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Adriana Stoica Economic Indicators Division (301) 763-4832 M3-2 (16)-07 CB 16-147

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

Summary. New orders for manufactured goods in July, up following two consecutive monthly decreases, increased \$8.4 billion or 1.9 percent to \$454.8 billion, the U.S. Census Bureau reported today. This followed a 1.8 percent June decrease. Shipments, down following four consecutive monthly increases, decreased \$0.9 billion or 0.2 percent to \$458.9 billion. This followed a 0.6 percent June increase. Unfilled orders, down two consecutive months, decreased \$1.0 billion or 0.1 percent to \$1,126.3 billion. This followed a 0.9 percent June decrease. The unfilled orders-to-shipments ratio was 6.79, down from 6.81 in June. Inventories, up following twelve consecutive monthly decreases, increased \$0.9 billion or 0.1 percent to \$620.3 billion. This followed a virtually unchanged June decrease. The inventories-to-shipments ratio was 1.35, unchanged from June.

New Orders. New orders for manufactured durable goods in July, up following two consecutive monthly decreases, increased \$9.6 billion or 4.4 percent to \$228.6 billion, virtually unchanged from the previously published increase. This followed a 4.3 percent June decrease. Transportation equipment, also up following two consecutive monthly decreases, led the increase, \$7.6 billion or 10.6 percent to \$78.9 billion. New orders for manufactured nondurable goods decreased \$1.1 billion or 0.5 percent to \$226.1 billion.

Shipments. Shipments of manufactured durable goods in July, up three of the last four months, increased \$0.3 billion or 0.1 percent to \$232.7 billion, down from the previously published 0.2 percent increase. This followed a 0.4 percent June increase. Computers and electronic products, up four consecutive months, drove the increase, \$0.5 billion or 1.7 percent to \$27.1 billion. Shipments of manufactured nondurable goods, down following four consecutive monthly increases, decreased \$1.1 billion or 0.5 percent to \$226.1 billion. This followed a 0.8 percent June increase. Petroleum and coal products, also down following four consecutive monthly increases, drove the decrease, \$1.5 billion or 4.0 percent to \$34.8 billion.

Unfilled Orders. Unfilled orders for manufactured durable goods in July, down two consecutive months, decreased \$1.0 billion or 0.1 percent to \$1,126.3 billion, virtually unchanged from the previously published decrease. This followed a 0.9 percent June decrease. Transportation equipment, also down two consecutive months, drove the decrease, \$2.1 billion or 0.3 percent to \$772.0 billion.

Inventories. Inventories of manufactured durable goods in July, up following six consecutive monthly decreases, increased \$1.4 billion or 0.4 percent to \$383.1 billion, up from the previously published 0.3 percent increase. This followed a 0.1 percent June decrease. Transportation equipment, up following five consecutive monthly decreases, led the increase, \$0.5 billion or 0.4 percent to \$123.7 billion. Inventories of manufactured nondurable goods, down following four consecutive monthly increases, decreased \$0.5 billion or 0.2 percent to \$237.2 billion. This followed a 0.1 percent June increase. Petroleum and coal products, down following three consecutive monthly increases, led the decrease, \$0.5 billion or 1.9 percent to \$24.6 billion. By stage of fabrication, July materials and supplies increased 1.4 percent in durable goods and decreased 0.2 percent in nondurable goods. Work in process decreased 0.5 percent in durable goods and decreased 1.1 percent in nondurable goods. Finished goods increased 0.3 percent in durable goods and increased 0.1 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 August is scheduled for release on September 28, 2016 at 8:30 a.m. EDT and the Full Report on October 5, 2016 at 10:00 a.m. EDT. See back page for survey description.

