



Manufacturers' Shipments, Inventories, and Orders

August 1999

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Economics and Statistics Administration
BUREAU OF THE CENSUS

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All figures in text are in seasonally adjusted current dollars

Summary

New orders for manufactured goods in August increased \$4.8 billion or 1.3 percent to \$364.7 billion, the Department of Commerce, Bureau of the Census reported today. This follows a 2.5 percent July increase and is the twelfth increase in the last fifteen months. Excluding transportation, new orders increased 0.8 percent, the sixth increase in the last seven months. Year-to-date, new orders are 5.0 percent above the same period a year ago.

Shipments increased \$5.0 billion or 1.4 percent to \$362.3 billion, following a 0.7 percent July increase. This is the twelfth increase in the last fifteen months. Year-to-date, shipments are 4.6 percent above the same period a year ago.

Unfilled orders increased \$2.4 billion or 0.5 percent to \$523.1 billion, following a 0.5 percent July increase. The unfilled orders-to-shipments ratio was 2.52, down from 2.55 in July.

Inventories decreased \$0.4 billion or 0.1 percent to \$464.6 billion, following a 0.5 percent July increase. The inventories-to-shipments ratio was 1.28, down from 1.30 in July.

New Orders

New orders for manufactured durable goods in August increased \$2.5 billion or 1.2 percent to \$208.0 billion, revised from the previously published 0.9 percent increase. This is the twelfth increase in the last fifteen months.

Transportation equipment, led by aircraft and parts, had the largest increase, \$2.3 billion or 4.8 percent to \$49.5 billion. This is the fourth consecutive increase. Fabricated metal products, up four consecutive months, increased \$0.7 billion or 3.5 percent to \$21.0 billion. Electronic and other electrical equipment increased \$0.3 billion or 0.8 percent to \$38.3 billion. Industrial machinery and equipment decreased \$0.9 billion or 2.1 percent to \$39.4 billion.

New orders for nondurable goods, up six of the last seven months, increased \$2.3 billion or 1.5 percent to \$156.6 billion. Petroleum and coal products, chemicals and allied products, and paper and allied products had the largest increases.

Shipments

Shipments of durable goods in August increased \$3.2 billion or 1.6 percent to \$206.5 billion, revised from the

previously published 1.3 percent increase. This is the thirteenth increase in the last fifteen months. Transportation equipment, led by aircraft and parts, had the largest increase, \$2.6 billion or 5.3 percent to \$51.4 billion. This is the largest increase since August 1998. Fabricated metal products increased \$0.4 billion or 2.1 percent to \$20.8 billion. Industrial machinery and equipment decreased \$0.3 billion or 0.8 percent to \$39.1 billion.

Shipments of nondurable goods increased \$1.7 billion or 1.1 percent to \$155.8 billion. This is the sixth increase in the last seven months. Petroleum and coal products, up seven consecutive months, increased \$0.6 billion or 3.9 percent to \$15.1 billion. Chemicals and allied products, up four consecutive months, increased \$0.5 billion or 1.3 percent to \$35.0 billion.

Unfilled Orders

Unfilled orders for durable goods in August increased \$1.5 billion or 0.3 percent to \$497.7 billion, unrevised from the previously published 0.3 percent increase. Electronic and other electrical equipment had the largest increase, \$2.8 billion or 4.1 percent to \$71.6 billion, due to electronic components. This is the ninth consecutive increase. Primary metals, up seven consecutive months, increased \$0.4 billion or 1.4 percent to \$31.9 billion. Transportation equipment, led by aircraft and parts, decreased \$1.9 billion or 0.8 percent to \$228.2 billion. This is the fourteenth decrease in the last sixteen months.

Inventories

Inventories of durable goods in August, down eight of the last ten months, decreased \$0.8 billion or 0.3 percent to \$292.7 billion.

Transportation equipment, down eight of the last ten months, had the largest decrease, \$1.4 billion or 1.9 percent to \$71.0 billion. Industrial machinery and equipment, up for the first time since March, increased \$0.2 billion or 0.4 percent to \$60.0 billion.

Inventories of nondurable goods, up five of the last six months, increased \$0.4 billion or 0.2 percent to \$171.9 billion. Petroleum and related products, up six consecutive months, had the largest increase, \$0.4 billion or 3.5 percent to \$11.5 billion.

By stage of fabrication, August finished goods increased 1.0 percent in durables and 0.8 percent in nondurables. Work in process decreased 1.0 percent in durables and 0.8 percent in nondurables. Materials and supplies decreased 0.4 percent in durables and slightly in nondurables.

Our internet address is: <http://www.census.gov/indicator/www/m3>

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS
(Millions of dollars)

