

# Key Labor Market and Economic Metrics



**December Update**

*Incorporates Data Available on December 22<sup>nd</sup>, 2016*

This reference is the result of a collaboration between the Bureau of Labor Market Information and Strategic Initiatives and the Treasury's Office of Revenue and Tax Analysis. For more information on this publication or the data presented, please contact the Bureau of Labor Market Information and Strategic Initiatives at (517) 335-5267 or the Office of Revenue and Tax Analysis at (517) 373-2697.

## SUMMARY OF KEY LABOR MARKET AND ECONOMIC METRICS

Metrics	Latest Level	Chg From Prev. Mnth	Chg From Yr. Ago	Chg From Dec-10	Chg From Jul-09	U.S. Current Average	Worst State	Best State	Rankings: Annual 1990 to 2015							
									2015 Rank	Best Rank	Best Date	Worst Rank	Worst Date	Best Since	Date	
MI Unemployment Rate	4.9%	0.2	-0.2	-6.2	-9.8	4.6%	6.8%	2.7%	29	18	1997	50	2006-2009			
MI Labor Force Participation Rate	61.5%	0.3	1.1	-0.5	-2.3	62.8%	53.6%	71.5%	40	22	2000	43	2011-2012	40	2009	
MI Labor Underutilization (U-6)	10.4%	-0.4 / Qtr.	-1.6 / Qtr.	-9.8 / Qtr.	-9.7 / Qtr.	9.8%	13.0%	4.8%	40	35	2016	50	2005-2009			
Initial Claims for U.I. Benefits	8,927	-50	-156	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Online Job Ads	146,341	-6,577	-47,668	56,406	84,526	NA	NA	NA	NA	NA	NA	NA	NA			
MI Payroll Jobs	4,359,500	-5,800	84,000	464,600	530,000	NA	NA	NA	9	8	Several	11	2009			
MI Private Payroll Jobs	3,753,200	-8,300	74,900	483,900	567,400	NA	NA	NA	8	8	Several	9	2009			
MI Government Jobs	606,300	2,500	9,100	-19,300	-37,400	NA	NA	NA	12	8	1990-2005	12	2009-2013			
MI Avg. Hourly Earnings(1)	\$20.30	-\$0.21	-\$0.25	NA	NA	NA	NA	NA	NA	NA						
U.S. Retail Sales (\$ billions)	\$465.5	0.1%	3.8%	26.1%	36.8%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
U.S. Light Vehicle Sales (mill.)	17.9	-0.2	-0.4	5.4	6.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MI Motor Vehicle Production	184,769	-13,039	2,516	81,870	117,841	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MI Building Permits for Housing Starts	25,095	308	7,853	16,055	17,367	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Home Price Index, Detroit(2)	107.23	0.2%	5.9%	58.2%	53.4%	202.54	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MI Per Capita Personal Income	\$42,812	NA	4.1%	NA	NA	\$48,112	\$34,771	\$68,704	32	16	1999,2000	40	2009	26	2005	
MI Population	9,928,300	NA	0.1%	NA	NA	NA	NA	NA	10	8	1990-2011	10	2014-2014			
MI GDP as % of U.S. GDP	2.62%	NA	0.02%	NA	NA	NA	0.17%	13.79%	13	9	1990-2005	13	2009-2015			
MI Real GDP Per Capita	\$42,226	NA	1.3%	NA	NA	\$49,844	\$31,894	\$66,835	39	20	1999	43	2009	39	2014	

(1) Production Workers, Manufacturing

(2) For Index, CY 2000 = 100

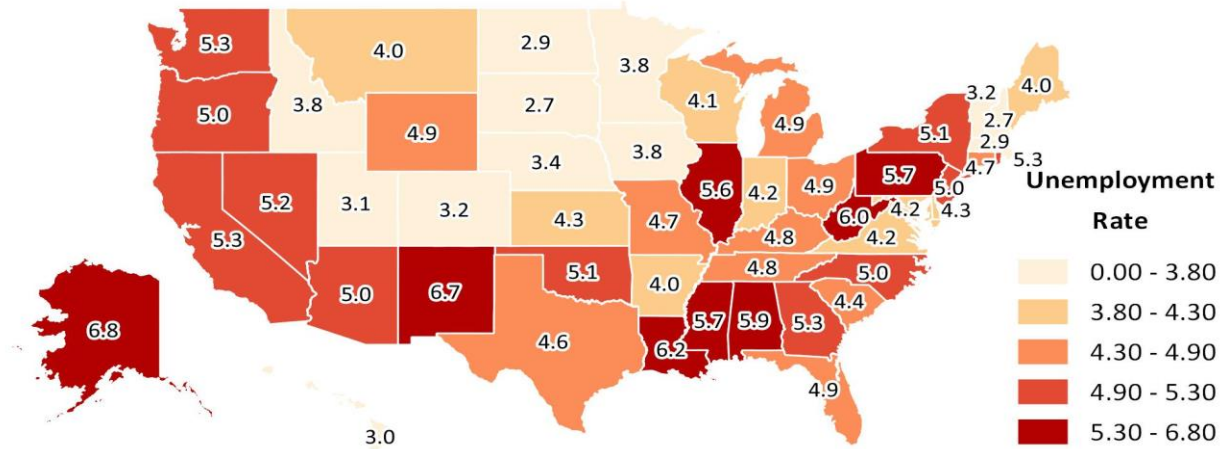
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# UNEMPLOYMENT RATE COMPARISONS

November 2016

Last Update: 12/22/16

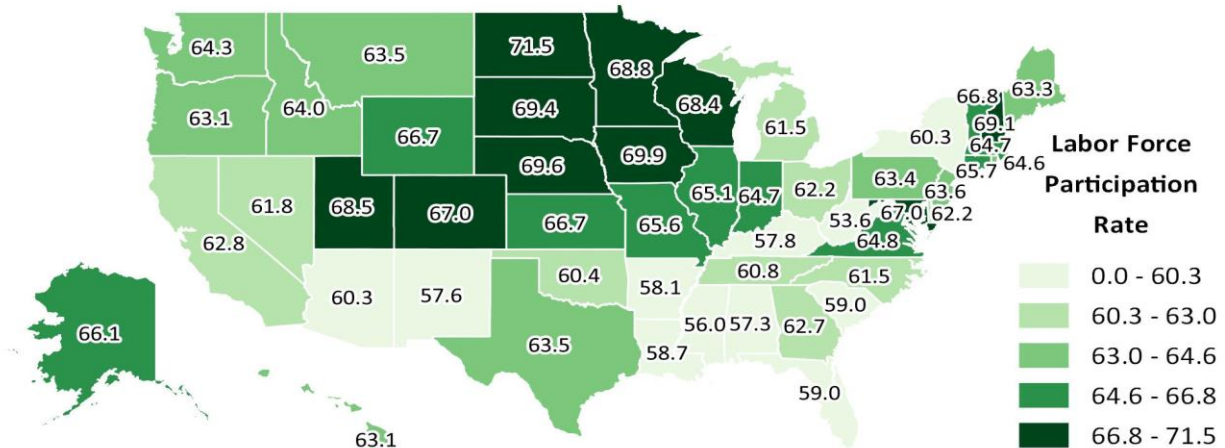


Summary: November 2016		Highlights
<b>MI Rank</b>	<b>22</b>	Michigan's unemployment rate stands at 4.9 percent. Michigan's ranking among the states registered 28th out of 50. Since November 2015, Michigan's ranking has improved by one spot.
Δ / month	Up 6	
Δ / year	Down 1	

# LABOR FORCE PARTICIPATION RATE COMPARISONS

November 2016

Last Update: 12/22/16



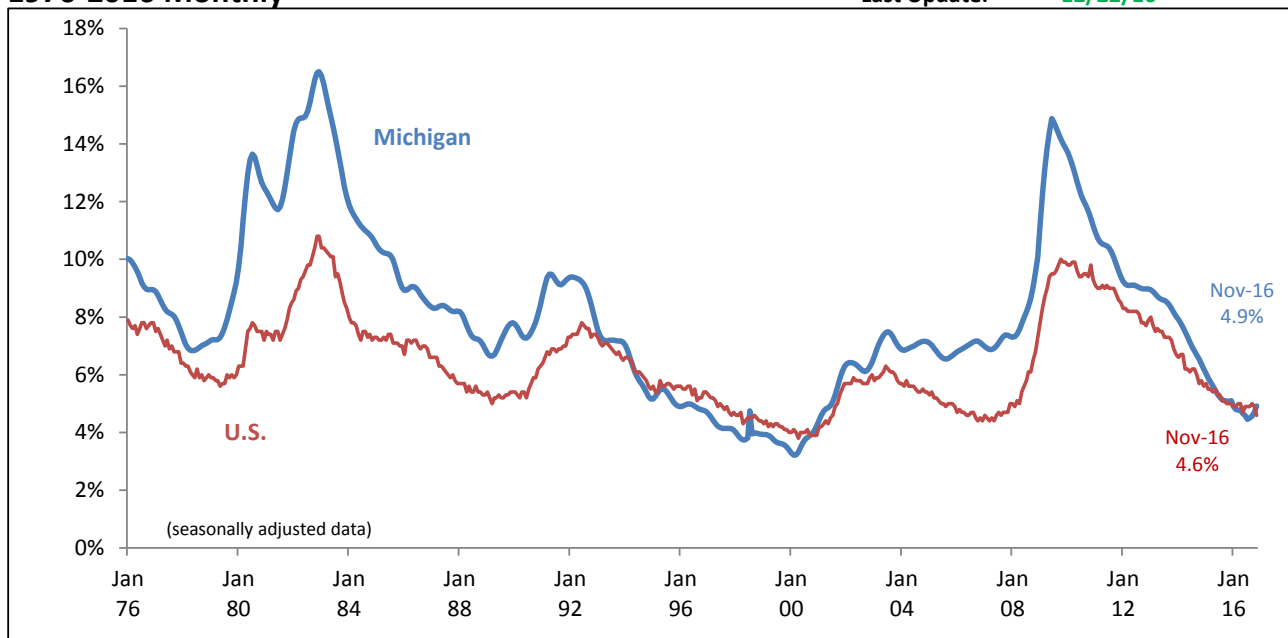
Summary: November 2016		Highlights
<b>MI Rank</b>	<b>36</b>	Michigan's labor force participation rate stands at 61.5 percent in November, ranking 36th out of 50. Michigan's rank improved by three spots compared to November 2015.
Δ / month	Down 1	
Δ / year	Down 3	

Source: Bureau of Labor Market Information, Current Population Survey (CPS)

# UNEMPLOYMENT RATE

1976-2016 Monthly

Last Update: 12/22/16



## 1990 to 2015 Annual Averages

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	7.6%	9.2%	9.0%	7.2%	6.0%	5.3%	4.9%	4.3%	3.9%	3.7%	3.6%	5.2%	6.3%
U.S.	5.6%	6.8%	7.5%	6.9%	6.1%	5.6%	5.4%	4.9%	4.5%	4.2%	4.0%	4.7%	5.8%
Rank	48	49	48	37	31	27	19	18	19	21	17	39	42
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	7.2%	7.0%	6.8%	7.0%	7.0%	8.0%	13.7%	12.6%	10.4%	9.1%	8.8%	7.3%	5.4%
U.S.	6.0%	5.5%	5.1%	4.6%	4.6%	5.8%	9.3%	9.6%	8.9%	8.1%	7.4%	6.2%	5.3%
Rank	47	48	47	50	50	50	50	49	46	43	46	46	29

## 2015 & 2016 Monthly Detail (percent of labor force)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
MI	6.0%	5.9%	5.8%	5.6%	5.5%	5.3%	5.2%	5.1%	5.1%	5.1%	5.1%	5.1%
U.S.	5.7%	5.5%	5.5%	5.4%	5.5%	5.3%	5.3%	5.1%	5.1%	5.0%	5.0%	5.0%
Rank	36	33	28	27	29	28	26	24	24	25	29	29
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	
MI	4.9%	4.8%	4.8%	4.8%	4.7%	4.6%	4.5%	4.5%	4.6%	4.7%	4.9%	
U.S.	4.9%	4.9%	5.0%	5.0%	4.7%	4.9%	4.9%	4.9%	5.0%	4.9%	4.6%	
Rank	27	27	27	27	25	24	22	22	22	22	28	

### Summary: November 2016

Rate	4.9%
Δ / month	◆ 0.2
Δ / year	▲ -0.2
<b>MI Rank</b>	<b>28</b>

### Highlights

Michigan's seasonally adjusted unemployment rate rose to 4.9 percent. At its current level, Michigan's jobless rate is lower by 6.2 percentage points since December 2010, and has dropped 0.2 percentage points over the year.

Source: Bureau of Labor Market Information, Local Area Unemployment Statistics (LAUS)

## UNEMPLOYMENT RATE (Historical)

	Jan-06	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
MI	6.8%	6.8%	6.9%	6.9%	7.0%	7.0%	7.1%	7.1%	7.2%	7.2%	7.1%	7.0%
U.S.	4.7%	4.8%	4.7%	4.7%	4.6%	4.6%	4.7%	4.7%	4.5%	4.4%	4.5%	4.4%

	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07
MI	7.0%	6.9%	6.9%	6.9%	6.9%	7.0%	7.1%	7.2%	7.3%	7.4%	7.4%	7.3%
U.S.	4.6%	4.5%	4.4%	4.5%	4.4%	4.6%	4.7%	4.6%	4.7%	4.7%	4.7%	5.0%

	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08
MI	7.3%	7.3%	7.4%	7.6%	7.8%	8.0%	8.2%	8.4%	8.7%	9.0%	9.5%	10.1%
U.S.	5.0%	4.9%	5.1%	5.0%	5.4%	5.6%	5.8%	6.1%	6.1%	6.5%	6.8%	7.3%

	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09
MI	11.2%	12.2%	13.1%	13.8%	14.4%	14.9%	14.7%	14.6%	14.4%	14.2%	14.0%	13.9%
U.S.	7.8%	8.3%	8.7%	9.0%	9.4%	9.5%	9.5%	9.6%	9.8%	10.0%	9.9%	9.9%

	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10
MI	13.7%	13.5%	13.3%	13.0%	12.7%	12.4%	12.2%	12.0%	11.9%	11.7%	11.4%	11.2%
U.S.	9.8%	9.8%	9.9%	9.9%	9.6%	9.4%	9.4%	9.5%	9.5%	9.4%	9.8%	9.3%

	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
MI	10.9%	10.7%	10.6%	10.5%	10.5%	10.5%	10.4%	10.3%	10.1%	9.8%	9.6%	9.4%
U.S.	9.1%	9.0%	9.0%	9.1%	9.0%	9.1%	9.0%	9.0%	9.0%	8.8%	8.6%	8.5%

	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12
MI	9.2%	9.1%	9.1%	9.1%	9.1%	9.1%	9.1%	9.0%	9.0%	9.0%	9.0%	9.0%
U.S.	8.3%	8.3%	8.2%	8.2%	8.2%	8.2%	8.2%	8.1%	7.8%	7.8%	7.7%	7.9%

	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
MI	8.9%	8.9%	8.8%	8.7%	8.6%	8.6%	8.6%	8.5%	8.4%	8.3%	8.2%	8.0%
U.S.	8.0%	7.7%	7.5%	7.6%	7.5%	7.5%	7.3%	7.3%	7.3%	7.2%	6.9%	6.7%

	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14
MI	7.9%	7.8%	7.7%	7.5%	7.3%	7.1%	7.0%	6.8%	6.7%	6.5%	6.4%	6.2%
U.S.	6.6%	6.7%	6.7%	6.2%	6.2%	6.1%	6.2%	6.2%	6.0%	5.7%	5.8%	5.6%

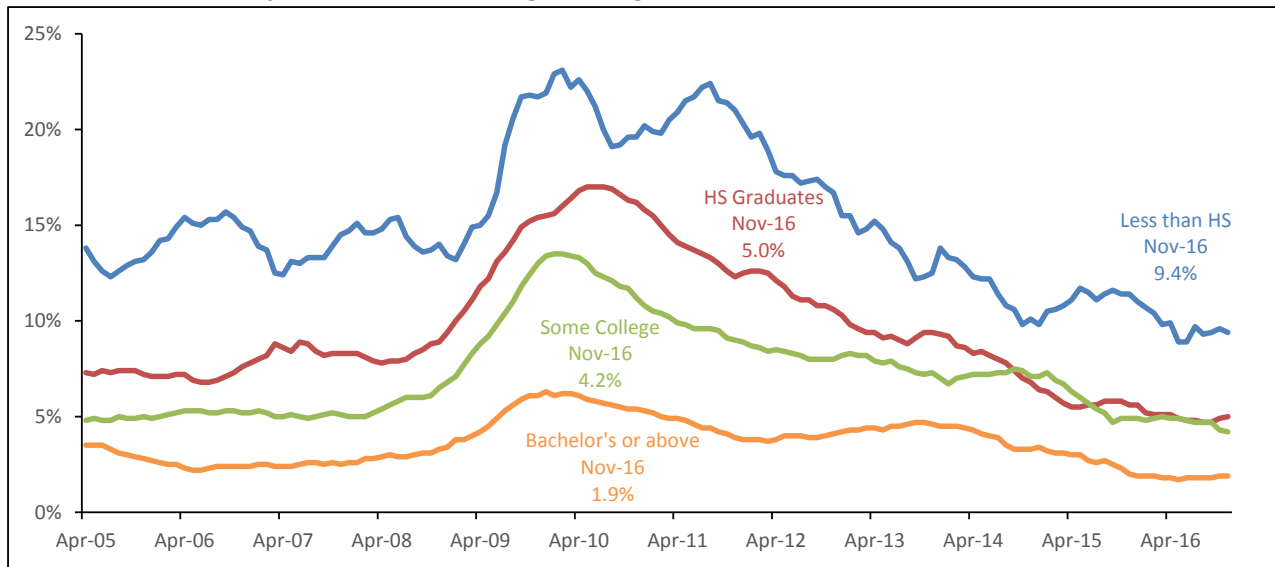
Change from July 2009	-9.8	Percentage Points
Change from December 2010	-6.2	Percentage Points

Source: Bureau of Labor Market Information, Local Area Unemployment Statistics (LAUS)

# UNEMPLOYMENT RATE BY EDUCATION LEVEL

2005-2016 Monthly 12 Month Moving Average

Last Update: 12/22/16



## 2005 to 2015 Annual Averages

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Less than HS	13.6%	14.7%	14.7%	13.4%	21.9%	20.2%	20.3%	15.5%	15.5%	9.8%	11.0%
HS Graduates	7.1%	7.8%	8.3%	9.4%	15.5%	15.8%	12.5%	10.3%	10.3%	6.4%	5.6%
Some college	4.9%	5.2%	5.0%	6.8%	13.4%	10.8%	8.9%	8.2%	8.2%	7.1%	4.9%
Bachelor's or above	2.7%	2.4%	2.6%	3.4%	6.3%	5.3%	3.8%	4.2%	4.2%	3.4%	1.9%

## 2015 & 2016 Monthly Detail

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
Less than HS	10.5%	10.6%	10.8%	11.1%	11.7%	11.5%	11.1%	11.4%	11.6%	11.4%	11.4%	11.0%
HS Graduates	6.3%	6.0%	5.7%	5.5%	5.5%	5.6%	5.6%	5.8%	5.8%	5.8%	5.6%	5.6%
Some college	7.3%	6.9%	6.7%	6.3%	6.0%	5.7%	5.4%	5.2%	4.7%	4.9%	4.9%	4.9%
Bachelor's or above	3.2%	3.1%	3.1%	3.0%	3.0%	2.7%	2.6%	2.7%	2.5%	2.3%	2.0%	1.9%

	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16
Less than HS	10.7%	10.4%	9.8%	9.9%	8.9%	8.9%	9.7%	9.3%	9.4%	9.6%	9.4%
HS Graduates	5.2%	5.1%	5.1%	5.1%	4.9%	4.8%	4.8%	4.7%	4.7%	4.9%	5.0%
Some college	4.8%	4.9%	5.0%	4.9%	4.9%	4.8%	4.7%	4.7%	4.7%	4.3%	4.2%
Bachelor's or above	1.9%	1.9%	1.8%	1.8%	1.7%	1.8%	1.8%	1.8%	1.8%	1.9%	1.9%

### Summary: November 2016

12 Month Moving Avg.	
Less than HS	9.4%
HS Graduates	5.0%
Some College	4.2%
Bachelor's or Above	1.9%

### Highlights

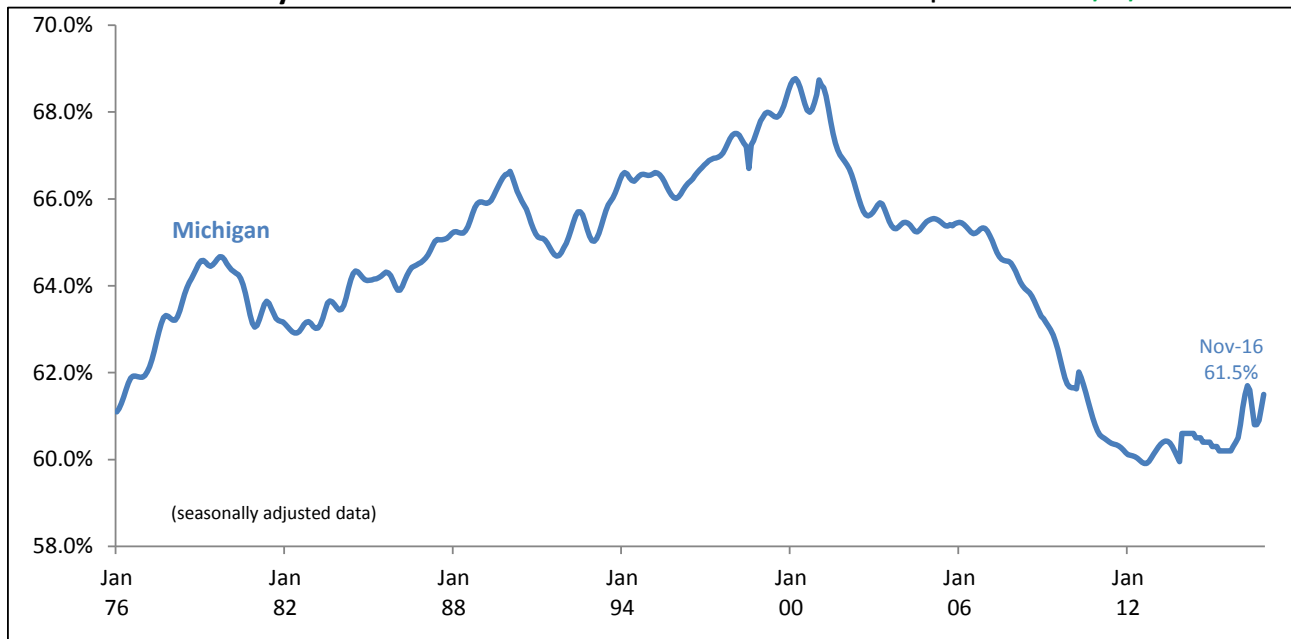
Since November 2015, the 12-month moving averages for those with less than a High School diploma and those with a High School diploma have significantly dropped, falling by 2.0 percent and 0.6 percent, respectively.