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"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 do	llars and		l on data asonally A		e Manu	tacture	rs' Shipme	ents, Inve		nd Orders Seasonally			
		Monthly	asonany A	·	cent Cha	inge		Mo	nthly	Seasonally /		Year to date	
Industry	July 2016 ^p	June 2016 ^r	May 2016	June - July	May - June	Apr May	July 2016 ^p	June 2016 ^r	May 2016	July 2015	2016 ^p	2015	% Change 2016/ 2015
All manufacturing industries Excluding transportation Excluding defense	458,864 377,912 446,285 165,806	459,724 378,668 447,298 165,483	456,889 376,840 444,819 165,049	-0.2 -0.2 -0.2 0.2	0.6	0.1 0.2 0.0 0.7	437,519 369,869 426,295 152,841	490,264 400,567 476,363 181,906	465,958 385,523 454,279 166,603	462,331 389,194 450,789 159,946	3,178,930 2,621,111 3,095,709 1,141,783	3,282,559 2,730,330 3,201,799 1,156,326	-3.2 -4.0 -3.3 -1.3
Durable goods industries	232,726	232,448	231,421	0.1	0.4	-0.3	213,497	254,143	233,408	225,288	1,613,086	1,631,198	-1.1
Wood products Nonmetallic mineral products Primary metals	8,269 9,849 17,950	8,148 9,947 17,862	8,169 9,850 17,614	1.5 -1.0 0.5	1.0	-0.6 -0.4 -0.1	8,544 10,133 17,212	9,082 10,960 18,795	8,915 10,242 18,002	8,251 10,302 18,678	58,034 68,266 125,331	56,710 65,268 140,510	2.3 4.6 -10.8
Iron and steel mills Aluminum and nonferrous metals Ferrous metal foundries	8,254 8,241 1,455	8,137 8,239 1,486	8,025 8,093 1,496	1.4 0.0 -2.1	-0.7	0.1 -0.3 0.1	7,941 7,924 1,347	8,466 8,649 1,680	8,200 8,289 1,513	8,751 8,351 1,576	56,571 58,182 10,578	65,977 62,991 11,542	-14.3 -7.6 -8.4
Fabricated metal products	30,072 29,704	29,826 29,992	29,973 30,142	0.8 -1.0	-0.5	-0.1 -1.3	29,135 27,874	31,889 32,755	30,700 30,827	29,577 31,374	208,397 213,316	207,632 228,065	0.4 -6.5
Farm machinery	1,758 2,509 825	1,834 2,708 862	1,808 2,905 897	-4.1 -7.3 -4.3		2.4 -2.4 -6.0	1,645 2,342 785	1,807 2,896 903	1,935 2,939 863	2,010 3,671 1,583	13,689 19,833 6,949	15,752 26,585 12,959	-13.1 -25.4 -46.4
Industrial machinery	2,355 422	2,331 425	2,305 445	1.0 -0.7	1.1 -4.5	-9.0 0.5	2,230 371	2,677 468	2,224 410	2,313 404	16,554 2,881	16,013 2,859	3.4 0.8
and refrigeration equipment Metalworking machinery Turbines, generators, and other	3,337 3,128	3,338 3,056	3,329 3,062	0.0 2.4	-0.2	-2.1 -0.4	3,557 2,735	4,234 3,271	3,604 3,022	3,974 2,601	24,322 20,577	25,086 18,281	-3.0 12.6
power transmission equipment Material handling equipment Computers and electronic products ²	4,123 3,010 27,107	4,073 3,021 26,645	4,190 2,943 26,541	1.2 -0.4 1.7	-2.8 2.7 0.4	3.0 -1.9 0.6	3,985 2,800 25,431	4,188 3,151 30,084	4,336 2,957 25,315	4,138 2,692 24,758	28,565 20,524 180,924	31,686 17,553 175,385	-9.8 16.9 3.2
Computers. Computer storage devices Other peripheral equipment Nondefense communications	599 691 648	560 570 620	597 590 667	7.0 21.2 4.5	-3.4	-4.6 -5.3 0.3	552 442 533	739 918 874	567 434 622	737 338 654	4,081 3,739 4,493	5,453 3,611 5,688	-25.2 3.5 -21.0
equipment Defense communications equipment Audio and video equipment	3,095 290 362	3,276 282 359	3,091 285 361	-5.5 2.8 0.8	-1.1	3.2 5.2 -0.8	2,708 271 323	4,052 280 345	2,967 282 343	2,730 270 291	20,895 1,945 2,229	20,939 2,157 1,469	-0.2 -9.8 51.7
Electronic components Nondefense search and navigation equipment	4,773 1,402	4,666 1,367	4,746 1,325	2.3 2.6		0.8 -2.9	4,880 1,188	5,346 1,528	4,834 1,346	4,670 1,128	32,605 9,355	28,998 8,458	12.4 10.6
Defense search and navigation equipment	2,663	2,575	2,556	3.4	0.7	1.1	2,449	2,850	2,474	2,351	17,149	16,890	1.5
Electromedical, measuring, and control instruments	9,174	9,019	9,060	1.7	-0.5	0.6	8,270	10,262	8,734	7,842	61,232	57,568	6.4
Electrical equipment, appliances, and components Electric lighting equipment Household appliances	9,517 1,096 1,360	9,453 1,079 1,382	9,434 1,073 1,382	0.7 1.6 -1.6	0.0	-0.3 0.1 2.4	9,086 1,066 1,267	10,290 1,072 1,501	9,504 1,017 1,439	9,971 1,041 1,485	65,408 7,248 9,563	71,266 6,876 10,886	-8.2 5.4 -12.2
Electrical equipment. Batteries. Transportation equipment. Automobiles.	2,883 790 80,952 9,430	2,911 790 81,056 9,603	2,918 780 80,049 9,269	-1.0 0.0 -0.1 -1.8	1.3 1.3	-1.0 -2.7 -0.4 -6.4	2,660 680 67,650 7,193	3,384 813 89,697 10,552	2,952 728 80,435 9,308	3,107 745 73,137 8,818	20,505 5,208 557,819 67,962	22,734 5,575 552,229 73,914	-9.8 -6.6 1.0 -8.1
Light trucks and utility vehicles	14,929 2,174 28,309	14,610 2,221 28,575	14,364 2,278 27,680	2.2 -2.1 -0.9	1.7 -2.5 3.2	-7.2 -3.8 -0.4	11,793 2,070	15,676 2,453 30,502	14,268 2,323 28,624	13,173 2,747 23,795	103,907 16,167 194,694	99,177 18,928 178,257	4.8 -14.6 9.2
and trailers Nondefense aircraft and parts Defense aircraft and parts Ships and boats Furniture and related products	14,094 4,040 3,146	13,862 4,156 2,853	14,543 4,298 2,974	1.7 -2.8 10.3	-4.7 -3.3	-0.4 6.8 20.7 -1.9 0.0		16,843 4,926 3,037 6,481	14,031 4,115 3,076	12,082 4,546 2,634	92,663 28,450 20,963	95,109 31,937 19,062	-2.6 -10.9 10.0
Miscellaneous durable goods	6,284 13,022	6,272 13,247	6,302 13,347	-1.7	-0.7	-0.3	6,344 12,088	14,110	6,261 13,207	6,405 12,835	43,763 91,828	41,780 92,353	4.7 -0.6
Nondurable goods industries Food products	226,138 65,319	64,993	225,468 64,856	-0.5 0.5	0.2	1.1	224,022 62,489	236,121 64,228	232,550 63,863	237,043 62,045	1,565,844 444,505	1,651,361 442,982	-5.2 0.3 1.1
Grain and oilseed milling	8,246 9,021 18,099 12,561	8,229 8,959 18,031 12,345	8,090 9,021 18,023 11,998	0.2 0.7 0.4 1.7	1.7 -0.7 0.0 2.9	0.8 -0.6 1.3 -2.0	7,673 8,842 17,923 12,680	7,809 8,861 18,503 13,126	7,528 8,984 18,162 12,669	7,691 9,094 18,255 12,112	54,588 62,406 124,616 84,950	53,987 63,439 130,812 84,681	-1.6 -4.7 0.3
Beverages	9,479 3,082 2,494	9,271 3,074 2,511	9,142 2,856 2,520	2.2 0.3 -0.7	1.4 7.6	0.2 -8.4 0.3	9,598 3,082 2,472	10,052 3,074 2,691	9,813 2,856 2,582	9,208 2,904 2,582	64,362 20,588 17,815	62,707 21,974 18,236	2.6 -6.3 -2.3
Textile productsApparelLeather and allied products	1,984 1,080 335	1,981 1,076 338	1,980 1,090 341	0.2 0.4 -0.9	0.1 -1.3 -0.9	0.4 0.9 1.5	2,032 1,083 334	2,120 1,012 358	2,042 1,005 343	2,089 1,029 387	14,073 6,929 2,395	14,518 6,492 2,858	-3.1 6.7 -16.2
Paper products Pulp, paper, and paperboard mills Paperboard containers Printing	15,057 6,712 4,578 7,098	15,190 6,753 4,632 7,147	15,218 6,761 4,645 7,167	-0.9 -0.6 -1.2 -0.7	-0.1 -0.3	-0.2 0.1 -1.8 1.1	14,932 6,720 4,577 6,653	15,636 6,895 4,857 7,073	15,442 6,769 4,693 7,369	15,497 6,969 4,822 7,022	106,040 47,245 32,539 49,192	106,245 47,897 32,289 49,121	-0.2 -1.4 0.8 0.1
Petroleum and coal products Petroleum refineries Chemical products	34,769 30,905	36,232 32,478 66,259	35,210 31,522 66,014	-4.0 -4.8 -0.2	2.9 3.0	3.6 3.9 -0.5	38,092 33,884 64,140	40,003 35,696 69,223	38,492 34,581 68,924	48,778 44,860 65,957	237,960 213,106 467,158	333,696 310,303	-28.7 -31.3 2.2
Pesticides, fertilizers, and other agricultural chemicals	4,095 21,490 3,625	4,066 21,574 3,612	4,009 21,584 3,659	0.7 -0.4 0.4	1.4 0.0 -1.3	1.1 -1.0 -1.0		4,244 22,265 3,997	5,261 21,816 4,059	3,336 20,301 3,671	32,171 150,057 26,228	30,206 129,507 24,360	6.5 15.9 7.7
Plastics and rubber products	19,311	19,204	19,074	0.6	0.7	-0.2	19,115	20,651	19,819	19,545	134,827	135,424	-0.4

^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.