Industry	Seasonally adjusted						Not seasonally adjusted ¹						
	Monthly			Percent Change			Monthly				Percent change	Year to date	
	Aug. 1999 ^p	July 1999 ^r	June 1999	July-Aug.	June-July	May-June	Aug. 1999 ^p	July 1999 ^r	June 1999	Aug. 1998	Aug. 99/98	1999 ^p	1998
All manufacturing industries	362,270	357,301	354,702	+1.4	+0.7	+1.2	363,931	320,282	380,057	337,377	+7.9	2,775,465	2,653,937
Manufacturing Industries													
with unfilled orders	207,269	204,202	201,266	+1.5	+1.5	0.0	205,560	181,081	218,997	191,882	+7.1	1,578,096	1,516,822
without defense capital goods . . .	355,775	350,717	348,424	+1.4	+0.7	+1.3	357,708	314,532	373,323	330,915	+8.1	2,724,699	2,603,099
Durable goods industries	206,516	203,268	200,990	+1.6	+1.1	+0.8	204,053	171,249	219,424	186,058	+9.7	1,569,040	1,474,874
With unfilled orders	169,553	166,506	163,833	+1.8	+1.6	-0.1	166,374	144,441	180,447	152,886	+8.8	1,283,924	1,219,249
Stone, clay, and glass products	8,824	8,578	8,579	+2.9	0.0	+1.8	9,360	8,641	9,324	8,424	+11.1	68,027	63,382
Primary metals	15,132	14,903	14,677	+1.5	+1.5	+1.0	15,231	13,574	15,501	14,961	+1.8	117,394	123,725
Blast furnaces, steel mills	5,831	5,681	5,615	+2.6	+1.2	-0.2	5,896	5,169	5,933	6,058	-2.7	45,388	50,694
Iron and steel foundries	1,563	1,566	1,536	-0.2	+2.0	+2.1	1,587	1,321	1,636	1,495	+6.2	12,344	12,106
Nonferrous and other primary metals	7,738	7,656	7,526	+1.1	+1.7	+1.8	7,748	7,084	7,932	7,408	+4.6	59,662	60,925
Fabricated metal products	20,824	20,394	20,544	+2.1	-0.7	+0.7	21,311	18,208	21,800	20,575	+3.6	163,027	157,437
Industrial machinery and equipment . .	39,104	39,434	37,308	-0.8	+5.7	-0.6	36,534	34,097	44,097	34,028	+7.4	296,763	291,523
Engines and turbines	2,724	2,566	2,470	+6.2	+3.9	-1.1	2,457	1,860	2,913	2,008	+22.4	18,793	17,185
Farm and garden machinery	1,822	1,761	1,763	+3.5	-0.1	-2.4	1,487	1,420	1,805	1,562	-4.8	16,314	17,917
Construction, mining and material handling equipment	3,729	3,788	3,869	-1.6	-2.1	+1.4	3,569	3,544	4,359	4,120	-13.4	31,549	34,500
Metalworking machinery	3,762	3,635	3,549	+3.5	+2.4	-3.1	3,626	3,054	3,919	3,298	+9.9	27,160	26,343
Computer and office equipment . . .	12,321	13,126	11,164	-6.1	+17.6	-3.2	11,169	10,641	14,920	9,818	+13.8	88,320	81,611
Electronic and other electrical equipment	35,487	35,373	34,196	+0.3	+3.4	+1.1	34,362	30,909	37,380	30,345	+13.2	260,498	235,919
Electrical transmission and distribution equipment and industrial apparatus	4,133	3,970	3,712	+4.1	+7.0	-2.8	4,088	3,582	4,075	3,633	+12.5	30,182	28,938
Household appliances	2,455	2,418	2,347	+1.5	+3.0	+0.2	2,474	2,253	2,729	2,097	+18.0	18,940	16,550
Electric lighting and wiring equipment	2,527	2,447	2,509	+3.3	-2.5	+5.5	2,526	2,046	2,612	2,219	+13.8	18,477	17,350
Household audio and video equipment	1,094	1,119	1,078	-2.2	+3.8	-1.3	1,138	998	990	1,065	+6.9	7,856	7,465
Communications equipment	8,773	8,856	8,528	-0.9	+3.8	+1.8	7,798	7,530	10,054	6,321	+23.4	62,299	52,062
Electronic components	14,165	14,266	13,726	-0.7	+3.9	+1.5	14,032	12,711	14,550	12,855	+9.2	105,682	97,450
Transportation equipment	51,416	48,816	49,781	+5.3	-1.9	+1.8	51,598	32,698	52,128	44,265	+16.6	383,406	339,368
Motor vehicles and parts	35,241	34,550	34,813	+2.0	-0.8	+6.4	35,843	20,450	36,080	30,383	+18.0	263,745	230,343
Aircraft, missiles, space vehicles, and parts	12,661	10,879	11,317	+16.4	-3.9	-11.2	12,101	9,299	12,080	10,505	+15.2	92,625	84,775
Shipbuilding and tanks	1,073	981	910	+9.4	+7.8	-8.9	1,058	903	971	1,003	+5.5	7,635	7,294
Instruments and related products	14,433	14,340	14,611	+0.6	-1.9	+2.1	13,945	12,834	16,166	13,346	+4.5	112,244	109,601
Search and navigation equipment	3,145	3,207	3,200	-1.9	+0.2	0.0	3,022	2,877	3,461	3,038	-0.5	24,673	23,760
Measuring and controlling devices . . .	4,222	4,165	4,118	+1.4	+1.1	+1.0	4,180	3,669	4,435	3,780	+10.6	32,435	32,043
Medical instruments and supplies	4,744	4,696	4,943	+1.0	-5.0	+3.8	4,526	4,221	5,565	4,215	+7.4	37,341	35,037
Photographic goods	1,824	1,813	1,873	+0.6	-3.2	+5.2	1,719	1,619	2,176	1,866	-7.9	13,927	15,117
All other durable goods	21,296	21,430	21,294	-0.6	+0.6	-1.0	21,712	20,288	23,028	20,114	+7.9	167,681	153,919
Nondurable goods industries	155,754	154,033	153,712	+1.1	+0.2	+1.7	159,878	149,033	160,633	151,319	+5.7	1,206,425	1,179,063
With unfilled orders	37,716	37,696	37,433	+0.1	+0.7	+0.7	39,186	36,640	38,550	38,996	+0.5	294,172	297,573
Food and kindred products	41,624	41,309	42,055	+0.8	-1.8	+1.4	42,380	39,577	43,209	41,924	+1.1	328,052	321,414
Meat products	8,982	8,775	9,040	+2.4	-2.9	+3.9	9,375	8,678	9,345	9,148	+2.5	69,666	69,460
Dairy products	6,412	6,273	6,475	+2.2	-3.1	+1.0	6,421	5,909	6,668	6,330	+1.4	51,074	48,180
Beverages	6,374	6,314	6,324	+1.0	-0.2	+1.0	6,880	6,621	7,183	6,553	+5.0	50,954	49,124
All other foods, except fats and oils .	18,132	18,246	18,398	-0.6	-0.8	+0.4	17,980	16,668	18,195	17,843	+0.8	141,652	138,081
Tobacco products	4,283	4,265	4,230	+0.4	+0.8	+4.1	4,319	4,157	4,501	3,611	+19.6	33,269	27,186
Textile mill products	6,472	6,540	6,447	-1.0	+1.4	-1.3	6,853	6,045	7,019	7,040	-2.7	51,609	54,301
Broadwoven fabrics and other textiles	3,664	3,713	3,732	-1.3	-0.5	-0.8	3,768	3,253	4,034	4,086	-7.8	29,681	32,976
Paper and allied products	13,895	13,575	13,460	+2.4	+0.9	+0.5	14,151	13,208	14,038	14,037	+0.8	107,968	111,161
Pulp, paper, and paperboard mill products	5,441	5,244	5,192	+3.8	+1.0	+3.0	5,566	5,162	5,366	5,383	+3.4	41,423	43,167
Paperboard containers and boxes . . .	3,545	3,391	3,329	+4.5	+1.9	+1.9	3,642	3,275	3,439	3,666	-0.7	26,909	29,037
Miscellaneous converted paper products	4,909	4,940	4,939	-0.6	0.0	-2.8	4,943	4,771	5,233	4,988	-0.9	39,636	38,957
Chemicals and allied products	35,026	34,569	34,483	+1.3	+0.2	+2.7	34,565	33,033	36,988	31,647	+9.2	271,697	261,745
Industrial chemicals	15,256	15,267	15,070	-0.1	+1.3	+2.8	15,363	14,960	16,047	14,726	+4.3	120,085	122,408
Drugs, soaps, and toiletries	15,746	15,448	15,446	+1.9	0.0	+2.3	15,582	14,995	16,369	13,690	+13.8	118,216	105,859
Petroleum and coal products	15,131	14,563	13,703	+3.9	+6.3	+5.0	16,209	15,083	14,467	12,364	+31.1	104,128	99,217
Rubber and plastics products	13,757	13,376	13,609	+2.8	-1.7	+0.9	14,053	12,292	14,495	13,451	+4.5	109,133	105,790
All other nondurable goods	25,566	25,836	25,725	-1.0	+0.4	+0.5	27,348	25,638	25,916	27,245	+0.4	200,569	198,249

^p Preliminary. ^r Revised.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS
(Millions of dollars)

Industry	Seasonally adjusted						Not seasonally adjusted ¹						
	Monthly			Percent Change			Monthly				Percent change	Year to date	
	Aug. 1999 ^p	July 1999 ^r	June 1999	July- Aug.	June- July	May- June	Aug. 1999 ^p	July 1999 ^r	June 1999	Aug. 1998		1999 ^p	1998
All manufacturing industries	364,673	359,903	351,128	+1.3	+2.5	+0.8	365,478	328,590	370,797	335,916	+8.8	2,787,337	2,652,209
Manufacturing industries													
with unfilled orders	209,672	206,804	197,692	+1.4	+4.6	-0.6	207,107	189,389	209,737	190,421	+8.8	1,589,968	1,515,094
without defense capital goods	359,522	353,427	345,919	+1.7	+2.2	+1.1	361,896	323,524	365,884	332,342	+8.9	2,741,221	2,608,581
Durable goods industries	208,025	205,532	197,084	+1.2	+4.3	+0.2	204,869	178,540	209,554	185,341	+10.5	1,577,361	1,473,391
With unfilled orders	171,062	168,770	159,927	+1.4	+5.5	-0.8	167,190	151,732	170,577	152,169	+9.9	1,292,245	1,217,766
Stone, clay, and glass products	8,793	8,520	8,527	+3.2	-0.1	+1.7	9,293	8,593	9,266	8,345	+11.4	67,967	63,688
Primary metals	15,579	15,730	15,206	-1.0	+3.4	+2.7	15,474	14,435	15,295	14,148	+9.4	120,334	120,662
Blast furnaces, steel mills	6,072	5,872	5,885	+3.4	-0.2	+0.4	5,975	5,307	5,829	5,356	+11.6	47,006	48,937
Iron and steel foundries	1,648	1,621	1,400	+1.7	+15.8	+2.9	1,674	1,334	1,425	1,564	+7.0	11,914	12,215
Nonferrous and other primary													
metals	7,859	8,237	7,921	-4.6	+4.0	+4.4	7,825	7,794	8,041	7,228	+8.3	61,414	59,510
Fabricated metal products	20,993	20,286	20,284	+3.5	0.0	+0.4	21,394	18,325	21,509	20,076	+6.6	163,179	157,876
Industrial machinery and equipment	39,401	40,257	36,435	-2.1	+10.5	-3.6	36,779	35,206	42,284	34,642	+6.2	301,085	290,603
Engines and turbines	2,994	2,906	1,942	+3.0	+49.6	-31.0	2,887	2,428	2,394	3,423	-15.7	22,564	17,557
Construction, mining and													
material handling equipment	3,619	3,695	3,621	-2.1	+2.0	-2.7	3,260	3,235	3,900	3,503	-6.9	30,466	34,403
Metalworking machinery	3,809	3,925	3,427	-3.0	+14.5	-6.9	3,673	3,344	3,797	3,313	+10.9	27,732	26,529
Computer and office equipment	12,410	13,281	11,280	-6.6	+17.7	-2.9	11,256	11,047	14,774	9,897	+13.7	89,053	82,143
Electronic and other													
electrical equipment	38,289	37,976	35,158	+0.8	+8.0	+3.2	38,014	37,743	35,607	29,587	+28.5	276,371	242,309
Electrical transmission and													
distribution equipment and													
industrial apparatus	4,445	4,047	3,736	+9.8	+8.3	-3.5	4,436	3,671	3,995	3,634	+22.1	30,859	28,871
Electric lighting and													
wiring equipment	2,465	2,523	2,686	-2.3	-6.1	+20.4	2,464	2,122	2,789	2,198	+12.1	18,768	17,609
Communications equipment	8,425	8,899	8,640	-5.3	+3.0	+3.2	7,426	7,578	10,145	6,084	+22.1	63,002	54,521
Electronic components	17,148	16,694	14,305	+2.7	+16.7	+1.4	17,712	19,370	12,566	12,314	+43.8	120,009	101,318
Transportation equipment	49,487	47,235	46,253	+4.8	+2.1	+1.1	48,696	31,078	47,846	45,717	+6.5	368,074	336,533
Aircraft, missiles,													
space vehicles, and parts.	11,436	10,302	9,117	+11.0	+13.0	-12.1	9,850	8,490	9,138	11,650	-15.5	80,942	83,259
Shipbuilding and tanks	614	680	275	-9.7	147.3	-52.5	578	575	432	456	+26.8	7,005	5,802
Instruments and related products	14,237	14,166	13,887	+0.5	+2.0	-3.4	13,683	12,629	14,925	12,764	+7.2	111,672	107,485
Search and navigation equipment	2,874	2,875	3,091	0.0	-7.0	-0.5	2,504	2,196	3,363	2,433	+2.9	23,796	21,597
Measuring and controlling devices	4,124	4,165	4,071	-1.0	+2.3	+1.0	4,082	3,669	4,388	3,806	+7.3	32,477	31,473
Medical instruments and supplies	4,901	4,836	4,400	+1.3	+9.9	-12.1	4,872	4,683	4,498	4,237	+15.0	37,715	36,253
All other durable goods	21,246	21,362	21,334	-0.5	+0.1	+0.4	21,536	20,531	22,822	20,062	+7.3	168,679	154,235
Nondurable goods industries	156,648	154,371	154,044	+1.5	+0.2	+1.6	160,609	150,050	161,243	150,575	+6.7	1,209,976	1,178,818
With unfilled orders	38,610	38,034	37,765	+1.5	+0.7	+0.4	39,917	37,657	39,160	38,252	+4.4	297,723	297,328

