1,061	1,048	0.9	1.2	-1.7	1,030	1,084	1,031	997	4,093	3,874	5.7
Household appliances.....	1,411	1,375	1,415	2.6	-2.8	-3.5	1,448	1,499	1,310	1,632	5,448	6,124	-11.0
Electrical equipment.....	2,912	2,940	2,944	-1.0	-0.1	-1.1	2,733	3,305	2,866	3,125	11,454	12,801	-10.5
Batteries.....	805	801	813	0.5	-1.5	-1.3	754	788	732	811	2,987	3,171	-5.8
Transportation equipment.....	80,800	79,917	81,956	1.1	-2.5	-0.7	78,681	91,482	80,823	80,228	320,064	310,173	3.2
Automobiles.....	10,088	9,989	10,548	1.0	-5.3	-2.1	9,640	11,107	10,805	11,248	40,908	41,919	-2.4
Light trucks and utility vehicles.....	15,698	14,964	15,953	4.9	-6.2	1.0	15,625	17,102	16,244	14,549	62,170	55,779	11.5
Heavy duty trucks.....	2,408	2,358	2,381	2.1	-1.0	-2.4	2,420	2,576	2,263	2,794	9,339	10,439	-10.5
Motor vehicle bodies, parts, and trailers.....	27,893	27,067	27,437	3.1	-1.3	0.5	28,548	30,121	28,444	26,510	111,416	101,427	9.8
Nondefense aircraft and parts.....	13,501	13,087	13,093	3.2	0.0	-7.4	11,873	16,038	11,323	13,399	49,836	52,970	-5.9
Defense aircraft and parts.....	3,539	4,638	4,437	-23.7	4.5	0.1	3,065	5,687	3,789	4,064	15,914	16,691	-4.7
Ships and boats.....	3,028	3,081	3,169	-1.7	-2.8	6.4	3,007	3,318	3,163	2,782	11,905	10,550	12.8
Furniture and related products.....	6,335	6,336	6,215	0.0	1.9	-0.4	6,244	6,477	6,178	5,928	24,715	23,042	7.3
Miscellaneous durable goods.....	13,242	13,164	13,081	0.6	0.6	-1.6	12,976	14,266	12,854	13,250	52,245	52,578	-0.6
Nondurable goods industries.....	224,309	223,315	220,196	0.4	1.4	-0.4	224,705	232,824	211,140	240,367	873,526	923,396	-5.4
Food products.....	64,236	64,236	64,101	0.0	0.2	-0.4	62,543	65,947	63,497	62,917	254,007	253,933	0.0
Grain and oilseed milling.....	8,034	8,031	8,053	0.0	-0.3	1.0	7,537	8,278	7,988	7,602	31,584	31,071	1.7
Dairy products.....	9,095	9,217	9,182	-1.3	0.4	-0.4	8,848	9,386	8,653	8,972	35,752	36,033	-0.8
Meat, poultry, and seafood products.....	17,882	17,934	17,642	-0.3	1.7	-0.6	17,755	18,006	17,479	18,675	70,138	74,775	-6.2
Beverage and tobacco products.....	12,318	12,242	11,878	0.6	3.1	-0.5	12,335	12,515	11,161	12,559	46,587	46,670	-0.2
Beverages.....	9,191	9,216	9,078	-0.3	1.5	-2.5	9,208	9,489	8,361	9,095	35,002	34,111	2.6
Tobacco.....	3,127	3,026	2,800	3.3	8.1	6.4	3,127	3,026	2,800	3,464	11,585	12,559	-7.8
Textile mills.....	2,517	2,520	2,497	-0.1	0.9	-1.3	2,600	2,652	2,473	2,659	10,072	10,264	-1.9
Textile products.....	1,975	1,959	1,938	0.8	1.1	-2.2	2,064	2,047	1,973	2,092	7,882	8,170	-3.5
Apparel.....	1,049	1,039	1,017	1.0	2.2	0.4	926	974	1,003	860	3,799	3,647	4.2
Leather and allied products.....	332	334	338	-0.6	-1.2	-3.4	343	353	345	428	1,361	1,655	-17.8
Paper products.....	15,216	15,246	15,155	-0.2	0.6	-0.8	14,962	15,654	14,683	15,110	60,023	59,801	0.4
Pulp, paper, and paperboard mills.....	6,719	6,776	6,764	-0.8	0.2	-1.6	6,610	6,953	6,533	6,823	26,851	27,169	-1.2
Paperboard containers.....	4,731	4,703	4,690	0.6	0.3	1.0	4,660	4,843	4,496	4,619	18,410	17,986	2.4
Printing.....	7,116	7,168	7,180	-0.7	-0.2	-0.2	7,259	7,506	6,677	7,374	28,147	27,707	1.6
Petroleum and coal products.....	33,791	33,112	30,926	2.1	7.1	-1.0	34,299	32,658	26,929	49,760	121,320	179,766	-32.5
Petroleum refineries.....	30,174	29,650	27,514	1.8	7.8	-1.6	30,724	29,237	23,962	46,236	108,935	167,544	-35.0
Chemical products.....	66,551	66,387	66,205	0.2	0.3	-0.1	67,855	72,318	64,088	66,984	265,062	256,134	3.5
Pesticides, fertilizers, and other agricultural chemicals.....	3,978	4,148	4,195	-4.1	-1.1	8.0	5,622	6,161	4,598	5,610	19,406	18,094	7.3
Pharmaceuticals and medicines.....	21,778	21,697	21,819	0.4	-0.6	-1.4	21,115	22,882	20,547	18,374	85,385	70,384	21.3
Paints, coatings, and adhesives.....	3,701	3,650	3,583	1.4	1.9	0.3	4,031	3,990	3,378	3,751	14,484	13,326	8.7
Plastics and rubber products.....	19,208	19,072	18,961	0.7	0.6	0.3	19,519	20,200	18,311	19,624	75,266	75,649	-0.5

^p Preliminary^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. See note at end of Table 2 relating to survey error and revision.