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

-		,	Seasonally	Adjusted			Not Seasonally Adjusted							
		Monthly		Per	cent Chan	ge		Mor	thly	-	1	ear to date		
Industry	July 2016 ^p	June 2016 ^r	May 2016	June - July	May - June	Apr May	July 2016 ^p	June 2016 ^r	May 2016	July 2015	2016 ^p	2015	% Change 2016/ 2015	
All manufacturing industries ²	454,759	446,331	454,295	1.9	-1.8	-1.2	431,743	477,376	459,330	459,347	3,143,812	3,244,001	-3.1	
Excluding transportation ²	375,858	375,014	373,705	0.2	0.4	0.2	366,312	395,571	382,283	384,296	2,611,486	2,712,675	-3.7	
Excluding defense ²	442,564	435,955	442,939	1.5	-1.6	-0.5	422,175	462,786	450,115	448,932	3,060,197	3,169,349	-3.4	
With unfilled orders ²	164,829	155,169	165,438	6.2	-6.2	-2.9	150,619	171,631	162,426	160,391	1,127,883	1,139,826	-1.0	
Durable goods industries ²	228,621	219,055	228,827	4.4	-4.3	-2.9	207,721	241,255	226,780	222,304	1,577,968	1,592,640	-0.9	
Primary metals	17,745	17,599	17,783	0.8	-1.0	-1.3	16,934	18,410	17,871	18,341	127,391	140,564	-9.4	
Iron and steel mills	8,164	7,943	8,319	2.8	-4.5	0.1	7,682	8,278	8,357	8,242	58,733	66,407	-11.6	
Aluminum and nonferrous metals	8,185	8,224	7,908	-0.5	4.0	-2.5	7,933	8,582	7,934	8,474	57,703	62,662	-7.9	
Ferrous metal foundries	1,396	1,432 29,889	1,556	-2.5	-8.0	-2.8	1,319	1,550 31,352	1,580	1,625	10,955	11,495	-4.7	
Fabricated metal products	30,304 29.808	29,889	29,889 29,313	1.4 1.4	0.0 0.3	-0.7 0.2	29,453 27,828	31,332	30,975 29,493	29,679 30.396	212,309 211,209	208,871 224.091	1.6 -5.7	
Machinery Construction machinery	29,606	2,507	2,634	-3.4	-4.8	-0.4	2,113	2,509	29,493	3,029	18,423	23,743	-22.4	
Mining, oil field, and														
gas field machinery	776	533	165	45.6	223.0	139.1	709	662	190	1,338	4,739	11,828	-59.9	
Industrial machinery	2,214	2,195	2,355	0.9	-6.8	2.1	2,106	2,571	2,082	2,304	16,301	15,736	3.6	
Photographic equipment	410	391	428	4.9	-8.6	13.2	379	345	419	426	2,767	3,046	-9.2	
Ventilation, heating, air-conditioning, and refrigeration equipment	3,544	3,370	3,311	5.2	1.8	-3.0	3,660	4,097	3,561	3,765	24,480	25,629	-4.5	
Metalworking machinery	3,198	3,129	3.034	2.2	3.1	-10.2	2.844	3,232	2.935	2,511	21,323	18,158	17.4	
Turbines, generators, and other	3,130	3,123	3,034	2.2	5.1	-10.2	2,044	3,232	2,333	2,511	21,020	10,130	17.4	
power transmission equipment	4.074	4.074	4.088	0.0	-0.3	-0.9	3.995	4.277	4.105	4.010	28.524	29.781	-4.2	
Material handling equipment	3,078	3,012	3,147	2.2	-4.3	7.0	2,615	3,119	3,198	2,760	20,896	18,903	10.5	
Computers and electronic products ²	24,670	23,865	24,166	3.4	-1.2	-0.9	22,053	27,571	23,049	21,674	164,804	159,348	3.4	
Computers	584	552	603	5.8	-8.5	-2.6	537	731	573	702	4,022	5,563	-27.7	
Nondefense communications														
equipment	3,427	3,423	3,454	0.1	-0.9	5.8	2,888	3,985	3,074	3,072	22,943	23,528	-2.5	
Defense communications equipment	270	313	290	-13.7	7.9	2.8	239	364	259	299	2,052	2,251	-8.8	
Electronic components	4,928	4,590	4,723	7.4	-2.8	0.5	5,077	5,113	4,815	4,721	32,828	29,468	11.4	
Nondefense search and navigation	4 500	4 404	4.070	0.0	0.0	4.0	4.040	4 74 4	4.050	4 007	40.000	40.400		
equipment Defense search and navigation	1,502	1,464	1,379	2.6	6.2	4.2	1,310	1,714	1,359	1,337	10,088	10,199	-1.1	
equipment	2,444	2,514	2,695	-2.8	-6.7	-11.3	1,996	2,900	2,459	2,252	18,134	16,495	9.9	
Electromedical, measuring,	2,	2,014	2,000	2.0	0.1	11.0	1,000	2,000	2,400	2,202	10,104	10,400	0.0	
and control instruments	9,532	9,188	9,124	3.7	0.7	-0.8	8,447	10,350	8,850	7,690	62,293	58,980	5.6	
Electrical equipment, appliances,		,							·	,	,	,		
and components	9,842	9,491	9,388	3.7	1.1	-0.5	9,162	10,320	9,500	9,654	66,798	71,387	-6.4	
Electric lighting equipment	1,097	1,070	1,078	2.5	-0.7	-0.4	1,055	1,069	1,029	1,023	7,330	6,885	6.5	
Household appliances	1,449	1,443	1,316	0.4	9.7	-1.8	1,296	1,490	1,424	1,403	9,555	10,845	-11.9	
Electrical equipment	2,902	2,848	2,875	1.9	-0.9	-1.7	2,731	3,300	2,905	3,236	20,684	23,376	-11.5	
Transportation equipment	78,901	71,317	80,590	10.6	-11.5	-7.1	65,431	81,805	77,047	75,051	532,326	531,326	0.2	
and trailers	28,188	28,329	27.748	-0.5	2.1	0.3	23,733	29,780	28,745	23,317	192,429	177,141	8.6	
Nondefense aircraft and parts	12,520	6,591	16,341	90.0	-59.7	-5.6	11,665	9,228	13,358	16,144	71,523	84,025	-14.9	
Defense aircraft and parts	4,405	3,643	3,940	20.9	-7.5	-30.0	3,344	5,634	2,504	3,366	30,578	26,773	14.2	
Ships and boats	3,042	2,667	2,596	14.1	2.7	-18.8	2,568	3,362	2,697	1,767	19,294	17,439	10.6	
Furniture and related products	6,203	6,161	6,326	0.7	-2.6	0.3	6,087	6,308	6,475	6,118	44,990	42,714	5.3	
Nondurable goods industries	226,138	227,276	225,468	-0.5	0.8	0.6	224,022	236,121	232,550	237,043	1,565,844	1,651,361	-5.2	

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

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/>.

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.