Source: U.S. Census Bureau, Current Population Survey (CPS)

# LABOR FORCE PARTICIPATION RATE

1976-2016 Monthly

Last Update: 12/22/16



### 1990 to 2015 Annual Averages

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	65.7%	65.0%	65.6%	66.1%	66.5%	66.0%	66.3%	66.9%	67.5%	68.5%	68.7%	67.6%	65.8%
Rank	37	37	37	34	31	35	35	33	28	23	22	27	36
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	65.6%	65.7%	65.7%	65.4%	64.4%	63.3%	63.1%	62.0%	60.5%	60.0%	60.5%	60.6%	60.3%
Rank	35	34	33	35	37	41	39	40	43	43	40	40	40

### 2015 & 2016 Monthly Detail

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
MI	60.3%	60.3%	60.3%	60.2%	60.2%	60.2%	60.2%	60.2%	60.2%	60.3%	60.4%	60.5%
Rank	37	38	41	41	41	40	40	40	40	39	39	39
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	
MI	60.8%	61.2%	61.5%	61.7%	61.6%	61.2%	60.8%	60.8%	60.9%	61.2%	61.5%	
Rank	39	39	39	37	38	38	38	37	37	37	36	

### Summary: November 2016

Rate	61.5%
Δ / month	▲ 0.3
Δ / year	● 1.1

**MI Rank 36**

### Highlights

The labor force participation rate is a measure of the labor force as a percent of the 16+ civilian non-institutional population. During the latter half of the twentieth century, the labor force participation rate increased dramatically, largely driven by an increasing number of women joining the labor force. Since 2001, the rate has steadily declined, exacerbated by the 2001 and 2008 recessions. Over the month, the labor force participation rate increased by 0.3 percentage points, and it has risen by 1.1 percentage points over the year.

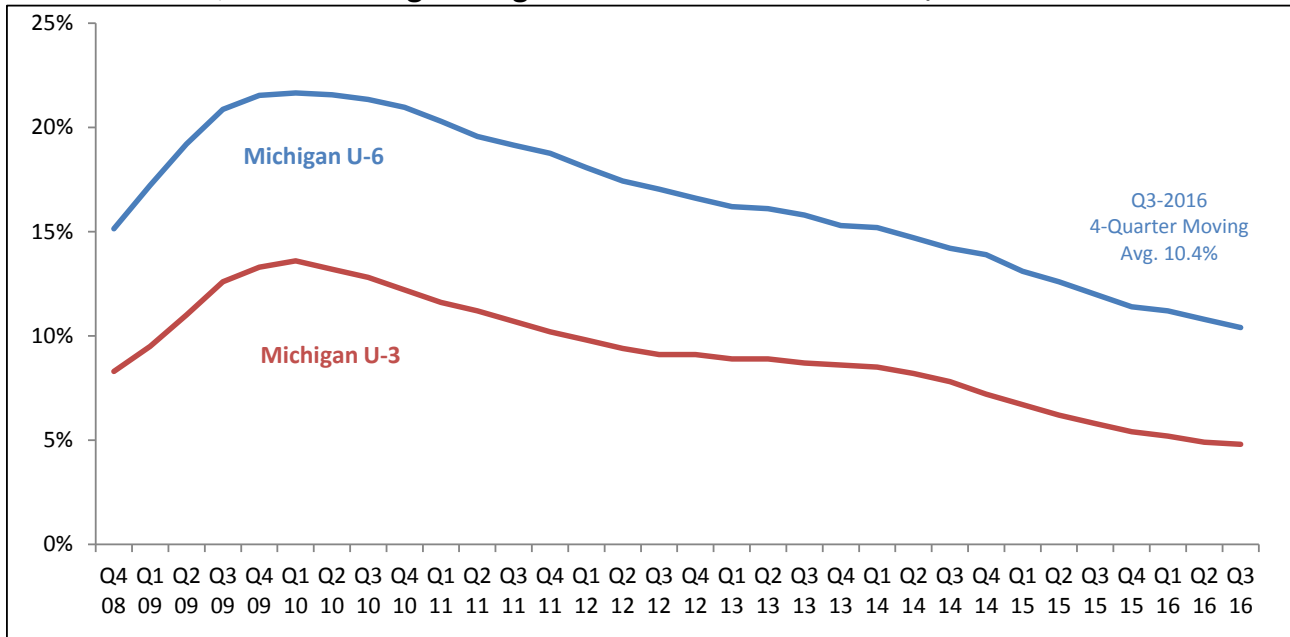
Source: Bureau of Labor Market Information, Local Area Unemployment Statistics (LAUS)



# MEASURE OF LABOR UNDERUTILIZATION (U-6)

2008-2016 4-Quarter Moving Average

Last Update: **10/28/16**



## 2003 to 2015 Annual Averages

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Rank													
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	12.2%	12.1%	12.0%	12.2%	12.8%	15.1%	21.5%	21.0%	18.8%	16.6%	15.3%	13.9%	11.4%
Rank	47	48	50	50	50	50	50	48	48	45	44	46	40

## 2009 to 2016 4-Quarter Moving Average

	Q4-10	Q1-11	Q2-11	Q3-11	Q4-11	Q1-12	Q2-12	Q3-12	Q4-12	Q1-13	Q2-13	Q3-13
MI	21.0%	20.3%	19.6%	19.2%	18.8%	18.1%	17.4%	17.0%	16.6%	16.2%	16.1%	15.8%
	Q4-13	Q1-14	Q2-14	Q3-14	Q4-14	Q1-15	Q2-15	Q3-15	Q4-15	Q1-16	Q2-16	Q3-16
MI	15.3%	15.2%	14.7%	14.2%	13.9%	13.1%	12.6%	12.0%	11.4%	11.2%	10.8%	10.4%

### Summary: 2016 Q3

<b>4-Qtr Mov. Avg.</b>	<b>10.4%</b>
Δ / Qtr.	▲ -0.4
Δ / year	▲ -1.6

**MI Rank 35**

### Highlights

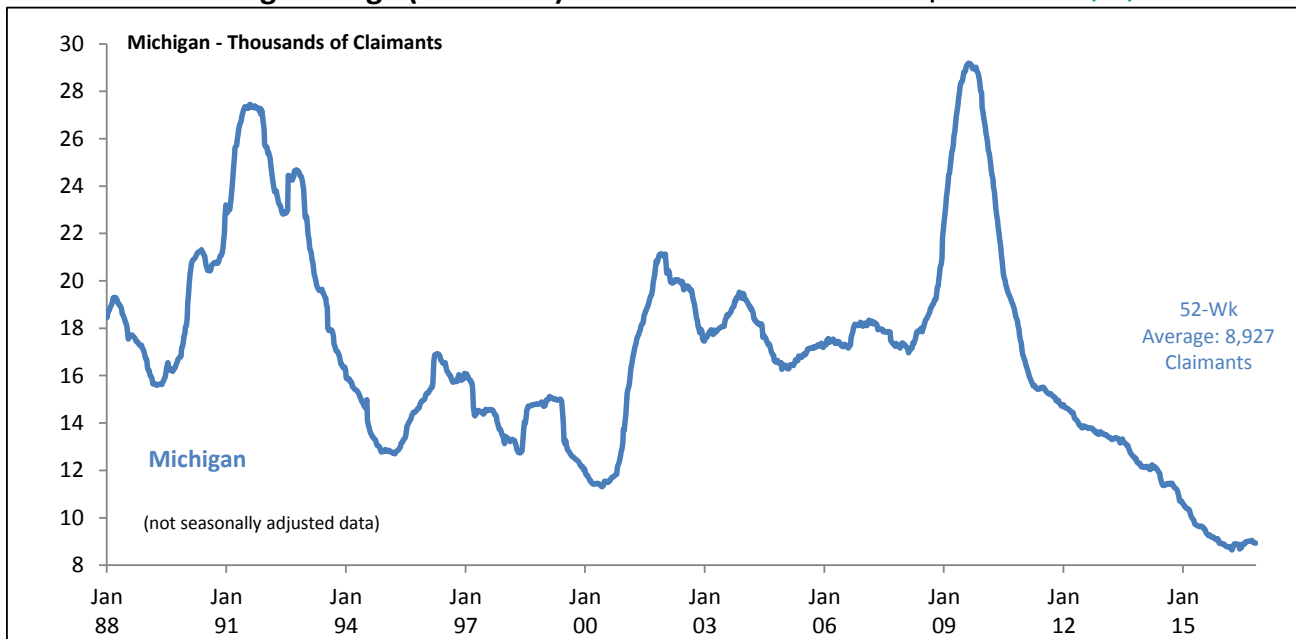
The U-6 is an alternative measure of labor underutilization. The U-6 includes the total unemployed, plus all marginally attached workers (individuals who have given-up looking for work), plus total employed part time for economic reasons, as a percent of the civilian labor force plus all marginally attached workers. By definition, the U-6 is higher than the U-3, the official unemployment rate. In Michigan, the U-6 measured 10.4 percent for the twelve month period ending in the second quarter of 2016, the lowest rate since before the beginning of the Great Recession. The U-6 for the U.S. is 9.8 percent.

Source: Bureau of Labor Market Information, Current Population Survey (CPS)

# INITIAL CLAIMS FOR UNEMPLOYMENT BENEFITS

1988-2016 Moving Average (52 Weeks)

Last Update: 12/22/16



## 1990 to 2015 Annual Totals (thousands of claimants)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	1,207	1,335	1,181	851	694	781	837	686	765	629	742	1,096	913
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	1,004	846	942	947	903	1,075	1,456	910	802	709	639	557	464

## 2015 & 2016 Moving Average (52 Week) in Last Week of Month (thousands of claimants)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
MI	10.57	10.40	10.31	9.97	9.70	9.63	9.63	9.37	9.28	9.19	9.08	8.93
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	
MI	8.90	8.79	8.78	8.71	8.90	8.87	8.88	8.99	9.01	8.98	8.93	

### Summary: November 2016

<b>52 Week Avg.</b>	<b>8,927</b>
#Δ / month	-50
%Δ / month	▲ -0.6%
#Δ / year	-156
%Δ / year	● -1.7%

### Highlights

There were 9,632 initial claims filed for state unemployment insurance benefits for the week of November 19th to November 26th.

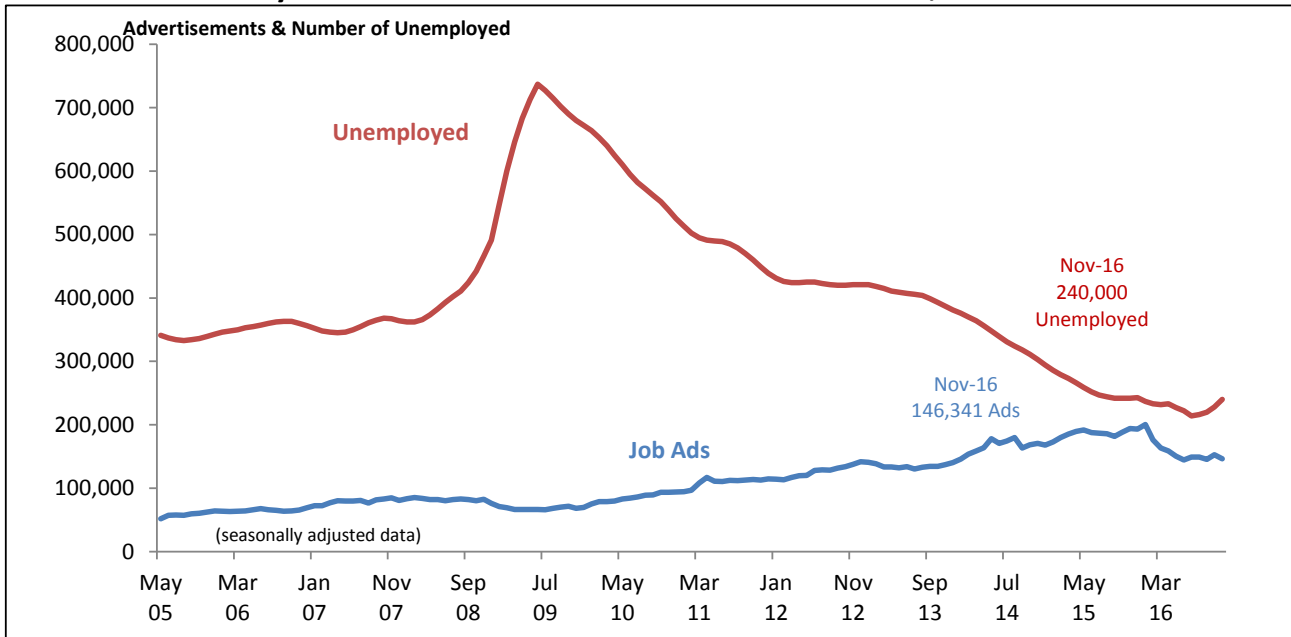
The 52 week moving average, which offers a better picture of the trend in initial claims, measured 8,927, which was a 50 claimant decrease over the month. Since November 2015, the 52 week moving average is 1.7 percent lower.

Source: U.S. Department of Labor, Employment and Training Administration (ETA)

# ONLINE JOB ADVERTISEMENTS vs. UNEMPLOYED

2005-2016 Monthly

Last Update: **12/22/16**



## 1990 to 2015 Annual Averages (thousands of advertisements / individuals)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Ads	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Unemp.	351.0	423.0	420.0	342.0	288.0	254.0	239.0	211.0	195.0	190.0	186.0	265.0	315.0

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Ads	n/a	n/a	60.7	65.3	79.3	82.0	68.4	85.8	110.1	126.5	135.0	166.8	181.8
Unemp.	361.0	357.0	344.0	356.0	352.0	392.0	670.0	605.0	487.0	426.0	418.0	346.0	258.0

## 2015 & 2016 Monthly Detail (thousands of advertisements / individuals)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
Ads	172.9	179.8	185.4	189.4	191.6	187.7	186.8	185.7	181.8	188.1	194.0	193.3
Unemp.	286.0	279.0	273.0	266.0	259.0	252.0	247.0	244.0	242.0	242.0	242.0	243.0

	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16
Ads	200.4	176.3	163.4	158.7	150.6	144.6	149.2	149.2	145.5	152.9	146.3
Unemp.	237.0	233.0	232.0	233.0	227.0	222.0	214.0	216.0	220.0	228.0	240.0

### Summary: November 2016

Job Ads	146,341
#Δ / month	◆ -6,577
#Δ / year	◆ -47,668

### Highlights

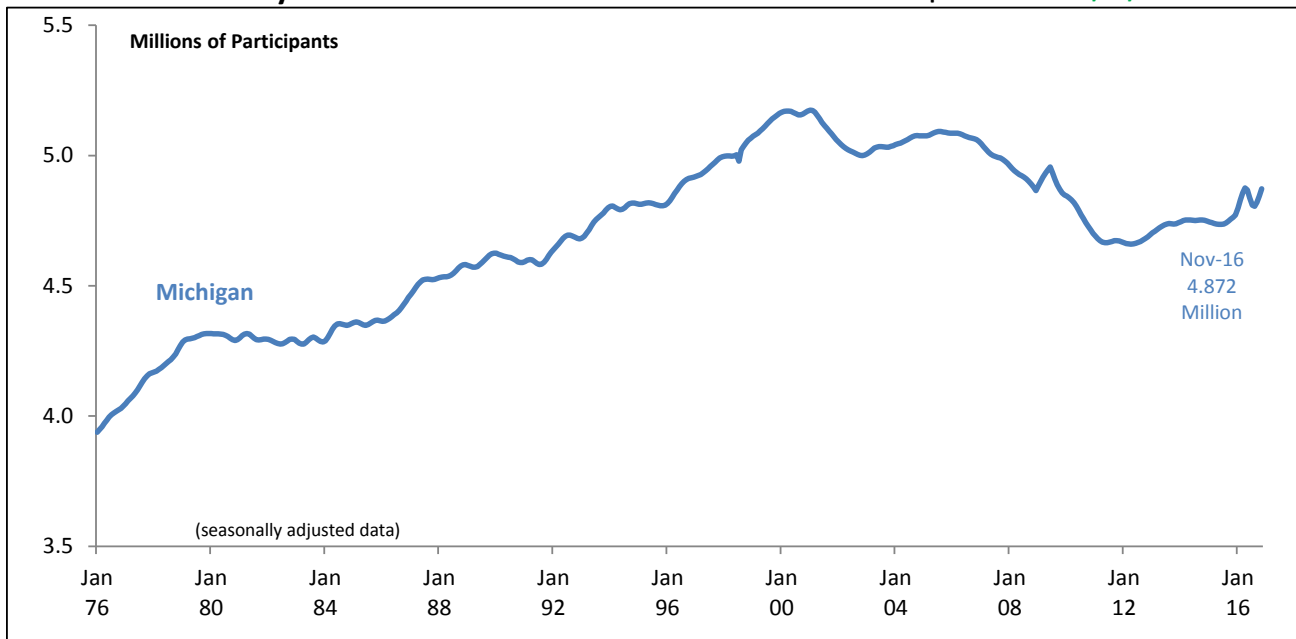
According to The Conference Board's Help Wanted Online Data Series, Michigan's seasonally adjusted online advertised job postings measured 146,341 in November. This value is a decrease of 6,577 ads over the month. Since November 2016, ads have decreased by 47,668.

Source: Bureau of Labor Market Information / The Conference Board, Help Wanted Online Data Series

# LABOR FORCE

1976-2016 Monthly

Last Update: 12/22/16



## 1990 to 2015 Annual Averages (millions of participants)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	4.607	4.596	4.678	4.742	4.808	4.813	4.878	4.955	5.020	5.116	5.163	5.120	5.017
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	5.028	5.062	5.083	5.077	5.011	4.921	4.904	4.799	4.685	4.672	4.730	4.754	4.751

## 2015 & 2016 Monthly Detail (millions of participants)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
MI	4.745	4.742	4.739	4.737	4.736	4.736	4.737	4.741	4.748	4.756	4.763	4.771
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	
MI	4.798	4.830	4.857	4.875	4.868	4.838	4.809	4.805	4.821	4.844	4.872	

### Summary: November 2016

<b>Labor Force</b>	<b>4,872,000</b>
#Δ / month	28,000
%Δ / month	0.6%
#Δ / year	109,000
%Δ / year	2.3%

### Highlights

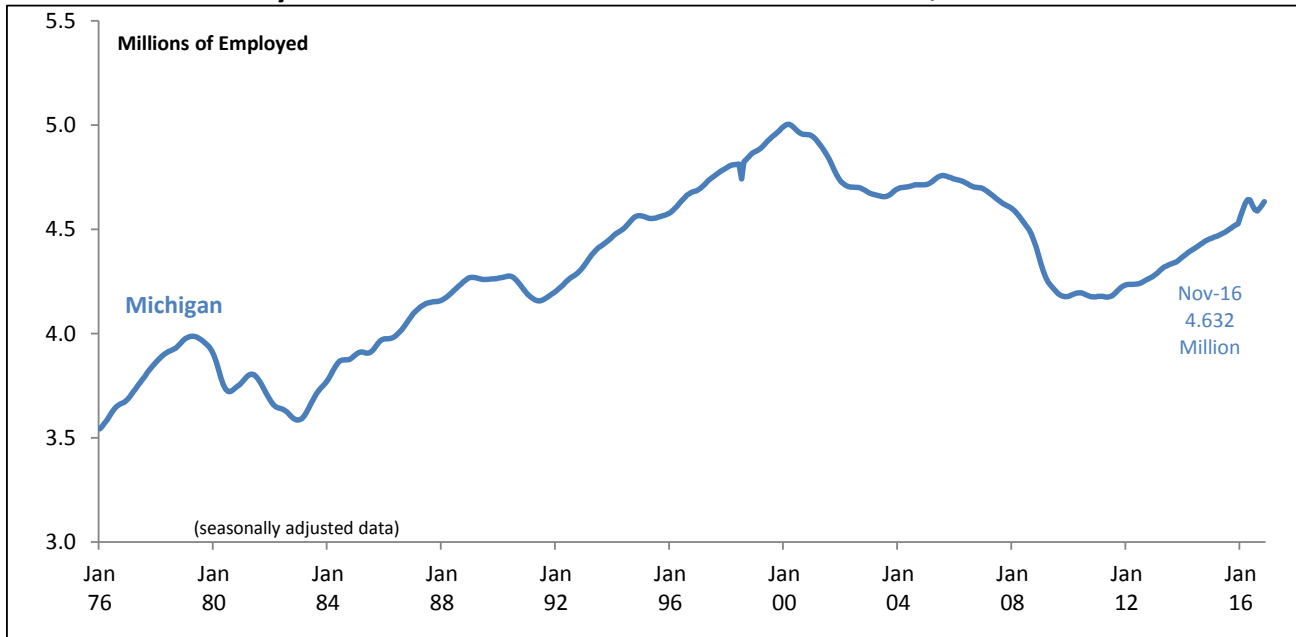
The labor force, which is the sum of employed and unemployed persons, increased by 28,000 over the month. Since November 2015, the labor force has increased by 109,000 individuals, or 2.3 percent.

Source: Bureau of Labor Market Information, Local Area Unemployment Statistics (LAUS)

# HOUSEHOLD EMPLOYMENT

1976-2016 Monthly

Last Update: 12/22/16



## 1990 to 2015 Annual Averages (millions of employed)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	4.256	4.173	4.258	4.400	4.520	4.559	4.639	4.743	4.824	4.926	4.976	4.855	4.702
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	4.667	4.706	4.739	4.721	4.659	4.529	4.234	4.194	4.198	4.246	4.311	4.408	4.493

## 2015 & 2016 Monthly Detail (millions of employed)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
MI	4.458	4.463	4.467	4.472	4.477	4.483	4.490	4.498	4.506	4.514	4.521	4.527
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	
MI	4.561	4.597	4.625	4.642	4.641	4.616	4.595	4.588	4.601	4.616	4.632	

### Summary: November 2016

<b>Employment</b>	<b>4,632,000</b>
#Δ / month	▲ 16,000
%Δ / month	0.3%
#Δ / year	● 111,000
%Δ / year	2.5%

### Highlights

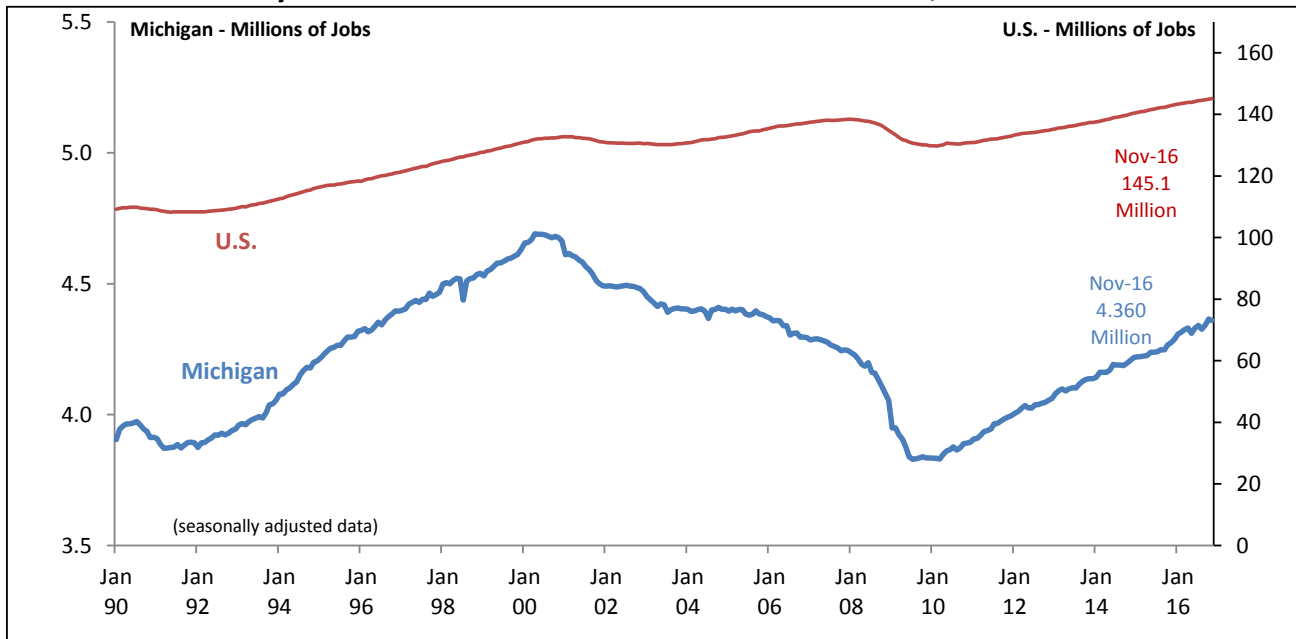
Employment in Michigan increased by 16,000 in the month of November. In addition, employment is up by 111,000 since November 2015, an increase of 2.5 percent.