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 and are based on data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

Industry	Seasonally Adjusted						Not Seasonally Adjusted						
	Monthly			Percent Change			Monthly				Year to date		
	Apr. 2016 ^p	Mar. 2016 ^f	Feb. 2016	Mar. - Apr.	Feb. - Mar.	Jan. - Feb.	Apr. 2016 ^p	Mar. 2016 ^f	Feb. 2016	Apr. 2015	2016 ^p	2015	% Change 2016/ 2015
All manufacturing industries ²	460,508	451,814	444,277	1.9	1.7	-1.9	453,232	482,868	429,795	465,915	1,776,017	1,817,916	-2.3
Excluding transportation ²	373,601	371,838	368,332	0.5	1.0	-0.8	373,815	394,521	357,422	393,440	1,467,944	1,523,067	-3.6
Excluding defense ²	445,759	436,750	434,649	2.1	0.5	-1.4	439,753	465,321	420,612	457,375	1,725,801	1,778,148	-2.9
With unfilled orders ²	170,462	163,609	157,790	4.2	3.7	-4.5	162,664	179,224	153,625	159,007	643,572	642,303	0.2
Durable goods industries ²	236,199	228,499	224,081	3.4	2.0	-3.3	228,527	250,044	218,655	225,548	902,491	894,520	0.9
Primary metals.....	18,143	18,162	17,829	-0.1	1.9	-1.3	18,468	19,269	18,226	20,646	74,240	82,684	-10.2
Iron and steel mills.....	8,279	8,168	8,088	1.4	1.0	-3.5	8,484	8,549	8,378	9,979	34,374	39,762	-13.6
Aluminum and nonferrous metals.....	8,252	8,374	8,119	-1.5	3.1	0.0	8,372	8,995	8,202	9,011	33,340	36,424	-8.5
Ferrous metal foundries.....	1,612	1,620	1,622	-0.5	-0.1	4.0	1,612	1,725	1,646	1,656	6,526	6,498	0.4
Fabricated metal products.....	30,211	29,150	29,615	3.6	-1.6	-1.4	30,636	31,757	30,094	29,960	120,653	117,866	2.4
Machinery.....	29,429	29,991	29,950	-1.9	0.1	-3.4	30,034	33,421	30,542	32,807	122,543	128,694	-4.8
Construction machinery.....	2,688	2,738	2,821	-1.8	-2.9	-2.1	2,726	2,895	2,938	3,640	11,310	14,137	-20.0
Mining, oil field, and gas field machinery.....	134	966	977	-86.1	-1.1	-20.5	-141	1,040	1,156	1,538	3,176	7,243	-56.2
Industrial machinery.....	2,489	2,411	2,430	3.2	-0.8	5.1	2,489	2,731	2,213	2,326	9,726	8,661	12.3
Photographic equipment.....	373	418	425	-10.8	-1.6	4.7	367	487	408	587	1,625	1,925	-15.6
Ventilation, heating, air-conditioning, and refrigeration equipment.....	3,468	3,445	3,464	0.7	-0.5	-2.5	3,413	3,766	3,057	3,659	13,166	13,601	-3.2
Metalworking machinery.....	3,439	3,211	2,987	7.1	7.5	-3.1	3,353	3,326	2,871	2,682	12,368	10,564	17.1
Turbines, generators, and other power transmission equipment.....	3,874	3,921	3,936	-1.2	-0.4	-5.0	3,985	3,986	3,964	4,081	15,847	16,992	-6.7
Material handling equipment.....	2,892	2,641	3,049	9.5	-13.4	-3.4	2,820	3,050	3,168	2,628	11,947	10,328	15.7
Computers and electronic products ²	24,281	23,703	23,624	2.4	0.3	-1.1	22,461	27,470	22,234	21,841	92,297	88,356	4.5
Computers.....	614	593	584	3.5	1.5	-12.0	557	617	461	849	2,181	2,945	-25.9
Nondefense communications equipment.....	3,222	3,136	3,275	2.7	-4.2	1.4	3,141	3,829	3,357	3,355	13,046	13,474	-3.2
Defense communications equipment.....	278	305	295	-8.9	3.4	11.7	284	382	286	333	1,190	1,415	-15.9
Electronic components.....	4,668	4,697	4,531	-0.6	3.7	-2.0	4,524	4,799	4,298	4,277	17,824	15,515	14.9
Nondefense search and navigation equipment.....	1,340	1,405	1,436	-4.6	-2.2	-2.4	1,404	1,651	1,434	1,532	5,725	5,796	-1.2
Defense search and navigation equipment.....	3,030	2,737	2,653	10.7	3.2	-2.6	2,855	3,145	2,661	2,283	10,775	9,413	14.5
Electromedical, measuring, and control instruments.....	9,120	8,984	8,834	1.5	1.7	-0.2	8,127	10,786	8,181	7,702	34,682	33,025	5.0
Electrical equipment, appliances, and components.....	9,512	9,467	9,544	0.5	-0.8	-3.3	9,271	10,110	9,381	10,225	37,887	40,703	-6.9
Electric lighting equipment.....	1,077	1,050	1,068	2.6	-1.7	-1.9	1,051	1,053	1,074	1,013	4,177	3,900	7.1
Household appliances.....	1,422	1,368	1,373	3.9	-0.4	-8.0	1,485	1,529	1,182	1,732	5,442	6,260	-13.1
Electrical equipment.....	2,923	2,987	2,951	-2.1	1.2	0.7	2,776	3,326	2,936	3,196	11,711	13,230	-11.5
Transportation equipment.....	86,907	79,976	75,945	8.7	5.3	-6.7	79,417	88,347	72,373	72,475	308,073	294,849	4.5
Motor vehicle bodies, parts, and trailers.....	27,744	27,104	27,330	2.4	-0.8	2.1	27,960	29,881	28,521	26,062	110,298	101,457	8.7
Nondefense aircraft and parts.....	16,899	10,226	10,432	65.3	-2.0	-26.7	10,650	10,399	6,064	8,712	37,272	42,308	-11.9
Defense aircraft and parts.....	5,764	6,193	3,797	-6.9	63.1	-22.4	5,165	6,740	2,959	3,705	19,074	13,604	40.2
Ships and boats.....	3,123	3,614	1,340	-13.6	169.7	-33.7	2,920	3,834	1,846	1,477	10,601	9,618	10.2
Furniture and related products.....	6,347	6,493	6,305	-2.2	3.0	-0.6	6,641	7,044	6,579	6,480	26,154	24,137	8.4
Nondurable goods industries.....	224,309	223,315	220,196	0.4	1.4	-0.4	224,705	232,824	211,140	240,367	873,526	923,396	-5.4

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

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

Table 3. Value of Manufacturers' Unfilled Orders for Industry Groups¹**[Estimates are shown in millions of dollars and are based on data from the Manufacturers' Shipments, Inventories, and Orders Survey.]**