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

[Estimates are shown in millions of do			Seasonally A		turers on	iipinicinto,	inventories,		easonally Adj	usted	
		Monthly		Pe	rcent Chan	ge		Mor	nthly		% Change
Industry	July 2016 ^p	June 2016 ^r	May 2016	June - July	May - June	Apr May	July 2016 ^p	June 2016 ^r	May 2016	July 2015	July 2016/ 2015
All manufacturing industries ²	1,126,260	1,127,237	1,137,551	-0.1	-0.9	0.0	1,125,800	1,128,022	1,138,297	1,151,069	-2.2
Excluding transportation ²	354,234	353,160	353,735	0.3	-0.2	0.0	356,435	356,438	358,821	355,879	0.2
Excluding defense ²	953,573	954,166	962,430	-0.1	-0.9	0.1	952,189	952,755	963,719	974,049	-2.2
Durable goods industries ²	1,126,260	1,127,237	1,137,551	-0.1	-0.9	0.0	1,125,800	1,128,022	1,138,297	1,151,069	-2.2
Primary metals	32,271	32,476	32,739	-0.6	-0.8	0.5	32,673	32,951	33,336	33,169	-1.5
Iron and steel mills	18,079	18,169	18,363	-0.5		1.6		18,781	18,969	17,659	
Aluminum and nonferrous metals	10,412	10,468	10,483	-0.5	-	-1.7	10,337	10,328	10,395	11,836	
Ferrous metal foundries	3,780	3,839	3,893	-1.5		1.6		3,842	3,972	3,674	
Fabricated metal products	74,094	73,862	73,799	0.3	0.1	-0.1	75,359	75,041	75,578	75,353	
Machinery	92,929	92,825	93,427	0.1	-0.6	-0.9	92,849	92,895	94,314	99,743	
Construction machinery Mining, oil field, and	4,248	4,335	4,536	-2.0	-4.4	-5.6	3,985	4,214	4,601	6,028	-33.9
gas field machinery	5,942	5,991	6,320	-0.8	-5.2	-10.4	5,960	6,036	6,277	10,497	-43.2
Industrial machinery	7,557	7.698	7,834	-1.8		0.6		7,788	7,894	8,769	
Photographic equipment	1,164	1,176	1,210	-1.0	-2.8	-1.4	1,161	1,153	1,276	1,333	
Ventilation, heating, air-conditioning,		,	,				· ·	,	,	•	
and refrigeration equipment	6,558	6,351	6,319	3.3	0.5	-0.3	6,486	6,383	6,520	6,151	5.4
Metalworking machinery	7,307	7,237	7,164	1.0	1.0	-0.4	7,365	7,256	7,295	7,039	4.6
Turbines, generators, and other		·									
power transmission equipment	25,576	25,625	25,624	-0.2	0.0	-0.4	25,651	25,641	25,552	25,723	-0.3
Material handling equipment	11,980	11,912	11,921	0.6	-0.1	1.7	12,005	12,190	12,222	11,226	6.9
Computers and electronic products ²	129,114	128,423	128,124	0.5	0.2	0.5	129,289	129,113	129,013	122,390	5.6
Computers	2,388	2,403	2,411	-0.6	-0.3	0.2	2,388	2,403	2,411	2,390	-0.1
Nondefense communications											
equipment	32,621	32,289	32,142	1.0	0.5	1.1	32,573	32,393	32,460	29,303	11.2
Defense communications equipment	2,310	2,330	2,299	-0.9	1.3	0.2	2,344	2,376	2,292	2,383	
Electronic components Nondefense search and navigation	12,190	12,035	12,111	1.3	-0.6	-0.2	12,177	11,980	12,213	11,867	2.6
equipment	17,736	17,636	17,539	0.6	0.6	0.3	17,858	17,736	17,550	16,553	7.9
Defense search and navigation equipment	28,282	28,501	28,562	-0.8	-0.2	0.5	28,340	28,793	28,743	27,426	3.3
Electromedical, measuring,											
and control instruments	33,587	33,229	33,060	1.1	0.5	0.2	33,609	33,432	33,344	32,468	3.5
Electrical equipment, appliances,											
and components	17,649	17,324	17,286	1.9	0.2	-0.3	17,693	17,617	17,587	16,873	
Electric lighting equipment	1,341	1,340	1,349	0.1	-0.7	0.4	1,350	1,361	1,364	1,282	
Household appliances	1,195	1,106	1,045	8.0		-5.9	1,143	1,114	1,125	1,179	
Electrical equipment	7,942	7,923	7,986	0.2 -0.3	-0.8 -1.2	-0.5 0.1	8,042	7,971 771,584	8,055 779,476	8,059	
Transportation equipment Motor vehicle bodies, parts,	772,026	774,077	783,816	-0.3	-1.2	0.1	769,365	771,584	779,476	795,190	-3.2
and trailers	22,048	22,169	22,415	-0.5	-1.1	0.3	21,294	21,777	22,499	22,879	
Nondefense aircraft and parts	592,122	593,696	600,967	-0.3	-1.2	0.3	589,496	589,784	597,399	604,815	-2.5
Defense aircraft and parts	70,722	70,357	70,870	0.5		-0.5	70,746	70,874	70,166	64,842	
Ships and boats	16,618	16,722	16,908	-0.6	-1.1	-2.2	16,921	17,285	16,960	26,767	-36.8
Furniture and related products	7,926	8,007	8,118	-1.0	-1.4	0.3	8,321	8,578	8,751	8,104	2.7

