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MONTHLY WHOLESALE TRADE: SALES AND INVENTORIES March 2012

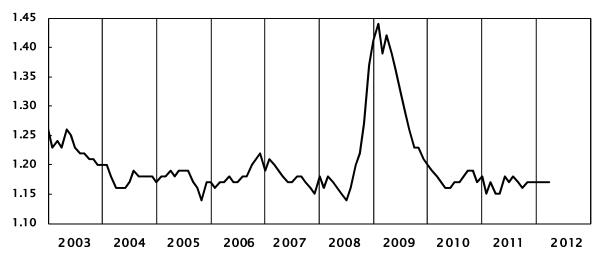
Sales. The U.S. Census Bureau announced today that March 2012 sales of merchant wholesalers, except manufacturers' sales branches and offices, after adjustment for seasonal variations and trading-day differences but not for price changes, were \$411.1 billion, up 0.5 percent (+/-0.7)* from the revised February level and were up 6.5 percent (+/-1.2%) from the March 2011 level. The February preliminary estimate was revised downward \$0.4 billion or 0.1 percent. March sales of durable goods were down 0.6 percent (+/-1.1%)* from last month, but were up 7.8 percent (+/-1.2%) from a year ago. Sales of nondurable goods were up 1.5 percent (+/-0.7%) from February and were up 5.5 percent (+/-1.4%) from last March. Sales of farm product raw materials were up 4.3 percent from last month and sales of petroleum and petroleum products were up 2.7 percent.

Inventories. Total inventories of merchant wholesalers, except manufacturers' sales branches and offices, after adjustment for seasonal variations but not for price changes, were \$480.4 billion at the end of March, up 0.3 percent (+/-0.4%)* from the revised February level and were up 8.4 percent (+/-1.2%) from the March 2011 level. The February preliminary estimate was virtually unchanged. March inventories of durable goods were up 1.0 percent (+/-0.4%) from last month and were up 10.8 percent (+/-1.6%) from a year ago. Inventories of lumber and other construction materials were up 2.1 percent from last month and inventories of machinery, equipment, and supplies were up 1.6 percent. Inventories of nondurable goods were down 0.6 percent (+/-0.5%) from February, but were up 5.1 percent (+/-1.4%) from last March. Inventories of petroleum and petroleum products were down 5.9 percent from last month and inventories of paper and paper products were down 2.0 percent.

Inventories/Sales Ratio. The March inventories/sales ratio for merchant wholesalers, except manufacturers' sales branches and offices, based on seasonally adjusted data, was 1.17. The March 2011 ratio was 1.15.

Data in this report are based on a sample and, therefore, are subject to sampling and nonsampling error. A discussion of the reliability of the estimates and general survey methodology can be found at: http://www.census.gov/wholesale/www/how_surveys_are_collected/monthly_methodology.html.

Monthly Inventories/Sales Ratios of Merchant Wholesalers, Except Manufacturers'
Sales Branches and Offices: 2003 to 2012
(Estimates adjusted for seasonal and trading-day differences, but not for price changes)



Monthly Wholesale Trade for April is scheduled to be released June 8, 2012 at 10:00 a.m. EDT.

For customized wholesale time series estimates by industry, visit the Census Bureau's website at http://www.census.gov/timeseries. For additional survey information, visit http://www.census.gov/timeseries.

^{*} The 90 percent confidence interval includes zero. The Census Bureau does not have sufficient statistical evidence to conclude that the actual change is different from zero.

Table 1. Estimates of Monthly Sales, Inventories, and Inventories/Sales Ratios of Merchant Wholesalers, Except Manufacturers' Sales Branches and Offices

[Total sales and inventories estimates are shown in millions of dollars. Estimates are based on data from the Monthly Wholesale Trade Survey.]