Industry	Seasonally Adjusted						Not Seasonally Adjusted				
	Monthly			Percent Change			Monthly				% Change Apr. 2016/ 2015
	Apr. 2016 ^p	Mar. 2016 ^r	Feb. 2016	Mar. - Apr.	Feb. - Mar.	Jan. - Feb.	Apr. 2016 ^p	Mar. 2016 ^r	Feb. 2016	Apr. 2015	
All manufacturing industries ²	1,137,282	1,130,702	1,130,286	0.6	0.0	-0.5	1,142,770	1,140,027	1,140,305	1,161,832	-1.6
Excluding transportation ²	354,250	353,777	353,420	0.1	0.1	0.1	359,903	357,896	355,039	361,063	-0.3
Excluding defense ²	961,324	958,118	960,247	0.3	-0.2	-0.3	965,726	966,143	969,393	982,669	-1.7
Durable goods industries ²	1,137,282	1,130,702	1,130,286	0.6	0.0	-0.5	1,142,770	1,140,027	1,140,305	1,161,832	-1.6
Primary metals.....	32,561	32,185	31,697	1.2	1.5	0.6	33,409	32,923	32,493	33,955	-1.6
Iron and steel mills.....	18,050	17,780	17,488	1.5	1.7	0.8	18,802	18,367	18,062	18,362	2.4
Aluminum and nonferrous metals.....	10,683	10,678	10,596	0.0	0.8	-0.4	10,705	10,736	10,714	11,879	-9.9
Ferrous metal foundries.....	3,828	3,727	3,613	2.7	3.2	2.5	3,902	3,820	3,717	3,714	5.1
Fabricated metal products.....	74,031	73,789	74,151	0.3	-0.5	0.1	75,421	74,846	73,883	75,485	-0.1
Machinery.....	94,526	95,537	96,176	-1.1	-0.7	-0.7	95,824	96,562	97,301	104,217	-8.1
Construction machinery.....	4,850	5,137	5,374	-5.6	-4.4	-2.9	5,069	5,404	5,811	7,734	-34.5
Mining, oil field, and gas field machinery.....	7,135	7,937	8,176	-10.1	-2.9	-2.2	6,970	7,963	8,233	10,992	-36.6
Industrial machinery.....	7,921	8,012	8,106	-1.1	-1.2	-0.1	8,198	8,056	8,135	9,376	-12.6
Photographic equipment.....	1,222	1,292	1,324	-5.4	-2.4	-0.5	1,266	1,282	1,313	1,501	-15.7
Ventilation, heating, air-conditioning, and refrigeration equipment.....	6,354	6,321	6,412	0.5	-1.4	-1.6	6,559	6,487	6,495	6,397	2.5
Metalworking machinery.....	7,231	6,887	6,652	5.0	3.5	-0.9	7,399	6,881	6,826	7,542	-1.9
Turbines, generators, and other power transmission equipment.....	25,739	25,670	25,711	0.3	-0.2	-0.1	25,795	25,708	25,828	26,465	-2.5
Material handling equipment.....	11,646	11,775	12,016	-1.1	-2.0	0.8	11,944	12,036	12,114	10,645	12.2
Computers and electronic products ²	127,372	126,589	126,024	0.6	0.4	0.3	128,825	127,602	126,157	121,566	6.0
Computers.....	2,405	2,412	2,415	-0.3	-0.1	0.0	2,405	2,412	2,415	2,434	-1.2
Nondefense communications equipment.....	31,745	31,511	31,450	0.7	0.2	0.9	32,393	31,893	31,652	28,825	12.4
Defense communications equipment.....	2,290	2,283	2,256	0.3	1.2	-1.2	2,315	2,301	2,214	2,338	-1.0
Electronic components.....	12,130	12,143	12,058	-0.1	0.7	-0.6	12,228	12,177	12,215	11,881	2.9
Nondefense search and navigation equipment.....	17,493	17,527	17,493	-0.2	0.2	0.4	17,551	17,307	17,304	15,961	10.0
Defense search and navigation equipment.....	28,425	27,914	27,679	1.8	0.8	0.6	28,759	28,138	27,709	27,903	3.1
Electromedical, measuring, and control instruments.....	32,884	32,799	32,673	0.3	0.4	0.0	33,174	33,374	32,648	32,224	2.9
Electrical equipment, appliances, and components.....	17,424	17,356	17,208	0.4	0.9	1.1	17,655	17,594	17,403	17,337	1.8
Electric lighting equipment.....	1,340	1,334	1,345	0.4	-0.8	1.5	1,352	1,331	1,362	1,299	4.1
Household appliances.....	1,132	1,121	1,128	1.0	-0.6	-3.6	1,145	1,108	1,078	1,356	-15.6
Electrical equipment.....	8,063	8,052	8,005	0.1	0.6	0.1	8,120	8,077	8,056	7,846	3.5
Transportation equipment.....	783,032	776,925	776,866	0.8	0.0	-0.8	782,867	782,131	785,266	800,769	-2.2
Motor vehicle bodies, parts, and trailers.....	22,340	22,489	22,452	-0.7	0.2	-0.5	22,441	23,029	23,269	24,025	-6.6
Nondefense aircraft and parts.....	598,873	595,475	598,336	0.6	-0.5	-0.4	598,072	599,295	604,934	605,237	-1.2
Defense aircraft and parts.....	71,386	69,161	67,606	3.2	2.3	-0.9	71,778	69,678	68,625	66,919	7.3
Ships and boats.....	17,216	17,121	16,588	0.6	3.2	-9.9	17,286	17,373	16,857	27,458	-37.0
Furniture and related products.....	8,100	8,088	7,931	0.1	2.0	1.1	8,533	8,136	7,569	8,265	3.2

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

See note at end of Table 2 relating to survey error and revision.