Source: Bureau of Labor Market Information, Local Area Unemployment Statistics (LAUS)

# PAYROLL JOBS

1990-2016 Monthly

Last Update: 12/22/16



## 1990 to 2015 Annual Averages (millions of jobs)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	3.944	3.883	3.917	3.997	4.139	4.267	4.351	4.438	4.513	4.584	4.676	4.564	4.487
U.S.	109.5	108.4	108.8	110.9	114.4	117.4	119.8	123.0	126.2	129.2	132.0	132.1	130.6
Rank	8	8	8	8	8	8	8	8	8	8	8	8	8

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	4.416	4.399	4.390	4.327	4.268	4.163	3.871	3.864	3.952	4.034	4.110	4.182	4.244
U.S.	130.3	131.8	134.1	136.5	138.0	137.2	131.3	130.4	131.9	134.2	136.4	139.0	141.9
Rank	8	8	8	8	8	8	11	9	8	8	8	8	9

## 2015 & 2016 Monthly Detail (millions of jobs)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
MI	4.220	4.222	4.224	4.226	4.239	4.239	4.241	4.249	4.247	4.266	4.276	4.289
U.S.	140.6	140.9	141.0	141.2	141.5	141.7	142.0	142.2	142.3	142.6	142.9	143.1
Rank	8	8	8	8	8	8	8	8	10	9	9	9

	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16
MI	4.307	4.315	4.325	4.331	4.311	4.330	4.341	4.326	4.342	4.365	4.360
U.S.	143.31	143.5	143.7	143.9	143.9	144.2	144.4	144.6	144.8	145.0	145.1
Rank	9	9	9	9	9	9	10	10	10	9	9

### Summary: November 2016

Total Jobs	4,359,500
#Δ / month	▲ -5,800
#Δ / year	● 84,000

### Highlights

Total Michigan nonfarm payrolls decreased by 5,800 in November to 4,359,500. Since November 2015, total nonfarm employment advanced by 84,300 or 2.0 percent.

Source: Bureau of Labor Market Information, Current Employment Statistics (CES)

## PAYROLL JOBS (Historical)

Seasonally Adjusted

Millions

	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09
MI	3.949	3.950	3.924	3.907	3.875	3.839	3.830	3.831	3.835	3.839	3.834	3.835
Δ mo.	-0.010	0.001	-0.026	-0.017	-0.031	-0.037	-0.009	0.002	0.003	0.005	-0.005	0.001
U.S.	134.1	133.4	132.5	131.8	131.5	131.0	130.7	130.5	130.3	130.1	130.1	129.8
Δ mo.	0.234	-0.703	-0.823	-0.686	-0.351	-0.470	-0.329	-0.212	-0.219	-0.200	-0.007	-0.279

	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10
MI	3.834	3.833	3.830	3.848	3.862	3.866	3.877	3.865	3.874	3.890	3.892	3.895
Δ mo.	-0.001	0.000	-0.003	0.018	0.014	0.004	0.011	-0.012	0.009	0.016	0.002	0.003
U.S.	129.8	129.7	129.9	130.1	130.7	130.5	130.5	130.4	130.4	130.6	130.8	130.8
Δ mo.	0.028	-0.069	0.163	0.243	0.522	-0.133	-0.070	-0.034	-0.052	0.257	0.123	0.088

	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
MI	3.907	3.910	3.922	3.935	3.939	3.945	3.964	3.967	3.976	3.983	3.991	3.996
Δ mo.	0.012	0.002	0.012	0.013	0.004	0.006	0.019	0.003	0.009	0.007	0.007	0.006
U.S.	130.9	131.1	131.3	131.6	131.7	131.9	132.0	132.1	132.4	132.6	132.7	132.9
Δ mo.	0.042	0.188	0.225	0.346	0.073	0.235	0.070	0.107	0.246	0.202	0.146	0.207

	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12
MI	4.005	4.011	4.023	4.035	4.026	4.025	4.038	4.038	4.044	4.047	4.055	4.061
Δ mo.	0.009	0.006	0.012	0.012	-0.009	0.000	0.013	0.000	0.006	0.004	0.008	0.006
U.S.	133.3	133.5	133.8	133.8	134.0	134.0	134.2	134.4	134.6	134.7	134.8	135.1
Δ mo.	0.338	0.257	0.239	0.075	0.115	0.087	0.143	0.190	0.181	0.132	0.149	0.243

	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
MI	4.080	4.092	4.098	4.090	4.099	4.103	4.101	4.117	4.127	4.135	4.138	4.137
Δ mo.	0.019	0.012	0.006	-0.008	0.008	0.004	-0.001	0.015	0.010	0.008	0.003	-0.001
U.S.	135.3	135.6	135.7	135.9	136.1	136.3	136.4	136.7	136.9	137.1	137.3	137.4
Δ mo.	0.190	0.311	0.135	0.192	0.218	0.146	0.140	0.269	0.185	0.189	0.291	0.045

	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14
MI	4.143	4.162	4.162	4.161	4.170	4.191	4.190	4.190	4.188	4.196	4.207	4.218
Δ mo.	0.006	0.019	0.000	0.000	0.009	0.021	-0.001	-0.001	-0.002	0.008	0.012	0.011
U.S.	137.6	137.7	138.0	138.3	138.5	138.8	139.1	139.3	139.6	139.8	140.1	140.4
Δ mo.	0.187	0.168	0.272	0.310	0.213	0.306	0.232	0.218	0.286	0.200	0.331	0.292

Change from July 2009 530,000

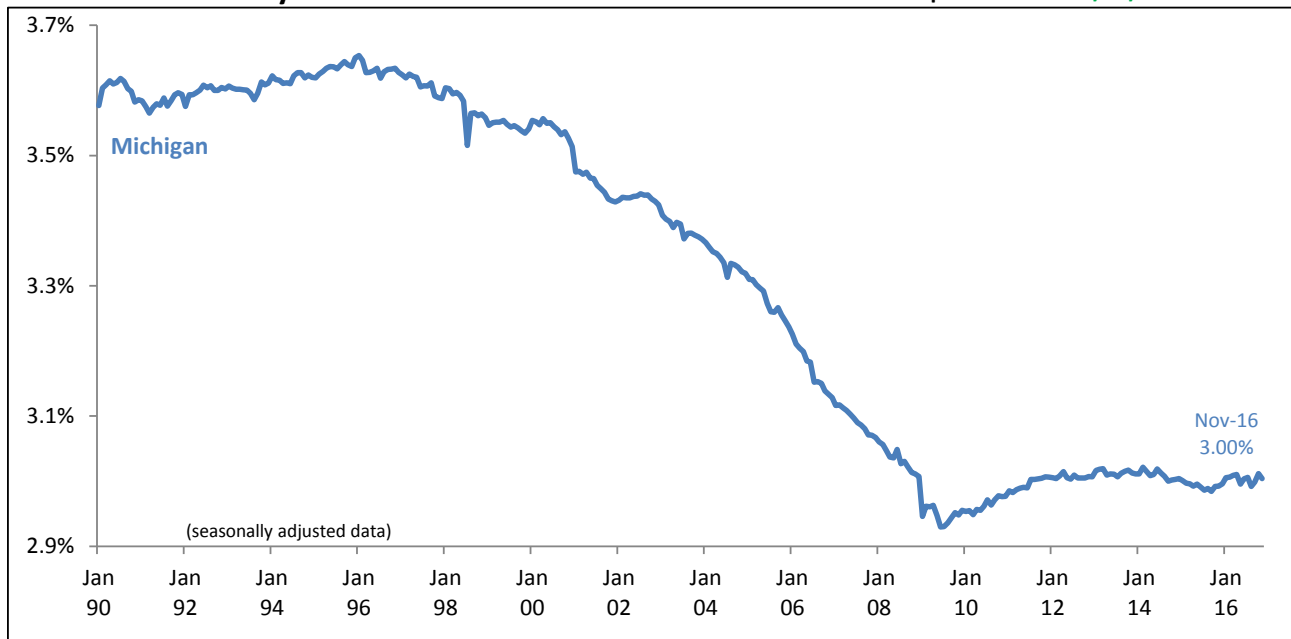
Change from December 2010 464,600

Source: Bureau of Labor Market Information, Current Employment Statistics (CES)

# MICHIGAN'S SHARE OF U.S. PAYROLL JOBS

1990-2016 Monthly

Last Update: 12/22/16



## 1990 to 2015 Annual Averages

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	3.60%	3.58%	3.60%	3.60%	3.62%	3.63%	3.63%	3.61%	3.58%	3.55%	3.54%	3.46%	3.43%
Rank	8	8	8	8	8	8	8	8	8	8	8	8	8
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	3.39%	3.34%	3.27%	3.17%	3.09%	3.03%	2.95%	2.96%	3.00%	3.01%	3.01%	3.01%	2.99%
Rank	8	8	8	8	8	8	11	9	8	8	8	8	9

## 2015 & 2016 Monthly Detail

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
MI	3.00%	3.00%	3.00%	2.99%	3.00%	2.99%	2.99%	2.99%	2.98%	2.99%	2.99%	3.00%
Rank	8	8	8	8	8	8	8	8	10	9	9	9
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	
MI	3.01%	3.01%	3.01%	3.01%	3.00%	3.00%	3.01%	2.99%	3.00%	3.01%	3.00%	
Rank	9	9	9	9	9	9	10	10	10	9	9	

### Summary: November 2016

**% Share**                    **3.00%**  
 Δ / month                    ▲ -0.01  
 Δ / year                        ▲ 0.01

\*Δ calculated with unrounded data

### Highlights

Michigan's share of U.S. payroll jobs fell to 3.00 percent. After dropping to below 3.0 percent in 2009 and 2010, Michigan's share of U.S. payrolls has consistently hovered near 3 percent since 2011. From 1990 to 2009, Michigan saw its jobs as a share of U.S. jobs steadily decline, reflecting significant job losses in Michigan.

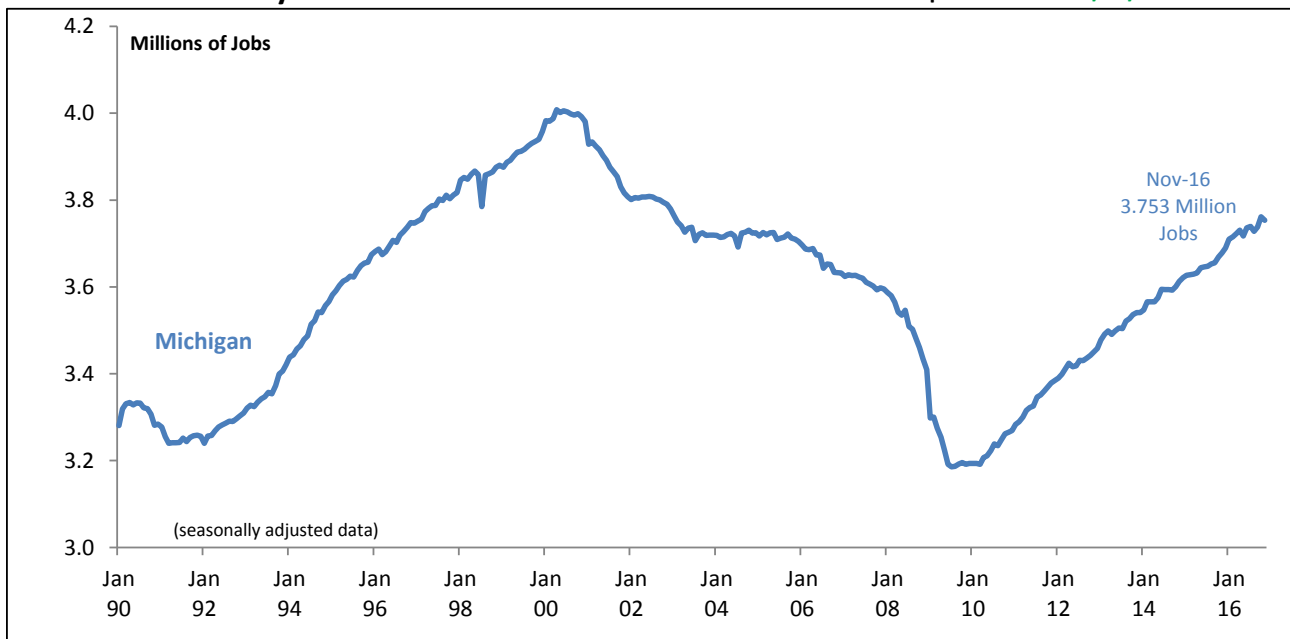
Source: Bureau of Labor Market Information, Current Employment Statistics (CES)



# PRIVATE SECTOR PAYROLL JOBS

1990-2016 Monthly

Last Update: 12/22/16



## 1990 to 2014 Annual Averages (millions of jobs)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	3.314	3.250	3.281	3.359	3.501	3.626	3.708	3.791	3.857	3.916	3.994	3.879	3.800
Rank	8	8	8	8	8	8	8	8	8	8	8	8	8
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	3.731	3.720	3.716	3.662	3.612	3.512	3.224	3.228	3.335	3.425	3.511	3.586	3.649
Rank	8	8	8	8	8	8	9	8	8	8	8	8	8

## 2014 and 2015 Monthly Detail (millions of jobs)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
MI	3.627	3.628	3.629	3.632	3.645	3.646	3.648	3.653	3.656	3.669	3.678	3.690
Rank	8	8	8	8	8	8	8	8	8	8	8	8
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	
MI	3.710	3.716	3.722	3.731	3.718	3.736	3.740	3.728	3.738	3.762	3.753	
Rank	8	8	8	8	8	8	8	8	8	8	8	

### Summary: November 2016

<b>Total Jobs</b>	<b>3,753,200</b>
#Δ / month	▲ -8,300
%Δ / month	-0.2%
#Δ / year	● 74,900
%Δ / year	2.0%

### Highlights

In the private sector, jobs decreased by 8,300 from October to November. Over the year there have been 74,900 private sector payroll jobs added. From the 2009 annual average to the 2015 annual average, private sector jobs increased by 425,000.

Source: Bureau of Labor Market Information, Current Employment Statistics (CES)

## PRIVATE SECTOR JOBS (Historical)

Seasonally Adjusted

Millions

	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09
MI	3.298	3.300	3.275	3.254	3.224	3.191	3.186	3.187	3.193	3.196	3.192	3.194
Δ mo.	0.028	0.002	-0.025	-0.021	-0.031	-0.032	-0.006	0.001	0.006	0.003	-0.004	0.002
U.S.	116.0	115.9	115.8	115.5	115.3	115.1	114.9	114.6	114.2	113.7	112.9	112.2
Δ mo.	0.003	-0.115	-0.106	-0.221	-0.215	-0.206	-0.261	-0.258	-0.422	-0.486	-0.776	-0.693

	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10
MI	3.194	3.194	3.191	3.207	3.211	3.223	3.238	3.235	3.248	3.262	3.265	3.269
Δ mo.	0.000	0.000	-0.002	0.015	0.004	0.012	0.015	-0.004	0.013	0.014	0.003	0.004
U.S.	111.4	110.7	109.9	109.1	108.8	108.4	108.1	107.9	107.7	107.5	107.4	107.2
Δ mo.	-0.821	-0.698	-0.810	-0.801	-0.294	-0.426	-0.272	-0.232	-0.141	-0.271	-0.015	-0.232

	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
MI	3.284	3.290	3.300	3.315	3.322	3.326	3.347	3.351	3.360	3.370	3.378	3.385
Δ mo.	0.014	0.006	0.011	0.015	0.007	0.003	0.021	0.005	0.008	0.010	0.009	0.006
U.S.	107.2	107.2	107.3	107.5	107.6	107.7	107.8	107.9	108.0	108.2	108.4	108.5
Δ mo.	0.020	-0.038	0.113	0.192	0.094	0.110	0.120	0.117	0.107	0.199	0.149	0.094

	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12
MI	3.390	3.399	3.412	3.424	3.416	3.418	3.431	3.431	3.436	3.442	3.450	3.458
Δ mo.	0.006	0.008	0.013	0.012	-0.008	0.002	0.013	0.000	0.006	0.006	0.008	0.008
U.S.	108.6	108.8	109.0	109.3	109.5	109.7	109.9	110.0	110.3	110.5	110.7	110.9
Δ mo.	0.072	0.223	0.231	0.320	0.166	0.186	0.219	0.125	0.268	0.177	0.191	0.222

	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
MI	3.478	3.491	3.499	3.491	3.498	3.505	3.504	3.522	3.527	3.536	3.541	3.541
Δ mo.	0.019	0.013	0.007	-0.008	0.008	0.007	-0.001	0.018	0.005	0.009	0.005	0.000
U.S.	111.2	111.5	111.7	111.8	112.0	112.0	112.2	112.3	112.5	112.8	113.0	113.2
Δ mo.	0.364	0.228	0.246	0.102	0.131	0.075	0.172	0.136	0.159	0.255	0.211	0.215

	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14
MI	3.547	3.566	3.566	3.566	3.575	3.595	3.594	3.594	3.593	3.601	3.612	3.622
Δ mo.	0.006	0.019	0.000	0.000	0.009	0.019	-0.001	0.000	-0.002	0.008	0.012	0.009
U.S.	113.4	113.7	113.9	114.0	114.3	114.4	114.6	114.8	115.0	115.2	115.5	115.6
Δ mo.	0.240	0.297	0.139	0.194	0.225	0.172	0.162	0.213	0.168	0.235	0.303	0.124

Change from July 2009 567,400

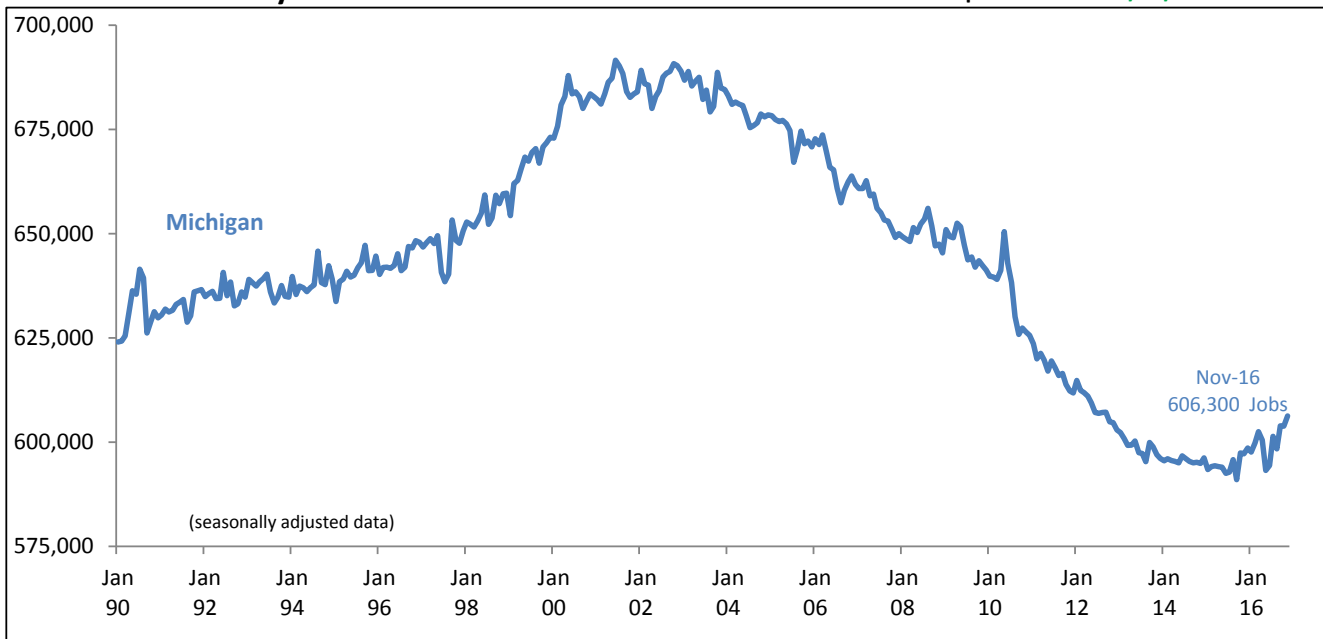
Change from December 2010 483,900

Source: Bureau of Labor Market Information, Current Employment Statistics (CES)

# GOVERNMENT PAYROLL JOBS

1990-2016 Monthly

Last Update: 12/22/16



### 1990 to 2015 Annual Averages (thousands of jobs)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	630.6	632.5	635.8	637.7	638.8	640.7	643.6	647.2	655.8	667.4	681.4	685.0	686.6
Rank		8	8	8	8	8	8	8	8	8	8	8	8

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	685.4	679.7	674.1	665.3	655.7	650.0	646.8	635.6	617.4	608.5	598.6	595.7	594.3
Rank		8	8	11	11	12	12	12	12	12	12	12	12

### 2015 & 2016 Monthly Detail (thousands of jobs)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
MI	593.4	594.1	594.3	594.1	594.0	592.5	592.8	595.8	591.0	597.4	597.2	598.6
Rank		12	12	12	12	12	12	12	12	12	12	12

	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16
MI	597.6	599.8	602.5	600.5	593.2	594.4	601.4	598.4	603.9	603.8	606.3
Rank		12	12	12	12	12	12	12	12	12	12

### Summary: November 2016

<b>Total Jobs</b>	<b>606,300</b>
#Δ / month	2,500
%Δ / month	0.4%
#Δ / year	9,100
%Δ / year	1.5%

### Highlights

Job levels notched up by 2,500 in November. Between November 2015 and November 2016, *Government* employment advanced by 9,100.