-		Sales							Inventories						Inventories/Sales		
NAICS ¹	Kind of	Monthly			Percent change			Monthly Percent change						Ratios			
code	Business	Mar.	Feb.	Mar.	Mar./	Feb./	Mar. 12/	Mar.	Feb.	Mar.	Mar./	Feb./	Mar. 12/	Mar.	Feb.	Mar.	
couc	Dubiness	2012	2012	2011	Feb.	Jan.	Mar. 11	2012	2012	2011	Feb.	Jan.	Mar. 11	2012	2012	2011	
	1	(p)	(r)	(r)				(p)	(r)	(r)				(p)	(r)	(r)	
<u>Adjusted</u>																	
42	U.S. Total	411,092		385,965	0.5	1.1	6.5				0.3	0.9		1.17	1.17	1.15	
423	.Durable	184,503	185,635	171,199	-0.6	0.4	7.8	280,962	278,248	253,561	1.0	0.6	10.8	1.52	1.50	1.48	
4231	Automotive	31,874	32,427	26,345	-1.7	-0.7	21.0	44,381	44,192	38,423	0.4	-1.0	15.5	1.39	1.36	1.46	
4232	Furniture	4,494		4,336	0.2	0.2	3.6	7,198	7,129		1.0	0.4	1.3	1.60	1.59	1.64	
4233	Lumber	9,161	8,870	8,071	3.3	2.6	13.5	12,344	12,096		2.1	1.8	1.5	1.35	1.36	1.51	
4234	Prof. equip.	32,044	31,944	31,393	0.3	1.7	2.1	31,827	31,466		1.1	0.1	3.6	0.99	0.99	0.98	
42343	Comp. equip.	16,414	16,488	16,428	-0.4	2.5	-0.1	11,825	11,721	11,549	0.9	-0.3	2.4	0.72	0.71	0.70	
4235	Metals	13,196		12,348	-1.1	0.5	6.9	26,903	26,557	23,050	1.3	1.5	16.7	2.04	1.99	1.87	
4236	Electrical	31,150	1	31,020	-0.7	-1.4	0.4	41,083	41,089		0.0	0.2	7.0	1.32	1.31 1.97	1.24	
4237 4238	Hardware Machinery	9,000 32,812	1	8,501 27,358	-1.3 1.7	3.6 0.6	5.9 19.9	17,973 73,834	17,977 72,691	16,787 64,247	0.0 1.6	0.2 2.1	7.1 14.9	2.00 2.25	2.25	1.97 2.35	
4239	Misc. Durable	20,772		21,827	-4.8	0.8	-4.8	25,419	25,051	22,652	1.5	-0.8		1.22	1.15	1.04	
423 <i>9</i>	.Nondurable	226,589		214,766	1.5	1.6	5.5	199,473	200,675		-0.6	1.4	5.1	0.88	0.90	0.88	
		-															
4241	Paper ³	7,100		7,100	1.6	0.3	0.0	7,235	7,382	7,329	-2.0	-3.2		1.02	1.06	1.03	
4242	Drugs	36,243	36,155	34,793	0.2	-0.4	4.2	34,823	34,235		1.7	1.2	6.9	0.96	0.95	0.94	
4243	Apparel	11,464	11,472	11,166	-0.1	-0.9	2.7	21,924	21,801	20,238	0.6	-0.6		1.91	1.90	1.81	
4244	Groceries	47,901	48,294	44,574	-0.8	1.4	7.5 -5.9	34,271	34,484	31,764	-0.6	1.4	7.9	0.72	0.71	0.71	
4245	Farm products	17,658		18,763	4.3	-1.0		21,625	20,939		3.3	2.9		1.22	1.24	1.31	
4246	Chemicals ³	9,924	9,802	9,713	1.2	1.3	2.2	11,565	11,491	10,430	0.6	1.2	10.9	1.17	1.17	1.07	
4247	Petroleum	65,766	1 '	60,775	2.7	4.4	8.2	27,697	29,437	25,889	-5.9	5.9		0.42	0.46	0.43	