Table 4. Value of Manufacturers' Inventories for Industry Groups¹

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

Industry	Seasonally Adjusted						Not Seasonally Adjusted				
	Monthly			Percent Change			Monthly				% Change
	Apr. 2016 ^b	Mar. 2016 ^c	Feb. 2016	Mar. - Apr.	Feb. - Mar.	Jan. - Feb.	Apr. 2016 ^b	Mar. 2016 ^c	Feb. 2016	Apr. 2015	
All manufacturing industries.....	620,782	621,311	621,755	-0.1	-0.1	-0.4	623,566	619,533	623,723	642,804	-3.0
Excluding transportation.....	495,466	496,146	496,238	-0.1	0.0	-0.4	497,819	494,701	497,376	517,583	-3.8
Excluding defense.....	595,063	595,868	595,905	-0.1	0.0	-0.3	597,792	594,178	597,995	617,242	-3.2
With unfilled orders.....	313,107	313,531	313,570	-0.1	0.0	-0.4	314,903	312,134	314,892	323,284	-2.6
Durable goods industries.....	384,494	385,062	385,682	-0.1	-0.2	-0.3	386,337	384,017	388,447	395,436	-2.3
Wood products.....	11,039	11,000	11,142	0.4	-1.3	-1.1	11,016	11,246	11,571	11,383	-3.2
Nonmetallic mineral products.....	12,903	12,908	12,876	0.0	0.2	-0.6	13,206	13,210	13,166	13,260	-0.4
Primary metals.....	31,567	31,870	32,015	-1.0	-0.5	-1.2	31,549	31,787	32,330	36,606	-13.8
Iron and steel mills.....	16,840	17,026	17,232	-1.1	-1.2	-1.9	16,700	16,954	17,452	21,028	-20.6
Aluminum and nonferrous metals.....	12,635	12,701	12,675	-0.5	0.2	-0.4	12,709	12,649	12,718	13,463	-5.6
Ferrous metal foundries.....	2,092	2,143	2,108	-2.4	1.7	0.0	2,140	2,184	2,160	2,115	1.2
Fabricated metal products.....	48,499	48,722	48,785	-0.5	-0.1	-0.3	48,994	49,150	48,979	50,380	-2.8
Machinery.....	66,134	66,637	66,678	-0.8	-0.1	-0.6	66,545	66,205	67,121	69,034	-3.6
Farm machinery.....	2,939	3,059	3,226	-3.9	-5.2	0.6	2,949	3,192	3,439	3,606	-18.2
Construction machinery.....	5,647	5,641	5,582	0.1	1.1	-3.8	5,710	5,682	5,614	6,347	-10.0
Mining, oil field, and gas field machinery.....	7,291	7,422	7,662	-1.8	-3.1	-1.2	7,394	7,436	7,700	8,457	-12.6
Industrial machinery.....	6,300	6,364	6,321	-1.0	0.7	-1.0	6,274	6,443	6,388	6,304	-0.5
Photographic equipment.....	1,603	1,567	1,557	2.3	0.6	1.0	1,555	1,483	1,590	1,464	6.2
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,448	4,527	4,539	-1.7	-0.3	-0.8	4,676	4,636	4,618	5,018	-6.8
Metalworking machinery.....	5,755	5,703	5,714	0.9	-0.2	0.2	5,760	5,607	5,657	5,813	-0.9
Turbines, generators, and other power transmission equipment.....	9,721	9,896	9,665	-1.8	2.4	-0.4	9,748	9,384	9,686	9,878	-1.3
Material handling equipment.....	4,583	4,551	4,502	0.7	1.1	1.1	4,547	4,475	4,382	4,207	8.1
Computers and electronic products ²	42,870	42,741	42,484	0.3	0.6	0.3	43,071	42,125	42,819	43,425	-0.8
Computers.....	1,555	1,579	1,521	-1.5	3.8	1.9	1,530	1,497	1,511	1,501	1.9
Computer storage devices.....	1,027	1,036	1,032	-0.9	0.4	-2.7	1,000	948	1,070	1,125	-11.1
Other peripheral equipment.....	1,038	1,041	1,061	-0.3	-1.9	-2.0	1,058	989	1,085	1,311	-19.3
Nondefense communications equipment.....	4,078	4,024	4,036	1.3	-0.3	-0.7	4,039	3,965	4,117	4,395	-8.1
Defense communications equipment.....	598	602	621	-0.7	-3.1	-6.6	598	602	621	737	-18.9
Audio and video equipment.....	757	743	746	1.9	-0.4	1.5	698	650	708	621	12.4
Electronic components.....	7,612	7,615	7,510	0.0	1.4	0.5	7,842	7,647	7,553	7,777	0.8
Nondefense search and navigation equipment.....	3,055	3,047	3,052	0.3	-0.2	-0.6	3,076	3,016	3,050	3,063	0.4
Defense search and navigation equipment.....	2,907	2,912	2,861	-0.2	1.8	-0.1	2,965	2,910	2,870	2,789	6.3
Electromedical, measuring and control instruments.....	14,165	14,219	14,078	-0.4	1.0	-0.2	14,209	13,974	14,140	14,827	-4.2
Electrical equipment, appliances, and components.....	16,329	16,261	16,239	0.4	0.1	-0.7	16,521	16,162	16,316	17,051	-3.1
Electric lighting equipment.....	1,982	1,976	1,972	0.3	0.2	-1.6	2,012	1,952	1,955	1,954	3.0
Household appliances.....	2,245	2,248	2,261	-0.1	-0.6	-0.5	2,284	2,241	2,276	2,263	0.9
Electrical equipment.....	4,988	4,968	4,945	0.4	0.5	-0.3	5,069	4,915	5,022	5,200	-2.5
Batteries.....	1,334	1,337	1,303	-0.2	-0.1	0.9	1,340	1,338	1,298	1,409	-4.9
Transportation equipment.....	125,316	125,165	125,517	0.1	-0.3	-0.2	125,747	124,832	126,347	125,221	0.4
Automobiles.....	4,318	4,347	4,452	-0.7	-2.4	-1.3	4,288	4,382	4,602	5,082	-15.6
Light trucks and utility vehicles.....	4,148	4,341	4,353	-4.4	-0.3	-1.8	4,094	4,479	4,511	3,908	4.8
Heavy duty trucks.....	2,142	2,251	2,179	-4.8	3.3	0.4	2,144	2,223	2,225	2,116	1.3
Motor vehicle bodies, parts, and trailers.....	23,277	23,545	23,688	-1.1	-0.6	0.2	23,374	23,725	23,938	24,203	-3.4
Nondefense aircraft and parts.....	64,688	64,292	64,126	0.6	0.3	0.3	65,184	63,851	64,519	63,290	3.0
Defense aircraft and parts.....	11,451	11,118	11,827	3.0	-6.0	-1.0	11,516	11,093	11,838	12,370	-6.9
Ships and boats.....	2,860	2,826	2,711	1.2	4.2	2.1	2,863	2,874	2,730	2,692	6.4
Furniture and related products.....	7,185	7,228	7,265	-0.6	-0.5	0.9	7,109	7,024	7,141	6,871	3.5
Miscellaneous durable goods.....	22,652	22,530	22,681	0.5	-0.7	-0.1	22,579	22,276	22,657	22,205	1.7
Nondurable goods industries.....	236,288	236,249	236,073	0.0	0.1	-0.4	237,229	235,516	235,276	247,368	-4.1
Food products.....	53,610	53,634	53,164	0.0	0.9	0.2	52,296	52,221	52,629	51,606	1.3
Grain and oilseed milling.....	5,950	5,867	5,912	1.4	-0.8	2.4	5,807	5,721	6,030	5,589	3.9
Dairy products.....	7,397	7,492	7,474	-1.3	0.2	-0.8	7,581	7,478	7,382	7,440	1.9
Meat, poultry, and seafood products.....	9,002	9,069	9,064	-0.7	0.1	-0.2	8,889	9,027	9,039	9,761	-8.9
Beverage and tobacco products.....	20,522	20,460	20,390	0.3	0.3	-0.4	20,617	20,568	20,567	20,391	1.1
Beverages.....	16,705	16,609	16,512	0.6	0.6	-0.3	16,828	16,668	16,540	16,463	2.2
Tobacco.....	3,817	3,851	3,878	-0.9	-0.7	-0.7	3,789	3,900	4,027	3,928	-3.5
Textile mills.....	3,135	3,132	3,130	0.1	0.1	0.5	3,148	3,129	3,136	3,103	1.5
Textile products.....	3,079	3,096	3,110	-0.5	-0.5	0.4	3,095	3,105	3,127	3,035	2.0
Apparel.....	2,578	2,554	2,546	0.9	0.3	0.3	2,482	2,430	2,516	2,149	15.5
Leather and allied products.....	819	802	803	2.1	-0.1	-0.1	796	770	786	811	-1.8
Paper products.....	16,405	16,394	16,429	0.1	-0.2	-0.2	16,456	16,471	16,593	16,464	0.0
Pulp, paper, and paperboard mills.....	6,700	6,710	6,719	-0.1	-0.1	-0.3	6,748	6,781	6,852	6,742	0.1
Paperboard containers.....	5,232	5,214	5,235	0.3	-0.4	0.2	5,241	5,233	5,290	5,232	0.2
Printing.....	6,031	6,041	6,057	-0.2	-0.3	0.8	6,057	5,972	5,988	5,793	4.6
Petroleum and coal products.....	24,836	24,506	24,523	1.3	-0.1	-4.1	25,234	23,468	22,710	36,077	-30.1
Petroleum refineries.....	20,211	19,911	19,948	1.5	-0.2	-5.3	20,619	18,909	17,990	31,263	-34.0
Chemical products.....	80,189	80,474	80,696	-0.4	-0.3	-0.2	81,450	81,728	81,630	81,956	-0.6
Pesticides, fertilizers, and other agricultural chemicals.....	4,109	4,222	4,421	-2.7	-4.5	0.3	4,238	4,553	4,921	4,733	-10.5
Pharmaceuticals and medicines.....	32,096	32,161	31,968	-0.2	0.6	0.1	32,746	32,737	32,218	30,961	5.8
Paints, coatings, and adhesives.....	3,593	3,584	3,599	0.3	-0.4	0.1	3,770	3,728	3,717	3,833	-1.6
Plastics and rubber products.....	25,084	25,156	25,225	-0.3	-0.3	0.4	25,598	25,654	25,594	25,983	-1.5