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 do	liars and ar		Seasonally A		icturers 5	nipments	, inventories		rs Survey.] easonally Adi	usted	
		Monthly			rcent Chan	ge		Mon	thly		% Change
Industry	July 2016 ^p	June 2016 ^r	May 2016	June - July	May - June	Apr May	July 2016 ^p	June 2016 ^r	May 2016	July 2015	July 2016/ 2015
All manufacturing industries	620,329	619,472	619,667	0.1	0.0	-0.1	625,189	616,964	624,889	643,934	-2.9
Excluding transportation Excluding defense	496,645 594,460	496,325 594,381	495,491 593,986	0.1 0.0	0.2 0.1	0.0 -0.1	500,486 598,989	495,096 591,612	499,624 599,048	517,335 617,052	-3.3 -2.9
With unfilled orders	311,087	309,757	311,162	0.0	-0.5	-0.1	314,317	308,053	314,327	324,700	-3.2
Durable goods industries	383,116	381,715	382,258	0.4	-0.1	-0.4	386,307	378,959	385,715	396,577	-2.6
•											-0.8
Wood products Nonmetallic mineral products	11,302 13,037	11,217 12,991	11,137 12,965	0.8 0.4	0.7 0.2	0.7 0.4	11,161 13,068	10,984 13,093	11,018 13,271	11,248 12,890	-0.8 1.4
Primary metals	31,621	31,253	31,235	1.2	0.1	-0.1	31,711	30,828	31,033	35,733	-11.3
Iron and steel mills	17,244	16,924	16,955	1.9 0.4	-0.2	0.2 -0.6	17,259	16,571 12,191	16,689	20,495	-15.8
Aluminum and nonferrous metals Ferrous metal foundries	12,298 2,079	12,244 2,085	12,179 2,101	-0.3	0.5 -0.8	-0.6	12,386 2,066	2,066	12,205 2,139	13,152 2,086	-5.8 -1.0
Fabricated metal products	49,233	48,788	48,568	0.9	0.5	0.0	49,597	48,691	49,032	49,873	-0.6
MachineryFarm machinery	65,301 2,856	65,649 2,912	65,400 2,983	-0.5 -1.9	0.4 -2.4	-0.8 0.9	65,917 2,824	65,157 2,972	66,280 3,093	69,322 3,479	-4.9 -18.8
Construction machinery	5,445	5,441	5,378	0.1	1.2	-4.4	5,408	5,410	5,371	6,724	-19.6
Mining, oil field,											
and gas field machineryIndustrial machinery	7,203 6,363	7,189 6,419	7,115 6,321	0.2 -0.9	1.0 1.6	-1.8 0.5	7,277 6,304	7,256 6,392	7,292 6,369	7,986 6,208	-8.9 1.5
Photographic equipment	1,587	1,586	1,589	0.1	-0.2	-0.5	1,623	1,547	1,599	1,571	3.3
Ventilation, heating, air-conditioning,									4.00=		
and refrigeration equipment Metalworking machinery	4,342 5,674	4,384 5,624	4,423 5,621	-1.0 0.9	-0.9 0.1	-0.6 -0.3	4,420 5,745	4,433 5,599	4,687 5,682	4,869 5,800	-9.2 -0.9
Turbines, generators, and other	3,074	3,024	3,021	0.3	0.1	-0.5	3,743	3,333	3,002	3,000	-0.5
power transmission equipment	9,400	9,663	9,582	-2.7	0.8	-0.7	9,594	9,263	9,726	9,995	-4.0
Material handling equipment	4,616 42,485	4,637 42,708	4,703 42,714	-0.5 -0.5	-1.4 0.0	1.6 -0.2	4,770 43,077	4,671 42,379	4,698 43,412	4,458 43,999	7.0 -2.1
Computers and electronic products ²	1,575	1,570	1,523	0.3	3.1	-0.2	1,684	1,590	1,573	1,672	0.7
Computer storage devices	960	986	1,014	-2.6	-2.8	-1.6	987	957	1,027	1,173	-15.9
Other peripheral equipment	1,019	1,031	1,036	-1.2	-0.5	-0.3	1,038	1,007	1,087	1,221	-15.0
equipment	3,952	3,984	4,095	-0.8	-2.7	0.3	3,953	3,907	4,142	4,316	-8.4
Defense communications equipment	602	617	595	-2.4	3.7	-0.5	602	617	595	763	-21.1
Audio and video equipment	795	787	773	1.0	1.8	2.0	806	737	701	775	4.0
Electronic components Nondefense search and navigation	7,682	7,746	7,622	-0.8	1.6	0.3	7,805	7,679	7,671	7,742	0.8
equipment	3,053	3,071	3,076	-0.6	-0.2	0.6	3,094	3,046	3,086	3,125	-1.0
Defense search and navigation	2,953	2.076	2,912	-0.8	2.2	0.3	2 046	3,000	3,044	2 909	5.1
equipment Electromedical, measuring	2,955	2,976	2,912	-0.0	2.2	0.3	3,046	3,000	3,044	2,898	5.1
and control instruments	14,048	14,097	14,081	-0.3	0.1	-0.4	14,232	13,991	14,444	14,819	-4.0
Electrical equipment, appliances, and components	16,328	16,175	16,289	0.9	-0.7	-0.3	16,644	16,180	16,553	17,108	-2.7
Electric lighting equipment	2,003	1,999	1,995	0.3	0.2	0.3	2,058	1,998	2,019	1,969	4.5
Household appliances	2,214	2,230	2,256	-0.7	-1.2	-0.1	2,288	2,246	2,295	2,323	-1.5
Electrical equipment	4,864 1,320	4,890 1,329	4,917 1,348	-0.5 -0.7	-0.5 -1.4	-0.9 0.5	4,916 1,386	4,848 1,354	5,032 1,365	5,163 1,500	-4.8 -7.6
Transportation equipment	123,684	123,147	124,176	0.4	-0.8	-0.6	124,703	121,868	125,265	126,599	-1.5
Automobiles	4,735	4,933	4,159	-4.0		-2.8	4,673	4,536	4,035	4,335	7.8
Light trucks and utility vehicles Heavy duty trucks	4,205 2,087	4,311 2,093	3,981 2,140	-2.5 -0.3	8.3 -2.2	-2.9 -0.9	4,261 2,056	4,045 2,079	3,880 2,217	4,196 2,161	1.5 -4.9
Motor vehicle bodies, parts,	2,007	2,000	2,140	0.0	2.2	0.5	2,000	2,010	2,217	2,101	
and trailers	23,871	23,613	23,458	1.1	0.7	0.9	24,029	23,266	23,507	24,153	-0.5
Nondefense aircraft and parts Defense aircraft and parts	62,072 11,543	62,356 10,742	63,833 11,131	-0.5 7.5	-2.3 -3.5	-0.9 -2.9	62,611 11,629	61,957 10,744	65,040 11,214	63,979 11,896	-2.1 -2.2
Ships and boats	2,951	2,946	2,944	0.2	0.1	2.6	2,932	2,998	2,890	2,835	3.4
Furniture and related products	7,148	7,148	7,171	0.0	-0.3	-0.2	7,354	7,343	7,221	7,246	1.5
Miscellaneous durable goods	22,977	22,639	22,603	1.5		-0.4	23,075	22,436	22,630	22,559	2.3
Nondurable goods industries	237,213	237,757	237,409	-0.2	0.1	0.3	238,882	238,005	239,174	247,357	-3.4
Food products	53,602	53,801	53,643	-0.4	0.3	-0.4	53,161	52,310	52,147	52,741	0.8
Grain and oilseed milling Dairy products	5,700 7,308	5,763 7,322	5,856 7,306	-1.1 -0.2	-1.6 0.2	-0.8 -1.1	5,509 7,563	5,589 7,561	5,520 7,551	5,687 7,542	-3.1 0.3
Meat, poultry, and seafood products	8,969	9,057	9,187	-1.0	-1.4	0.0	9,010	8,971	9,103	9,764	-7.7
Beverage and tobacco products	20,450	20,473	20,722	-0.1	-1.2	0.6	19,706	19,886	20,627	19,963	-1.3
Beverages Tobacco	16,684 3,766	16,687 3,786	16,901 3,821	0.0 -0.5	-1.3 -0.9	0.8 -0.2	16,157 3,549	16,250 3,636	16,891 3,736	16,203 3,760	-0.3 -5.6
Textile mills	3,170	3,176	3,167	-0.2	0.3	0.9	3,188	3,195	3,198	3,120	2.2
Textile products	3,033	3,067	3,076	-1.1	-0.3	-0.2	3,037	3,084	3,095	3,046	-0.3
ApparelLeather and allied products	2,569 797	2,561 794	2,567 799	0.3 0.4	-0.2 -0.6	-0.3 -2.1	2,705 807	2,592 806	2,527 814	2,476 847	9.2 -4.7
Paper products	16,193	16,132	16,146	0.4	-0.0	-1.2	16,256	16,005	16,160	16,601	-2.1
Pulp, paper, and paperboard mills	6,665	6,613	6,577	0.8	0.5	-1.5	6,673	6,549	6,629	6,789	-1.7
Paperboard containers	5,132 5,842	5,123 5,894	5,164 5,946	0.2 -0.9	-0.8 -0.9	-1.4 -0.9	5,128 5,915	5,077 5,905	5,159 5,908	5,239 5,931	-2.1 -0.3
Petroleum and coal products	24,633	25,107	24,923	-1.9	0.7	0.1	26,464	27,111	26,619	35,582	-25.6
Petroleum refineries	19,994	20,474	20,353	-2.3	0.6	0.4	21,752	22,417	21,963	30,861	-29.5
Chemical products Pesticides, fertilizers, and other	81,594	81,429	81,077	0.2	0.4	1.0	82,291	81,723	82,294	81,627	0.8
agricultural chemicals	4,260	4,192	4,184	1.6	0.2	1.3	3,961	3,846	4,053	4,215	-6.0
Pharmaceuticals and medicines	33,005	32,938	32,598	0.2	1.0	1.4	33,350	33,541	33,378	31,345	6.4
Paints, coatings, and adhesives Plastics and rubber products	3,678 25,330	3,696 25,323	3,688 25,343	-0.5 0.0	0.2 -0.1	1.8 0.7	3,716 25,352	3,755 25,388	3,772 25,785	3,612 25,423	2.9 -0.3
	20,000	20,020	20,040	0.0	-0.1	0.7	20,002	20,000	20,700	20,420	-0.5