Source: Bureau of Labor Market Information, Current Employment Statistics (CES)

## GOVERNMENT JOBS (Historical)

Seasonally Adjusted												Thousands
	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09
MI	651.0	649.3	649.0	652.5	651.7	647.2	643.7	644.4	642.0	643.5	642.4	641.3
Δ mo.	-1.00	-1.70	-0.30	3.50	-0.80	-4.50	-3.50	0.70	-2.40	1.50	-1.10	-1.10
U.S.	22,388	22,417	22,443	22,450	22,483	22,517	22,568	22,567	22,537	22,549	22,560	22,556
Δ mo.	12.0	29.0	26.0	7.0	33.0	34.0	51.0	-1.0	-30.0	12.0	11.0	-4.0

	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10
MI	639.8	639.6	639.0	641.2	650.5	642.9	638.3	630.1	625.8	627.4	626.4	625.6
Δ mo.	-1.50	-0.20	-0.60	2.20	9.30	-7.60	-4.60	-8.20	-4.30	1.60	-1.00	-0.80
U.S.	22,579	22,576	22,560	22,677	22,617	22,576	22,521	22,537	22,451	22,524	22,533	22,482
Δ mo.	23.0	-3.0	-16.0	117.0	-60.0	-41.0	-55.0	16.0	-86.0	73.0	9.0	-51.0

	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
MI	623.6	620.0	621.3	619.7	617.0	619.5	617.8	616.0	616.5	613.8	612.3	611.8
Δ mo.	-2.00	-3.60	1.30	-1.60	-2.70	2.50	-1.70	-1.80	0.50	-2.70	-1.50	-0.50
U.S.	22,491	22,476	22,518	22,569	22,996	22,740	22,569	22,420	22,247	22,297	22,287	22,266
Δ mo.	9.0	-15.0	42.0	51.0	427.0	-256.0	-171.0	-149.0	-173.0	50.0	-10.0	-21.0

	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12
MI	614.8	612.4	611.9	611.0	609.4	607.1	606.9	607.1	607.2	604.9	604.7	602.9
Δ mo.	3.00	-2.40	-0.50	-0.90	-1.60	-2.30	-0.20	0.20	0.10	-2.30	-0.20	-1.80
U.S.	22,264	22,213	22,194	22,185	22,128	22,127	22,054	22,045	21,981	21,998	21,970	21,950
Δ mo.	-2.0	-51.0	-19.0	-9.0	-57.0	-1.0	-73.0	-9.0	-64.0	17.0	-28.0	-20.0

	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
MI	602.3	600.8	599.2	599.3	600.3	597.5	597.3	595.3	599.9	598.9	597.0	596.1
Δ mo.	-0.60	-1.50	-1.60	0.10	1.00	-2.80	-0.20	-2.00	4.60	-1.00	-1.90	-0.90
U.S.	21,949	21,947	21,945	21,922	21,913	21,892	21,915	21,943	21,923	21,896	21,874	21,892
Δ mo.	-1.0	-2.0	-2.0	-23.0	-9.0	-21.0	23.0	28.0	-20.0	-27.0	-22.0	18.0

	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14
MI	595.5	596.0	595.6	595.4	595.0	596.7	596.0	595.4	595.0	595.2	594.9	596.2
Δ mo.	-0.60	0.50	-0.40	-0.20	-0.40	1.70	-0.70	-0.60	-0.40	0.20	-0.30	1.30
U.S.	21,877	21,894	21,870	21,863	21,857	21,812	21,814	21,857	21,839	21,829	21,843	21,828
Δ mo.	-15.0	17.0	-24.0	-7.0	-6.0	-45.0	2.0	43.0	-18.0	-10.0	14.0	-15.0

Change from July 2009	-37,400
Change from December 2010	-19,300

Source: Bureau of Labor Market Information, Current Employment Statistics (CES)

## GOVERNMENT JOBS (Detail)

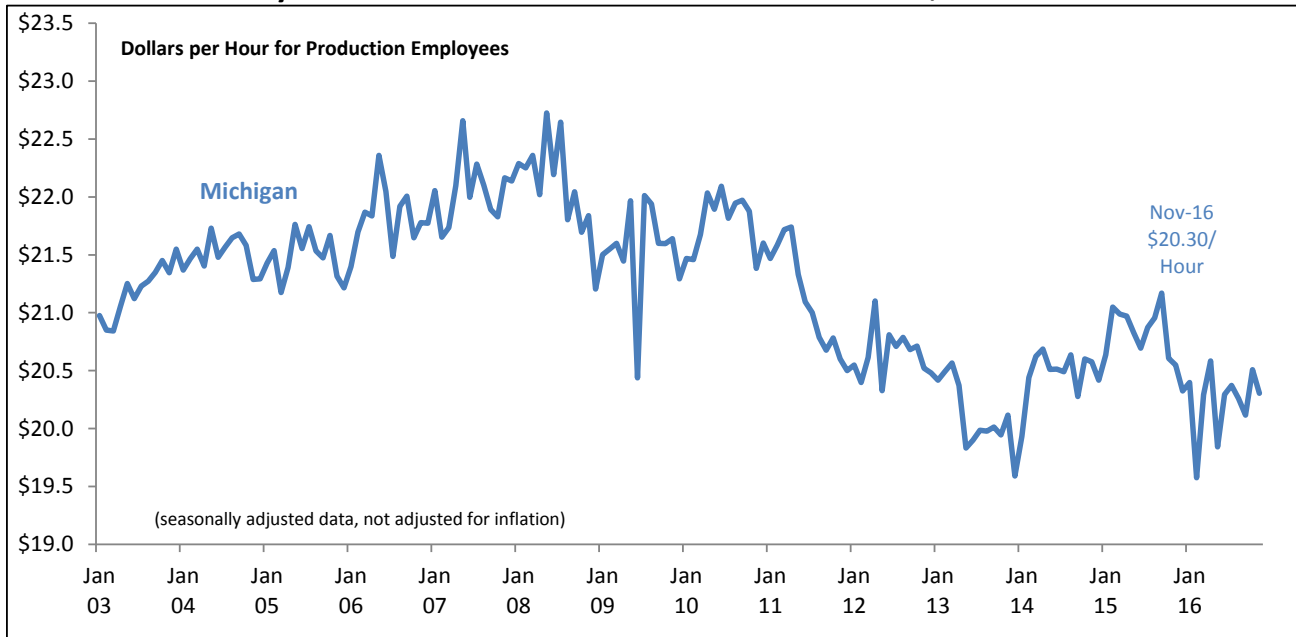
Seasonally Adjusted											Thousands	
	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09
<b>MI Fed</b>	53,200	53,200	53,200	57,700	56,700	53,800	53,900	54,000	54,200	54,500	54,600	54,500
<b>MI State</b>	178,700	177,900	178,200	177,900	178,800	179,300	179,000	178,800	177,200	178,700	179,400	179,400
<b>MI Local</b>	419,100	418,200	417,600	416,900	416,200	414,100	410,800	411,600	410,600	410,300	408,400	407,400
<b>Total</b>	651.0	649.3	649.0	652.5	651.7	647.2	643.7	644.4	642.0	643.5	642.4	641.3
	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10
<b>MI Fed</b>	55,400	55,300	56,300	58,400	70,800	61,200	59,700	55,700	53,900	53,800	53,800	53,600
<b>MI State</b>	178,100	179,000	178,700	178,700	178,200	178,300	177,900	178,600	178,500	179,300	179,000	178,700
<b>MI Local</b>	406,300	405,300	404,000	404,100	401,500	403,400	400,700	395,800	393,400	394,300	393,600	393,300
<b>Total</b>	639.8	639.6	639.0	641.2	650.5	642.9	638.3	630.1	625.8	627.4	626.4	625.6
	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
<b>MI Fed</b>	53,600	53,300	53,300	53,200	53,300	53,100	53,300	53,200	53,100	53,200	52,900	52,800
<b>MI State</b>	178,400	176,000	177,900	177,700	176,200	176,400	177,900	177,100	177,700	178,000	178,500	178,900
<b>MI Local</b>	391,600	390,700	390,100	388,800	387,500	390,000	386,600	385,700	385,700	382,600	380,900	380,100
<b>Total</b>	623.6	620.0	621.3	619.7	617.0	619.5	617.8	616.0	616.5	613.8	612.3	611.8
	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12
<b>MI Fed</b>	52,800	52,400	52,800	52,800	52,700	52,800	52,700	52,800	52,800	52,900	52,600	52,600
<b>MI State</b>	181,700	180,000	180,000	180,100	180,400	180,700	178,400	179,200	179,500	179,000	178,700	178,500
<b>MI Local</b>	380,300	380,000	379,100	378,100	376,300	373,600	375,800	375,100	374,900	373,000	373,400	371,800
<b>Total</b>	614.8	612.4	611.9	611.0	609.4	607.1	606.9	607.1	607.2	604.9	604.7	602.9
	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
<b>MI Fed</b>	52,400	52,300	51,900	52,200	51,800	51,900	51,700	51,500	51,600	51,400	51,400	51,600
<b>MI State</b>	178,800	178,300	177,900	178,300	179,200	179,100	179,100	180,100	180,500	180,200	180,600	178,900
<b>MI Local</b>	371,100	370,200	369,400	368,800	369,300	366,500	366,500	363,700	367,800	367,300	365,000	365,600
<b>Total</b>	602.3	600.8	599.2	599.3	600.3	597.5	597.3	595.3	599.9	598.9	597.0	596.1
	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14
<b>MI Fed</b>	51,000	50,700	50,800	50,900	50,900	51,000	50,900	51,000	50,900	50,800	51,000	51,400
<b>MI State</b>	179,900	180,100	180,000	180,000	180,300	180,300	180,600	180,700	181,500	182,300	182,400	184,100
<b>MI Local</b>	364,600	365,200	364,800	364,500	363,800	365,400	364,500	363,700	362,600	362,100	361,500	360,700
<b>Total</b>	595.5	596.0	595.6	595.4	595.0	596.7	596.0	595.4	595.0	595.2	594.9	596.2
	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
<b>MI Fed</b>	51,000	51,200	51,300	51,300	51,200	51,200	51,300	51,400	51,400	51,200	51,700	52,000
<b>MI State</b>	182,000	183,400	183,800	183,900	183,600	183,000	183,400	183,500	182,800	187,900	187,600	188,700
<b>MI Local</b>	360,400	359,500	359,200	358,900	359,200	358,300	358,100	360,900	356,800	358,300	357,900	357,900
<b>Total</b>	593.4	594.1	594.3	594.1	594.0	592.5	592.8	595.8	591.0	597.4	597.2	598.6
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
<b>MI Fed</b>	51,500	51,800	52,000	51,200	52,200	52,300	52,300	52,200	52,500	52,500	52,500	
<b>MI State</b>	185,700	188,800	188,600	190,200	184,200	180,200	182,700	182,000	185,600	188,400	189,700	
<b>MI Local</b>	360,400	359,200	361,900	359,100	356,800	361,900	366,400	364,200	365,800	362,900	364,100	
<b>Total</b>	597.6	599.8	602.5	600.5	593.2	594.4	601.4	598.4	603.9	603.8	606.3	

Source: Bureau of Labor Market Information, Current Employment Statistics (CES)

# AVERAGE HOURLY EARNINGS: MANUFACTURING

2003-2016 Monthly

Last Update: 12/22/16



## 2003 to 2015 Annual Averages (dollars per hour)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	21.20	21.51	21.46	21.82	22.05	22.10	21.55	21.76	21.09	20.69	20.10	20.46	20.80

## 2015 & 2016 Monthly Detail (dollars per hour)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
MI	20.64	21.05	20.99	20.97	20.83	20.70	20.87	20.96	21.17	20.61	20.55	20.32

	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16
MI	20.40	19.58	20.29	20.58	19.84	20.29	20.37	20.26	20.12	20.51	20.30

### Summary: November 2016

<b>Hours Worked</b>	<b>\$20.30</b>
#Δ / month	-\$0.21
%Δ / month	◆ -1.0%
#Δ / year	-\$0.25
%Δ / year	◆ -1.2%

### Highlights

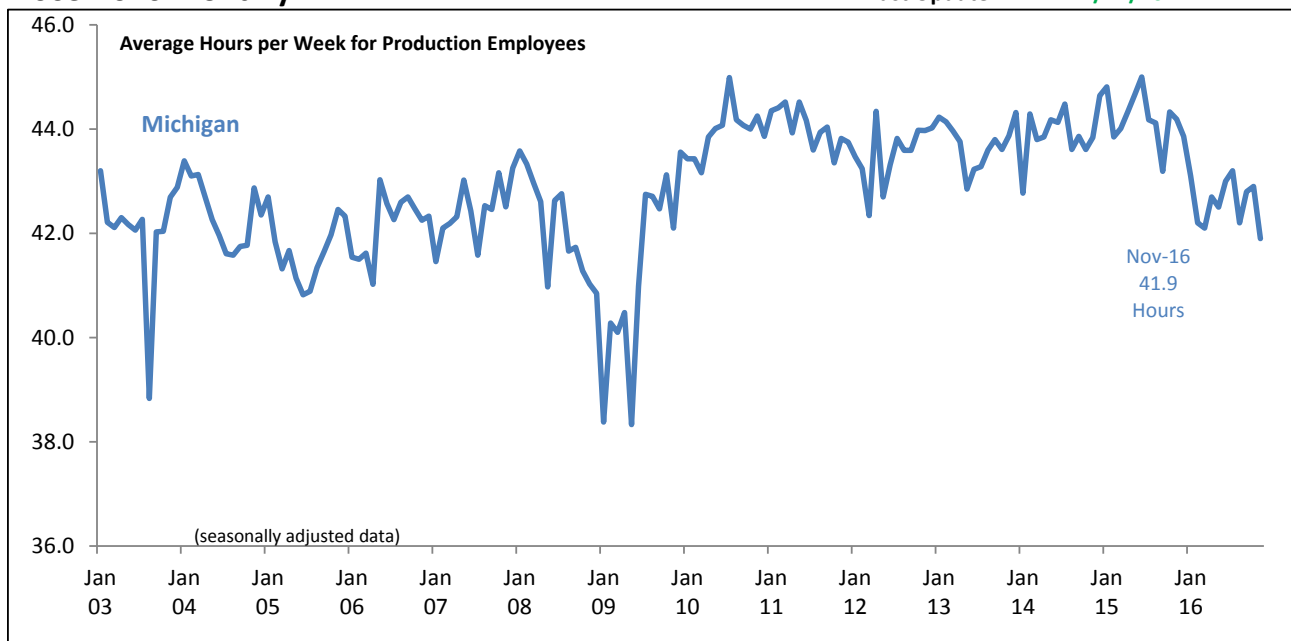
*Manufacturing* hourly earnings decreased over the month by \$0.21, or a 1.0 percent contraction. Hourly earnings have decreased by \$0.25, or 1.2 percent, over the year.

Source: Bureau of Labor Market Information, Current Employment Statistics (CES)

# AVERAGE WEEKLY HOURS: MANUFACTURING

2003-2016 Monthly

Last Update: 12/22/16



## 2003 to 2015 Annual Averages (average hours per week)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	42.1	42.4	41.7	42.2	42.4	42.2	41.3	44.0	44.0	43.5	43.7	43.9	44.2

## 2015 & 2016 Monthly Detail (average hours per week)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
MI	44.8	43.9	44.0	44.3	44.7	45.0	44.2	44.1	43.2	44.3	44.2	43.9

	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16
MI	43.1	42.2	42.1	42.7	42.5	43.0	43.2	42.2	42.8	42.9	41.9

### Summary: November 2016

**Hours Worked** **41.9**  
 #Δ / month ▲ -1.0  
 #Δ / year ◆ -2.3  
 (Rounded)

### Highlights

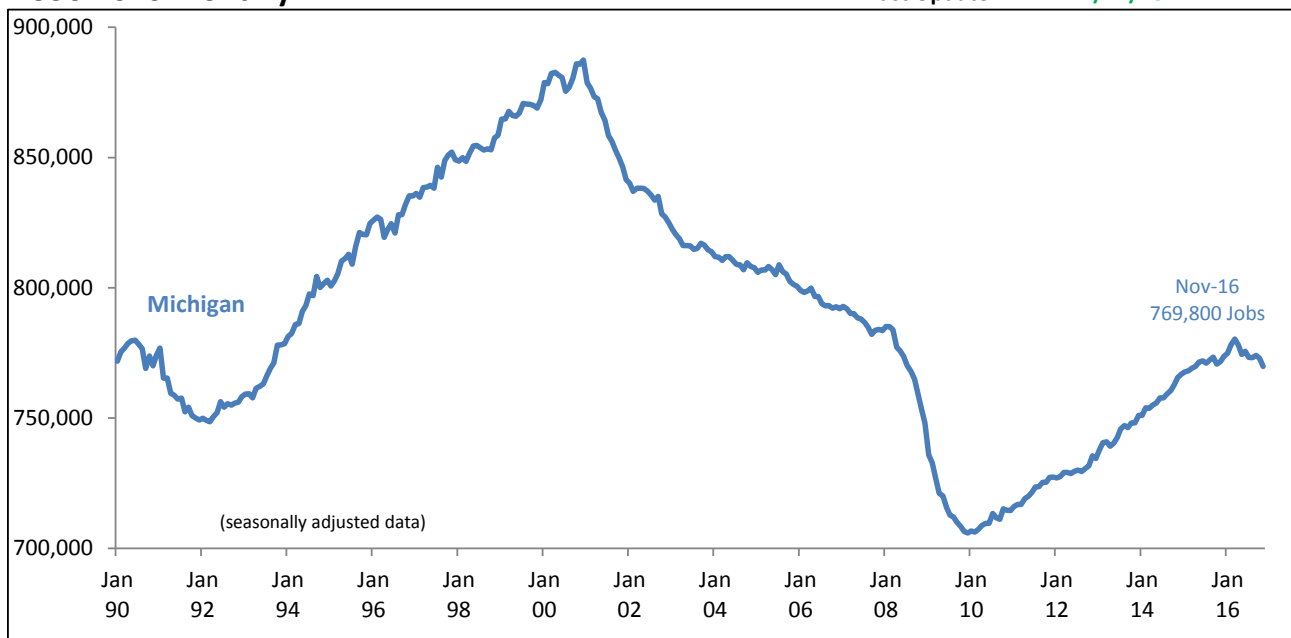
Average weekly hours worked in the state's *Manufacturing* sector decreased by 1.0 hours over the month. Since November 2015, average weekly hours worked have decreased by 2.3 hours.

Source: Bureau of Labor Market Information, Current Employment Statistics (CES)

# PAYROLL JOBS: TRADE, TRANSPORTATION, AND UTILITIES

1990-2016 Monthly

Last Update: 12/22/16



## 1990 to 2015 Annual Averages (thousands of jobs)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	775.1	757.9	753.9	767.1	793.6	812.5	826.9	843.1	853.5	868.3	881.2	861.2	834.3
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	817.0	809.8	805.1	795.0	787.0	770.3	717.2	710.6	721.8	730.2	744.1	758.5	770.7

## 2015 & 2016 Monthly Detail (thousands of jobs)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
MI	767.7	768.2	769.2	769.8	771.5	772.0	771.1	772.3	773.4	770.7	771.7	773.7
Rank	11	11	11	11	11	11	11	11	11	11	11	11
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	
MI	774.8	778.1	780.3	778.1	774.4	775.6	773.3	773.2	774.1	772.9	769.8	
Rank	11	11	11	11	11	11	11	11	11	11	11	

### Summary: November 2016

<b>Total Jobs</b>	<b>769,800</b>
#Δ / month	▲ -3,100
%Δ / month	-0.4%
#Δ / year	▲ -1,900
%Δ / year	-0.2%

### Highlights

Employment declined by 3,100 in November and has declined by 1,900 over the past 12 months.

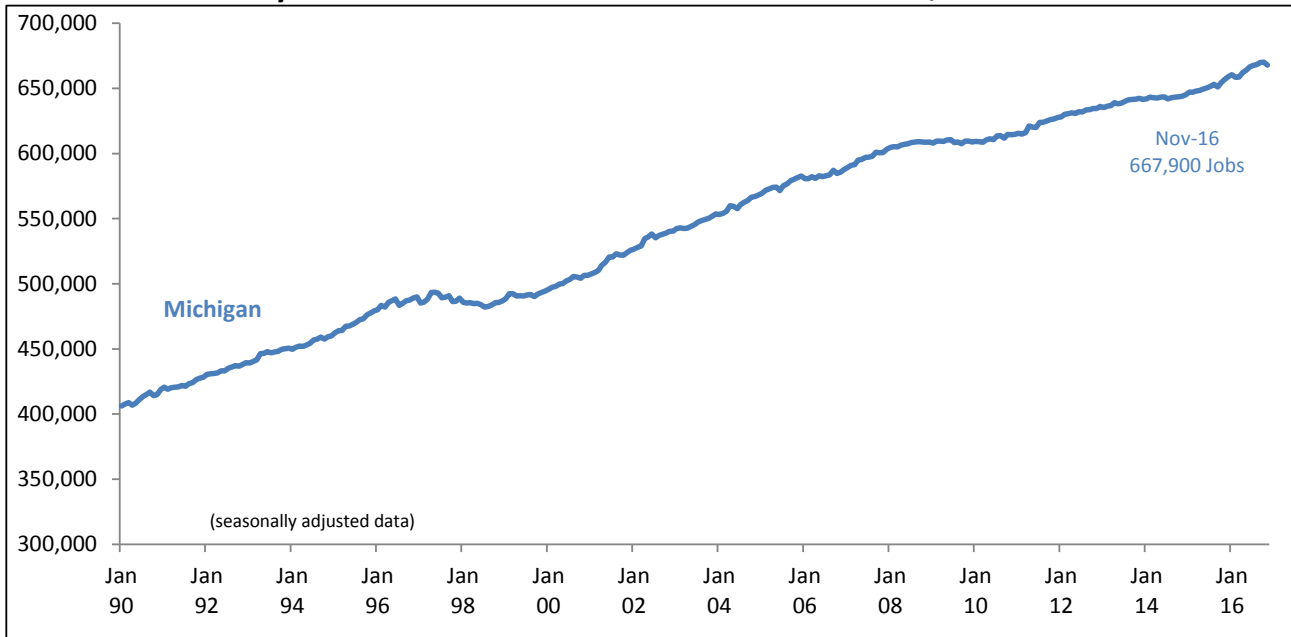
Source: Bureau of Labor Market Information, Current Employment Statistics (CES)



# PAYROLL JOBS: PRIVATE EDUCATION & HEALTH SERVICES

1990-2016 Monthly

Last Update: 12/22/16



## 1990 to 2015 Annual Averages (thousands of jobs)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	411.7	422.8	434.5	446.3	455.2	470.2	485.6	489.4	484.8	491.7	502.1	517.8	535.1
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	546.9	560.9	575.8	583.3	596.7	607.4	609.2	611.8	621.7	632.2	639.4	643.1	651.7

## 2015 & 2016 Monthly Detail (thousands of jobs)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
MI	647.1	647.1	648.0	648.4	649.6	650.3	651.5	653.0	651.1	654.5	657.0	659.0
Rank	9	9	9	9	9	9	9	9	9	9	9	9
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	
MI	660.5	658.4	658.6	662.1	663.9	666.5	667.6	668.4	669.9	670.1	667.9	
Rank	10	10	10	10	10	10	9	9	9	10	10	

### Summary: November 2016

<b>Total Jobs</b>	<b>667,900</b>
#Δ / month	▲ -2,200
%Δ / month	-0.3%
#Δ / year	● 10,900
%Δ / year	1.7%

### Highlights

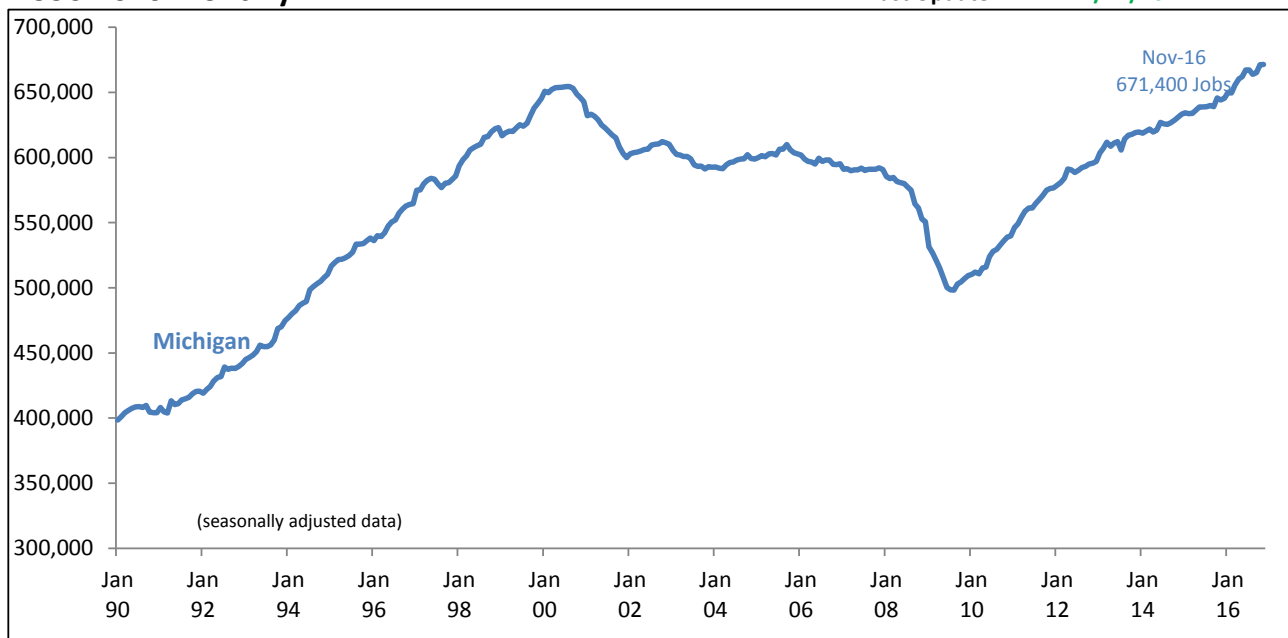
Between October and November, *the Private education & health services* industry lost 2,200 jobs, a -0.3 contraction. However, over the past 12 months, this industry has gained 10,900 jobs.