^b Preliminary^c 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 Estimates of inventories for the semiconductor industry data are included in computers and electronic products, and all other applicable aggregate totals.

See note at end of Table 2 relating to survey error and revision.

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

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

Industry	Seasonally Adjusted						Not Seasonally Adjusted							% Change ⁶
	Monthly			Percent Change			Monthly			Year to date				
	Apr. 2016 ^a	Mar. 2016 ^f	Feb. 2016	Mar. - Apr.	Feb. - Mar.	Jan. - Feb.	Apr. 2016 ^a	Mar. 2016 ^f	Feb. 2016	Apr. 2015	2016 ^a	2015		
SHIPMENTS														
All manufacturing industries.....	456,785	454,540	453,120	0.5	0.3	-0.6	453,739	486,063	436,362	475,879	1,785,545	1,836,916	-2.8	
Construction materials and supplies.....	46,808	46,823	46,574	0.0	0.5	0.4	47,518	47,642	42,785	46,997	177,941	172,956	2.9	
Information technology.....	22,505	22,118	22,161	1.7	-0.2	-1.2	20,393	24,949	20,278	20,521	84,300	83,846	0.5	
Computers and related products.....	1,910	1,778	1,911	7.4	-7.0	-6.0	1,504	2,266	1,418	1,754	6,633	7,773	-14.7	
Motor vehicle and parts.....	56,087	54,378	56,319	3.1	-3.4	0.0	56,233	60,906	57,756	55,101	223,833	209,564	6.8	
Capital goods.....	81,231	81,188	81,168	0.1	0.0	-2.2	77,244	91,449	76,672	82,753	314,580	327,839	-4.0	
Nondefense capital goods ³	71,634	71,191	71,126	0.6	0.1	-3.0	68,429	79,895	66,823	73,996	276,662	293,077	-5.6	
Excluding aircraft.....	63,228	63,001	62,970	0.4	0.0	-1.6	61,166	69,768	60,112	64,719	246,623	258,099	-4.4	
Defense capital goods ⁴	9,597	9,997	10,042	-4.0	-0.4	3.4	8,815	11,554	9,849	8,757	37,918	34,762	9.1	
Consumer goods.....	183,322	181,536	180,385	1.0	0.6	-0.7	181,170	189,431	174,876	194,960	712,844	750,173	-5.0	
Consumer durable goods.....	38,925	37,905	39,401	2.7	-3.8	-0.6	38,660	42,554	40,255	39,097	155,517	149,188	4.2	
Consumer nondurable goods.....	144,397	143,631	140,984	0.5	1.9	-0.8	142,510	146,877	134,621	155,863	557,327	600,985	-7.3	
NEW ORDERS														
All manufacturing industries ⁵	460,508	451,814	444,277	1.9	1.7	-1.9	453,232	482,868	429,795	465,915	1,776,017	1,817,916	-2.3	
Construction materials and supplies.....	46,959	46,869	46,698	0.2	0.4	0.2	47,940	48,424	43,415	47,287	180,341	174,754	3.2	
Information technology.....	23,271	22,685	22,857	2.6	-0.8	-1.4	21,509	26,572	21,801	21,624	89,668	88,908	0.9	
Computers and related products.....	1,903	1,775	1,911	7.2	-7.1	-4.5	1,497	2,263	1,418	1,834	6,591	7,927	-16.9	
Motor vehicle and parts.....	55,938	54,415	56,212	2.8	-3.2	0.8	55,645	60,666	57,833	54,653	222,715	209,594	6.3	
Capital goods.....	87,090	81,189	75,317	7.3	7.8	-10.5	80,938	91,035	71,540	77,742	315,133	321,658	-2.0	
Nondefense capital goods ³	73,960	68,490	68,288	8.0	0.3	-7.9	68,686	75,788	64,159	71,508	271,730	288,900	-5.9	
Excluding aircraft.....	62,716	63,109	62,924	-0.6	0.3	-2.1	61,573	71,317	62,578	65,484	253,715	263,701	-3.8	
Defense capital goods ⁴	13,130	12,699	7,029	3.4	80.7	-29.7	12,252	15,247	7,381	6,234	43,403	32,758	32.5	
Consumer goods.....	183,279	181,543	180,398	1.0	0.6	-0.8	181,147	189,504	175,007	195,173	713,200	750,495	-5.0	
Consumer durable goods.....	38,882	37,912	39,414	2.6	-3.8	-0.7	38,637	42,627	40,386	39,310	155,873	149,510	4.3	
Consumer nondurable goods.....	144,397	143,631	140,984	0.5	1.9	-0.8	142,510	146,877	134,621	155,863	557,327	600,985	-7.3	
UNFILLED ORDERS														
All manufacturing industries ⁵	1,137,282	1,130,702	1,130,286	0.6	0.0	-0.5	1,142,770	1,140,027	1,140,305	1,161,832	(X)	(X)	-1.6	
Construction materials and supplies.....	46,193	46,042	45,996	0.3	0.1	0.3	46,707	46,285	45,503	45,906	(X)	(X)	1.7	
Information technology.....	123,353	122,587	122,020	0.6	0.5	0.6	124,901	123,785	122,162	118,022	(X)	(X)	5.8	
Computers and related products.....	2,405	2,412	2,415	-0.3	-0.1	0.0	2,405	2,412	2,415	2,434	(X)	(X)	-1.2	
Motor vehicle and parts.....	22,340	22,489	22,452	-0.7	0.2	-0.5	22,441	23,029	23,269	24,025	(X)	(X)	-6.6	
Capital goods.....	848,010	842,151	842,150	0.7	0.0	-0.7	851,429	847,735	848,149	876,429	(X)	(X)	-2.9	
Nondefense capital goods ³	707,331	705,005	707,706	0.3	-0.4	-0.4	709,540	709,283	713,390	732,472	(X)	(X)	-3.1	
Excluding aircraft.....	221,520	222,032	221,924	-0.2	0.0	0.0	224,778	224,371	222,822	231,381	(X)	(X)	-2.9	
Defense capital goods ⁴	140,679	137,146	134,444	2.6	2.0	-2.2	141,889	138,452	134,759	143,957	(X)	(X)	-1.4	
Consumer goods.....	4,335	4,378	4,371	-1.0	0.2	0.3	4,548	4,571	4,498	4,650	(X)	(X)	-2.2	
Consumer durable goods.....	4,335	4,378	4,371	-1.0	0.2	0.3	4,548	4,571	4,498	4,650	(X)	(X)	-2.2	
TOTAL INVENTORIES														
All manufacturing industries.....	620,782	621,311	621,755	-0.1	-0.1	-0.4	623,566	619,533	623,723	642,804	(X)	(X)	-3.0	
Construction materials and supplies.....	64,472	64,645	64,852	-0.3	-0.3	-0.6	65,501	65,680	65,889	67,571	(X)	(X)	-3.1	
Information technology.....	36,749	36,688	36,477	0.2	0.6	-0.5	36,729	35,965	36,717	38,276	(X)	(X)	-4.0	
Computers and related products.....	3,620	3,656	3,614	-1.0	1.2	-0.6	3,588	3,434	3,666	3,937	(X)	(X)	-8.9	
Motor vehicle and parts.....	33,885	34,484	34,672	-1.7	-0.5	-0.2	33,900	34,809	35,276	35,309	(X)	(X)	-4.0	
Capital goods.....	193,230	193,177	193,151	0.0	0.0	-0.4	193,999	191,277	193,554	196,813	(X)	(X)	-1.4	
Nondefense capital goods ³	172,400	172,615	172,258	-0.1	0.2	-0.2	173,179	170,778	172,794	176,049	(X)	(X)	-1.6	
Excluding aircraft.....	118,830	119,245	119,103	-0.3	0.1	-0.4	119,106	117,772	119,502	123,108	(X)	(X)	-3.3	
Defense capital goods ⁴	20,830	20,562	20,893	1.3	-1.6	-2.0	20,820	20,499	20,760	20,764	(X)	(X)	0.3	
Consumer goods.....	175,946	175,827	175,317	0.1	0.3	-0.6	175,331	173,715	173,767	182,605	(X)	(X)	-4.0	
Consumer durable goods.....	29,359	29,551	29,746	-0.6	-0.7	-0.2	29,083	29,357	30,171	28,862	(X)	(X)	0.8	
Consumer nondurable goods.....	146,587	146,276	145,571	0.2	0.5	-0.7	146,248	144,358	143,596	153,743	(X)	(X)	-4.9	