4248 4249	Alcohol Misc. Nondur.	10,127 20,406	10,072 19,561	9,568 18,314	0.5 4.3	0.8 1.1	5.8 11.4	12,732 27,601	12,879 28,027		-1.1 -1.5	-0.5 -0.3	4.5 11.5	1.26 1.35	1.28 1.43	1.27 1.35	
	•	20,400	19,501	10,314	4.5	1.1	11.4	27,001	20,027	24,702	-1.5	-0.3	11.5		les to da		
<u>Not Adjı</u>	<u>istea</u> 							2012		011							
42	U.S. Total	430,070	382,933	413.865	12.3	0.3	3.9	483,667	483,658	446,738	0.0	1.3	8.3	1,194		,095,997	
423	.Durable	194,421	171,209	185,368	13.6	0.9	4.9	279,368	278,153	252,144	0.4	1.3	10.8	535	,269	481,465	
4231	Automotive	34,647	31,487	29,559	10.0	4.7	17.2	44,692	46,181	38,730	-3.2	1.5	15.4		,207	77,556	
4232	Furniture	4,588		4,570	10.6	-2.1	0.4	6,996	7,001	6,914	-0.1	-0.9	1.2		,973	12,260	
4233	Lumber	9,143	1	8,281	20.4	5.8	10.4	12,937	12,205		6.0	5.8			,914	20,041	
4234	Prof. equip.	34,640	1	34,846	20.5	0.8	-0.6	30,809	31,246		-1.4	-0.6	3.5		,913	89,416	
42343	Comp. equip.	17,957		18,449	23.5	1.5	-2.7	11,257	11,158		0.9	-4.1	2.3	46	,828	46,470	
4235	Metals	13,724	12,704	13,237	8.0	-3.1	3.7	26,742	26,212	22,866	2.0	1.3	17.0	39	,535	34,876	
4236	Electrical	31,898	29,080	32,509	9.7	-0.4	-1.9	39,974	40,267	37,403	-0.7	-0.6	6.9	90	,163	85,705	
4237	Hardware	9,117	8,218	8,884	10.9	1.3	2.6	18,081	17,995	16,854	0.5	2.1	7.3	25	,446	23,276	
4238	Machinery	34,978	29,351	30,149	19.2	0.6	16.0	74,277	72,546	64,697	2.4	3.8	14.8	93	,515	77,877	
4239	Misc. Durable	21,686	19,878	23,333	9.1	-0.8	-7.1	24,860	24,500	22,154	1.5	-2.6	12.2	61	,603	60,458	
424	.Nondurable	235,649	211,724	228,497	11.3	-0.2	3.1	204,299	205,505	194,594	-0.6	1.3	5.0	659	,579	614,532	
4241	Paper	7,270	6,599	7,490	10.2	-1.2	-2.9	7,235	7,382	7,329	-2.0	-3.2	-1.3	20	,546	20,349	
4242	Drugs	37,403	34,564	37,368	8.2	-4.3	0.1	35,311	32,934	32,900	7.2	-0.8	7.3	108	,071	102,367	
4243	Apparel	11,670		11,903	1.2	10.8	-2.0	20,652	21,430		-3.6	-4.0			,601	32,340	
4244	Groceries	50,440	1 '	47,516	8.8	1.8	6.2	33,825	34,070		-0.7	0.4	8.1		,361	127,217	
4245	Farm products	18,594	1 '	20,789	9.0	-9.0	-10.6	24,479	25,420		-3.7	0.8			,394	59,102	
4246	Chemicals	10,311	9,322	10,315	10.6	-4.1	0.0	11,565	11,491	10,430	0.6	1.2	10.9		,354	27,728	
4247	Petroleum	67,805	1	63,145	12.9	-1.2	7.4	28,528	30,114		-5.3	9.2	7.1		,731	169,722	
4248	Alcohol	10,016		9,826	14.3	15.8	1.9	12,757	12,647		0.9	0.7	4.5		,344	24,728	
4249 Footnotes:	Misc. Nondur.	22,140	17,448	20,145	26.9	5.2	9.9	29,947	30,017	26,892	-0.2	3.2	11.4	56	,177	50,979	

