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MONTHLY WHOLESALE TRADE: SALES AND INVENTORIES August 2015

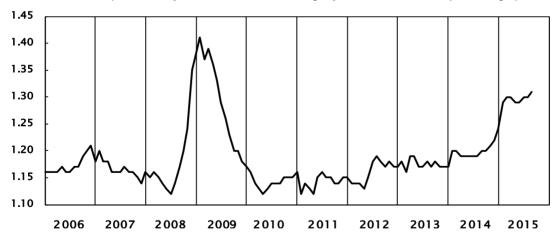
Sales. The U.S. Census Bureau announced today that August 2015 sales of merchant wholesalers, except manufacturers' sales branches and offices, after adjustment for seasonal variations and trading-day differences but not for price changes, were \$445.4 billion, down 1.0 percent (+/-0.7%) from the revised July level and were down 4.7 percent (+/-1.6%) from the August 2014 level. The July preliminary estimate was revised upward \$0.2 billion or 0.1 percent. August sales of durable goods were down 1.2 percent (+/-0.7%) from last month and were down 1.9 percent (+/-1.9%)* from a year ago. Sales of computer and computer peripheral equipment and software were down 5.1 percent from last month and sales of motor vehicle and motor vehicle parts and supplies were down 2.7 percent. Sales of nondurable goods were down 0.7 percent (+/-0.7%)* from July and were down 7.2 percent (+/-2.1%) from last August. Sales of petroleum and petroleum products were down 4.6 percent from last month and sales of farm product raw materials were down 3.1 percent.

Inventories. Total inventories of merchant wholesalers, except manufacturers' sales branches and offices, after adjustment for seasonal variations but not for price changes, were \$583.9 billion at the end of August, up 0.1 percent (+/-0.2%)* from the revised July level and were up 4.1 percent (+/-1.6%) from the August 2014 level. The July preliminary estimate was revised downward \$0.9 billion or 0.1 percent. August inventories of durable goods were up 0.3 percent (+/-0.4%)* from last month and were up 4.2 percent (+/-2.1%) from a year ago. Inventories of computer and computer peripheral equipment and software were up 1.9 percent from last month, while inventories of metals and minerals, except petroleum, were down 1.7 percent. Inventories of nondurable goods were down 0.2 percent (+/-0.4%)* from July, but were up 4.0 percent (+/-1.8%) from last August. Inventories of farm product raw materials were down 3.1 percent from last month, while inventories of beer, wine, and distilled alcoholic beverages were up 1.1 percent.

Inventories/Sales Ratio. The August inventories/sales ratio for merchant wholesalers, except manufacturers' sales branches and offices, based on seasonally adjusted data, was 1.31. The August 2014 ratio was 1.20.

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: 2006 to 2015
(Estimates adjusted for seasonal and trading-day differences, but not for price changes)



Monthly Wholesale Trade for September is scheduled to be released November 10, 2015 at 10:00 a.m. EST. For additional survey information, including customizable time series by industry, visit http://www.census.gov/wholesale.

To learn more about this release and the other indicators the U.S. Census Bureau publishes, join us for the Investigating Economic Indicators Webinar Series. For more information, visit http://www.census.gov/econ/webinar.

To receive the latest updates on the nation's key economic indicators, download the America's Economy app for Apple and Android smartphones and tablets.

The U.S. Census Bureau updated its Application Programming Interface (API) with monthly and quarterly economic indicators. The API allows developers to combine Census Bureau statistics with other data sets to create tools for research on a variety of topics. For more information, visit http://www.census.gov/developers.

^{*} 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.]