X Not Applicable ⁹ Preliminary 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 Topical series are regroupings of the separate industry categories.

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

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

⁵ Estimates and percent changes exclude semiconductor industry data.

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

See note at end of Table 2 relating to survey error and revision.

Table 6. Value of Manufacturers' Inventories, by Stage of Fabrication, by Industry Group¹

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

Industry	Seasonally Adjusted						Not Seasonally Adjusted				
	Monthly			Percent Change			Monthly				% Change
	Apr. 2016 ^p	Mar. 2016 ^f	Feb. 2016	Mar. - Apr.	Feb. - Mar.	Jan. - Feb.	Apr. 2016 ^p	Mar. 2016 ^f	Feb. 2016	Apr. 2015	Apr. 2016/ 2015
<u>MATERIALS AND SUPPLIES</u>											
All manufacturing industries.....	206,849	207,325	206,717	-0.2	0.3	-0.3	206,787	206,974	207,676	213,825	-3.3
Durable goods industries.....	128,483	128,802	128,728	-0.2	0.1	-0.6	128,151	128,370	129,469	132,684	-3.4
Wood products.....	4,573	4,501	4,520	1.6	-0.4	-0.3	4,334	4,452	4,667	4,557	-4.9
Nonmetallic mineral products.....	5,259	5,249	5,226	0.2	0.4	-1.0	5,281	5,271	5,246	5,371	-1.7
Primary metals.....	12,541	12,663	12,724	-1.0	-0.5	0.1	12,276	12,481	12,790	13,682	-10.3
Fabricated metal products.....	17,603	17,778	17,729	-1.0	0.3	-0.4	17,619	17,843	17,702	18,515	-4.8
Machinery.....	24,633	24,791	24,802	-0.6	0.0	-0.4	24,772	24,522	24,778	26,487	-6.5
Computers and electronic products.....	17,295	17,084	16,975	1.2	0.6	1.0	17,377	17,033	17,066	17,158	1.3
Electrical equipment, appliances, and components.....	6,570	6,548	6,524	0.3	0.4	-0.9	6,602	6,496	6,571	7,154	-7.7
Transportation equipment.....	29,126	29,329	29,334	-0.7	0.0	-1.7	29,042	29,523	29,821	29,094	-0.2
Furniture and related products.....	3,602	3,610	3,639	-0.2	-0.8	-1.1	3,588	3,560	3,610	3,512	2.2
Miscellaneous products.....	7,281	7,249	7,255	0.4	-0.1	-0.8	7,260	7,189	7,218	7,154	1.5
Nondurable goods industries.....	78,366	78,523	77,989	-0.2	0.7	0.0	78,636	78,604	78,207	81,141	-3.1
Food products.....	18,161	18,348	17,982	-1.0	2.0	0.3	17,862	18,053	17,920	17,949	-0.5
Beverage and tobacco products.....	4,958	4,967	4,947	-0.2	0.4	-0.5	5,061	5,099	5,118	5,084	-0.5
Textiles.....	1,163	1,165	1,174	-0.2	-0.8	-0.1	1,159	1,169	1,175	1,158	0.1
Textile products.....	1,066	1,073	1,073	-0.7	0.0	0.3	1,067	1,076	1,075	1,082	-1.4
Apparel.....	718	715	720	0.4	-0.7	0.8	702	692	699	672	4.5
Leather and allied products.....	241	239	242	0.8	-1.2	1.3	236	232	238	239	-1.3
Paper products.....	8,326	8,332	8,360	-0.1	-0.3	-0.3	8,333	8,420	8,473	8,373	-0.5
Printing.....	2,787	2,778	2,812	0.3	-1.2	-1.3	2,787	2,760	2,786	2,869	-2.9
Petroleum and coal products.....	5,707	5,806	5,633	-1.7	3.1	-3.2	5,870	5,627	5,317	8,372	-29.9
Chemical products.....	25,272	25,121	25,063	0.6	0.2	1.2	25,517	25,372	25,355	24,924	2.4
Plastics and rubber products.....	9,967	9,979	9,983	-0.1	0.0	-0.7	10,042	10,104	10,051	10,419	-3.6
<u>WORK IN PROCESS</u>											
All manufacturing industries.....	193,453	192,987	193,269	0.2	-0.1	-0.1	194,549	192,408	193,608	200,623	-3.0
Durable goods industries.....	146,628	147,088	147,071	-0.3	0.0	-0.2	147,459	146,194	147,274	150,404	-2.0
Wood products.....	2,195	2,216	2,233	-0.9	-0.8	-0.9	2,228	2,260	2,275	2,122	5.0
Nonmetallic mineral products.....	1,466	1,469	1,477	-0.2	-0.5	-0.1	1,514	1,529	1,539	1,480	2.3
Primary metals.....	9,300	9,394	9,352	-1.0	0.4	-1.8	9,374	9,354	9,401	11,338	-17.3
Fabricated metal products.....	12,739	12,853	12,908	-0.9	-0.4	0.4	12,746	12,852	12,870	13,156	-3.1
Machinery.....	18,502	18,686	18,762	-1.0	-0.4	-2.0	18,465	18,477	18,898	18,814	-1.9