Source: Bureau of Labor Market Information, Current Employment Statistics (CES)

# PAYROLL JOBS: PROFESSIONAL & BUSINESS SERVICES

1990-2016 Monthly

Last Update: 12/22/16



### 1990 to 2015 Annual Averages (thousands of jobs)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	405.3	413.0	432.6	457.1	494.0	527.3	551.3	580.5	610.3	627.7	651.1	619.7	607.9
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	597.5	596.6	603.8	597.0	590.8	573.1	510.0	524.1	563.0	589.6	612.6	625.1	638.9

### 2015 & 2016 Monthly Detail (thousands of jobs)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
MI	634.4	633.7	633.8	636.3	638.8	638.8	638.9	640.0	638.9	645.7	644.1	645.5
Rank	9	9	9	9	10	9	9	9	10	10	10	10
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	
MI	649.9	649.6	655.6	660.3	662.1	667.2	667.1	663.9	665.1	671.2	671.4	
Rank	11	11	10	10	10	10	9	10	10	10	10	

### Summary: November 2016

<b>Total Jobs</b>	<b>671,400</b>
#Δ / month	▲ 200
%Δ / month	0.0%
#Δ / year	● 27,300
%Δ / year	4.2%

### Highlights

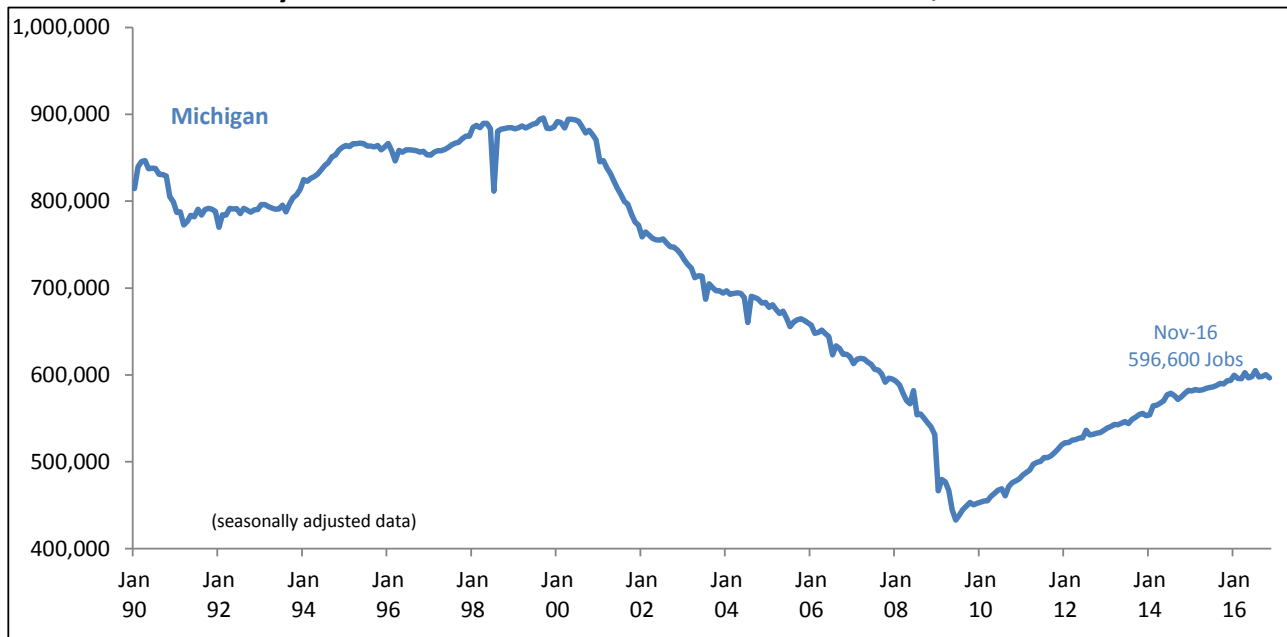
The *Professional and business services* industry remained essentially unchanged over the month, growing by 200 jobs. Since November 2015, this industry has grown by 4.2 percent, adding 27,300 jobs.

Source: Bureau of Labor Market Information, Current Employment Statistics (CES)

# PAYROLL JOBS: MANUFACTURING

1990-2016 Monthly

Last Update: 12/22/16



### 1990 to 2015 Annual Averages (thousands of jobs)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	829.4	784.8	787.9	797.4	839.4	863.7	856.9	864.1	880.0	887.8	886.0	811.4	752.9
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	708.5	688.3	667.2	637.7	607.6	562.7	454.9	466.0	501.4	529.2	546.6	571.8	587.3

### 2015 & 2016 Monthly Detail (thousands of jobs)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
MI	581.7	583.2	582.2	582.9	584.5	585.7	586.2	588.0	590.3	589.6	593.2	593.6
Rank	4 of 48	4 of 48	4 of 48	4 of 48	4 of 48	4 of 48	4 of 48	4 of 48	4 of 48	4 of 48	4 of 48	4 of 48
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	
MI	599.6	596.0	595.5	602.5	596.7	598.1	605.0	597.7	598.3	600.4	596.6	
Rank	4 of 48	4 of 48	4 of 48	4 of 48	4 of 48	4 of 48	4 of 48	4 of 48	4 of 48	4 of 48	4 of 48	

### Summary: November 2016

<b>Total Jobs</b>	<b>596,600</b>
#Δ / month	◆ -3,800
%Δ / month	-0.6%
#Δ / year	▲ 3,400
%Δ / year	0.6%

### Highlights

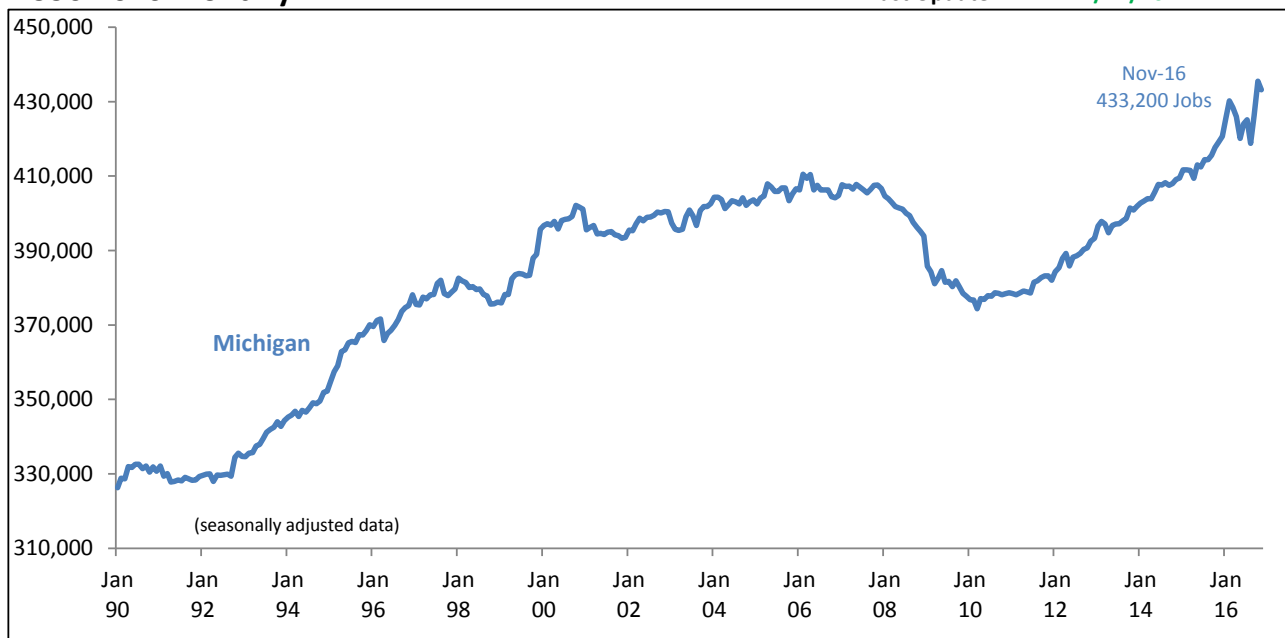
Manufacturing contracted over the month by 3,800 jobs, however over the past 12 months this industry has grown by 3,400 jobs.

Source: Bureau of Labor Market Information, Current Employment Statistics (CES)

# PAYROLL JOBS: LEISURE & HOSPITALITY

1990-2016 Monthly

Last Update: 12/22/16



### 1990 to 2015 Annual Averages (thousands of jobs)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	330.8	328.9	330.9	339.9	348.2	364.0	371.4	378.4	379.2	383.8	398.6	394.9	398.7
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	399.0	403.1	405.6	406.8	407.0	399.9	381.7	377.6	380.5	388.8	398.2	406.5	413.3

### 2015 & 2016 Monthly Detail (thousands of jobs)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
MI	411.7	411.7	411.5	409.4	413.0	412.5	414.4	414.4	415.6	417.7	419.1	420.7
Rank	10	10	10	10	10	10	10	10	10	10	10	10
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	
MI	425.5	430.2	428.4	426.0	420.1	424.0	425.1	418.8	426.2	435.5	433.2	
Rank	10	10	10	10	10	10	10	10	10	10	10	

### Summary: November 2016

<b>Total Jobs</b>	<b>433,200</b>
#Δ / month	▲ -2,300
%Δ / month	-0.5%
#Δ / year	● 14,100
%Δ / year	3.4%

### Highlights

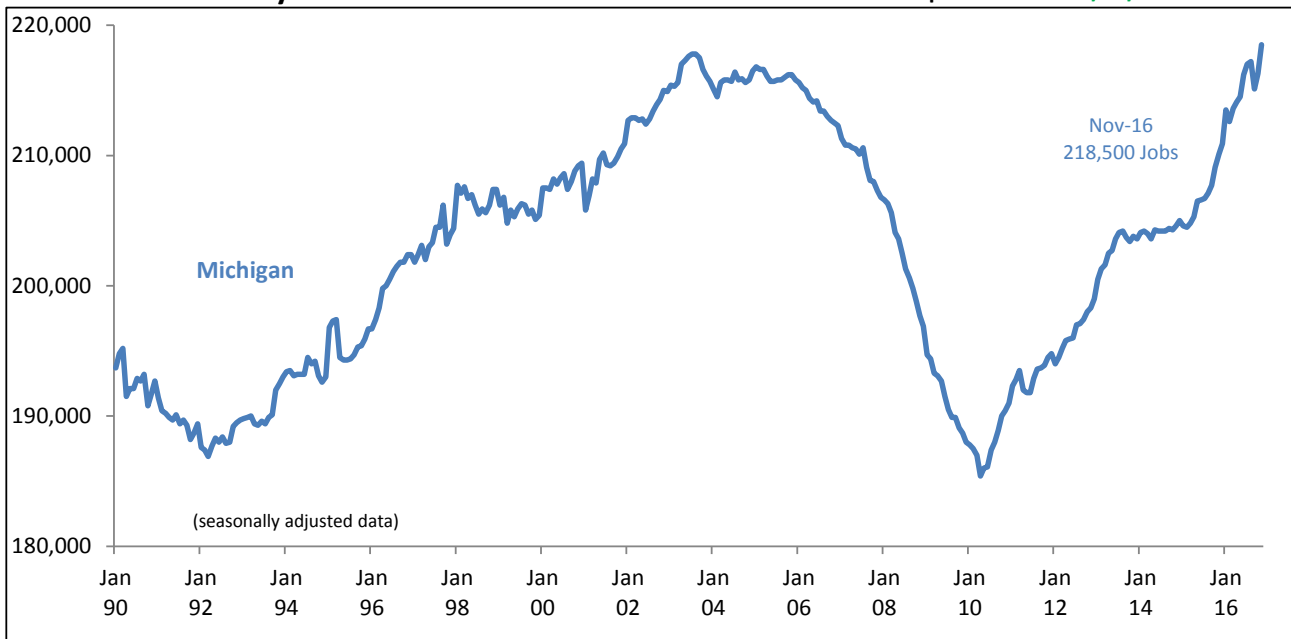
Leisure and hospitality lost 2,300 jobs (-0.5 percent) in November, but has grown by 14,100 jobs (+3.4 percent) since November 2015.

Source: Bureau of Labor Market Information, Current Employment Statistics (CES)

## PAYROLL JOBS: FINANCIAL ACTIVITIES

1990-2016 Monthly

Last Update: 12/22/16



### 1990 to 2015 Annual Averages (thousands of jobs)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	192.8	189.7	188.2	190.4	193.4	195.6	200.3	203.6	206.7	205.7	208.1	209.0	213.4
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	216.7	215.7	216.1	213.8	209.5	202.0	191.4	188.1	193.2	196.5	202.9	204.3	207.1

### 2015 & 2016 Monthly Detail (thousands of jobs)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
MI	204.6	204.5	204.8	205.3	206.5	206.6	206.7	207.1	207.7	209.1	210.1	210.9
Rank	12	12	12	12	12	12	11	11	12	11	12	11
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	
MI	213.5	212.6	213.6	214.1	214.5	216.2	217.0	217.2	215.1	216.3	218.5	
Rank	12	12	12	12	12	12	12	12	12	12	12	

### Summary: November 2016

<b>Total Jobs</b>	<b>218,500</b>
#Δ / month	2,200
%Δ / month	1.0%
#Δ / year	8,400
%Δ / year	4.0%

### Highlights

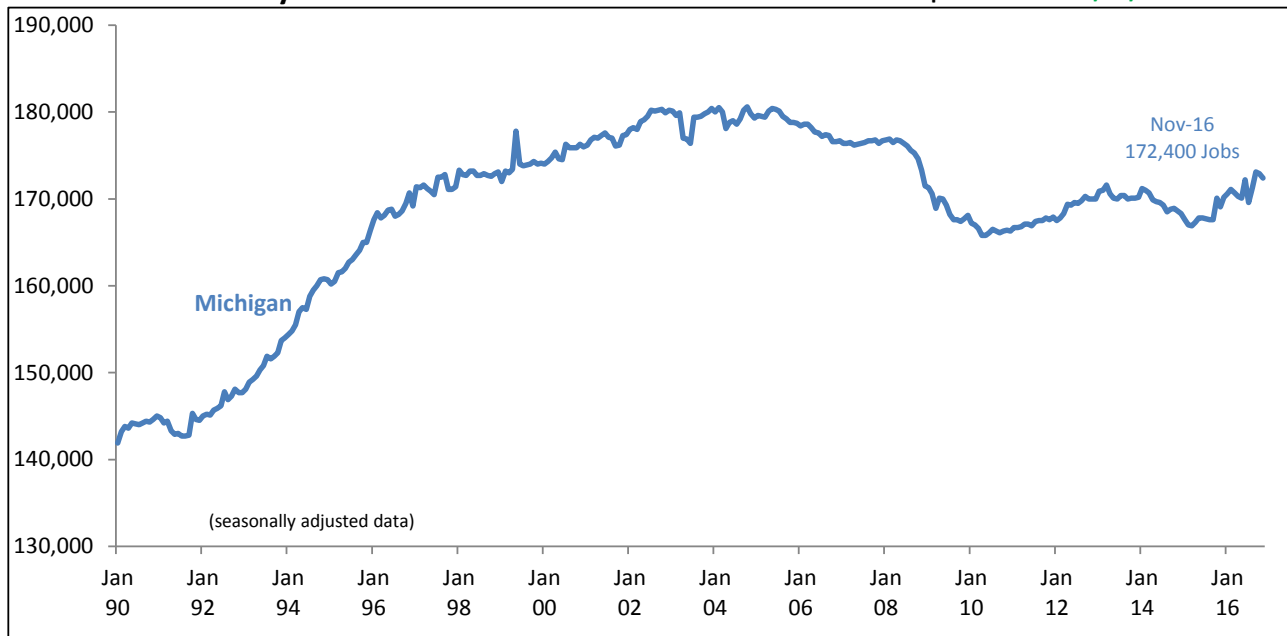
Adding 2,200 jobs in November, the *Financial Activities* industry has continued a strong year, growing by 8,400 jobs (+4.0 percent) over the past 12 months.

Source: Bureau of Labor Market Information, Current Employment Statistics (CES)

## PAYROLL JOBS: OTHER SERVICES

1990-2016 Monthly

Last Update: 12/22/16



### 1990 to 2015 Annual Averages (thousands of jobs)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	143.9	143.7	146.6	151.1	158.1	162.9	168.6	171.5	173.0	174.0	175.3	176.9	179.3
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	179.1	179.6	179.6	177.5	176.6	175.6	168.8	166.3	167.3	169.3	170.5	169.5	168.1

### 2015 & 2016 Monthly Detail (thousands of jobs)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
MI	167.6	167.0	166.9	167.3	167.8	167.8	167.7	167.6	167.6	170.1	169.1	170.2
Rank	10	10	10	9	10	10	10	10	10	9	9	9
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	
MI	170.6	171.1	170.7	170.3	170.1	172.2	169.6	171.3	173.1	172.9	172.4	
Rank	10	9	9	10	9	9	10	10	9	9	9	

### Summary: November 2016

<b>Total Jobs</b>	<b>172,400</b>
#Δ / month	▲ -500
%Δ / month	-0.3%
#Δ / year	▲ 3,300
%Δ / year	2.0%

### Highlights

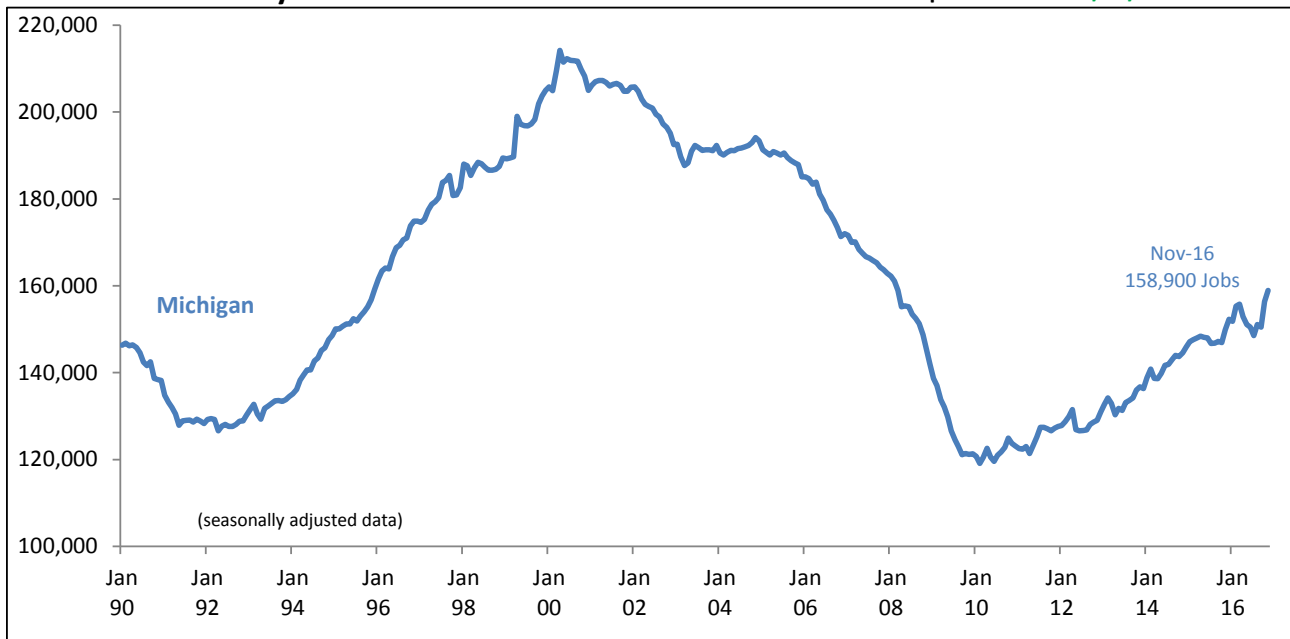
While *Other services* declined over the month (-500 jobs), this industry has grown by 3,300 jobs since November 2015.