^p Preliminary. ^r Revised.

¹ Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations.

(n) When new orders for a prior month are negative because of cancellations, the percentage change calculation is algebraically negative, even though there is a net dollar increase from the prior month to the current month.

Note: Estimates of manufacturers' shipments, inventories and orders are subject to survey error and revision. One major component of survey error is nonsampling error, which includes errors of coverage, response, and nonreporting. Since the survey panel is not a probability sample, estimates of sampling error cannot be calculated. Further details on survey design, methodology, and data limitations are contained in our most recent annual benchmark publication, Current Industrial Reports: M3-1(96), "Manufacturers' Shipments, Inventories, and Orders: 1987-1996."

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS
(Millions of dollars)

Industry	Seasonally adjusted						Not seasonally adjusted				
	Monthly			Percent Change			Monthly				Percent change Aug. 99/98
	Aug. 1999 ^P	July 1999 ^F	June 1999	July- Aug.	June- July	May- June	Aug. 1999 ^P	July 1999 ^F	June 1999	Aug. 1998	
All manufacturing industries	523,069	520,666	518,064	+0.5	+0.5	-0.7	524,858	523,311	515,003	529,830	-0.9
Manufacturing industries without defense capital goods	430,615	426,868	424,158	+0.9	+0.6	-0.6	433,795	429,607	420,615	434,824	-0.2
Durable goods industries	497,661	496,152	493,888	+0.3	+0.5	-0.8	498,361	497,545	490,254	504,851	-1.3
Stone, clay, and glass products	5,993	6,024	6,082	-0.5	-1.0	-0.8	6,011	6,078	6,126	6,482	-7.3
Primary metals	31,943	31,496	30,669	+1.4	+2.7	+1.8	31,787	31,544	30,683	31,275	+1.6
Blast furnaces, steel mills	12,775	12,534	12,343	+1.9	+1.5	+2.2	12,653	12,574	12,436	12,601	+0.4
Iron and steel foundries	4,978	4,893	4,838	+1.7	+1.1	-2.7	4,922	4,835	4,822	5,585	-11.9
Nonferrous and other primary metals	14,190	14,069	13,488	+0.9	+4.3	+3.0	14,212	14,135	13,425	13,089	+8.6
Fabricated metal products	25,369	25,200	25,308	+0.7	-0.4	-1.0	25,586	25,503	25,386	26,789	-4.5
Industrial machinery and equipment	79,356	79,059	78,236	+0.4	+1.1	-1.1	78,763	78,518	77,409	72,505	+8.6
Engines and turbines	22,785	22,515	22,175	+1.2	+1.5	-2.3	22,496	22,066	21,498	12,906	+74.3
Construction, mining and material handling equipment	8,885	8,995	9,088	-1.2	-1.0	-2.7	8,550	8,859	9,168	10,269	-16.7
Metalworking machinery	7,018	6,971	6,681	+0.7	+4.3	-1.8	7,018	6,971	6,681	7,335	-4.3
Computer and office equipment	8,428	8,339	8,184	+1.1	+1.9	+1.4	8,674	8,587	8,181	8,164	+6.2
Electronic and other electrical equipment	71,550	68,748	66,145	+4.1	+3.9	+1.5	73,679	70,027	63,193	59,696	+23.4
Electrical transmission and distribution equipment and industrial apparatus	6,819	6,507	6,430	+4.8	+1.2	+0.4	6,858	6,510	6,421	6,451	+6.3
Electric lighting and wiring equipment	5,313	5,375	5,299	-1.2	+1.4	+3.5	5,313	5,375	5,299	5,186	+2.4
Communications equipment	17,808	18,156	18,113	-1.9	+0.2	+0.6	17,760	18,132	18,084	16,790	+5.8
Electronic components	35,854	32,871	30,443	+9.1	+8.0	+1.9	37,982	34,302	27,643	25,408	+49.5
Transportation equipment	228,235	230,164	231,745	-0.8	-0.7	-1.5	227,252	230,154	231,774	251,682	-9.7
Aircraft, missiles, space vehicles, and parts.	193,361	194,586	195,163	-0.6	-0.3	-1.1	192,325	194,576	195,385	216,604	-11.2
Shipbuilding and tanks	18,668	19,127	19,428	-2.4	-1.5	-3.2	18,692	19,172	19,500	16,938	+10.4
Instruments and related products	46,853	47,049	47,223	-0.4	-0.4	-1.5	46,613	46,875	47,080	48,013	-2.9
Search and navigation equipment	25,858	26,129	26,461	-1.0	-1.3	-0.4	25,551	26,069	26,750	27,080	-5.6
Measuring and controlling devices	10,227	10,325	10,325	-0.9	0.0	-0.5	10,227	10,325	10,325	10,283	-0.5
Medical instruments and supplies	9,898	9,741	9,601	+1.6	+1.5	-5.4	9,960	9,614	9,152	9,640	+3.3
All other durable goods	8,362	8,412	8,480	-0.6	-0.8	+0.5	8,670	8,846	8,603	8,409	+3.1
Non durable goods industries	25,408	24,514	24,176	+3.6	+1.4	+1.4	26,497	25,766	24,749	24,979	+6.1

^P Preliminary. ^F Revised.

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

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS
(Millions of dollars)