Computers and electronic products.....	13,706	13,794	13,806	-0.6	-0.1	-1.1	13,896	13,641	13,852	14,548	-4.5
Electrical equipment, appliances, and components.....	3,504	3,464	3,455	1.2	0.3	-0.4	3,559	3,433	3,456	3,618	-1.6
Transportation equipment.....	80,279	80,282	80,076	0.0	0.3	0.4	80,747	79,771	79,983	80,618	0.2
Furniture and related products.....	1,095	1,094	1,119	0.1	-2.2	5.4	1,091	1,079	1,110	1,031	5.8
Miscellaneous products.....	3,842	3,836	3,883	0.2	-1.2	0.8	3,839	3,798	3,890	3,679	4.3
Nondurable goods industries.....	46,825	45,899	46,198	2.0	-0.6	0.2	47,090	46,214	46,334	50,219	-6.2
Food products.....	6,057	5,940	6,002	2.0	-1.0	0.7	5,672	5,746	6,150	5,381	5.4
Beverage and tobacco products.....	7,626	7,572	7,522	0.7	0.7	0.8	7,543	7,626	7,691	7,371	2.3
Textiles.....	689	687	681	0.3	0.9	0.4	693	680	678	700	-1.0
Textile products.....	448	445	447	0.7	-0.4	1.1	457	447	452	432	5.8
Apparel.....	326	326	332	0.0	-1.8	0.9	322	305	325	333	-3.3
Leather and allied products.....	104	99	99	5.1	0.0	-5.7	105	99	99	98	7.1
Paper products.....	1,281	1,270	1,277	0.9	-0.5	0.0	1,280	1,276	1,288	1,279	0.1
Printing.....	1,613	1,640	1,628	-1.6	0.7	4.6	1,612	1,617	1,626	1,386	16.3
Petroleum and coal products.....	7,603	7,312	7,484	4.0	-2.3	-3.9	7,913	7,207	7,044	11,929	-33.7
Chemical products.....	18,081	17,607	17,713	2.7	-0.6	0.9	18,424	18,142	17,921	18,278	0.8
Plastics and rubber products.....	2,997	3,001	3,013	-0.1	-0.4	2.3	3,069	3,069	3,060	3,032	1.2
<u>FINISHED GOODS</u>											
All manufacturing industries.....	220,480	220,999	221,769	-0.2	-0.3	-0.7	222,230	220,151	222,439	228,356	-2.7
Durable goods industries.....	109,383	109,172	109,883	0.2	-0.6	-0.3	110,727	109,453	111,704	112,348	-1.4
Wood products.....	4,271	4,283	4,389	-0.3	-2.4	-2.0	4,454	4,534	4,629	4,704	-5.3
Nonmetallic mineral products.....	6,178	6,190	6,173	-0.2	0.3	-0.4	6,411	6,410	6,381	6,409	0.0
Primary metals.....	9,726	9,813	9,939	-0.9	-1.3	-2.2	9,899	9,952	10,139	11,586	-14.6
Fabricated metal products.....	18,157	18,091	18,148	0.4	-0.3	-0.8	18,629	18,455	18,407	18,709	-0.4
Machinery.....	22,999	23,160	23,114	-0.7	0.2	0.5	23,308	23,206	23,445	23,733	-1.8
Computers and electronic products.....	11,869	11,863	11,703	0.1	1.4	0.9	11,798	11,451	11,901	11,719	0.7
Electrical equipment, appliances, and components.....	6,255	6,249	6,260	0.1	-0.2	-0.5	6,360	6,233	6,289	6,279	1.3
Transportation equipment.....	15,911	15,554	16,107	2.3	-3.4	-0.4	15,958	15,538	16,543	15,509	2.9
Furniture and related products.....	2,488	2,524	2,507	-1.4	0.7	2.0	2,430	2,385	2,421	2,328	4.4
Miscellaneous products.....	11,529	11,445	11,543	0.7	-0.8	0.1	11,480	11,289	11,549	11,372	0.9
Nondurable goods industries.....	111,097	111,827	111,886	-0.7	-0.1	-1.0	111,503	110,698	110,735	116,008	-3.9
Food products.....	29,392	29,346	29,180	0.2	0.6	0.0	28,762	28,422	28,559	28,276	1.7
Beverage and tobacco products.....	7,938	7,921	7,921	0.2	0.0	-1.4	8,013	7,843	7,758	7,936	1.0
Textiles.....	1,283	1,280	1,275	0.2	0.4	1.1	1,296	1,280	1,283	1,245	4.1
Textile products.....	1,565	1,578	1,590	-0.8	-0.8	0.3	1,571	1,582	1,600	1,521	3.3
Apparel.....	1,534	1,513	1,494	1.4	1.3	-0.1	1,458	1,433	1,492	1,144	27.4
Leather and allied products.....	474	464	462	2.2	0.4	0.4	455	439	449	474	-4.0
Paper products.....	6,798	6,792	6,792	0.1	0.0	-0.1	6,843	6,775	6,832	6,812	0.5
Printing.....	1,631	1,623	1,617	0.5	0.4	0.9	1,658	1,595	1,576	1,538	7.8
Petroleum and coal products.....	11,526	11,388	11,406	1.2	-0.2	-4.8	11,451	10,634	10,349	15,776	-27.4
Chemical products.....	36,836	37,746	37,920	-2.4	-0.5	-1.6	37,509	38,214	38,354	38,754	-3.2
Plastics and rubber products.....	12,120	12,176	12,229	-0.5	-0.4	0.8	12,487	12,481	12,483	12,532	-0.4

^p Preliminary^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.