Source: Bureau of Labor Market Information, Current Employment Statistics (CES)

# PAYROLL JOBS: CONSTRUCTION

1990-2016 Monthly

Last Update: 12/22/16



### 1990 to 2015 Annual Averages (thousands of jobs)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	143.1	130.0	128.5	132.5	142.0	152.9	168.5	180.3	187.5	197.1	209.7	206.3	199.8
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	190.9	191.8	189.5	178.4	166.7	153.5	127.6	121.6	125.3	128.2	133.5	141.8	147.9

### 2015 & 2016 Monthly Detail (thousands of jobs)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
MI	147.1	147.6	148.0	148.4	148.1	148.0	146.7	146.8	147.2	146.9	149.9	152.3
Rank	14	15	13	13	13	13	13	14	14	15	15	14
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	
MI	151.8	155.3	155.8	152.9	151.1	150.5	148.5	151.1	150.5	156.4	158.9	
Rank	14	13	14	14	15	15	16	15	15	14	13	

### Summary: November 2016

<b>Total Jobs</b>	<b>158,900</b>
#Δ / month	▲ 2,500
%Δ / month	1.6%
#Δ / year	● 9,000
%Δ / year	6.0%

### Highlights

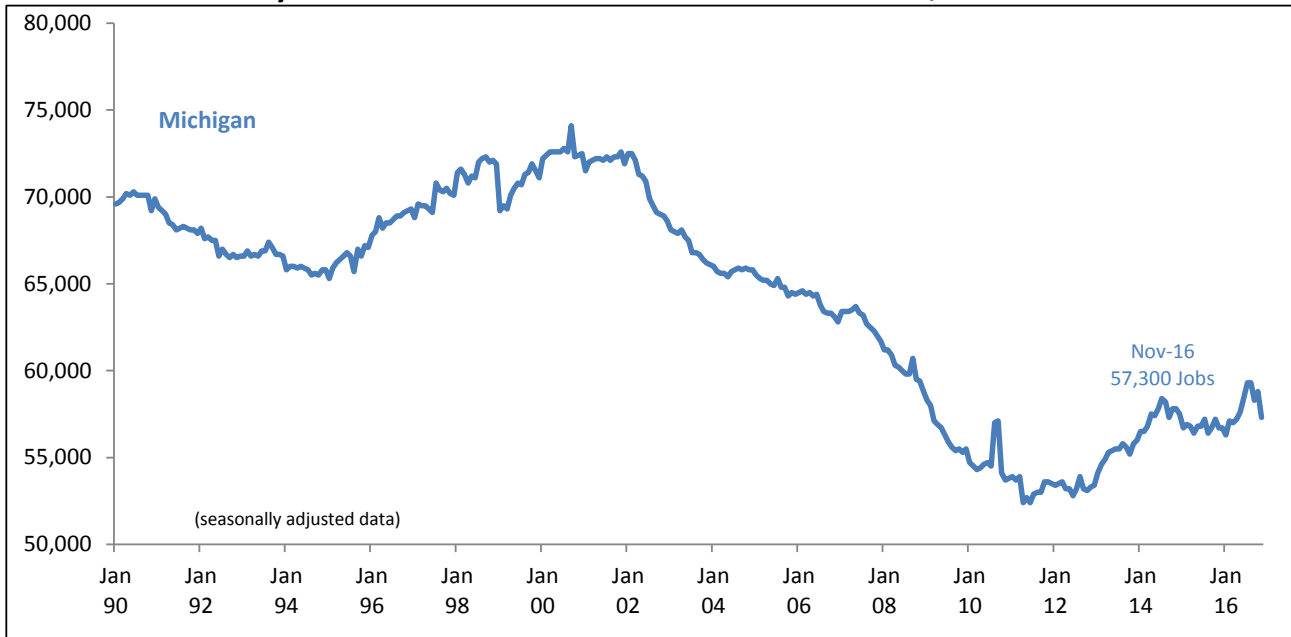
Construction continued a strong year in November, adding 2,500 jobs. Over the past 12 months, this industry has added 9,000 jobs.

Source: Bureau of Labor Market Information, Current Employment Statistics (CES)

# PAYROLL JOBS: INFORMATION

1990-2016 Monthly

Last Update: 12/22/16



### 1990 to 2015 Annual Averages (thousands of jobs)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	69.9	68.4	67.1	66.8	65.8	66.5	68.6	69.8	71.7	70.6	72.7	72.1	70.4
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	67.1	65.7	64.9	63.9	62.9	60.2	56.3	54.8	53.2	53.3	55.3	57.5	56.7

### 2015 & 2016 Monthly Detail (thousands of jobs)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
MI	56.7	56.9	56.8	56.4	56.8	56.8	57.2	56.4	56.7	57.2	56.7	56.7
Rank	15 of 40	15 of 40	15 of 40	14 of 40	14 of 40	15 of 40	15 of 40	15 of 40	15 of 40	15 of 40	15 of 40	15 of 40
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	
MI	56.3	57.1	57.0	57.2	57.6	58.4	59.3	59.3	58.3	58.8	57.3	
Rank	14 of 40	14 of 40	14 of 40	14 of 40	14 of 40	14 of 40	14 of 40	14 of 40	14 of 40	14 of 40	14 of 40	

### Summary: November 2016

<b>Total Jobs</b>	<b>57,300</b>
#Δ / month	◆ -1,500
%Δ / month	-2.6%
#Δ / year	▲ 600
%Δ / year	1.1%

### Highlights

Information declined over the month by 1,500 jobs, a 2.6 percent contraction. Over the past year, this industry has been stable, adding 600 jobs.

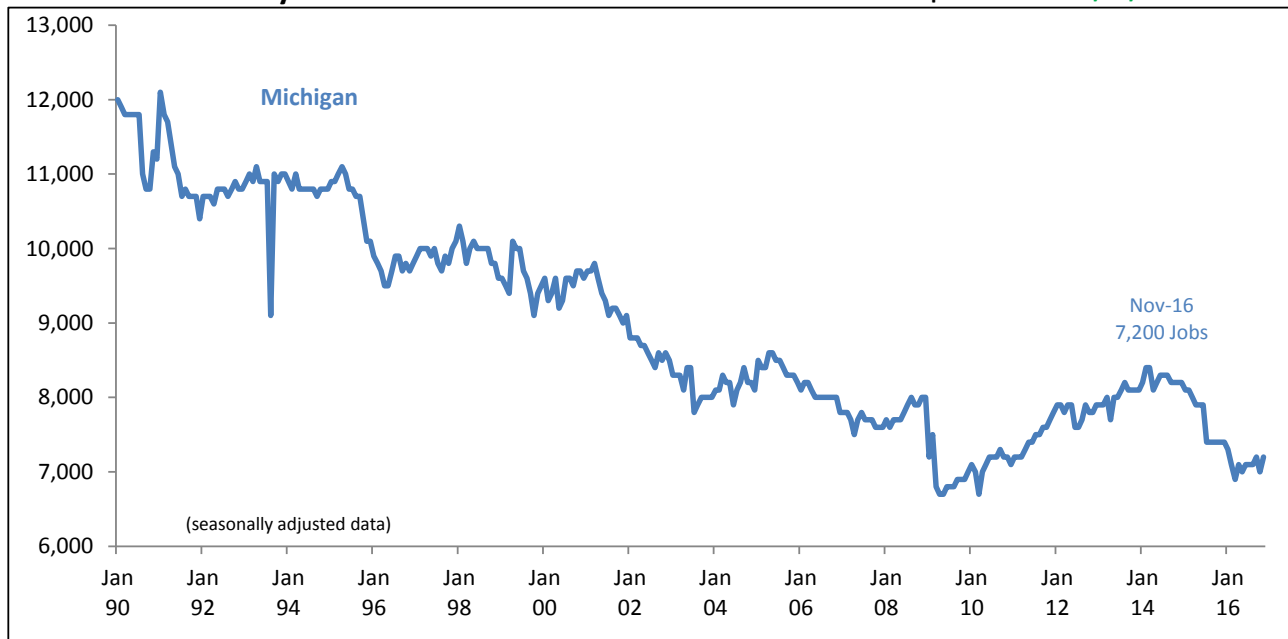
Source: Bureau of Labor Market Information, Current Employment Statistics (CES)



# PAYROLL JOBS: MINING & LOGGING

1990-2016 Monthly

Last Update: 12/22/16



### 1990 to 2015 Annual Averages (thousands of jobs)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	11.5	11.1	10.8	10.8	10.8	10.7	9.7	9.9	10.0	9.6	9.5	9.3	8.6
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	8.1	8.2	8.4	8.0	7.7	7.9	6.9	7.1	7.4	7.8	8.0	8.3	7.7

### 2015 & 2016 Monthly Detail (thousands of jobs)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
MI	8.1	8.1	8.0	7.9	7.9	7.9	7.4	7.4	7.4	7.4	7.4	7.4
Rank	25 of 41	25 of 41	25 of 41	25 of 41	25 of 41	25 of 41	25 of 41	25 of 41	25 of 41	25 of 41	25 of 41	26 of 41
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	
MI	7.3	7.1	6.9	7.1	7.0	7.1	7.1	7.1	7.2	7.0	7.2	
Rank	24 of 41	25 of 41	26 of 41	24 of 41	25 of 41	24 of 41	24 of 41	24 of 41	24 of 41	25 of 41	24 of 41	

### Summary: November 2016

<b>Total Jobs</b>	<b>7,200</b>
#Δ / month	200
%Δ / month	2.9%
#Δ / year	-200
%Δ / year	-2.7%

### Highlights

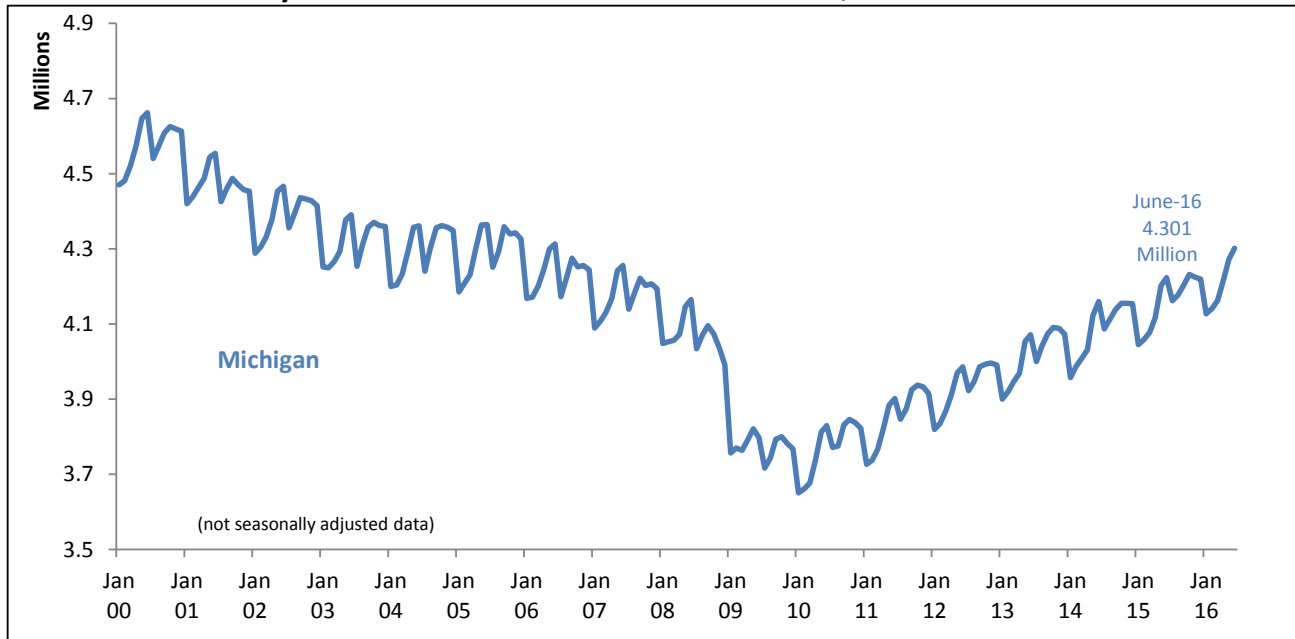
Mining and logging added 200 jobs in November and has lost 200 jobs since November 2015.

Source: Bureau of Labor Market Information, Current Employment Statistics (CES)

# COVERED EMPLOYMENT

2000-2016 Monthly

Last Update: 12/22/16



## 2000 to 2015 Annual Averages (millions of employed)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
MI	4.578	4.472	4.390	4.320	4.301	4.297	4.235	4.178	4.070	3.775	3.771
	2011	2012	2013	2014	2015						
MI	3.856	3.936	4.019	4.089	4.161						

## 2015 & 2016 Monthly Detail (millions of employed)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
MI	4.045	4.058	4.078	4.117	4.202	4.223	4.162	4.176	4.203	4.232	4.225	4.219
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16						
MI	4.127	4.141	4.162	4.216	4.272	4.301						

### Summary: June 2016

<b>Employment</b>	<b>4,301,451</b>
#Δ / year	78,472
%Δ / year	1.9%

### Highlights

In June 2016, Michigan's covered employment levels were higher than in June 2015. Employment has increased by 503,926 since reaching its lowest June level in 2009, a 13.3 percent gain.

The QCEW program publishes a quarterly report of employment and wages for employers covered under the state's Unemployment Insurance Law. It covers more than 95 percent of Michigan jobs.

Source: Bureau of Labor Market Information, Quarterly Census of Employment & Wages (QCEW)

# PRIVATE SECTOR GROSS JOB GAINS & LOSSES

1993-2015 Quarterly

Last Update: 11/23/16



## Q1 2005 to Q4 2010 Quarterly

MI	Q1-05	Q2-05	Q3-05	Q4-05	Q1-06	Q2-06	Q3-06	Q4-06	Q1-07	Q2-07	Q3-07	Q4-07
Job Gains	252,977	253,885	252,691	231,245	228,073	237,436	226,480	228,985	232,055	232,734	224,955	229,747
Job Losses	260,979	250,333	244,336	250,414	249,910	239,426	251,389	251,390	240,784	232,506	243,702	237,420

MI	Q1-08	Q2-08	Q3-08	Q4-08	Q1-09	Q2-09	Q3-09	Q4-09	Q1-10	Q2-10	Q3-10	Q4-10
Job Gains	214,330	221,366	201,182	203,407	168,942	202,269	226,971	214,617	185,775	218,309	217,208	209,483
Job Losses	250,002	244,849	260,530	290,268	298,564	297,368	215,952	221,215	201,956	180,789	185,733	204,524

## 2011 to 2016 Quarterly Detail

MI	Q1-11	Q2-11	Q3-11	Q4-11	Q1-12	Q2-12	Q3-12	Q4-12	Q1-13	Q2-13	Q3-13	Q4-13
Job Gains	204,904	217,128	230,333	200,844	206,252	204,763	208,858	203,599	211,374	215,070	208,078	209,037
Job Losses	181,625	195,084	183,851	194,816	173,558	191,662	194,568	183,379	173,414	195,992	198,592	193,430
MI	Q1-14	Q2-14	Q3-14	Q4-14	Q1-15	Q2-15	Q3-15	Q4-15	Q1-16			
Job Gains	192,732	226,264	191,706	219,489	188,129	219,500	194,705	218,432	196,117			
Job Losses	179,693	190,680	204,126	186,387	186,487	188,160	203,207	192,084	179,106			

### Summary: 2016 Q1

<b>Gross Job Gains</b>	<b>196,117</b>
#Δ / Year	7,988
%Δ / Year	4.2%
<b>Gross Job Losses</b>	<b>179,106</b>
#Δ / year	-7,381
%Δ / year	-4.0%

### Highlights

**Gross job gains** are the sum of increases in employment from expansions at existing establishments and the addition of new jobs at opening establishments with zero employment in the third month of the prior quarter. Gross job gains for 1st quarter 2016 were higher than the prior year by 4.2 percent due to greater job gains from business expansions.

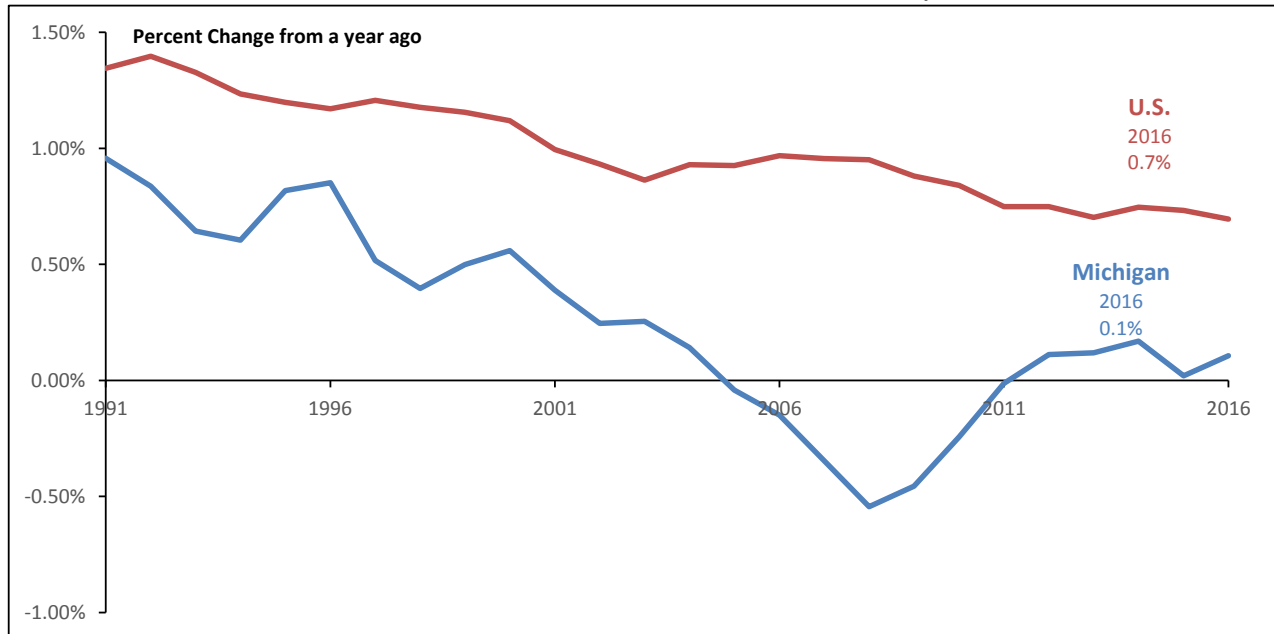
**Gross Job Losses** are the result of contractions in employment at existing establishments and job losses at closing businesses, with positive third month employment in the prior quarter and none in the current quarter. Gross job losses were down by 4.0 percent the year with fewer losses from business closings. Gross job gains exceeded losses by 17,011.

Source: Bureau of Labor Market Information, Business Employment Dynamics (BED)

# MICHIGAN POPULATION

1991-2015 Annual

Last Update: 12/22/16



**1991 to 2016 Annual Averages (millions of people)**

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MI	9.400	9.479	9.540	9.598	9.676	9.759	9.809	9.848	9.897	9.952	9.991	10.016	10.041
US	253.0	256.5	259.9	263.1	266.3	269.4	272.6	275.9	279.0	282.2	285.0	287.6	290.1
MI Rank	8	8	8	8	8	8	8	8	8	8	8	8	8

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
MI	10.055	10.051	10.036	10.001	9.947	9.902	9.877	9.876	9.887	9.899	9.916	9.918	9.928
US	292.8	295.5	298.4	301.2	304.1	306.8	309.3	311.7	314.0	316.2	318.6	320.9	323.1
MI Rank	8	8	8	8	8	8	8	8	9	9	10	10	10

**1991 to 2016 Change from a Year Ago (%)**

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MI	1.0%	0.8%	0.6%	0.6%	0.8%	0.9%	0.5%	0.4%	0.5%	0.6%	0.4%	0.2%	0.3%
US	1.3%	1.4%	1.3%	1.2%	1.2%	1.2%	1.2%	1.2%	1.2%	1.1%	1.0%	0.9%	0.9%

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
MI	0.1%	0.0%	-0.1%	-0.3%	-0.5%	-0.5%	-0.2%	0.0%	0.1%	0.1%	0.2%	0.0%	0.1%
US	0.9%	0.9%	1.0%	1.0%	1.0%	0.9%	0.8%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%

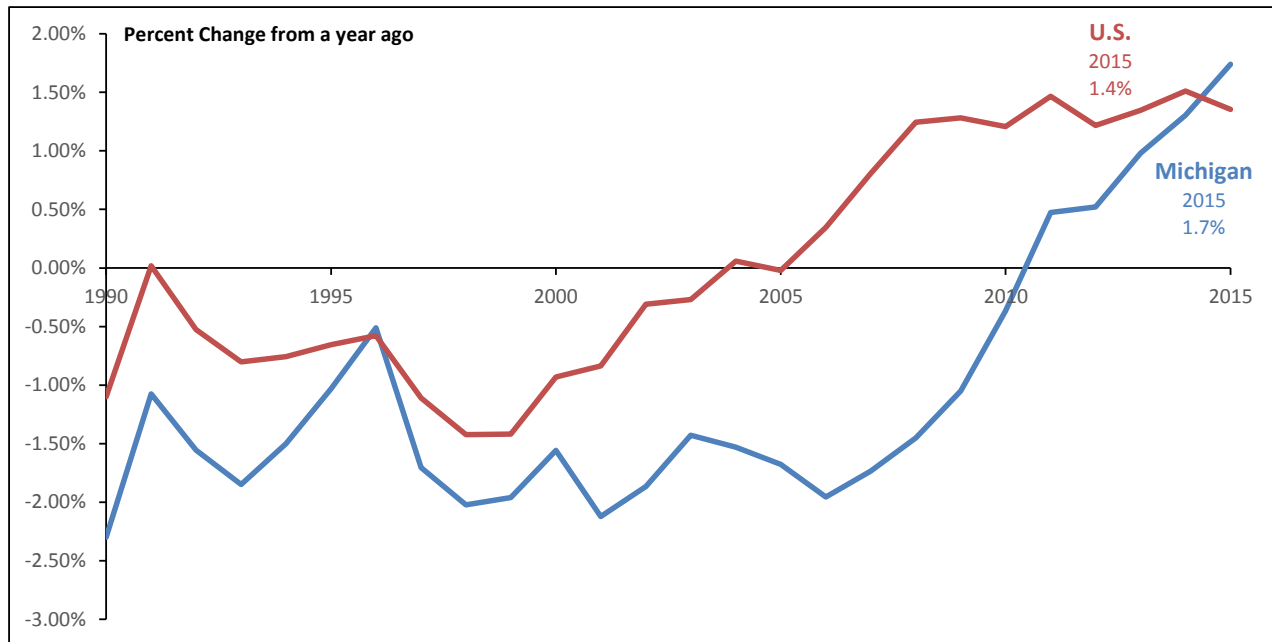
Summary: CY 2016		Highlights
MI Population	9,928,300	Michigan's population grew in 2016 to 9.928 million. Michigan's overall population ranked 10th nationally in 2016.
MI Rank	10	
%Δ Year Ago	0.1%	

Source: Bureau of the Census

# MICHIGAN POPULATION AGE 25 to 34

1990-2015 Annual

Last Update: 11/23/16



## 1990 to 2015 Annual Averages (millions of people)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	1.574	1.557	1.533	1.505	1.482	1.467	1.459	1.434	1.405	1.378	1.356	1.328	1.303
US	43.2	43.2	43.0	42.7	42.3	42.1	41.8	41.3	40.8	40.2	39.8	39.5	39.3
MI Rank	8	8	8	8	8	8	8	8	8	8	8	8	8