Kind of	Sales						Inventories Inventories/Sales								Sales
		Monthly				Monthly							Ratios		
	Aug.	Jul.	Aug.	Aug./	Jul./	Aug. 15/	Aug.	Jul.	Aug.	Aug./	Jul./	Aug. 15/	Aug.	Jul.	Aug.
Dusiness	2015	2015	2014	Jul.	Jun.	Aug. 14	2015	2015	2014	Jul.	Jun.	Aug. 14	2015	2015	2014
	(p)	(r)	(r)				(p)	(r)	(r)				(p)	(r)	(r)
U.S. Total	445,433	449,741	467,528	-1.0	-0.3	-4.7	583,865	583,425	560,661	0.1	-0.3	4.1	1.31		1.20
.Durable	214,928	217,508	219,009	-1.2	1.1	-1.9	360,088	359,165	345,466	0.3	-0.1	4.2	1.68	1.65	1.58
Automotive	35,894	36,881	34,974	-2.7	1.4	2.6	63,470	63,634	55,903	-0.3	0.9	13.5	1.77	1.73	1.60
Furniture	6,827	6,720	6,242	1.6	0.1	9.4	11,055	11,069	10,182	-0.1			1.62		1.63
	-					1.6		-	-						1.54
							,-								1.05
	-														0.79
															1.91 0.98
	-							-				1			2.07
	-							-				1			2.07
	-		-					-	-						1.33
														0.97	0.87
_	-								-					0.97	0.96
		-													1.13
_			.,			_	. ,	,	- /						1.13
• •	-		-	-	-			-	-					0.67	0.61
			20,786	-3.1	-3.3	-12.4	21,702			-3.1			1.19	1.19	0.98
			11,158	-2.0	0.6	-5.8	13,086		12,131	1.3	1.4	7.9	1.24	1.20	1.09
		44.301	66.689	-4.6	-9.4	-36.6	18.073		23.138	-1.4	-5.9	-21.9	0.43	0.41	0.35
Alcohol	11,431	11,327	10,628	0.9	0.3	7.6	15,574	15,406	14,761	1.1	-0.3	5.5	1.36	1.36	1.39
Misc. Nondur.	21,797	21,733	20,228	0.3	-0.5	7.8	29,013	28,789	27,579	0.8	0.6	5.2	1.33	1.32	1.36
<u>usted</u>													Sales to date		ıte
															2014
	439,345	455,804	462,251	-3.6	-3.5	-5.0	574,205	577,996	551,585	-0.7	0.1	4.1	-	•	,664,115
.Durable	213,316	218,802	217,800	-2.5	-4.5	-2.1	359,503	361,532	345,235	-0.6	0.5	4.1	1,702	,631 1	,678,426
Automotive	35,894	37,250	35,359	-3.6	-1.7	1.5	60,931	63,952	53,667	-4.7					271,406
	-							-							48,135
								-				1			73,068
	-		-					-	-						286,389
	-										-				149,457 122,516
	-			-				-	-			-		·	349,706
	-														80,243
	36,066	36,544	37,371	-1.3	-2.0	-3.5	102,904	103,299	99,557	-0.4					284,748
Misc. Durable	18,810	18,958	20,504	-0.8	-2.4	-8.3	27,157	26,511	28,595	2.4	1.3	-5.0	149	,107	162,215
.Nondurable	226,029	237,002	244,451	-4.6	-2.7	-7.5	214,702	216,464	206,350	-0.8	-0.7	4.0	1,835	,979 1	,985,689
	8.151	8.203	7.964	-0.6	-3.1	2.3	7.576		7.478	-2.7	0.2	1.3	63	,091	61,513
•	50,773	53,054	44,488	-4.3	0.6	14.1	54,808	55,481	51,915	-1.2	-0.3	5.6	402	,308	351,351
Apparel	16,005	15,347	15,561	4.3	11.7	2.9	32,128	31,411	28,777	2.3	5.2	11.6	112	,447	108,234
Groceries	51,501	52,138	50,898	-1.2	2.6	1.2	33,573	33,525	30,610	0.1	2.4	9.7			399,309
Farm products	15,272	17,154	17,232	-11.0	-6.4	-11.4	14,150	15,478	13,299	-8.6	-8.7	6.4			168,301
Chemicals	10,617	11,256	11,348	-5.7	-0.7	-6.4	13,086	12,913	12,131	1.3		1			89,672
															555,191
															82,354
viisc. Notiauf.	19,530	21,2//	ا ۱۷٫۵6	-8.2	-15.8	9.3	25,96/	25,363	24,683	2.4	-3.4	5.2	1/9	יסכט,י	169,764
	AutomotiveFurnitureLumberProf. equipComp. equipMetalsElectricalHardwareMachineryMisc. DurablePaper³DrugsApparelGroceriesFarm productsChemicals³PetroleumAlcoholMisc. Nondur. usted U.S. TotalDurableAutomotiveFurnitureLumberProf. equipComp. equipMetalsElectricalHardwareMachineryMisc. DurableMondurablePaperDrugsApparelCroceriesFarm products	Business	Name	Vind of Business	Nondurable Non	Name	Nonthly Nont	Nondriple Nond	Nonthly Percent charge Monthly Percent charge Monthly Percent charge Percent	Nonthisan	Nonthly Percent classe Monthly Month	No. No.	Nonthing Nonthing	Monthly	No. No.