See note at end of Table 2 relating to survey error and revisions.

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.]

Industry	Inventory/Shipments ratio				Unfilled Orders/Shipments ratio ²			
	Apr 2016 ³	Mar 2016 ¹	Feb 2016	Jan 2016	Apr 2016 ³	Mar 2016 ¹	Feb 2016	Jan 2016
All manufacturing industries ³	1.36	1.37	1.37	1.37	(X)	(X)	(X)	(X)
Durable goods industries ³	1.65	1.67	1.66	1.65	6.94	6.93	6.91	6.88
Wood products.....	1.34	1.30	1.35	1.39	(X)	(X)	(X)	(X)
Nonmetallic mineral products.....	1.30	1.30	1.29	1.32	(X)	(X)	(X)	(X)
Primary metals.....	1.78	1.80	1.81	1.82	1.83	1.82	1.80	1.77
Fabricated metal products.....	1.62	1.65	1.65	1.64	2.54	2.57	2.58	2.56
Machinery.....	2.17	2.18	2.18	2.16	3.39	3.40	3.43	3.41
Computers and electronic products ³	1.63	1.63	1.61	1.59	5.93	5.95	5.95	5.90
Electrical equipment, appliances, and components.....	1.73	1.74	1.74	1.70	2.02	2.04	2.01	1.94
Transportation equipment.....	1.55	1.57	1.53	1.52	14.88	14.77	14.64	14.62
Furniture and related products.....	1.13	1.14	1.17	1.15	1.52	1.51	1.51	1.48
Miscellaneous products.....	1.71	1.71	1.73	1.71	(X)	(X)	(X)	(X)
Nondurable goods industries.....	1.05	1.06	1.07	1.07	(X)	(X)	(X)	(X)
Food products.....	0.83	0.83	0.83	0.82	(X)	(X)	(X)	(X)
Beverage and tobacco products.....	1.67	1.67	1.72	1.71	(X)	(X)	(X)	(X)
Textiles.....	1.25	1.24	1.25	1.23	(X)	(X)	(X)	(X)
Textile products.....	1.56	1.58	1.60	1.56	(X)	(X)	(X)	(X)
Apparel.....	2.46	2.46	2.50	2.51	(X)	(X)	(X)	(X)
Leather and allied products.....	2.47	2.40	2.38	2.30	(X)	(X)	(X)	(X)
Paper products.....	1.08	1.08	1.08	1.08	(X)	(X)	(X)	(X)
Printing.....	0.85	0.84	0.84	0.84	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.73	0.74	0.79	0.82	(X)	(X)	(X)	(X)
Chemical products.....	1.20	1.21	1.22	1.22	(X)	(X)	(X)	(X)
Plastics and rubber products.....	1.31	1.32	1.33	1.33	(X)	(X)	(X)	(X)

X Not Applicable ¹ Preliminary ² Revised data due to late receipts and concurrent seasonal adjustment.

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.

Table 8. Revisions to Previously Published Monthly Percent Changes ¹

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

Industry	Shipments		New Orders		Unfilled Orders		Inventories	
	Apr ² 2016	Apr ³ 2015-Mar 2016	Apr ² 2016	Apr ³ 2015-Mar 2016	Apr ² 2016	Apr ³ 2015-Mar 2016	Apr ² 2016	Apr ³ 2015-Mar 2016
All manufacturing industries.....	(X)	0.1	(X)	0.3	(X)	0.1	(X)	0.2
Durable goods industries.....	-0.1	0.2	0.0	0.5	0.0	0.1	0.1	0.1
Wood products.....	(X)	0.6	(X)	(NA)	(X)	(NA)	(X)	0.3
Nonmetallic mineral products.....	(X)	0.4	(X)	(NA)	(X)	(NA)	(X)	0.3
Primary metals.....	-0.1	0.5	-0.1	0.7	0.1	0.4	-0.2	0.4
Fabricated metal products.....	0.0	0.2	0.5	0.3	0.2	0.2	-0.1	0.2
Machinery.....	-0.1	0.7	0.0	0.8	0.1	0.1	-0.1	0.2
Computers and electronic products.....	0.4	0.3	0.5	0.6	0.0	0.1	0.0	0.3
Electrical equipment, appliances, and components.....	-0.1	0.4	0.0	1.1	0.1	0.4	0.0	0.2
Transportation equipment.....	-0.2	0.3	-0.2	0.9	0.0	0.1	0.2	0.2
Furniture and related products.....	(X)	0.4	(X)	0.5	(X)	0.4	(X)	0.4
Miscellaneous products.....	(X)	0.5	(X)	0.5	(X)	0.3	(X)	0.3
Nondurable goods industries.....	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.2
Food products.....	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.2
Beverage and tobacco products.....	(X)	0.6	(X)	(NA)	(X)	(NA)	(X)	0.2
Textiles.....	(X)	0.5	(X)	(NA)	(X)	(NA)	(X)	0.3
Textile products.....	(X)	1.0	(X)	(NA)	(X)	(NA)	(X)	0.3
Apparel.....	(X)	0.9	(X)	(NA)	(X)	(NA)	(X)	0.5
Leather and allied products.....	(X)	1.9	(X)	(NA)	(X)	(NA)	(X)	0.5
Paper products.....	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.1
Printing.....	(X)	0.4	(X)	(NA)	(X)	(NA)	(X)	0.4
Petroleum and coal products.....	(X)	0.9	(X)	(NA)	(X)	(NA)	(X)	1.2
Chemical products.....	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.2
Plastics and rubber products.....	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.2

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.

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 change revisions for the durable goods industries are shown in the advance report for the month.

Survey Description

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 4,800 reporting units that represent approximately 3,000 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 61 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 54 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 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: <http://www.census.gov/m3>.

Benchmark notice

Revised historical data from the Manufacturers' Shipments, Inventories, and Orders (M3) Survey were issued on May 18, 2016. These revisions result from:

- benchmarking the 2008-2011 Annual Survey of Manufactures (ASM) shipments and inventories data to the revised 2012 Economic Census data on a 2007 North American Industry Classification System (NAICS) basis;
- benchmarking the M3 shipments and inventories data to the 2014 ASM and revised 2013 ASM data, as well as the revised 2012 Economic Census data, on a 2012 NAICS basis, and ASM benchmarks for prior years on a 2007 NAICS basis;
- incorporating the unfilled orders to shipments ratios obtained from the 2014/2013 Manufacturers' Unfilled Orders (M3UFO) Survey by applying these ratios to the respective ASM shipments data, as well as incorporating revised unfilled orders to shipments ratios for prior years by applying them to the respective Census or 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 spanned the seasonally adjusted data for January 1997 through March 2016 and the data not seasonally adjusted for January 2001 through March 2016. An updated Press Release contains revised monthly tables for January 2016 through March 2016. Please call M3 staff on (301) 763-4832 with any questions.