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	1.284	1.265	1.243	1.219	1.198	1.181	1.168	1.164	1.169	1.175	1.187	1.202	1.223
US	39.2	39.3	39.3	39.4	39.7	40.2	40.7	41.2	41.8	42.3	42.9	43.5	44.1
MI Rank	8	9	9	9	9	10	10	10	10	10	10	10	10

## 1990 to 2015 Change from a Year Ago (%)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	-2.3%	-1.1%	-1.6%	-1.8%	-1.5%	-1.0%	-0.5%	-1.7%	-2.0%	-2.0%	-1.6%	-2.1%	-1.9%
US	-1.1%	0.0%	-0.5%	-0.8%	-0.8%	-0.7%	-0.6%	-1.1%	-1.4%	-1.4%	-0.9%	-0.8%	-0.3%

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	-1.4%	-1.5%	-1.7%	-2.0%	-1.7%	-1.4%	-1.1%	-0.4%	0.5%	0.5%	1.0%	1.3%	1.7%
US	-0.3%	0.1%	0.0%	0.3%	0.8%	1.2%	1.3%	1.2%	1.5%	1.2%	1.3%	1.5%	1.4%

### Summary: CY 2015

MI Pop 25-34 **1,223,408**  
**MI Rank 10**  
 %Δ Year Ago ● 1.7%

### Highlights

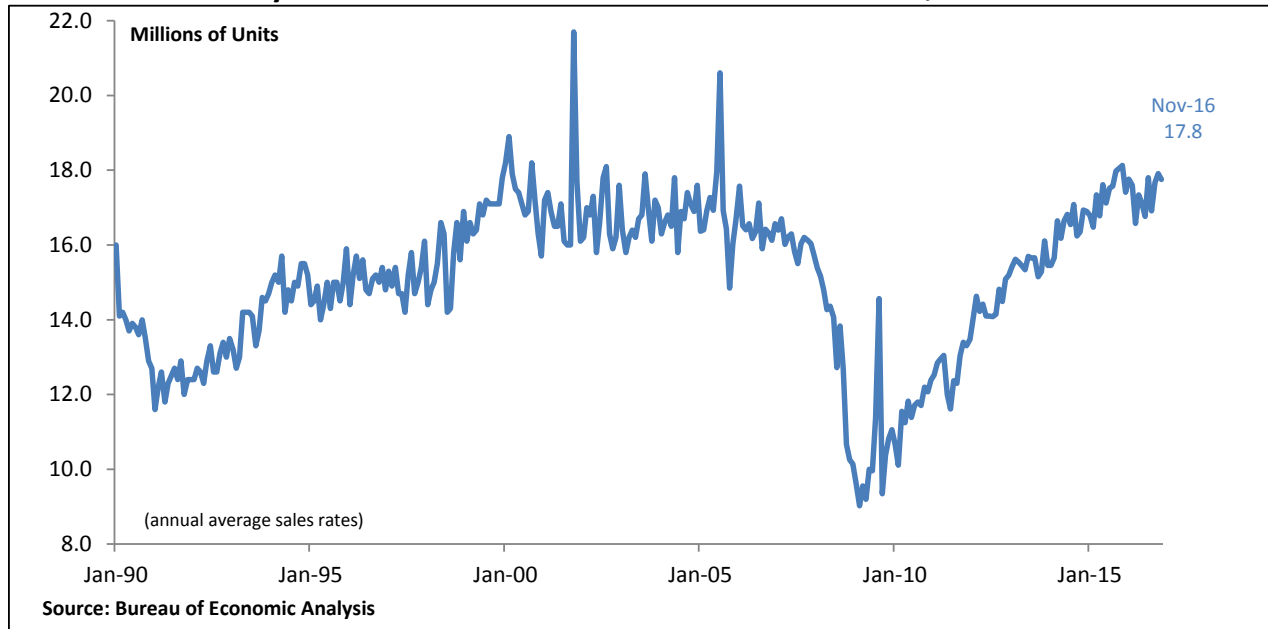
Michigan's population age 25 to 34 grew in 2015 to 1,223,408. Michigan's population age 25 to 34 ranked 10th nationally in 2015.

Source: Bureau of the Census

# U.S. LIGHT VEHICLE SALES

1990-2016 Monthly

Last Update: 12/22/16



### 1990 to 2015 Annual Average (annual average sales rate in millions)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
LV Sales	13.9	12.3	12.9	13.9	15.0	14.7	15.1	15.1	15.5	16.9	17.3	17.1	16.8
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
LV Sales	16.6	16.9	16.9	16.5	16.1	13.2	10.4	11.6	12.7	14.4	15.5	16.5	17.4

### 2015 & 2016 Monthly Detail (seasonally adjusted annual sales rate in millions)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
LV Sales	16.8	16.5	17.3	16.8	17.6	17.1	17.5	17.6	18.0	18.0	18.1	17.4
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	
LV Sales	17.8	17.6	16.6	17.3	17.1	16.8	17.8	16.9	17.7	17.9	17.8	

### Summary: November 2016

<b>LV Sales (mill)</b>	<b>17.8</b>
#Δ / month	-0.2
%Δ / month	▲ -0.9%
#Δ / year	-0.4
%Δ / year	◆ -2.1%

### Highlights

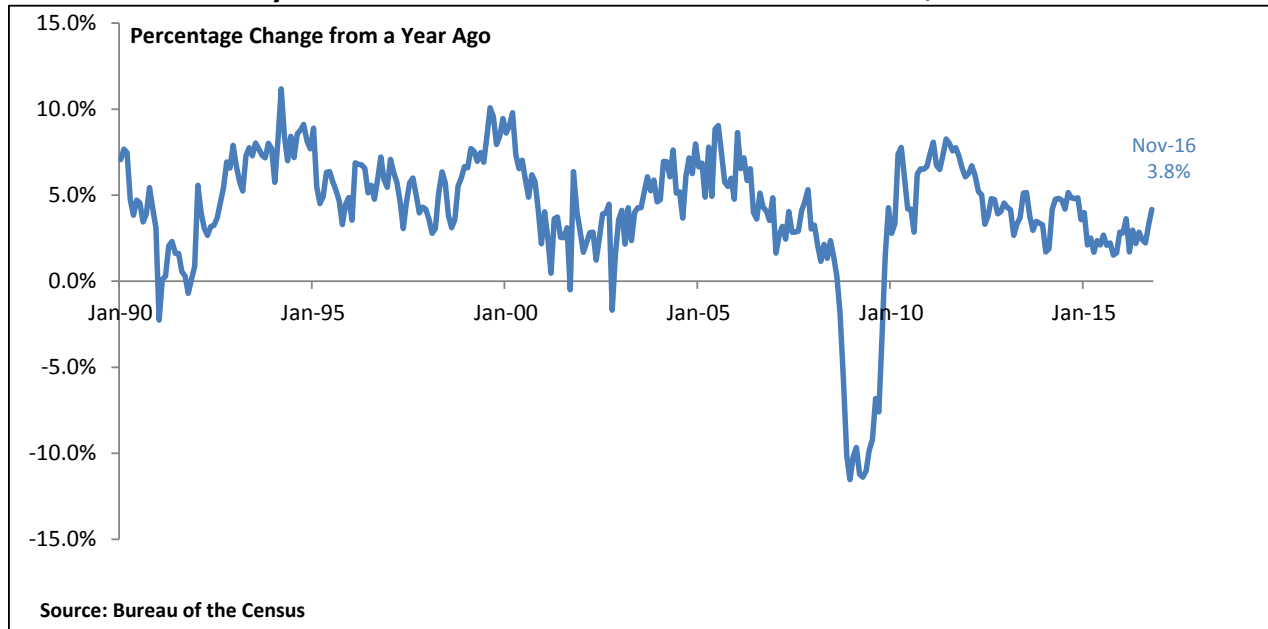
Light vehicle sales decreased 0.9 percent in November from October to a 17.9 million unit annual average rate. Even though the sales rate fell slightly, November sales were at historically high levels. Strong employment growth has provided support for vehicle sales but anticipated higher financing rates could dampen sales in the upcoming months. From a year ago, light vehicle sales were down 2.1 percent in November.

Source: Bureau of Economic Analysis

# U.S. RETAIL SALES

1990-2016 Monthly

Last Update: 12/22/16



## Year to Year Trend Table (percent change)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
R Sales	5.0%	0.6%	4.7%	7.2%	8.2%	5.4%	5.9%	5.1%	4.6%	8.1%	6.5%	2.9%	2.4%
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
R Sales	4.4%	6.2%	6.5%	5.3%	3.3%	-1.3%	-7.0%	5.4%	7.3%	4.9%	3.8%	4.1%	2.3%

## YTD Trend Table 1 (percent change from a year ago)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
R Sales	4.0%	2.1%	2.5%	1.7%	2.4%	2.1%	2.7%	2.1%	2.2%	1.5%	1.6%	2.8%
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	
R Sales	2.8%	3.6%	1.7%	3.0%	2.2%	2.8%	2.4%	2.2%	3.3%	4.2%	3.8%	

## YTD Trend Table 2 (percent change from a month ago)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
R Sales	-0.5%	-0.5%	1.6%	0.0%	0.9%	0.1%	0.5%	0.1%	0.0%	-0.3%	0.5%	0.4%
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	
R Sales	-0.5%	0.3%	-0.3%	1.2%	0.2%	0.7%	0.1%	0.0%	1.0%	0.6%	0.1%	

### Summary: November 2016

Retail Sales (bill.)	\$465.9
%Δ Year Ago	3.8%
%Δ / month	0.1%

### Highlights

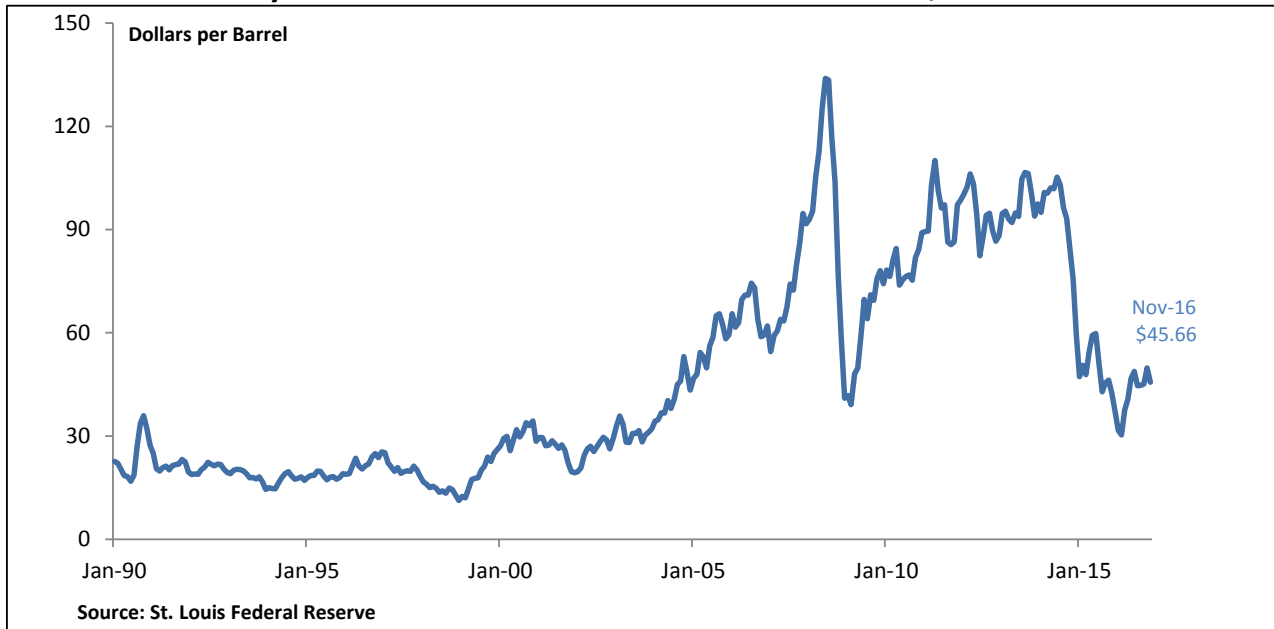
Retail sales increased 0.1 percent in November compared to October. Retail sales growth slowed down from the previous two months. From a year ago, retail sales increased 3.8 percent in November. The outlook is anticipated to be strong as labor markets improve and wage growth begins to accelerate.

Source: Bureau of the Census

# OIL PRICES

## 1990-2016 Monthly

Last Update: **12/22/16**



### 1990 to 2015 Annual Average (dollars per barrel)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Oil Price	24.49	21.48	20.56	18.46	17.19	18.43	22.15	20.60	14.39	19.25	30.30	25.92	26.10
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Oil Price	31.14	41.44	56.47	66.10	72.36	99.57	61.69	79.43	95.08	94.20	97.75	93.15	48.69

### 2015 & 2016 Monthly Detail (dollars per barrel)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
Oil Price	47.22	50.58	47.82	54.45	59.26	59.82	50.90	42.87	45.48	46.22	42.44	37.21
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	
Oil Price	31.68	30.32	37.55	40.76	46.71	48.76	44.65	44.72	45.18	49.78	45.66	

### Summary: November 2016

<b>Oil Prices</b>	<b>\$45.66</b>
#Δ / month	-\$4.12
%Δ / month	● -8.3%
#Δ / year	\$3.22
%Δ / year	◆ 7.6%

### Highlights

The average price per barrel of oil decreased \$4.12 in November from October to \$45.66 per barrel. From a year ago, oil prices are up 7.6 percent.

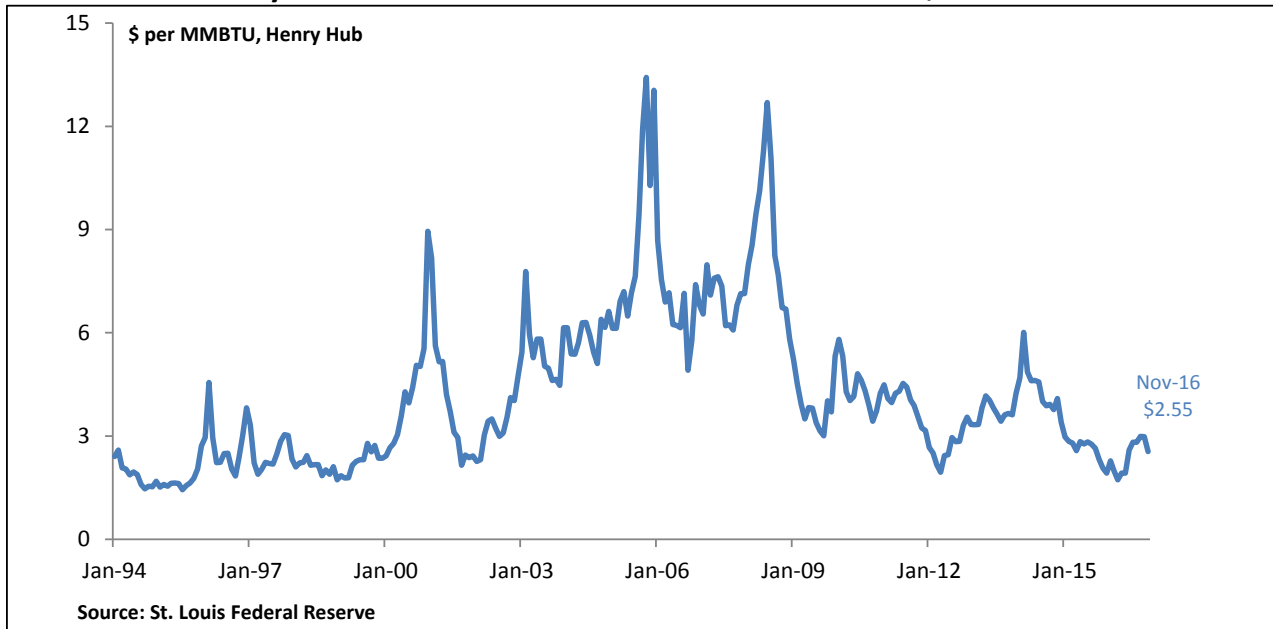
Source: St. Louis Federal Reserve Database



# NATURAL GAS PRICES

1994-2016 Monthly

Last Update: 12/22/16



## 1994 to 2015 Annual Average (\$ per MMBTU)

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
NG Price	1.89	1.73	2.75	2.48	2.09	2.27	4.31	3.96	3.36	5.50	5.91	8.81	6.74
	2007	2008	2009	2010	2011	2012	2013	2014	2015				
NG Price	6.98	8.86	3.95	4.39	4.00	2.75	3.73	4.37	2.61				

## 2015 & 2016 Monthly Detail (\$ per MMBTU)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
NG Price	2.97	2.85	2.80	2.58	2.84	2.77	2.83	2.76	2.64	2.32	2.07	1.92
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	
NG Price	2.28	1.99	1.73	1.92	1.92	2.59	2.82	2.82	2.99	2.98	2.55	

### Summary: November 2016

<b>NG Price</b>	<b>\$2.55</b>
#Δ / month	-\$0.43
%Δ / month	● -14.4%
#Δ / year	\$0.48
%Δ / year	◆ 23.2%

### Highlights

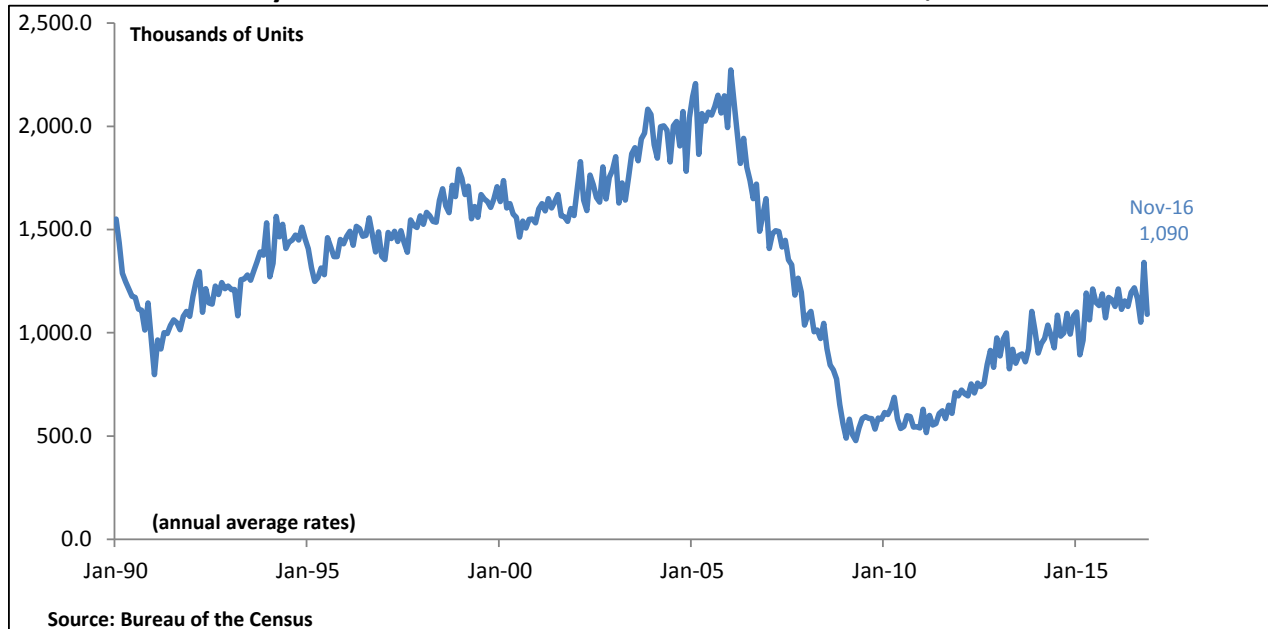
Natural gas prices decreased 14.4 percent in November from October. Compared to a year ago, natural gas prices are up 23.2 percent.

Source: St. Louis Federal Reserve Database

# U.S. HOUSING STARTS

1990-2016 Monthly

Last Update: 12/22/16



## 1990 to 2015 Annual Averages (thousands of starts)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
HS	1,203	1,009	1,201	1,292	1,446	1,361	1,469	1,475	1,621	1,647	1,573	1,601	1,710
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
HS	1,854	1,950	2,073	1,812	1,342	900	554	586	612	781	923	1,003	1,111

## 2015 & 2016 Monthly Detail (annual average rate in thousands)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
HS	1,101	893	964	1,192	1,063	1,213	1,147	1,132	1,189	1,073	1,171	1,160
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	
HS	1,128	1,213	1,113	1,155	1,128	1,195	1,218	1,164	1,052	1,340	1,090	

### Summary: November 2016

HS (000s)	1,090
#Δ / month	-250
%Δ / month	◆ -18.7%
#Δ / year	-81
%Δ / year	◆ -6.9%

### Highlights

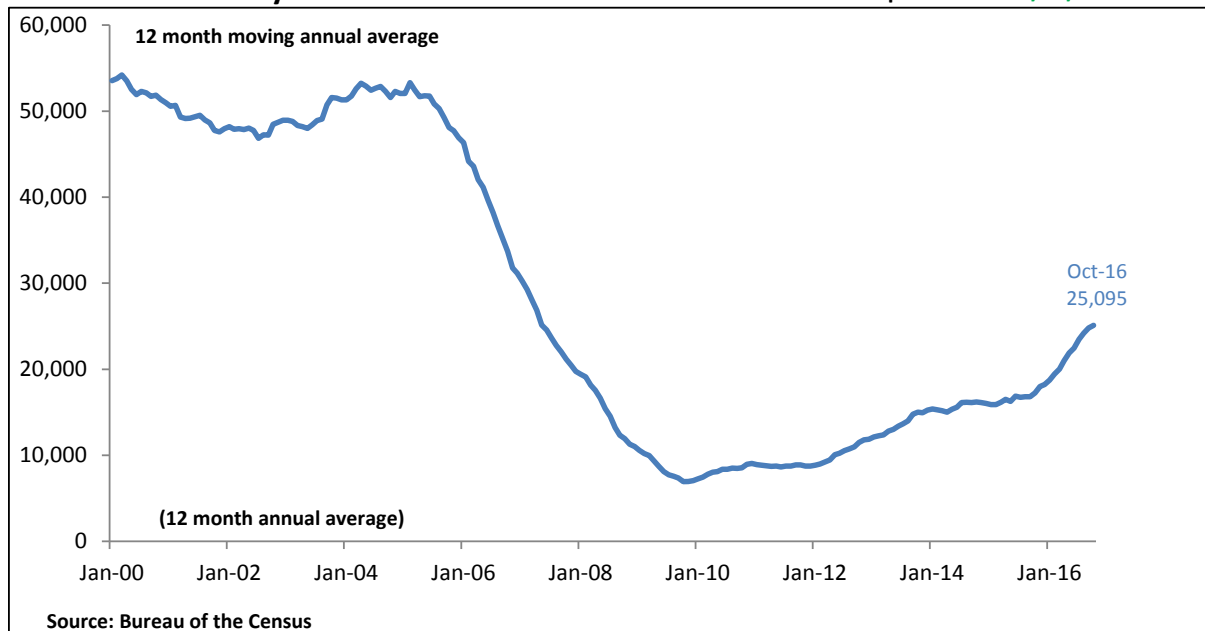
Housing starts totaled an annual average rate of 1,090,000 in November, down 18.7 percent from October. Weaker numbers in housing permits is leading to a slowing in housing starts. The overall trend for housing starts is expected to grow in 2017, as economic fundamentals remain solid. From a year ago, housing starts were down 6.9 percent in November.