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

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

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

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 d	Seasonally Adjusted					3 Ompine	its, invent		Seasonally				
		Monthly			cent Cha	inge		Mon		,	•	o date	
Industry	July 2016 ^p	June 2016 ^r	May 2016	June - July	May - June	Apr May	July 2016 ^p	June 2016 ^r	May 2016	July 2015	2016 ^p	2015	% Change⁶ 2016/ 2015
SHIPMENTS													
All manufacturing industries	458,864	459,724	456,889	-0.2	0.6	0.1	437,519	490,264	465,958	462,331	3,178,930	3,282,559	-3.2
Construction materials and supplies Information technology Computers and related products Motor vehicle and parts	46,304 23,016 1,938 54,842	46,356 22,616 1,750 55,009	46,542 22,538 1,854 53,591	-0.1 1.8 10.7 -0.3	-0.4 0.3 -5.6 2.6	-0.6 0.3 -3.1 -3.5	47,129 20,781 1,527 45,272	51,188 26,113 2,531 59,183	48,924 21,808 1,623 54,523	48,288 20,656 1,729 48,533	325,233 152,866 12,313 382,730	319,999 152,383 14,752 370,276	1.6 0.3 -16.5 3.4
Capital goods	82,248 71,698 62,344 10,550	81,898 71,701 62,642 10,197	82,532 72,641 62,921 9,891	0.4 0.0 -0.5 3.5	-0.8 -1.3 -0.4 3.1	1.2 1.0 -0.7 3.0	74,944 65,447 57,663 9,497	91,649 80,514 69,366 11,135	81,666 71,989 62,624 9,677	80,958 71,622 63,638 9,336	563,003 494,749 436,413 68,254	587,772 523,438 460,371 64,334	-4.2 -5.5 -5.2 6.1
Consumer goods	184,209 37,569 146,640	185,051 37,374 147,677	182,850 36,807 146,043	-0.5 0.5 -0.7	1.2 1.5 1.1	-0.1 -4.5 1.1	177,005 31,183 145,822	192,092 40,007 152,085	186,250 37,013 149,237	189,834 34,496 155,338	1,268,186 263,767 1,004,419	1,341,858 263,936 1,077,922	-5.5 -0.1 -6.8
NEW ORDERS													
All manufacturing industries ⁵	454,759	446,331	454,295	1.9	-1.8	-1.2	431,743	477,376	459,330	459,347	3,143,812	3,244,001	-3.1
Construction materials and supplies Information technology Computers and related products Motor vehicle and parts	46,276 23,756 1,923 54,721	46,265 23,006 1,742 54,763	46,448 23,210 1,860 53,659	0.0 3.3 10.4 -0.1	-0.4 -0.9 -6.3 2.1	-1.1 -0.6 -2.5 -3.2	47,103 20,755 1,512 44,789	50,748 26,451 2,523 58,461	49,440 22,067 1,629 54,644	48,278 20,626 1,694 48,055	327,714 158,764 12,254 380,465	322,442 157,632 14,862 369,160	1.6 0.7 -17.5 3.1
Capital goods	81,157 71,557 63,394 9,600	71,926 64,987 62,437 6,939	82,084 72,920 62,153 9,164	12.8 10.1 1.5 38.3	-12.4 -10.9 0.5 -24.3	-6.0 -1.7 -0.6 -30.1	72,951 65,427 57,849 7,524	83,088 73,114 68,292 9,974	78,134 70,193 61,201 7,941	82,685 73,940 62,330 8,745	549,143 480,275 440,868 68,868	575,870 514,492 460,585 61,378	-4.6 -6.7 -4.3 12.2
Consumer goods Consumer durable goods Consumer nondurable goods	184,301 37,661 146,640	185,084 37,407 147,677	182,817 36,774 146,043	-0.4 0.7 -0.7	1.2 1.7 1.1	-0.1 -4.5 1.1	177,062 31,240 145,822	191,845 39,760 152,085	186,189 36,952 149,237	189,657 34,319 155,338	1,268,290 263,871 1,004,419	1,341,627 263,705 1,077,922	-5.5 0.1 -6.8
UNFILLED ORDERS													
All manufacturing industries ⁵	1,126,260	1,127,237	1,137,551	-0.1	-0.9	0.0	1,125,800	1,128,022	1,138,297	1,151,069	(X)	(X)	-2.2
Construction materials and supplies Information technology Computers and related products Motor vehicle and parts	45,973 125,259 2,388 22,048	46,001 124,519 2,403 22,169	46,092 124,129 2,411 22,415	-0.1 0.6 -0.6 -0.5	-0.2 0.3 -0.3 -1.1	-0.2 0.5 0.2 0.3	46,788 125,431 2,388 21,294	46,814 125,457 2,403 21,777	47,254 125,119 2,411 22,499	46,551 118,209 2,390 22,879	(X) (X) (X) (X)	(X) (X) (X) (X)	0.5 6.1 -0.1 -6.9
Capital goods Nondefense capital goods ³ Excluding aircraft Defense capital goods ⁴	836,423 700,699 221,288 135,724	837,514 700,840 220,238 136,674	847,486 707,554 220,443 139,932	-0.1 0.0 0.5 -0.7	-1.2 -0.9 -0.1 -2.3	-0.1 0.0 -0.3 -0.5	837,016 699,998 222,141 137,018	839,009 700,018 221,955 138,991	847,570 707,418 223,029 140,152	870,708 727,703 225,993 143,005	(X) (X) (X) (X)	(X) (X) (X) (X)	-3.9 -3.8 -1.7 -4.2
Consumer goods	4,419	4,327	4,294	2.1	0.8	-0.8	4,296	4,239	4,486	4,097	(X)	(X)	4.9
Consumer durable goods TOTAL INVENTORIES	4,419	4,327	4,294	2.1	0.8	-0.8	4,296	4,239	4,486	4,097	(X)	(X)	4.9
All manufacturing industries	620,329	619,472	619,667	0.1	0.0	-0.1	625,189	616,964	624,889	643,934	(X)	(X)	-2.9
Construction materials and supplies Information technology Computers and related products Motor vehicle and parts	65,434 36,673 3,554 34,898	64,913 36,631 3,587 34,950	64,695 36,652 3,573 33,738	0.8 0.1 -0.9 -0.1	0.3 -0.1 0.4 3.6	0.1 -0.1 -0.6 -0.2	65,747 37,261 3,709 35,019	64,829 36,327 3,554 33,926	65,615 37,327 3,687 33,639	66,222 38,689 4,066 34,845	(X) (X) (X) (X) (X)	(X) (X) (X) (X) (X)	-0.7 -3.7 -8.8 0.5
Capital goods	190,232 169,112 118,268 21,120	189,734 169,427 118,167 20,307	191,485 170,690 117,990 20,795	0.3 -0.2 0.1 4.0	-0.9 -0.7 0.2 -2.3	-0.6 -0.7 -0.5 -0.4	192,381 171,016 119,621 21,365	189,235 168,669 117,483 20,566	194,178 173,306 119,529 20,872	199,159 177,144 123,821 22,015	(X) (X) (X) (X)	(X) (X) (X) (X)	-3.4 -3.5 -3.4 -3.0
Consumer goods	176,694 29,726 146,968	177,652 30,067 147,585	176,246 29,044 147,202	-0.5 -1.1 -0.4	0.8 3.5 0.3	0.0 -1.1 0.2	177,912 29,804 148,108	177,180 29,178 148,002	176,697 28,731 147,966	184,169 29,115 155,054	(X) (X) (X)	(X) (X) (X)	-3.4 2.4 -4.5