Footnotes:

Estimates have not been adjusted for price changes. Table 2 provides estimated measures of sampling variability. Additional information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions may be found at http://www.census.gov/wholesale/www/how_surveys_are_collected/monthly_methodology.html.

^p Preliminary estimate.

r Revised estimate.

¹ For a full description of the NAICS codes used in this table, see the 2002 NAICS manual or http://www.census.gov/epcd/naics02/naicod02.htm#N42.

² Except where indicated, sales and inventories estimates are adjusted for seasonal variation. Estimates of sales are also adjusted for trading-day differences and moving holidays. See Table 3 for the combined adjustment factors. Adjusted sales-to-date estimates are not tabulated.

³ No discernible seasonal pattern for this NAICS code was detected in the latest annual review of the seasonal adjustment for inventories. Consequently, the "Adjusted" inventories estimates are equal to the "Not Adjusted" estimates.

Note:

Table 2. Estimated Measures of Sampling Variability of Monthly Wholesale Sales and Inventory Estimates

[Estimates are shown as percents and are based on data from the Monthly Wholesale Trade Survey.]

	Kind of Business	Coefficie	nt of variatio				dard error f	•	Coeffic variation	Standard error for percent change		
NAICS code		Preliminary	estimates	Final estimates			of two ve months	current m	month to nonth last ear	Sales to date		Current year sales to date to
		Sales	Inv.	Sales	Inv.	Sales	Inv.	Sales	Inv.	Current year	Previous year	previous year sales to date
42	U.S. Total	1.2	1.7	1.2	1.7	0.4	0.2	0.7	0.7	1.2	1.1	0.6
423	.Durable	1.5	1.8	1.5	1.9	0.6	0.2	0.7	0.9	1.6	1.4	0.7
4231	Automotive	4.6	5.1	3.9	5.0	1.0	0.6	1.9	2.1	4.3	3.9	2.0
4232	Furniture	6.3	7.9	6.6	7.8	1.8	0.6	3.9	2.1	6.4	4.8	4.1
4233	Lumber	6.1	8.4	5.2	8.7	1.8	0.8	2.4	2.0	5.5	5.8	2.3
4234	Prof. equip.	4.2	4.4	4.0	4.5	0.8	0.4	1.1	1.6	4.1	4.7	1.2
42343	Comp. equip.	7.1	6.0	7.0	6.1	1.2	0.5	1.6	2.2	7.1	8.5	1.9
4235	Metals	5.3	4.9	5.4	4.9	1.8	0.5	2.1	1.8	5.8	5.5	2.1
4236	Electrical	3.5	4.1	3.9	3.9	1.1	0.3	1.5	0.9	3.7	3.7	1.7
4237	Hardware	5.1	5.2	5.1	5.3	0.9	0.2	1.8	1.4	5.3	4.9	1.8
4238	Machinery	3.5	4.7	3.7	4.8	1.3	0.5	2.4	1.6	3.7	3.5	2.9
4239	Misc. Durable	7.6	5.9	7.1	5.7	1.8	0.6	2.4	3.5	7.3	6.5	2.3
424	.Nondurable	1.6	2.4	1.5	2.5	0.4	0.3	0.8	0.8	1.5	1.4	0.8
4241	Paper	8.1	6.9	8.1	7.1	0.8	0.6	1.7	2.8	8.0	7.6	1.7
4242	Drugs	4.8	4.9	4.3	5.0	0.5	0.5	2.0	1.8	4.3	4.3	1.7
4243	Apparel	4.4	6.9	5.1	6.7	2.3	1.0	3.7	4.5	4.7	4.4	4.0
4244	Groceries	5.5	8.7	5.4	9.8	0.8	0.9	1.9	1.6	5.5	5.6	1.9
4245	Farm products	7.3	8.5	6.4	8.5	1.8	0.9	3.2	2.6	6.8	6.2	2.8
4246	Chemicals	5.3	7.4	5.2	6.9	1.8	1.0	2.3	1.7	5.3	5.4	2.1
4247	Petroleum	4.4	3.9	4.2	4.0	1.5	0.7	1.3	1.2	4.2	4.1	1.1
4248	Alcohol	4.2	4.4	4.1	4.1	0.6	0.5	1.8	2.1	4.2	5.0	2.3
4249	Misc. Nondur.	5.2	6.9	5.6	7.1	2.0	0.5	1.3	2.9	5.6	5.6	1.1
Note:												

Note:

Estimated measures of sampling variability are based on estimates not adjusted for seasonal variation, trading-day differences, or moving holidays. Additional information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions may be found at http://www.census.gov/wholesale/www/how_surveys_are_collected/monthly_methodology.html.