Source: Bureau of the Census

# MICHIGAN BUILDING PERMITS FOR HOUSING STARTS

2000-2016 Monthly

Last Update: 12/22/16



## 2000 to 2015 Annual Averages (thousands of permits)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
BP	52.5	50.1	50.0	53.9	54.7	45.3	29.2	17.8	10.9	6.9	9.1	9.3	11.7
	2013	2014	2015										
BP	15.8	15.7	18.2										

## 2015 & 2016 Monthly Detail (12 month moving average annual rate in thousands)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
BP	15.88	15.90	16.16	16.50	16.25	16.86	16.75	16.80	16.82	17.24	17.99	18.23
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16		
BP	18.73	19.45	20.02	20.99	21.88	22.46	23.47	24.20	24.79	25.10		

### Summary: October 2016

BP (000s)	25.10
#Δ / month	0.31
%Δ / month	1.2%
#Δ / year	7.85
%Δ / year	45.5%

### Highlights

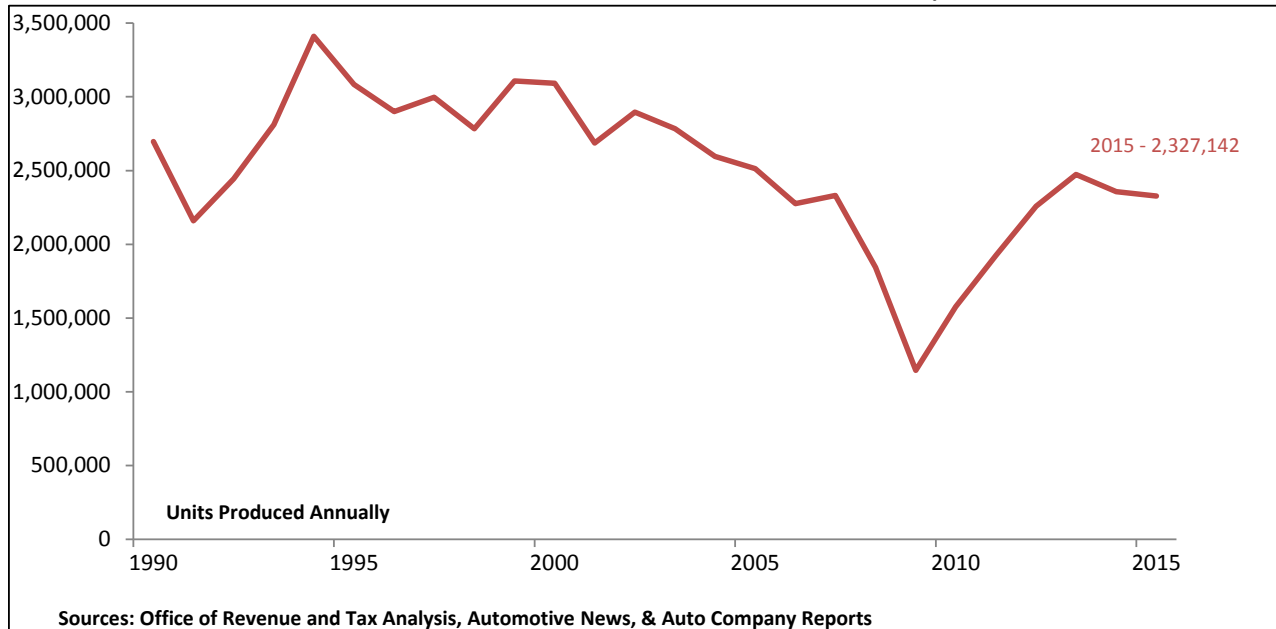
Michigan building permits for new houses in October were up from last month based on an annualized 12-month moving average. The latest 12-month moving average is 45.5 percent higher than a year ago. While still down from the highs in the early 2000s, building permits continue to increase.

Source: Bureau of the Census

# MICHIGAN MOTOR VEHICLE PRODUCTION

1990-2015 Annual

Last Update: 12/22/16



## 1990 to 2015 Totals (units in thousands)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MV Prod.	2,697	2,160	2,444	2,811	3,410	3,084	2,899	2,996	2,783	3,108	3,093	2,687	2,896
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MV Prod.	2,784	2,596	2,514	2,275	2,331	1,844	1,146	1,577	1,924	2,259	2,474	2,358	2,327

## 2015 & 2016 Monthly Detail (units in thousands)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
MV Prod.	175.2	198.1	224.9	204.0	209.9	200.6	172.2	191.7	208.9	200.6	182.3	158.6
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	
MV Prod.	163.8	203.1	201.1	206.7	229.2	249.6	164.7	213.2	209.0	197.8	184.8	

### Summary: November 2016

MV Prod. (000s)	184.8
#Δ / month	-13.0
%Δ / month	◆ -6.6%
#Δ / year	2.5
%Δ / year	● 1.4%

### Highlights

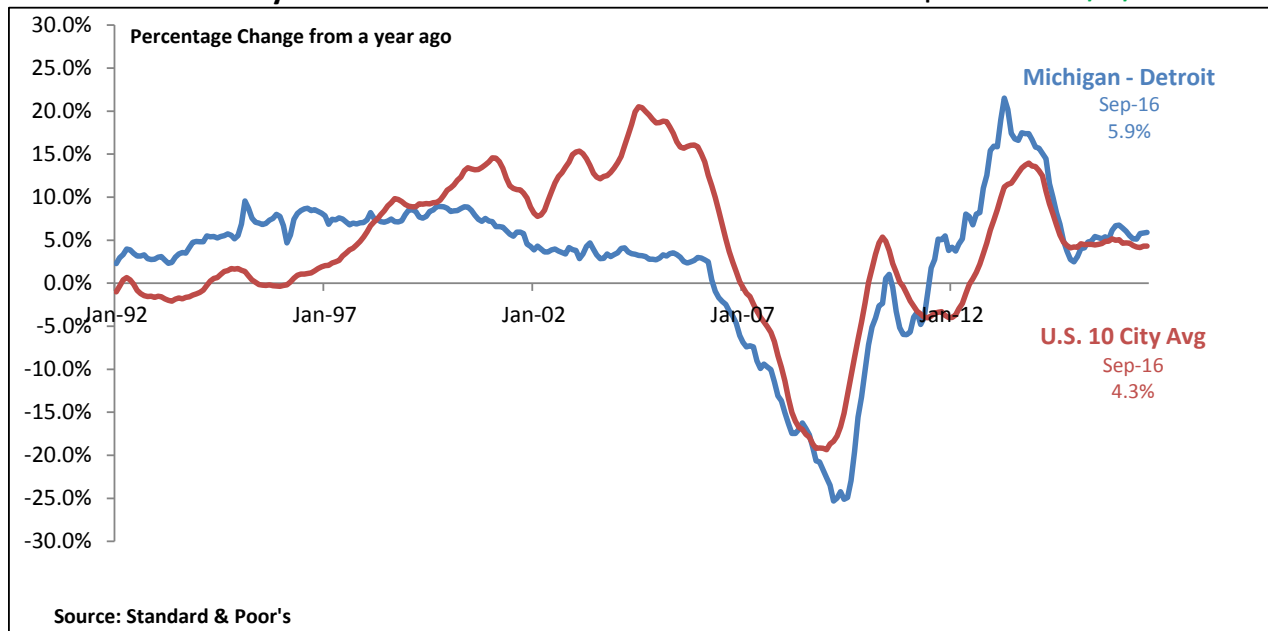
Michigan motor vehicle production totaled 184,769 units in November, which was down 6.6 percent from last month. Production increased 1.4 percent from a year ago.

Sources: Office of Revenue and Tax Analysis, Automotive News, & Auto Company Reports

# CASE-SHILLER HOME PRICE INDEX

1992-2016 Monthly

Last Update: 12/22/16



## Year to Year Trend Table (percent change)

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MI -Det	n/a	3.2%	3.4%	5.3%	7.6%	7.6%	7.2%	7.4%	8.4%	8.1%	5.9%	3.8%	3.5%
US - 10 City		-0.7%	-1.7%	0.7%	0.2%	0.9%	3.4%	8.3%	9.4%	12.9%	11.8%	11.0%	13.5%

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI -Det	3.3%	3.0%	-1.4%	-9.6%	-18.0%	-21.0%	-3.4%	0.1%	7.9%	17.7%	9.3%	5.0%
US - 10 City	18.2%	17.0%	7.6%	-4.4%	-16.8%	-12.6%	2.2%	-3.4%	0.3%	11.6%	8.1%	4.6%

## Year to Date Trend Table (percent change from a year ago)

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
MI -Det	3.1%	4.0%	4.1%	4.8%	4.9%	5.4%	5.3%	5.2%	5.4%	5.1%	6.1%	6.7%
US - 10 City	4.2%	4.6%	4.5%	4.5%	4.5%	4.4%	4.5%	4.6%	4.8%	4.9%	5.2%	5.0%

	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16
MI -Det	6.7%	6.4%	6.0%	5.5%	5.2%	5.1%	5.8%	5.8%	5.9%
US - 10 City	5.0%	4.6%	4.7%	4.6%	4.4%	4.2%	4.1%	4.3%	4.3%

### Summary: September 2016

Det CSH Index **107.23**  
 (Jan 2000 = 100)  
 %Δ Year Ago ● 5.9%

### Highlights

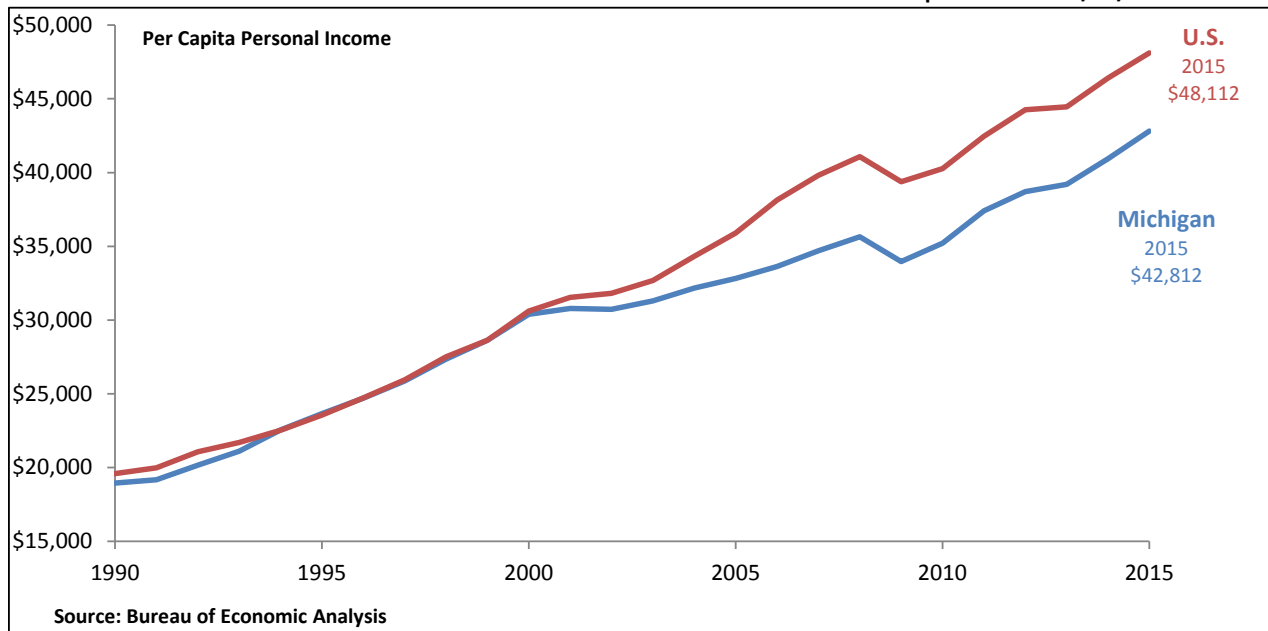
Detroit housing prices were up 5.9 percent in September from a year ago, while US home prices were up 4.3 percent according to the Case-Shiller Home Price Index. Detroit home prices have been rising year-over-year since July 2011, but overall prices are still well below the peak of early 2006.

Source: S&P Dow Jones Indices & Fiserv

## PER CAPITA PERSONAL INCOME

1990-2015 Annual

Last Update: 9/30/16



### 1990 to 2015 Annual Averages (\$)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	18,949	19,165	20,167	21,106	22,559	23,664	24,696	25,874	27,348	28,640	30,391	30,786	30,729
US	19,591	19,985	21,060	21,698	22,538	23,568	24,728	25,950	27,510	28,627	30,602	30,729	31,815
MI Rank	20	20	20	20	18	19	18	18	17	16	16	20	23
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	31,306	32,167	32,813	33,638	34,691	35,644	33,966	35,204	37,398	38,700	39,208	40,940	42,812
US	32,692	34,316	35,904	38,144	39,821	41,082	39,376	40,277	42,453	44,267	44,462	46,414	48,112
MI Rank	24	25	26	36	38	37	40	38	36	38	35	34	32

### 1990 to 2015 Change in Annual Averages (%)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MI	4.0%	1.1%	5.2%	4.7%	6.9%	4.9%	4.4%	4.8%	5.7%	4.7%	6.1%	1.3%	-0.2%
US	5.0%	2.0%	5.4%	3.0%	3.9%	4.6%	4.9%	4.9%	6.0%	4.1%	6.9%	0.4%	3.5%
MI Rank	39	45	29	7	3	16	36	24	28	13	28	48	44
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MI	1.9%	2.8%	2.0%	2.5%	3.1%	2.7%	-4.7%	3.6%	6.2%	3.5%	1.3%	4.4%	4.6%
US	2.8%	5.0%	4.6%	6.2%	4.4%	3.2%	-4.2%	2.3%	5.4%	4.3%	0.4%	4.4%	3.7%
MI Rank	40	45	45	50	44	36	36	7	15	33	11	15	6

#### Summary: CY 2015

MI Per Capita	\$42,812
Michigan Rank	32
%Δ Year Ago	4.6%
Michigan Rank	6

#### Highlights

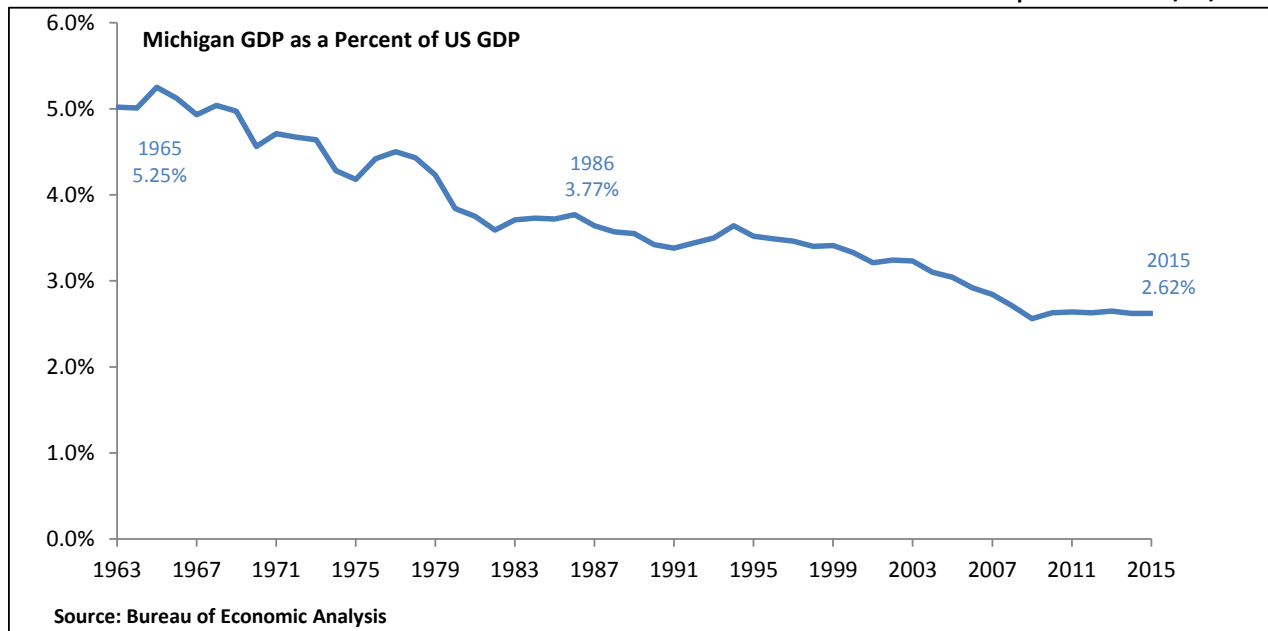
Michigan per capita personal income grew faster than the national average at 4.6% compared to 3.7% in 2015. Michigan per capita personal income is well below the national average (89% of the national average) and has not been above the national average since 1999.

Source: Bureau of Economic Analysis

## MICHIGAN GDP as a % of U.S. GDP

1963-2015 Annual

Last Update: 6/24/16



### 1963 to 2015 Annual Averages (percentage)

	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
MI	5.02%	5.01%	5.25%	5.12%	4.93%	5.04%	4.97%	4.56%	4.71%	4.67%	4.64%	4.28%	4.18%
MI Rank	6	6	6	6	6	6	7	7	7	7	7	7	7
	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
MI	4.42%	4.50%	4.43%	4.23%	3.84%	3.75%	3.59%	3.71%	3.73%	3.72%	3.77%	3.64%	3.57%
MI Rank	7	7	7	7	7	7	8	8	8	8	8	9	9
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MI	3.55%	3.42%	3.38%	3.44%	3.50%	3.64%	3.52%	3.49%	3.53%	3.49%	3.53%	3.44%	3.32%
MI Rank	9	9	9	9	9	9	9	9	9	9	8	9	9
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
MI	3.35%	3.30%	3.14%	3.04%	2.88%	2.80%	2.64%	2.56%	2.61%	2.61%	2.60%	2.61%	2.60%
MI Rank	9	9	9	9	9	10	12	13	13	13	13	13	13

#### 2015

MI 2.62%

MI Rank 13

#### Summary: CY 2015

MI GDP % US	2.62%
% pt Δ Year Ago	▲ 0.02
% pt Δ 10 Yrs Ago	◆ -0.43
% pt Δ 25 Yrs Ago	◆ -0.80

**Michigan Rank 13**

#### Highlights

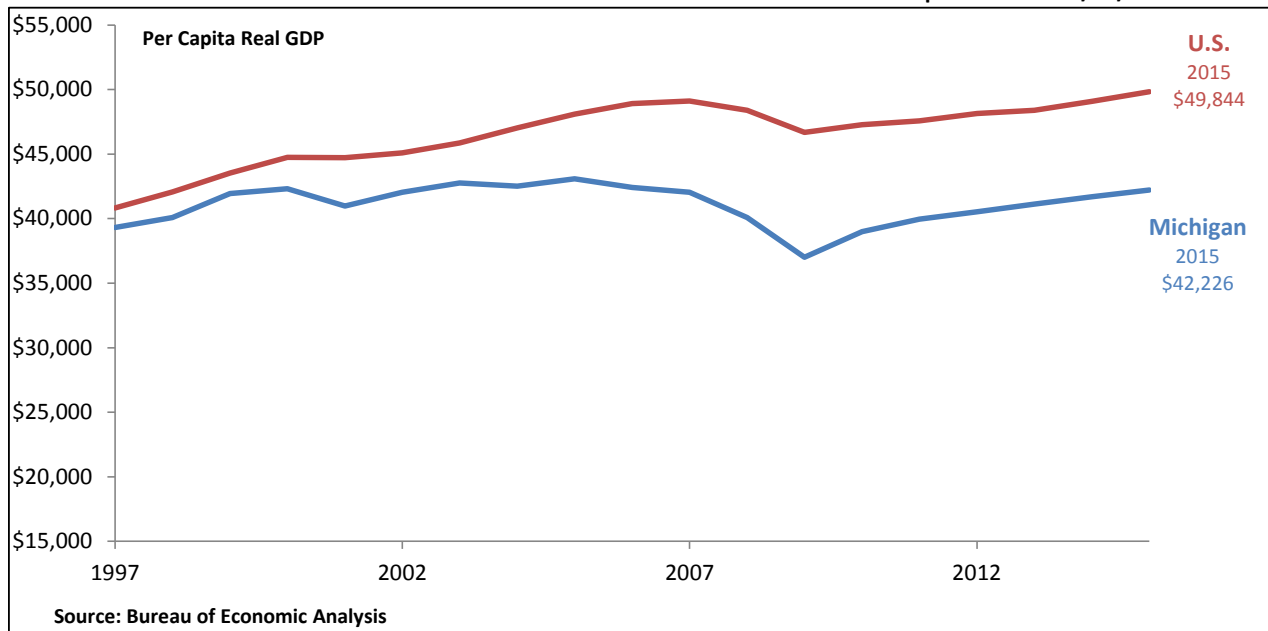
Michigan GDP as a percent of United States GDP remained unchanged in 2015 compared to a year ago. Michigan GDP as a percent of U.S. GDP has been on a long-term decline. Compared to 25 years ago, the percentage has decreased 0.80 percentage points and Michigan's rank has declined from 9th to 13th.

Source: Bureau of Economic Analysis

# MICHIGAN PER CAPITA REAL GDP

1997-2015 Annual

Last Update: 6/24/16



## 1997 to 2015 Annual Averages (\$)

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
MI	39,314	40,095	41,956	42,325	40,980	42,054	42,768	42,525	43,081	42,429	42,036	40,097	37,004
US	40,818	42,079	43,545	44,745	44,719	45,097	45,858	47,037	48,090	48,909	49,126	48,401	46,680
MI Rank	25	24	21	21	29	27	28	32	31	38	38	41	43
	2010	2011	2012	2013	2014	2015							
MI	38,985	39,953	40,537	41,117	41,695	42,226							
US	47,287	47,586	48,156	48,396	49,091	49,844							
MI Rank	39	40	39	39	39	39							

## 1997 to 2015 Change in Annual Averages (%)

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
MI	NA	2.0%	4.6%	0.9%	-3.2%	2.6%	1.7%	-0.6%	1.3%	-1.5%	-0.9%	-4.6%	-7.7%
US	NA	3.1%	3.5%	2.8%	-0.1%	0.8%	1.7%	2.6%	2.2%	1.7%	0.4%	-1.5%	-3.6%
MI Rank	NA	34	7	41	48	4	32	49	37	50	42	46	48
	2010	2011	2012	2013	2014	2015							
MI	5.4%	2.5%	1.5%	1.4%	1.4%	1.3%							
US	1.3%	0.6%	1.2%	0.5%	1.4%	1.5%							
MI Rank	3	10	13	9	22	19							

### Summary: CY 2015

MI Per Capita	\$42,226
<b>Michigan Rank</b>	<b>39</b>
%Δ Year Ago	1.3%
<b>Michigan Rank</b>	<b>19</b>

### Highlights

Michigan per capita real GDP was below the national average for 2015. Michigan ranked 39th in per capita real GDP. Michigan per capita GDP was 84.7% of the national average. Michigan per capita real GDP grew slower than the national average in 2015 and ranked 19th nationally by yearly growth rate.

Source: Bureau of Economic Analysis