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.

 $^{^1\,}For\ a\ full\ description\ of\ the\ NAICS\ codes\ used\ in\ this\ table,\ see\ the\ 2007\ NAICS\ manual\ or\ \underline{http://www.census.gov/eos/www/naics.}$

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 significant 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.

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.]

		Coefficie	nt of variation	on for mon	thly total	Stand	dard error f	or monthly	Coeffic variation	Standard error for percent change		
42 U.S. 423 .Du 4231Au 4232Fu 4233Lu 4234Pr 42343Ci 4235Me 4236Ele 4237Ha 4238Mi 4239Mi 424Or 4241Pa 4242Dr 4243Ap 4244Gr 4245Fa	Kind of Business	Preliminary	y estimates	Final es	Final estimates		of two ve months		month to ionth last ar	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	1.0	1.6	1.0	1.5	0.4	0.1	0.9	0.9	0.9	1.1	0.7
423	.Durable	1.1	2.0	1.1	2.0	0.4	0.2	1.1	1.2	1.1	1.1	0.7
4231	Automotive	2.9	4.7	3.4	4.4	0.6	0.5	1.5	2.6	3.0	2.4	1.4
4232	Furniture	6.6	6.6	7.2	6.5	2.5	0.6	4.4	5.8	6.8	5.2	4.3
4233	Lumber	6.0	5.5	5.8	5.5	0.8	0.4	2.0	1.2	5.1	4.3	1.5
4234	Prof. equip.	3.1	4.3	2.8	4.4	0.6	0.4	2.1	2.2	3.4	3.4	1.9
	Comp. equip.	4.1	6.8	3.5	6.8	0.7	0.3	2.5	1.9	3.9	3.4	2.3
	Metals	5.5	8.6	4.9	8.7	1.0	0.4	1.7	2.0	4.9	5.5	1.7
	Electrical	2.7	4.1	2.5	4.2	0.6	0.4	2.0	2.0	2.5	1.5	1.6
	Hardware	2.7	3.8	2.8	3.7	1.5	0.4	2.5	3.9	2.4	2.2	2.2
	Machinery	3.3	4.3	3.2	4.4	1.3	0.3	2.6	2.5	2.8	2.9	1.4
4239	Misc. Durable	5.0	5.3	4.0	5.4	2.0	0.8	4.4	3.3	3.9	4.0	3.2
424	.Nondurable	1.7	1.6	1.7	1.5	0.4	0.2	1.2	1.0	1.7	2.1	0.9
4241	Paper	4.6	6.6	4.4	6.5	1.0	0.3	1.5	1.9	4.6	4.2	1.5
4242	Drugs	2.7	4.2	2.9	3.8	0.4	0.5	1.6	1.7	2.8	3.0	1.6
4243	Apparel	8.0	6.2	7.4	6.2	1.7	0.8	4.3	1.8	6.9	5.2	3.3
4244	Groceries	3.3	5.6	3.0	5.7	0.8	0.5	2.5	3.5	3.2	3.9	1.4
4245	Farm products	2.6	5.1	4.0	4.5	1.4	1.1	3.5	2.7	2.6	2.3	1.8
4246	Chemicals	4.1	5.1	3.8	5.1	1.6	0.9	2.3	3.3	4.0	4.3	2.1
4247	Petroleum	6.1	4.5	6.4	4.4	0.3	0.6	1.2	2.6	6.2	5.9	1.1
4248	Alcohol	4.9	5.2	5.9	5.1	1.4	0.5	1.5	1.5	4.9	3.8	1.9
4249	Misc. Nondur.	4.0	6.1	4.3	6.0	1.7	0.3	4.5	1.9	3.7	4.3	3.9