Reliability of the Estimates

Because the estimates presented in this report are based on a sample survey, they contain sampling error and nonsampling error.

Sampling error is the difference between the estimate and the result that would be obtained from a complete enumeration of the sampling frame conducted under the same survey conditions. This error occurs because only a subset of the entire sampling frame is measured in a sample survey. Standard errors and coefficients of variation (CV), as given in Table 2 of this report, are estimated measures of sampling variation.

The margin of sampling error , as used on page 1, gives a range about the estimate, which can be used to construct a 90-percent confidence interval. If, for example, the percent change estimate is ± 1.2 percent and its estimated standard error is 0.8 percent, then the margin of sampling error is $\pm 1.753 \times 0.8$ percent or ± 1.4 percent, and the 90 percent confidence interval is 1.2 ± 1.4 or ± 1.4 percent to 2.6 percent. If the interval contains 0, then one does not have sufficient statistical evidence to conclude at the 90 percent confidence level that the actual change is different from zero. Estimated changes shown in the text are statistically significant unless otherwise noted. For a monthly total, the estimated coefficient of variation is given. The resulting confidence interval is the estimated monthly total $\pm 1.753 \times \text{CV} \times \text{(the estimated monthly total)}$. The Census Bureau recommends that individuals using estimates in this report incorporate this information into their analyses, as sampling error could affect the conclusions drawn from the estimates.

Nonsampling error encompasses all other factors that contribute to the total error of a sample survey estimate. This type of error can occur because of nonresponse, insufficient coverage of the universe of wholesale businesses, mistakes in the recording and coding of data, model error, and other errors of collection, response, coverage, or processing. Although nonsampling error is not measured directly, the Census Bureau employs quality control procedures throughout the process to minimize this type of error.

Table 3. Combined 1 Adjustment Factors for Monthly Wholesale Sales and Inventory Estimates

[Combined adjustment factors are computed using the Census Bureau's X-13 ARIMA program and are based on data from the Monthly Wholesale Trade Survey.]

NAICS	Kind of	Sales							Inventories						
code	Business	2012				20	11		20	2011					
		Apr.	Mar.r	Feb.r	Jan.	Dec.	Mar.r	Apr.	Mar.r	Feb.r	Jan.	Dec.	Mar.r		
42	U.S. Total ²	1.002	1.048	0.936	0.932	0.985	1.075	0.997	1.005	1.010	1.008	1.006	1.004		
423	.Durable	0.984	1.056	0.922	0.917	0.999	1.087	0.996	0.993	0.999	0.995	0.987	0.993		
4231	Automotive	1.000	1.087	0.971	0.921	1.028	1.122	0.980	1.007	1.045	1.020	1.019	1.008		
4232	Furniture	0.953	1.021	0.925	0.947	0.951	1.054	0.976	0.972	0.982	0.995	0.990	0.973		
4233	Lumber	1.015	0.998	0.856	0.830	0.793	1.026	1.048	1.048	1.009	0.971	0.933	1.048		
4234	Prof. equip.	0.928	1.081	0.900	0.908	1.117	1.110	0.987	0.968	0.993	1.000	0.984	0.969		
42343	Comp. equip.	0.900	1.094	0.882	0.891	1.171	1.123	0.985	0.952	0.952	0.990	0.981	0.953		
4235	Metals	1.005	1.040	0.952	0.987	0.859	1.072	1.002	0.994	0.987	0.989	0.999	0.992		
4236	Electrical	0.955	1.024	0.927	0.917	0.959	1.048	0.981	0.973	0.980	0.988	0.986	0.974		
4237	Hardware	1.005	1.013	0.901	0.921	0.898	1.045	1.006	1.006	1.001	0.982	0.984	1.004		
4238	Machinery	1.013	1.066	0.910	0.910	1.054	1.102	1.003	1.006	0.998	0.981	0.981	1.007		
4239	Misc. Durable	0.994	1.044	0.911	0.926	0.975	1.069	1.003	0.978	0.978	0.996	0.963	0.978		
424	.Nondurable	1.016	1.045	0.951	0.962	0.976	1.068	1.003	1.024	1.027	1.030	1.036	1.022		
4241	Paper ³	0.965	1.024	0.944	0.958	0.968	1.055	1.000	1.000	1.000	1.000	1.000	1.000		
4242	Drugs	0.961	1.032	0.956	0.995	0.995	1.074	0.998	1.014	0.962	0.981	1.084	1.010		
4243	Apparel	0.926	1.018	1.005	0.899	0.835	1.066	0.934	0.942	0.983	1.018	0.967	0.944		
4244	Groceries	1.006	1.053	0.960	0.957	0.992	1.066	0.982	0.987	0.988	0.997	1.017	0.985		
4245	Farm products	0.988	1.053	1.007	1.096	1.056	1.108	1.008	1.132	1.214	1.239	1.186	1.127		
4246	Chemicals ³	0.980	1.039	0.951	1.005	0.912	1.062	1.000	1.000	1.000	1.000	1.000	1.000		
4247	Petroleum	1.031	1.031	0.938	0.992	0.962	1.039	1.031	1.030	1.023	0.992	1.028	1.029		
4248	Alcohol	0.959	0.989	0.870	0.757	1.167	1.027	1.013	1.002	0.982	0.971	0.936	1.002		
4249	Misc. Nondur.	1.167	1.085	0.892	0.857	0.871	1.100	1.059	1.085	1.071	1.034	0.979	1.086		