Industry	Seasonally adjusted						Not seasonally adjusted				
	Monthly			Percent Change			Monthly				Percent change Aug. 99/98
	Aug. 1999 ^P	July 1999 ^r	June 1999	July- Aug.	June- July	May- June	Aug. 1999 ^P	July 1999 ^r	June 1999	Aug. 1998	
All manufacturing industries	464,617	465,043	462,690	-0.1	+0.5	-0.2	468,000	466,515	460,432	471,596	-0.8
Manufacturing industries with unfilled orders	308,363	309,105	307,649	-0.2	+0.5	-0.3	312,454	311,801	307,382	318,882	-2.0
without defense capital goods	446,088	446,435	444,400	-0.1	+0.5	-0.2	449,045	447,493	442,120	452,163	-0.7
Durable goods industries	292,707	293,505	291,645	-0.3	+0.6	-0.3	295,850	294,990	290,135	299,838	-1.3
With unfilled orders	267,992	268,648	266,959	-0.2	+0.6	-0.4	271,384	270,591	266,314	276,614	-1.9
Stone, clay, and glass products	9,618	9,473	9,395	+1.5	+0.8	+0.1	9,582	9,514	9,511	9,118	+5.1
Primary metals	23,639	23,693	23,674	-0.2	+0.1	-0.4	23,758	23,797	23,498	24,933	-4.7
Blast furnaces, steel mills	11,321	11,396	11,468	-0.7	-0.6	-1.1	11,411	11,451	11,262	12,485	-8.6
Iron and steel foundries	1,600	1,605	1,611	-0.3	-0.4	-0.4	1,568	1,591	1,638	1,556	+0.8
Nonferrous and other primary metals	10,718	10,692	10,595	+0.2	+0.9	+0.5	10,779	10,755	10,598	10,892	-1.0
Fabricated metal products	31,095	31,005	30,740	+0.3	+0.9	-0.9	31,136	31,198	31,023	30,970	+0.5
Industrial machinery and equipment	60,003	59,791	59,867	+0.4	-0.1	-0.8	60,793	59,753	59,347	61,693	-1.5
Engines and turbines	4,493	4,490	4,273	+0.1	+5.1	-2.0	4,691	4,550	4,146	4,320	+8.6
Farm and garden machinery	3,507	3,530	3,601	-0.7	-2.0	-0.7	3,255	3,261	3,385	3,486	-6.6
Construction, mining and material handling equipment	8,844	8,877	8,879	-0.4	0.0	-1.0	8,738	8,781	8,903	8,692	+0.5
Metalworking machinery	8,058	8,010	8,112	+0.6	-1.3	+0.7	8,455	8,218	8,100	8,285	+2.1
Computer and office equipment	9,135	8,765	9,004	+4.2	-2.7	+0.5	9,719	8,916	8,999	9,984	-2.7
Electronic and other electrical equipment	41,285	41,221	40,997	+0.2	+0.5	+0.4	42,080	41,832	41,032	41,197	+2.1
Electrical transmission and distribution equipment and industrial apparatus	5,258	5,242	5,214	+0.3	+0.5	-0.6	5,264	5,226	5,124	5,309	-0.8
Household appliances	2,327	2,384	2,410	-2.4	-1.1	-1.1	2,280	2,399	2,446	2,342	-2.6
Electric lighting and wiring equipment	3,588	3,570	3,566	+0.5	+0.1	+0.9	3,681	3,664	3,607	3,561	+3.4
Household audio and video equipment	1,013	1,136	1,043	-10.8	+8.9	+6.3	1,122	1,268	1,049	1,109	+1.2
Communications equipment	10,778	10,749	10,731	+0.3	+0.2	+0.6	11,073	10,929	10,624	10,596	+4.5
Electronic components	14,697	14,481	14,453	+1.5	+0.2	-0.2	14,894	14,552	14,521	14,547	+2.4
Transportation equipment	71,000	72,403	71,596	-1.9	+1.1	-0.3	71,892	72,709	70,500	76,819	-6.4
Motor vehicles and parts	17,639	17,677	17,597	-0.2	+0.5	+2.1	17,951	17,939	17,125	16,842	+6.6
Aircraft, missiles, space vehicles, and parts	47,170	48,623	48,037	-3.0	+1.2	-1.3	47,669	48,611	47,431	54,179	-12.0
Shipbuilding and tanks	2,272	2,224	2,208	+2.2	+0.7	+6.3	2,277	2,220	2,221	1,828	+24.6
Instruments and related products	27,104	26,930	26,587	+0.6	+1.3	-0.2	27,612	27,276	26,663	27,121	+1.8
Search and navigation equipment	6,785	6,788	6,691	0.0	+1.4	-1.2	6,978	7,015	6,737	6,890	+1.3
Measuring and controlling devices	8,282	8,122	8,023	+2.0	+1.2	+0.7	8,427	8,191	8,102	8,212	+2.6
Medical instruments and supplies	8,873	8,838	8,724	+0.4	+1.3	+0.6	9,009	8,899	8,693	8,614	+4.6
Photographic goods	2,417	2,433	2,424	-0.7	+0.4	-3.3	2,454	2,423	2,403	2,695	-8.9
All other durable goods	28,963	28,989	28,789	-0.1	+0.7	+0.4	28,997	28,911	28,561	27,987	+3.6
Nondurable goods industries	171,910	171,538	171,045	+0.2	+0.3	-0.2	172,150	171,525	170,297	171,758	+0.2
With unfilled orders	40,371	40,457	40,690	-0.2	-0.6	+0.3	41,070	41,210	41,068	42,268	-2.8
Food and kindred products	38,117	38,019	38,037	+0.3	0.0	-0.4	37,813	36,946	36,600	36,828	+2.7
Meat products	4,330	4,285	4,254	+1.1	+0.7	+1.0	4,248	4,304	4,329	3,956	+7.4
Dairy products	3,922	3,875	3,875	+1.2	0.0	-0.3	3,986	3,998	3,938	3,844	+3.7
Beverages	8,754	8,695	8,797	+0.7	-1.2	+0.2	8,528	8,459	8,678	7,993	+6.7
All other foods, except fats and oils	19,542	19,537	19,409	0.0	+0.7	-0.8	19,633	18,630	18,013	19,368	+1.4
Tobacco products	5,151	5,160	5,208	-0.2	-0.9	-1.9	4,805	4,645	4,750	5,234	-8.2
Textile mill products	10,056	10,026	10,107	+0.3	-0.8	+0.6	10,142	10,163	10,193	10,317	-1.7
Broadwoven fabrics and other textiles	6,144	6,116	6,171	+0.5	-0.9	-0.2	6,169	6,167	6,170	6,389	-3.4
Paper and allied products	15,890	16,009	16,070	-0.7	-0.4	+0.3	15,862	15,971	16,066	16,602	-4.5
Pulp, paper, and paperboard mill products	6,329	6,408	6,473	-1.2	-1.0	-0.6	6,300	6,350	6,428	6,704	-6.0
Paperboard containers and boxes	4,025	3,974	3,942	+1.3	+0.8	+0.4	4,031	3,981	3,943	4,320	-6.7
Miscellaneous converted paper products	5,536	5,627	5,655	-1.6	-0.5	+1.3	5,531	5,640	5,695	5,578	-0.8
Chemicals and allied products	46,716	46,848	46,581	-0.3	+0.6	-0.7	46,628	47,019	46,543	46,489	+0.3
Industrial chemicals	19,405	19,404	19,113	0.0	+1.5	-0.6	19,429	19,444	18,956	20,284	-4.2
Drugs, soaps, and toiletries	21,388	21,523	21,581	-0.6	-0.3	-0.9	21,595	21,929	21,949	20,806	+3.8
Petroleum and coal products	11,536	11,144	10,814	+3.5	+3.1	+1.0	11,713	11,275	10,985	10,828	+8.2
Rubber and plastics products	17,156	17,050	16,902	+0.6	+0.9	0.0	17,000	17,061	16,930	16,508	+3.0
All other nondurable goods	27,288	27,282	27,326	0.0	-0.2	+0.3	28,187	28,445	28,230	28,952	-2.6

^P Preliminary. ^r Revised.