X Not Applicable Preliminary

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 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; elphotographic equipment; metalworking machinery; elevenses and generators; other power transmission equipment; pumps and compressors; material handling equipment; all other machinery; electronic computers storage devices; other computer peripheral equipment; communications equipment search and navigation equipment; electronedical, 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

			Seasonally A	djusted				Not S	easonally Adj	usted	
		Monthly		Pe	rcent Chan	ge		Mon	thly		% Change
Industry	July 2016 ^p	June 2016 ^r	May 2016	June - July	May - June	Apr May	July 2016 ^p	June 2016 ^r	May 2016	July 2015	July 2016/ 2015
MATERIALS AND SUPPLIES											
All manufacturing industries	208,984	207,339	206,954	0.8	0.2	0.1	210,434	205,725	207,068	212,950	-1.2
Durable goods industries	130,562	128,776	128,157	1.4	0.5	0.0	131,771	127,158	127,984	132,365	-0.4
Wood products Nonmetallic mineral products	4,659 5,212	4,603 5,270	4,552 5,299	1.2 -1.1	1.1 -0.5	-0.4 0.0	4,611 5,226	4,386 5,294	4,309 5,331	4,681 5,344	-1.5 -2.2
Primary metals	12,603	12,459	12,254	1.2	1.7	-0.4	12,550	12,230	11,918	13,386	-6.2
Fabricated metal products	18,009 23,834	17,750 23,992	17,681 24,115	1.5 -0.7	0.4 -0.5	0.0 -1.3	18,133 24,343	17,668 23,954	17,663 24,390	18,339 26,573	-1.1 -8.4
Computers and electronic products Electrical equipment, appliances,	17,701	17,532	17,489	1.0	0.2	1.0	17,837	17,311	17,656	17,221	3.6
and components	6,531	6,490	6,537	0.6	-0.7	-0.6	6,634	6,450	6,611	7,101	-6.6
Transportation equipment Furniture and related products	30,944 3,622	29,702 3,603	29,257 3,611	4.2 0.5	1.5 -0.2	0.6 0.2	31,215 3,680	28,843 3,644	29,081 3,615	28,582 3,696	9.2 -0.4
Miscellaneous products	7,447	7,375	7,362	1.0	0.2	0.4	7,542	7,378	7,410	7,442	1.3
Nondurable goods industries	78,422	78,563	78,797	-0.2	-0.3	0.4	78,663	78,567	79,084	80,585	-2.4
Food products Beverage and tobacco products	18,122 5,048	18,365 5,022	18,693 5,018	-1.3 0.5	-1.8 0.1	2.1 1.2	17,892 4,767	18,056 4,843	18,198 4,983	18,040 4,803	-0.8 -0.7
Textiles	1,164 1,043	1,155 1,070	1,148 1,069	0.8 -2.5	0.6 0.1	-0.9 0.1	1,164 1,046	1,163 1,080	1,161	1,174 1,057	-0.9 -1.0
Textile products Apparel	694	686	699	1.2	-1.9	-2.5	713	696	1,077 696	745	-4.3
Leather and allied products	240 8,229	239 8,217	238 8,239	0.4 0.1	0.4 -0.3	-2.1 -1.3	244 8,240	238 8,129	240 8,197	254 8,500	-3.9 -3.1
Printing	2,654	2,710	2,762	-2.1	-1.9	-1.1	2,706	2,732	2,756	2,926	-7.5
Petroleum and coal products	5,907 25,320	5,974 25,104	5,762 25,124	-1.1 0.9	3.7 -0.1	1.5 -0.4	6,249 25,569	6,466 25,136	6,246 25,437	8,069 24,688	-22.6 3.6
Plastics and rubber products	10,001	10,021	10,045	-0.2	-0.2	0.2	10,073	10,028	10,093	10,329	-2.5
WORK IN PROCESS											
All manufacturing industries	190,612	191,821	194,097	-0.6	-1.2	0.3	192,357	191,652	196,136	202,768	-5.1
Durable goods industries	142,700	143,367	146,073	-0.5	-1.9	-0.2	144,397	143,387	147,893	152,488	-5.3
Wood products Nonmetallic mineral products	2,186 1,476	2,193 1,450	2,197 1,454	-0.3 1.8	-0.2 -0.3	0.2 0.2	2,176 1,493	2,208 1,476	2,227 1,502	2,184 1,449	-0.4 3.0
Primary metals	9,104	9,052	9,325	0.6	-2.9	0.7	9,282	9,061	9,382	11,252	-17.5
Fabricated metal products	12,938 19,346	12,882 19,273	12,785 18,599	0.4 0.4	0.8 3.6	0.3 0.5	13,047 19,424	12,845 19,000	12,814 18,752	13,074 18,711	-0.2 3.8
Computers and electronic products	12,832	13,107	13,421	-2.1	-2.3	-1.5	13,256	13,318	13,871	15,080	-12.1
Electrical equipment, appliances, and components	3,513	3,453	3,443	1.7	0.3	-0.1	3,557	3,457	3,517	3,581	-0.7
Transportation equipment	76,321	77,061	79,976	-1.0	-3.6 2.0	-0.3 -2.0	77,138 1,106	77,096	80,926	82,371	-6.4 7.9
Furniture and related products Miscellaneous products	1,089 3,895	1,090 3,806	1,069 3,804	-0.1 2.3	0.1	-1.7	3,918	1,103 3,823	1,070 3,832	1,025 3,761	4.2
Nondurable goods industries	47,912	48,454	48,024	-1.1	0.9	2.1	47,960	48,265	48,243	50,280	-4.6