Footnotes:

Note

The seasonal adjustment factors shown are estimates derived from a model that uses sample survey data as input. Therefore, these estimates may contain sampling error and nonsampling error. Additional information on the general form of the model and the X-13 ARIMA program may be found at http://www.census.gov/srd/www/x12a/.

Description of the Survey

The Census Bureau conducts the Monthly Wholesale Trade Survey (MWTS) to provide national estimates of monthly sales, end-of-month inventories, and inventories-to-sales ratios by kind of business for wholesale firms located in the United States. Specifically, the MWTS covers wholesale merchants who sell goods on their own account and include such businesses as wholesale merchants or jobbers, industrial distributors, exporters, and importers. Sales offices and branches maintained by manufacturing, refining, or mining firms for the purpose of marketing their products are not covered in this report. Also excluded is NAICS Industry Group 4251: Wholesale Electronic Markets and Agents and Brokers.

The MWTS sample was selected using a stratified, one-stage design with strata defined by kind of business (e.g., Automotive, Furniture, Lumber, etc.) and annual sales size. The sample includes firms of all sizes and is updated on a quarterly basis to account for new wholesale firms, deaths, and other changes to the wholesale universe. Each month, questionnaires are mailed to employer firms selected in a probability sample of approximately 4,500. Approximately 72% of those mailed provided data for this reporting period. Data for nonresponding firms are imputed based on data for similar-sized firms classified in the same kind of business. Approximately 32% of the total sales estimate and 30% of the total end-of-month inventories estimate is based on imputed data.

Monthly sales and inventories estimates are obtained by summing weighted data (either reported or imputed). The monthly estimates are benchmarked to annual survey estimates and are adjusted for seasonal variation and trading-day differences. Individuals who use estimates in this report to create new estimates should cite the Census Bureau as the source of only the original estimates. Additional information on the MWTS can be found on the Census Bureau website at: http://www.census.gov/wholesale.

r Revised factors.

¹ Combined factors for sales include the effects of seasonal variation, trading day differences, and moving holidays. Combined factors for inventories include only the effects of seasonal variation.

² Adjusted sales and inventories estimates for detailed kind-of-business levels in Table 1 are computed by dividing each "Not Adjusted" estimate by the combined adjustment factor for the corresponding kind of business and month. Adjusted estimates for broad kind-of-business levels are obtained by summing adjusted estimates at the appropriate detailed levels. Combined factors shown for broad kind-of-business levels may be used to approximate adjusted estimates at these levels, but the resulting estimates may differ slightly from the published estimates.

³ No discernible seasonal pattern for this NAICS code was detected in the latest annual review of the seasonal adjustment for inventories. Therefore, the combined adjustment factors for inventories are set to one for this NAICS code.