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

**Table 5. VALUE OF MANUFACTURERS' SHIPMENTS AND NEW ORDERS
FOR TOPICAL SERIES¹
(Millions of dollars)**

Industry	Seasonally adjusted						Not seasonally adjusted ²						
	Monthly			Percent Change			Monthly				Percent change	Year to date	
	Aug. 1999 ^p	July 1999 ^r	June 1999	July-Aug.	June-July	May-June	Aug. 1999 ^p	July 1999 ^r	June 1999	Aug. 1998	Aug. 99/98	1999 ^p	1998
SHIPMENTS													
All manufacturing industries	362,270	357,301	354,702	+1.4	+0.7	+1.2	363,931	320,282	380,057	337,377	+7.9	2,775,465	2,653,937
Market categories :													
Automotive equipment	17,045	16,809	16,967	+1.4	-0.9	+6.5	17,429	10,180	17,746	15,005	+16.2	128,035	111,822
Home goods and apparel	20,054	20,035	19,645	+0.1	+2.0	-1.7	21,176	18,725	20,592	20,034	+5.7	156,203	148,592
Consumer staples	74,926	74,010	74,050	+1.2	-0.1	+2.0	76,641	71,795	77,136	70,871	+8.1	573,976	544,591
Machinery and equipment	70,551	69,036	68,232	+2.2	+1.2	0.0	67,132	57,136	77,374	60,645	+10.7	529,725	496,638
Business supplies	26,888	26,701	26,505	+0.7	+0.7	+0.7	27,081	25,331	27,806	25,674	+5.5	208,144	201,677
Construction materials and supplies	23,497	23,376	23,303	+0.5	+0.3	+1.9	24,695	23,137	25,145	22,766	+8.5	182,816	171,980
Defense products	6,710	6,785	6,565	-1.1	+3.4	-4.1	6,478	6,022	7,025	6,784	-4.5	52,776	53,610
Other materials, supplies and intermediate products	122,599	120,549	119,435	+1.7	+0.9	+1.3	123,299	107,956	127,233	115,598	+6.7	943,790	925,027
Durable goods industries :													
Nondefense capital goods ³	57,577	56,095	54,472	+2.6	+3.0	-1.9	53,933	48,646	63,559	47,823	+12.8	424,962	396,866
Excluding aircraft and parts	48,360	48,774	46,459	-0.8	+5.0	+0.2	45,168	42,377	54,986	40,798	+10.7	359,389	338,987
Defense capital goods ⁴	6,495	6,584	6,278	-1.4	+4.9	-5.9	6,223	5,750	6,734	6,462	-3.7	50,766	50,838
Durables excluding capital goods	142,444	140,589	140,240	+1.3	+0.2	+2.2	143,897	116,853	149,131	131,773	+9.2	1,093,312	1,027,170
Miscellaneous series :													
Producers' durable equipment	135,651	133,226	131,602	+1.8	+1.2	+1.0	132,498	106,291	145,448	119,098	+11.3	1,024,272	950,858
Household durable goods	10,699	10,585	10,262	+1.1	+3.1	-1.5	10,715	9,206	10,937	9,288	+15.4	80,798	72,306
Information technology industries	28,073	28,928	26,666	-3.0	+8.5	-0.2	25,810	24,338	32,606	22,636	+14.0	204,372	187,053
Health care equipment and products	13,277	13,063	13,317	+1.6	-1.9	+2.8	12,975	12,061	14,439	11,654	+11.3	101,495	92,575
NEW ORDERS													
All manufacturing industries	364,673	359,903	351,128	+1.3	+2.5	+0.8	365,478	328,590	370,797	335,916	+8.8	2,787,337	2,652,209
Market categories :													
Automotive equipment	17,046	16,797	16,986	+1.5	-1.1	+6.5	17,465	10,209	17,737	14,994	+16.5	128,140	111,686
Home goods and apparel	20,008	20,081	19,580	-0.4	+2.6	-0.2	20,978	19,021	20,340	20,143	+4.1	156,987	148,561
Consumer staples	75,118	74,014	74,127	+1.5	-0.2	+2.0	76,878	72,218	77,462	70,786	+8.6	575,095	545,197
Machinery and equipment	69,222	68,011	64,842	+1.8	+4.9	-1.9	65,693	56,557	72,751	63,811	+2.9	523,146	502,562
Business supplies	27,124	26,729	26,481	+1.5	+0.9	+0.4	27,361	25,580	27,784	25,567	+7.0	209,432	202,445
Construction materials and supplies	23,493	23,499	23,502	0.0	0.0	+3.4	24,591	23,265	25,340	22,543	+9.1	183,670	172,405
Defense products	5,347	6,709	5,492	-20.3	+22.2	-9.8	3,884	5,475	5,240	4,068	-4.5	48,138	46,124
Other materials, supplies and intermediate products	127,315	124,063	120,118	+2.6	+3.3	+1.1	128,628	116,265	124,143	114,004	+12.8	962,729	923,229
Durable goods industries :													
Nondefense capital goods ³	56,926	55,030	50,948	+3.4	+8.0	-3.9	53,204	47,804	59,120	51,767	+2.8	418,274	401,431
Excluding aircraft and parts	48,266	48,763	44,540	-1.0	+9.5	-3.3	44,996	42,589	52,152	41,663	+8.0	362,124	340,392
Defense capital goods ⁴	5,151	6,476	5,209	-20.5	+24.3	-13.5	3,582	5,066	4,913	3,574	+0.2	46,116	43,628
Durables excluding capital goods	145,948	144,026	140,927	+1.3	+2.2	+2.5	148,083	125,670	145,521	130,000	+13.9	1,112,971	1,028,332
Miscellaneous series :													
Producers' durable equipment	133,824	131,905	128,463	+1.5	+2.7	+0.6	130,774	106,225	140,467	121,434	+7.7	1,017,074	955,031
Household durable goods	10,582	10,652	10,258	-0.7	+3.8	+2.0	10,563	9,557	10,759	9,443	+11.9	81,245	71,938
Information technology industries	27,594	28,962	26,823	-4.7	+8.0	+0.4	25,327	24,636	32,474	22,290	+13.6	205,919	189,060
Health care equipment and products	13,433	13,203	12,775	+1.7	+3.4	-3.2	13,320	12,524	13,374	11,675	+14.1	101,874	93,793

^p Preliminary. ^r Revised.

¹ Topical series are regroupings of the separate industry categories.

² Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations.

³ Nondefense capital goods industries include : ordnance and accessories; steam, gas and hydraulic turbines; internal combustion engines; construction, mining, and material handling equipment; metalworking machinery; special industry machinery; general industrial machinery; computer and office equipment; refrigeration, heating and air conditioning equipment; electrical transmission and distribution equipment; electrical industrial apparatus; communications equipment; aircraft, missiles, space vehicles, and engines and parts; ships and tank components; railroad equipment; and search and navigation equipment.

⁴ Defense capital goods industries include : ordnance and accessories; communications equipment; aircraft, missiles, space vehicles, and engines and parts; ships, tanks, and tank components; and search and navigation equipment.

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

**Table 6. VALUE OF MANUFACTURERS' UNFULFILLED ORDERS AND TOTAL INVENTORIES
FOR TOPICAL SERIES¹
(Millions of dollars)**

Industry	Seasonally adjusted						Not seasonally adjusted				
	Monthly			Percent Change			Monthly				Percent change Aug. 99/98
	Aug. 1999 ^p	July 1999 ^r	June 1999	July- Aug.	June- July	May- June	Aug. 1999 ^p	July 1999 ^r	June 1999	Aug. 1998	
UNFILED ORDERS											
All manufacturing industries	523,069	520,666	518,064	+0.5	+0.5	-0.7	524,858	523,311	515,003	529,830	-0.9
Market categories :											
Automotive equipment	2,494	2,493	2,505	0.0	-0.5	+0.8	2,510	2,474	2,445	2,351	+6.8
Home goods and apparel	8,910	8,956	8,911	-0.5	+0.5	-0.7	9,095	9,293	8,997	8,526	+6.7
Consumer staples	2,889	2,697	2,693	+7.1	+0.1	+2.9	3,381	3,145	2,721	2,655	+27.3
Machinery and equipment	233,988	235,318	236,343	-0.6	-0.4	-1.4	233,991	235,429	236,008	248,666	-5.9
Business supplies	7,378	7,142	7,114	+3.3	+0.4	-0.3	7,809	7,529	7,279	7,200	+8.5
Construction materials and supplies	18,038	18,042	17,919	0.0	+0.7	+1.1	18,094	18,198	18,071	18,051	+0.2
Defense products	87,623	88,985	89,061	-1.5	-0.1	-1.2	86,277	88,871	89,418	90,059	-4.2
Other materials, supplies and and intermediate products	161,749	157,033	153,518	+3.0	+2.3	+0.4	163,701	158,372	150,064	152,322	+7.5
Durable goods industries :											
Nondefense capital goods ³	250,884	251,535	252,600	-0.3	-0.4	-1.4	250,394	251,123	251,965	265,781	-5.8
Excluding aircraft and parts	109,802	109,896	109,907	-0.1	0.0	-1.7	109,312	109,484	109,272	104,577	+4.5
Defense capital goods ⁴	92,454	93,798	93,906	-1.4	-0.1	-1.1	91,063	93,704	94,388	95,006	-4.2
Durables excluding capital goods	154,323	150,819	147,382	+2.3	+2.3	+0.5	156,904	152,718	143,901	144,064	+8.9
Miscellaneous series :											
Producers' durable equipment	272,196	274,023	275,344	-0.7	-0.5	-1.1	272,306	274,030	274,096	287,287	-5.2
Household durable goods	5,491	5,608	5,541	-2.1	+1.2	-0.1	5,608	5,760	5,409	5,415	+3.6
Information technology industries	40,420	40,899	40,865	-1.2	+0.1	+0.4	40,663	41,146	40,848	39,977	+1.7
Health care equipment and products	9,940	9,783	9,643	+1.6	+1.5	-5.3	10,004	9,659	9,195	9,682	+3.3
TOTAL INVENTORIES											
All manufacturing industries	464,617	465,043	462,690	-0.1	+0.5	-0.2	468,000	466,515	460,432	471,596	-0.8
Market categories :											
Automotive equipment	8,818	8,876	8,817	-0.7	+0.7	+1.9	9,027	9,023	8,630	8,555	+5.5
Home goods and apparel	31,431	31,515	31,431	-0.3	+0.3	+0.3	32,043	32,439	32,272	32,355	-1.0
Consumer staples	74,590	74,397	74,284	+0.3	+0.2	-0.5	74,409	73,540	73,131	72,505	+2.6
Machinery and equipment	115,798	116,962	116,397	-1.0	+0.5	-0.5	117,282	117,099	115,171	122,311	-4.1
Business supplies	28,261	28,231	28,174	+0.1	+0.2	0.0	28,600	28,551	28,205	28,490	+0.4
Construction materials and supplies	29,539	29,438	29,218	+0.3	+0.8	+0.3	29,629	29,585	29,319	28,760	+3.0
Defense products	18,194	18,324	18,088	-0.7	+1.3	-0.2	18,564	18,710	18,116	19,105	-2.8
Other materials, supplies and and intermediate products	157,986	157,300	156,281	+0.4	+0.7	-0.3	158,446	157,568	155,588	159,515	-0.7
Durable goods industries :											
Nondefense capital goods ³	107,500	108,390	107,909	-0.8	+0.4	-0.8	109,098	108,615	106,922	114,503	-4.7
Excluding aircraft and parts	72,410	71,949	71,729	+0.6	+0.3	-0.5	73,811	72,516	71,343	73,188	+0.9
Defense capital goods ⁴	18,529	18,608	18,290	-0.4	+1.7	-0.7	18,955	19,022	18,312	19,433	-2.5
Durables excluding capital goods	166,678	166,507	165,446	+0.1	+0.6	+0.2	167,797	167,353	164,901	165,902	+1.1
Miscellaneous series :											
Producers' durable equipment	189,250	190,148	189,119	-0.5	+0.5	-0.2	191,551	191,121	188,043	195,391	-2.0
Household durable goods	16,236	16,308	16,239	-0.4	+0.4	-0.7	16,523	16,634	16,411	16,459	+0.4
Information technology industries	33,435	32,871	32,842	+1.7	+0.1	+0.3	34,565	33,393	32,801	33,956	+1.8
Health care equipment and products	20,453	20,488	20,402	-0.2	+0.4	-0.2	20,699	20,766	20,566	19,883	+4.1