Food products Beverage and tobacco products	6,183 7,477	6,128 7,525	6,029 7,629	0.9 -0.6	1.6 -1.4	-1.4 0.3	5,754 6,922	5,531 7,105	5,452 7,407	5,603 6,928	2.7 -0.1
Textiles	668	691	693	-3.3	-0.3	0.3	676	690	698	690	-2.0
Textile productsApparel	440 317	444 318	444 323	-0.9 -0.3	0.0 -1.5	-0.4 -1.5	442 346	442 339	446 331	428 372	3.3 -7.0
Leather and allied products	106	106	106	0.0	0.0	2.9	106	105	107	104	1.9
Paper products Printing	1,256 1,577	1,260 1,588	1,262 1,591	-0.3 -0.7	-0.2 -0.2	-0.7 -0.4	1,270 1,591	1,267 1,539	1,266 1,525	1,315 1,453	-3.4 9.5
Petroleum and coal products	7,772 19,092	8,196 19,172	7,897 19,036	-5.2 -0.4	3.8 0.7	3.3 4.4	8,393 19,417	8,710 19,494	8,428 19,518	11,521 18,859	-27.2 3.0
Plastics and rubber products	3,024	3,026	3,014	-0.4	0.4	0.4	3,043	3,043	3,065	3,007	1.2
FINISHED GOODS											
All manufacturing industries	220,733	220,312	218,616	0.2	0.8	-0.8	222,398	219,587	221,685	228,216	-2.5
Durable goods industries	109,854	109,572	108,028	0.3	1.4	-1.0	110,139	108,414	109,838	111,724	-1.4
Wood products Nonmetallic mineral products	4,457 6,349	4,421 6,271	4,388 6,212	0.8 1.2	0.8 0.9	2.2 0.8	4,374 6,349	4,390 6,323	4,482 6,438	4,383 6,097	-0.2 4.1
Primary metals	9,914	9,742	9,656	1.8	0.9	-0.4	9,879	9,537	9,733	11,095	-11.0
Fabricated metal products	18,286 22,121	18,156 22,384	18,102 22,686	0.7 -1.2	0.3 -1.3	-0.3 -1.2	18,417 22,150	18,178 22,203	18,555 23,138	18,460 24,038	-0.2 -7.9
Computers and electronic products	11,952	12,069	11,804	-1.0	2.2	-0.3	11,984	11,750	11,885	11,698	2.4
Electrical equipment, appliances, and components	6,284	6,232	6,309	0.8	-1.2	0.0	6,453	6,273	6,425	6,426	0.4
Transportation equipment	16,419	16,384	14,943	0.2	9.6	-4.5	16,350	15,929	15,258	15,646	4.5
Furniture and related products Miscellaneous products	2,437 11,635	2,455 11,458	2,491 11,437	-0.7 1.5	-1.4 0.2	0.0 -0.5	2,568 11,615	2,596 11,235	2,536 11,388	2,525 11,356	1.7 2.3
Nondurable goods industries	110,879	110,740	110,588	0.1	0.1	-0.6	112,259	111,173	111,847	116,492	-3.6
Food products Beverage and tobacco products	29,297 7,925	29,308 7,926	28,921 8,075	0.0 0.0	1.3 -1.8	-1.8 0.6	29,515 8,017	28,723 7,938	28,497 8,237	29,098 8,232	1.4 -2.6
Textiles	1,338	1,330	1,326	0.6	0.3	3.0	1,348	1,342	1,339	1,256	7.3
Textile productsApparel	1,550 1,558	1,553 1,557	1,563 1,545	-0.2 0.1	-0.6 0.8	-0.3 1.0	1,549 1,646	1,562 1,557	1,572 1,500	1,561 1,359	-0.8 21.1
Leather and allied products	451	449	455	0.4	-1.3	-3.2	457	463	467	489	-6.5
Paper products	6,708 1,611	6,655 1,596	6,645 1,593	0.8 0.9	0.2 0.2	-1.1 -1.1	6,746 1,618	6,609 1,634	6,697 1,627	6,786 1,552	-0.6 4.3
Petroleum and coal products	10,954	10,937	11,264	0.2	-2.9 0.6	-2.6 0.2	11,822 37,305	11,935 37,093	11,945 37,339	15,992 38,080	-26.1 -2.0
Chemical products	37,182	37,153	36,917	0.1							

Preliminary 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.

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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.]

pased on seasonary Adjusted data from the Mane		ntory/Ship				d Orders/	s ratio ²	
Industry	Jul 2016 ^p	Jun 2016 ^r	May 2016	Apr 2016	Jul 2016 ^p	Jun 2016 ^r	May 2016	Apr 2016
All manufacturing industries ³	1.35	1.35	1.36	1.36	(X)	(X)	(X)	(X)
Durable goods industries ³	1.65 1.37 1.32 1.76 1.64 2.20 1.57 1.72 1.53 1.14	1.64 1.38 1.31 1.75 1.64 2.19 1.60 1.71 1.52 1.14	1.65 1.36 1.32 1.77 1.62 2.17 1.61 1.73 1.55 1.14	1.65 1.35 1.31 1.77 1.62 2.16 1.62 1.73 1.55 1.14	6.79 (X) (X) 1.80 2.54 3.42 5.87 2.02 14.19 1.50 (X)	6.81 (X) (X) 1.82 2.55 3.39 5.91 2.00 14.17 1.53 (X)	6.89 (X) (X) 1.86 2.53 3.39 5.92 2.00 14.48 1.53 (X)	6.94 (X) (X) 1.85 2.53 3.37 5.93 2.00 14.88 1.53 (X)
Nondurable goods industries	1.05 0.82 1.63 1.27 1.53 2.38 2.38 1.08 0.82 0.71 1.23 1.31	1.05 0.83 1.66 1.26 1.55 2.38 2.35 1.06 0.82 0.69 1.23 1.32	1.05 0.83 1.73 1.26 1.55 2.36 2.34 1.06 0.83 0.71 1.23 1.33	1.06 0.84 1.68 1.25 1.56 2.38 2.43 1.07 0.85 0.73 1.21 1.32	\$	\$	\$	(X)

X Not Applicable

^p Preliminary

^r 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.]

Shipments		New C	Orders	Unfilled	Orders	Inventories		

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.