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 Adjustment Factors for Monthly Wholesale Sales and Inventory Estimates

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

NAICS	Kind of	Sales							Inventories					
code	Business	2015					2014	2015					2014	
		Sep.	Aug.r	Jul.r	Jun.	May	Aug.r	Sep.	Aug.r	Jul.r	Jun.	May	Aug.r	
42	U.S. Total ²	1.016	0.989	1.016	1.049	0.997	0.988	0.991	0.983	0.990	0.986	0.991	0.983	
423	.Durable	1.045	0.993	1.006	1.061	0.966	0.994	1.004	1.001	1.007	1.000	1.000	1.001	
4231	Automotive	0.991	1.000	1.010	1.042	0.983	1.011	0.980	0.960	1.005	0.998	0.996	0.960	
4232	Furniture	1.059	1.016	1.015	1.032	0.977	1.016	1.036	1.033	1.024	0.996	0.984	1.033	
4233	Lumber	1.067	1.080	1.128	1.160	1.038	1.080	0.985	1.007	1.022	1.035	1.044	1.005	
4234	Prof. equip.	1.076	0.948	1.017	1.100	0.908	0.948	1.012	1.005	1.000	0.994	0.990	1.006	
42343	Comp. equip.	1.067	0.927	1.042	1.124	0.878	0.928	1.024	1.002	1.008	1.012	0.991	1.004	
4235	Metals	1.033	1.000	1.024	1.058	0.987	1.010	0.997	0.999	1.006	1.005	1.004	0.999	
4236	Electrical	1.061	0.979	0.966	1.045	0.956	0.980	1.028	1.024	1.009	0.995	0.999	1.024	
4237	Hardware	1.042	1.040	1.078	1.129	1.021	1.041	0.998	1.005	1.010	1.010	1.015	1.005	
4238	Machinery	1.022	1.011	0.997	1.065	0.989	1.012	0.998	0.995	1.004	1.001	1.006	0.996	
4239	Misc. Durable	1.073	0.980	0.977	1.020	0.948	0.973	1.031	1.021	1.008	0.990	0.978	1.021	
424	.Nondurable	0.991	0.987	1.023	1.033	1.022	0.982	0.967	0.954	0.961	0.965	0.976	0.954	
4241	Paper ³	1.044	1.022	1.017	1.042	0.973	1.021	1.000	1.000	1.000	1.000	1.000	1.000	
4242	Drugs	1.015	0.967	1.020	1.027	0.974	0.966	0.995	1.002	1.007	0.992	0.997	1.000	
4243	Apparel	1.124	1.083	1.058	0.969	0.906	1.086	1.069	1.072	1.061	1.019	0.966	1.072	
4244	Groceries	1.004	1.009	1.027	1.015	1.024	1.001	1.011	0.985	0.988	0.983	0.986	0.985	
4245	Farm products	0.897	0.839	0.913	0.944	0.955	0.829	0.724	0.652	0.691	0.748	0.830	0.656	
4246	Chemicals ³	1.013	1.010	1.049	1.063	0.999	1.017	1.000	1.000	1.000	1.000	1.000	1.000	
4247	Petroleum	0.987	1.017	1.056	1.023	1.029	1.024	0.983	0.994	1.030	1.047	1.013	0.986	
4248	Alcohol	1.028	0.980	1.041	1.136	1.031	1.017	1.005	0.992	1.014	1.015	1.027	0.992	
4249	Misc. Nondur.	0.911	0.896	0.979	1.157	1.206	0.883	0.919	0.895	0.881	0.918	0.990	0.895	

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-SEATS program may be found at http://www.census.gov/srd/www/x13as/.

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 4,200. Approximately 67% 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 31% 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.