See footnotes at end of table 5.

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

**Table 7. VALUE OF MANUFACTURERS' INVENTORIES, BY STAGE OF FABRICATION,
BY INDUSTRY GROUP**
(Millions of dollars)

Industry	Seasonally adjusted						Not seasonally adjusted				
	Monthly			Percent Change			Monthly				Percent change Aug. 99/98
	Aug. 1999 ^a	July 1999 ^a	June 1999	July- Aug.	June- July	May- June	Aug. 1999 ^a	July 1999 ^a	June 1999	Aug. 1998	
MATERIALS AND SUPPLIES											
All manufacturing industries	153,472	153,915	152,952	-0.3	+0.6	+0.1	153,787	154,458	151,818	155,901	-1.4
Durable goods industries	92,505	92,918	92,031	-0.4	+1.0	+0.4	93,277	93,582	91,023	93,739	-0.5
Stone, clay, and glass products	3,207	3,204	3,192	+0.1	+0.4	-0.3	3,232	3,205	3,184	3,110	+3.9
Primary metals	7,404	7,393	7,358	+0.1	+0.5	0.0	7,491	7,412	7,218	8,074	-7.2
Fabricated metal products	10,557	10,537	10,440	+0.2	+0.9	+0.4	10,602	10,579	10,427	10,682	-0.7
Industrial machinery and equipment	19,766	19,959	19,999	-1.0	-0.2	0.0	20,098	20,090	19,913	20,082	+0.1
Electronic and other electrical equipment	16,060	16,420	15,913	-2.2	+3.2	+2.2	16,309	16,793	15,720	15,947	+2.3
Transportation equipment	15,298	15,406	15,270	-0.7	+0.9	-0.2	15,261	15,662	15,116	15,535	-1.8
Instruments and related products	9,182	9,075	9,014	+1.2	+0.7	+1.1	9,294	9,117	9,039	9,388	-1.0
Lumber, furniture and miscellaneous durable goods	11,031	10,924	10,845	+1.0	+0.7	-0.8	10,990	10,724	10,406	10,921	+0.6
Nondurable goods industries	60,967	60,997	60,921	0.0	+0.1	-0.4	60,510	60,876	60,795	62,162	-2.7
Food and kindred products	11,585	11,543	11,593	+0.4	-0.4	-0.4	11,278	11,342	11,475	11,103	+1.6
Tobacco products	4,556	4,568	4,595	-0.3	-0.6	-1.4	4,333	4,209	4,292	4,619	-6.2
Textile mill products	2,864	2,828	2,873	+1.3	-1.6	+1.1	2,872	2,872	2,896	2,978	-3.6
Paper and allied products	7,688	7,713	7,707	-0.3	+0.1	+0.4	7,664	7,668	7,669	8,110	-5.5
Chemicals and allied products	15,445	15,654	15,476	-1.3	+1.2	-1.4	15,384	15,784	15,574	15,527	-0.9
Petroleum and coal products	3,251	3,262	3,249	-0.3	+0.4	+1.6	3,260	3,288	3,311	3,324	-1.9
Rubber and plastics products	6,985	6,916	6,855	+1.0	+0.9	+0.1	6,917	6,968	6,823	6,758	+2.4
Apparel, printing and publishing and leather goods	8,593	8,513	8,573	+0.9	-0.7	-0.4	8,802	8,745	8,755	9,743	-9.7
WORK IN PROCESS											
All manufacturing industries	145,624	147,073	146,609	-1.0	+0.3	-0.8	147,623	147,796	145,249	154,284	-4.3
Durable goods industries	115,525	116,737	116,056	-1.0	+0.6	-1.0	117,598	117,414	115,081	124,932	-5.9
Stone, clay, and glass products	1,521	1,469	1,453	+3.5	+1.1	+2.6	1,541	1,486	1,484	1,362	+13.1
Primary metals	8,108	8,166	8,195	-0.7	-0.4	-1.2	8,164	8,283	8,170	8,668	-5.8
Fabricated metal products	9,009	8,969	8,966	+0.4	0.0	-0.2	9,144	9,062	8,987	9,176	-0.3
Industrial machinery and equipment	21,790	21,839	21,709	-0.2	+0.6	-1.4	22,266	21,890	21,530	23,586	-5.6
Electronic and other electrical equipment	14,164	14,119	14,160	+0.3	-0.3	-1.9	14,416	14,232	14,294	14,470	-0.4
Transportation equipment	45,440	46,856	46,294	-3.0	+1.2	-0.7	46,206	46,818	45,257	52,093	-11.3
Instruments and related products	10,012	9,926	9,901	+0.9	+0.3	-1.0	10,283	10,185	9,957	10,213	+0.7
Lumber, furniture and miscellaneous durable goods	5,481	5,393	5,378	+1.6	+0.3	-1.0	5,578	5,458	5,402	5,364	+4.0
Nondurable goods industries	30,099	30,336	30,553	-0.8	-0.7	-0.2	30,025	30,382	30,168	29,352	+2.3
Food and kindred products	6,105	6,137	6,146	-0.5	-0.1	+0.5	5,612	5,636	5,665	5,176	+8.4
Tobacco products	76	82	82	-7.3	0.0	0.0	76	78	75	108	-29.6
Textile mill products	2,435	2,473	2,490	-1.5	-0.7	-0.8	2,444	2,491	2,464	2,681	-8.8
Paper and allied products	1,664	1,662	1,671	+0.1	-0.5	+1.8	1,672	1,670	1,691	1,621	+3.1
Chemicals and allied products	8,914	9,122	9,292	-2.3	-1.8	-2.6	8,995	9,314	9,397	8,792	+2.3
Petroleum and coal products	2,846	2,639	2,577	+7.8	+2.4	+0.2	2,902	2,636	2,586	2,491	+16.5
Rubber and plastics products	2,257	2,305	2,316	-2.1	-0.5	+1.0	2,256	2,280	2,260	2,229	+1.2
Apparel, printing and publishing and leather goods	5,802	5,916	5,979	-1.9	-1.1	+2.1	6,068	6,277	6,030	6,254	-3.0
FINISHED GOODS											
All manufacturing industries	165,521	164,055	163,129	+0.9	+0.6	0.0	166,590	164,261	163,365	161,411	+3.2
Durable goods industries	84,677	83,850	83,558	+1.0	+0.3	0.0	84,975	83,994	84,031	81,167	+4.7
Stone, clay, and glass products	4,890	4,800	4,750	+1.9	+1.1	-0.4	4,809	4,823	4,843	4,646	+3.5
Primary metals	8,127	8,134	8,121	-0.1	+0.2	+0.2	8,103	8,102	8,110	8,191	-1.1
Fabricated metal products	11,529	11,499	11,334	+0.3	+1.5	-2.5	11,390	11,557	11,609	11,112	+2.5
Industrial machinery and equipment	18,447	17,993	18,159	+2.5	-0.9	-0.9	18,429	17,773	17,904	18,025	+2.2
Electronic and other electrical equipment	11,061	10,682	10,924	+3.5	-2.2	+0.9	11,355	10,807	11,018	10,780	+5.3
Transportation equipment	10,262	10,141	10,032	+1.2	+1.1	+1.6	10,425	10,229	10,127	9,191	+13.4
Instruments and related products	7,910	7,929	7,672	-0.2	+3.3	-0.7	8,035	7,974	7,667	7,520	+6.8
Lumber, furniture and miscellaneous durable goods	12,451	12,672	12,566	-1.7	+0.8	+2.2	12,429	12,729	12,753	11,702	+6.2
Nondurable goods industries	80,844	80,205	79,571	+0.8	+0.8	0.0	81,615	80,267	79,334	80,244	+1.7
Food and kindred products	20,427	20,339	20,298	+0.4	+0.2	-0.6	20,923	19,968	19,460	20,549	+1.8
Tobacco products	519	510	531	+1.8	-4.0	-5.9	396	358	383	507	-21.9
Textile mill products	4,757	4,725	4,744	+0.7	-0.4	+1.0	4,826	4,800	4,833	4,658	+3.6
Paper and allied products	6,538	6,634	6,692	-1.4	-0.9	-0.2	6,526	6,633	6,706	6,871	-5.0
Chemicals and allied products	22,357	22,072	21,813	+1.3	+1.2	+0.5	22,249	21,921	21,572	22,170	+0.4
Petroleum and coal products	5,439	5,243	4,988	+3.7	+5.1	+1.1	5,551	5,351	5,088	5,013	+10.7
Rubber and plastics products	7,914	7,829	7,731	+1.1	+1.3	-0.4	7,827	7,813	7,847	7,521	+4.1
Apparel, printing and publishing and leather goods	12,893	12,853	12,774	+0.3	+0.6	0.0	13,317	13,423	13,445	12,955	+2.8

Table 8. RATIOS OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP
(Based on seasonally adjusted data)

Industry	Inventory / Shipments ratio				Unfilled Orders / Shipments ratio ¹			
	Aug. 1999 ^p	July 1999 ^r	June 1999	May 1999	Aug. 1999 ^p	July 1999 ^r	June 1999	May 1999
All manufacturing industries	1.28	1.30	1.30	1.32	2.52	2.55	2.57	2.59
Durable goods industries	1.42	1.44	1.45	1.47	2.94	2.98	3.01	3.03
Stone, clay, and glass products	1.09	1.10	1.10	1.11	0.71	0.73	0.74	0.76
Primary metals	1.56	1.59	1.61	1.64	2.11	2.11	2.09	2.07
Fabricated metal products	1.49	1.52	1.50	1.52	1.29	1.31	1.31	1.33
Industrial machinery and equipment	1.53	1.52	1.60	1.61	2.13	2.10	2.20	2.22
Electronic and other electrical equipment	1.16	1.17	1.20	1.21	2.02	1.94	1.93	1.93
Transportation equipment	1.38	1.48	1.44	1.47	8.12	8.96	8.78	8.65
Instruments and related products	1.88	1.88	1.82	1.86	3.25	3.28	3.23	3.35
Nondurable goods industries	1.10	1.11	1.11	1.13	0.67	0.65	0.65	0.64
Food and kindred products	0.92	0.92	0.90	0.92	(X)	(X)	(X)	(X)
Tobacco products	1.20	1.21	1.23	1.31	(X)	(X)	(X)	(X)
Textile mill products	1.55	1.53	1.57	1.54	(NA)	(NA)	(NA)	(NA)
Paper and allied products	1.14	1.18	1.19	1.20	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products	1.33	1.36	1.35	1.40	(X)	(X)	(X)	(X)
Petroleum and coal products	0.76	0.77	0.79	0.82	(X)	(X)	(X)	(X)
Rubber and plastics products	1.25	1.27	1.24	1.25	(X)	(X)	(X)	(X)

^p Preliminary. ^r Revised. (X) Not applicable. (NA) Not available.

¹ Excludes the following industries with no unfilled orders : Wood and lumber products; glass containers; metal cans, barrels and drums; farm and garden machinery; motor vehicle assembly operations; other transportation equipment; foods and related products; tobacco; knitting mill products; apparel and related products; chemicals; petroleum and coal products; and rubber and plastics products.

Table 9. REVISIONS TO PREVIOUSLY PUBLISHED MONTHLY PERCENT CHANGES
(Based on seasonally adjusted data)

Industry	Shipments			New orders			Unfilled orders			Inventories		
	Aug. ¹ 1999	Aug. ² 1994-1998	Aug. 1998-July 1999	Aug. ¹ 1999	Aug. ² 1994-1998	Aug. 1998-July 1999	Aug. ¹ 1999	Aug. ² 1994-1998	Aug. 1998-July 1999	Aug. ¹ 1999	Aug. ² 1994-1998	Aug. 1998-July 1999
All manufacturing industries	(X)	0.1	0.1	(X)	0.2	0.2	(X)	0.1	0.1	(X)	0.0	0.0
Durable goods industries	0.3	0.1	0.2	0.3	0.3	0.4	0.0	0.1	0.1	(X)	0.1	0.1
Stone, clay, and glass products	(X)	0.4	0.4	(X)	0.8	0.5	(X)	0.4	0.5	(X)	0.1	0.1
Primary metals	0.1	0.2	0.2	0.7	1.2	0.9	0.4	0.5	0.4	(X)	0.1	0.0
Fabricated metal products	(X)	0.2	0.3	(X)	0.4	0.4	(X)	0.2	0.3	(X)	0.2	0.1
Industrial machinery and equipment	0.1	0.3	0.4	-0.1	0.2	0.3	-0.1	0.1	0.1	(X)	0.1	0.1
Electronic and other electrical equipment	0.6	0.4	0.4	0.9	0.7	1.3	0.3	0.2	0.6	(X)	0.1	0.2
Transportation equipment	0.1	0.6	0.6	0.2	1.2	1.0	0.0	0.1	0.1	(X)	0.0	0.2
Instruments and related products	(X)	0.3	0.7	(X)	0.5	1.3	(X)	0.1	0.3	(X)	0.1	0.1
Nondurable goods industries	(X)	0.0	0.1	(X)	0.1	0.1	(X)	0.2	0.2	(X)	0.0	0.1
Food and kindred products	(X)	0.1	0.2	(X)	(X)	(X)	(X)	(X)	(X)	(X)	0.2	0.2
Tobacco products	(X)	0.0	0.0	(X)	(X)	(X)	(X)	(X)	(X)	(X)	0.0	0.1
Textile mill products	(X)	0.2	0.3	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	0.1	0.1
Paper and allied products	(X)	0.2	0.2	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	0.1	0.1
Chemicals and allied products	(X)	0.1	0.2	(X)	(X)	(X)	(X)	(X)	(X)	(X)	0.1	0.1
Petroleum and coal products	(X)	0.3	0.5	(X)	(X)	(X)	(X)	(X)	(X)	(X)	0.4	0.6
Rubber and plastics products	(X)	0.1	0.2	(X)	(X)	(X)	(X)	(X)	(X)	(X)	0.1	0.2
Capital goods industries :												
Nondefense	0.0	0.2	0.3	-0.2	0.3	0.5	-0.1	0.1	0.1	(X)	0.1	0.1
Defense	-0.1	0.3	0.6	0.0	4.8	4.2	0.0	0.2	0.2	(X)	0.1	0.2

(X) Not applicable. (NA) Not available.

Note : The five year and 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.

¹ The current month revisions are the difference between the advance percent change and the percent change as shown in this publication.

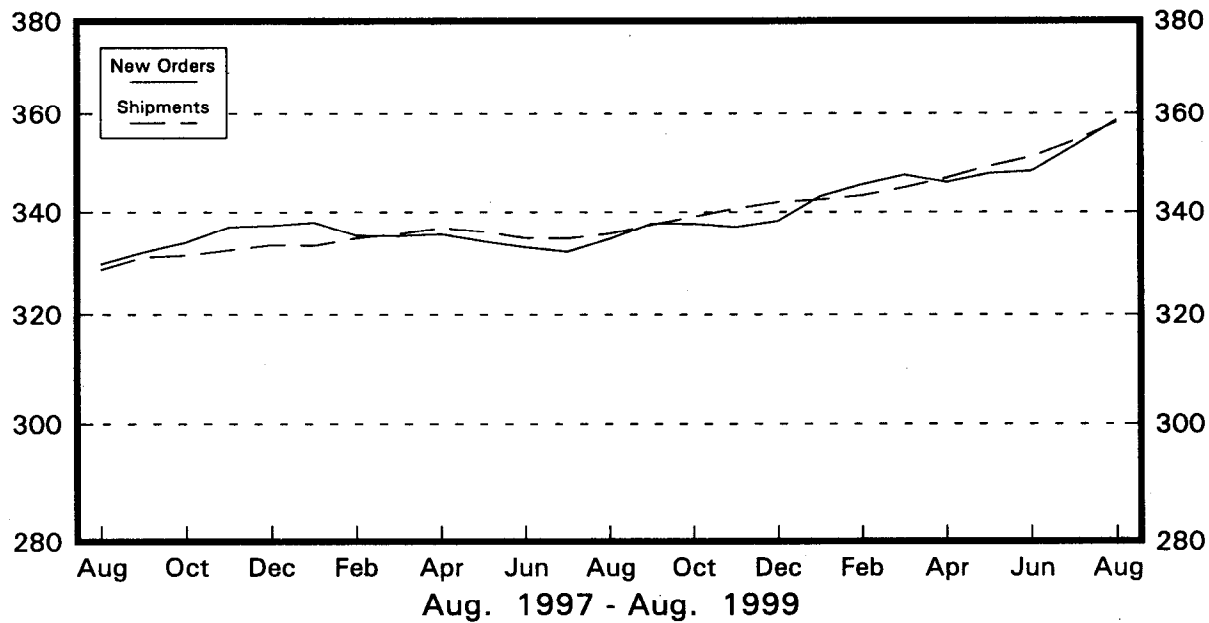
² Average for this month for the last five years.

Total Manufacturing

New Orders and Shipments

Three Month Moving Averages

Billions of Dollars

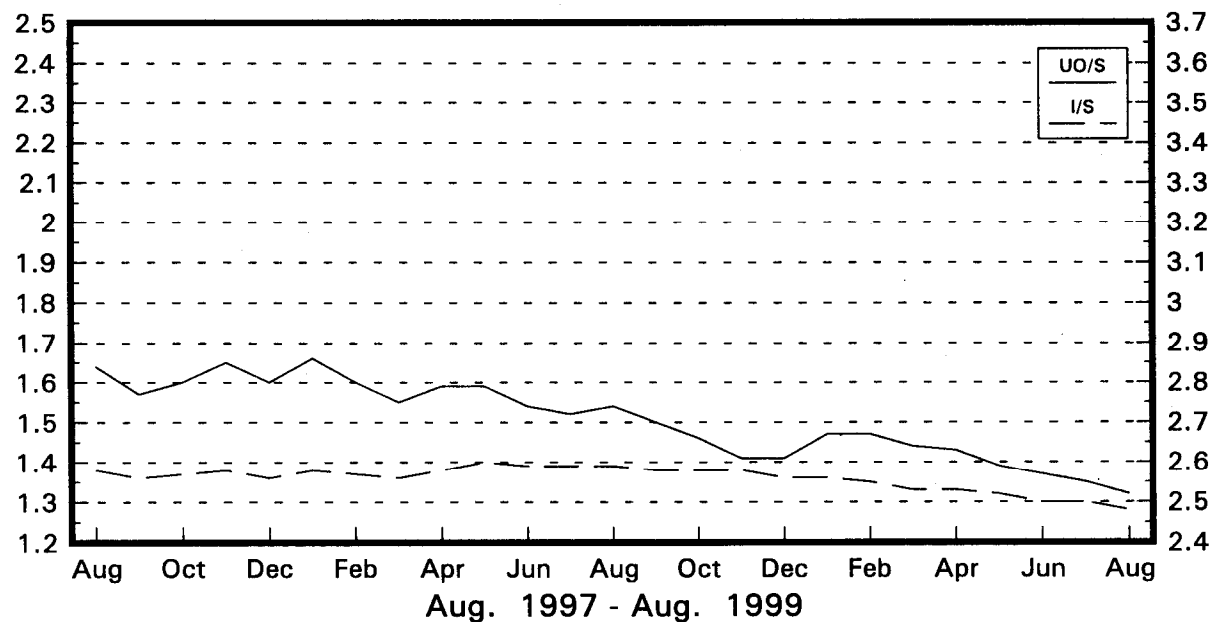


Total Manufacturing

Ratio of Unfilled Orders and Inventories to Shipments

I/S Ratios

UO/S Ratios



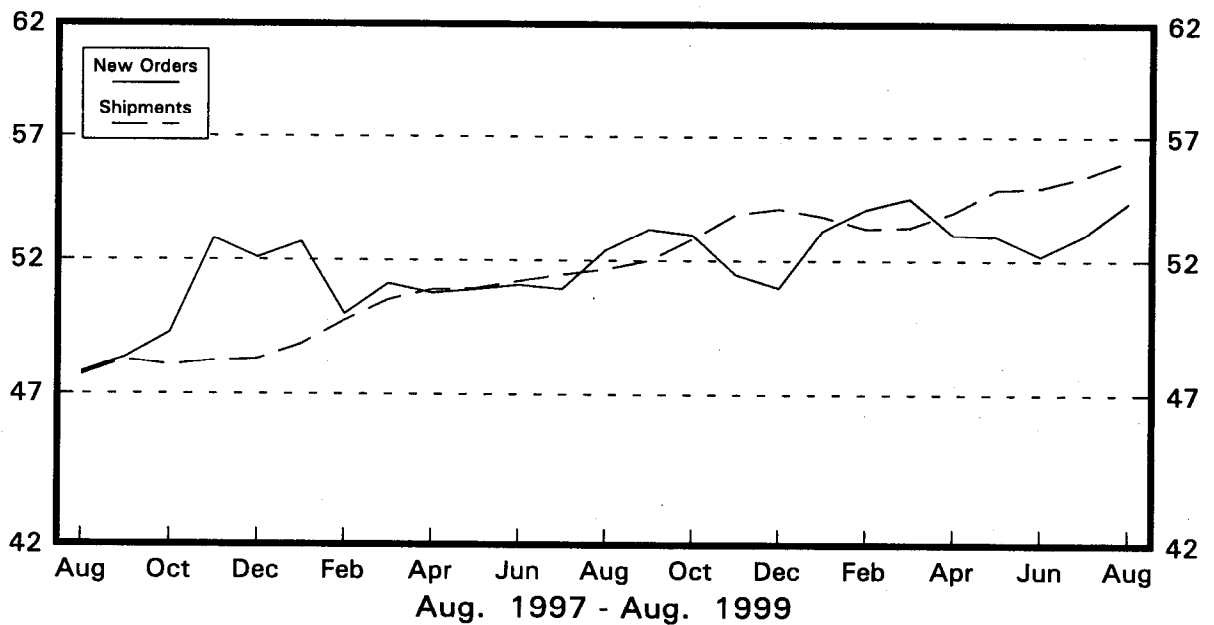
Note: All Charts based on seasonally adjusted current dollars.

Nondefense Capital Goods

11

New Orders and Shipments
Three Month Moving Averages

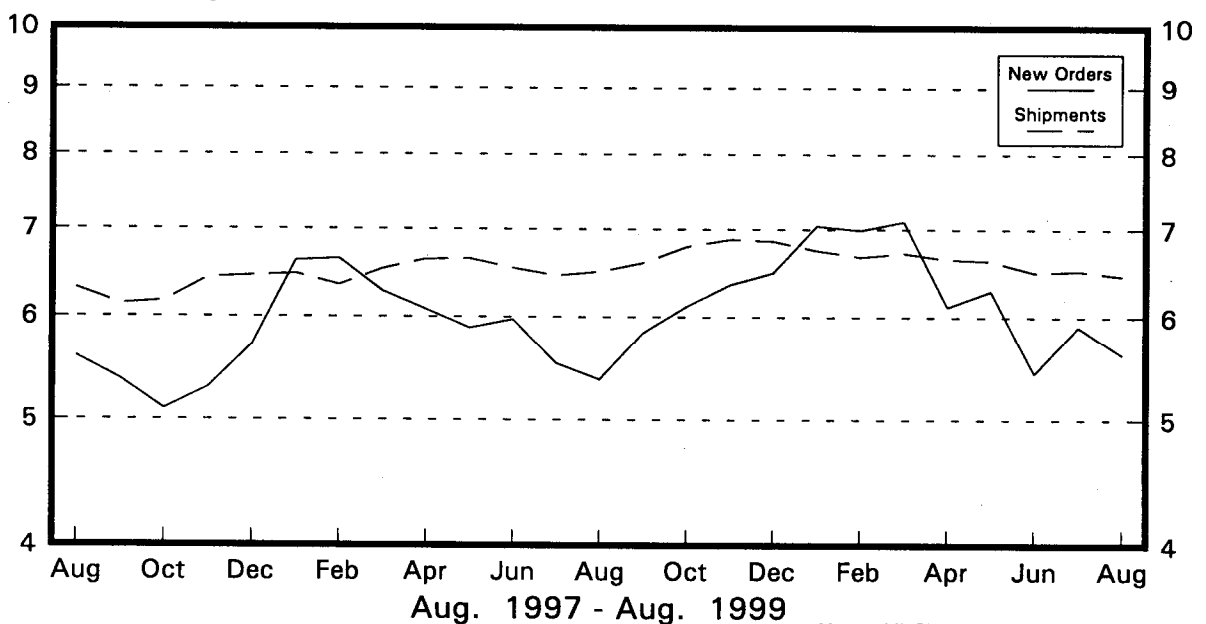
Billions of Dollars



Defense Capital Goods

New Orders and Shipments
Three Month Moving Averages

Billions of Dollars



Note: All Charts based on seasonally adjusted current dollars.