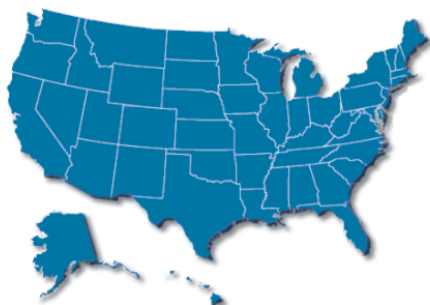


Michigan Economic Indicators

NOVEMBER 2020



ECONOMIC HIGHLIGHTS



The November 2020 **Purchasing Managers Index (PMI)** was 62.2, according to the Manufacturing Business Survey by the Institute of Supply Management, indicating expansion in the manufacturing sector. The PMI is a composite index based on five sub-indices: new orders, production, employment, supplier deliveries, and inventories. A measurement above 50.0 indicates expansion in manufacturing. The index has been above 50.0 for six straight months, since June 2020, after rising from a low of 27.5 in April 2020.

The **Index of Consumer Sentiment** decreased 6.0% in November 2020, from 81.8 in October 2020 to 76.9. The November reading was 20.6% below the November 2019 reading. The low sentiment reflected uncertainty about the future course of the COVID-19 public health emergency. Since hitting a recent peak of 101.0 in February 2020, consumer sentiment has shown no real trend and, instead, has moved up or down slightly from month to month.



Michigan's seasonally adjusted **unemployment rate** rose from 6.1% in October 2020 to 7.0% in November 2020, and was well above the 3.9% rate in November 2019. Compared to October 2020, both the labor force and the number of individuals employed grew. The unemployment rate grew because the size of the labor force grew by more than the number employed. The number of individuals employed grew by 4,000 in November, or 0.1%, while the number of people in the labor force grew by 49,000, or 1.4%. Total employment in Michigan was 4,598,000 in November 2020, down 153,000 (3.2%) from November 2019.

In November 2020, **revenue from Michigan's major taxes** totaled \$2.3 billion, up 8.2% (\$178.6 million) from November 2019. Tax collections for the month were approximately \$199.2 million above the forecasted level. The above-forecast revenue primarily reflected greater-than-expected collections from the State Education Tax, individual income tax withholding, and the Corporate Income Tax, partially offset by below-forecast collections for sales tax and greater-than-expected Michigan Business Tax refunds.

U.S. & MICHIGAN LABOR MARKET NEWS (Seasonally adjusted, thousands)							
U.S.	Nov 2020	Oct 2020	Nov 2019	Change from Oct		Change from Year Ago	
				Number	Percent	Number	Percent
Labor Force	160,536	160,718	164,447	(182)	(0.1%)	(3,911)	(2.4%)
Employment	149,809	149,669	158,540	140	0.1	(8,731)	(5.5)
Unemployment	10,727	11,049	5,907	(322)	(2.9)	4,820	81.6
Unemployment Rate	6.7%	6.9%	3.6%	--	--	--	--
Michigan	Nov 2020	Oct 2020	Nov 2019	Change from Oct		Change from Year Ago	
				Number	Percent	Number	Percent
Labor Force	4,943	4,893	4,941	49	1.0%	1	0.0%
Employment	4,598	4,595	4,751	4	0.1	(153)	(3.2)
Unemployment	345	299	190	46	15.4	154	81.0
Unemployment Rate	7.0%	6.1%	3.9%	--	--	--	--
Source: Bureau of Labor Statistics, U.S. Department of Labor (Household Data)							

MICHIGAN WAGE AND SALARY EMPLOYMENT (Seasonally adjusted, thousands)							
	Nov 2020	Oct 2020	Nov 2019	Change from Oct		Change from Yr Ago	
				Number	Percent	Number	Percent
Total Non-Agricultural Jobs	4,027	4,035	4,443	(8)	(0.2%)	(416)	(9.4%)
Goods Producing Industries	749	746	811	4	0.5	(62)	(7.6)
Mining and Logging	6	6	7	0	3.2	(1)	(13.5)
Construction	177	175	177	2	1.3	1	0.3
Manufacturing	566	565	627	1	0.2	(61)	(9.8)
Transportation Equipment	161	160	187	1	0.7	(26)	(13.8)
Service Producing Industries	3,278	3,289	3,632	(11)	(0.3)	(354)	(9.7)
Trade, Transportation & Utilities	765	766	799	(1)	(0.1)	(34)	(4.3)
Wholesale Trade	164	162	171	2	0.9	(7)	(4.3)
Retail Trade	438	442	462	(4)	(0.9)	(24)	(5.2)
Transportation & Utilities	163	161	166	2	1.1	(3)	(1.6)
Information	51	51	55	0	0.0	(4)	(7.5)
Financial Activities	221	222	227	(1)	(0.4)	(6)	(2.5)
Professional & Business Services	604	603	655	1	0.2	(50)	(7.7)
Education & Health Services	627	629	682	(2)	(0.4)	(56)	(8.1)
Leisure & Hospitality Services	289	296	434	(7)	(2.2)	(145)	(33.4)
Other Services	150	147	166	2	1.4	(17)	(9.9)
Government	571	575	614	(4)	(0.7)	(43)	(7.0)

Source: Bureau of Labor Statistics, U.S. Department of Labor (Establishment Data)

MICHIGAN AVERAGE WEEKLY HOURS AND EARNINGS (Not seasonally adjusted)						
Industry	Average Weekly Hours			Average Weekly Earnings		
	Nov 2020	Year Ago	Percent Change	Nov 2020	Year Ago	Percent Change
Construction	40.3	37.8	6.6%	\$1,219.48	\$1,050.46	16.1%
Manufacturing	40.8	42.3	(3.5)	932.69	947.52	(1.6)
Durable Goods	40.5	42.9	(5.6)	945.27	987.56	(4.3)
Transportation Equipment Mfg.	42.8	46.5	(8.0)	1,188.56	1,256.43	(5.4)
Motor Vehicle Parts Mfg.	39.8	45.5	(12.5)	1,010.92	1,092.46	(7.5)
Nondurable Goods	41.5	40.2	3.2	893.91	814.45	9.8
Wholesale Trade	38.4	37.0	3.8	997.25	992.71	0.5
Retail Trade	28.5	29.3	(2.7)	459.14	464.41	(1.1)
Information	39.8	35.2	13.1	1,079.38	943.71	14.4
Financial Activities	36.4	35.9	1.4	958.78	964.27	(0.6)
Professional & Business Services	35.9	34.0	5.6	955.30	886.04	7.8
Health Care & Social Assistance	30.9	31.3	(1.3)	711.01	707.38	0.5
Leisure & Hospitality	22.0	23.0	(4.3)	290.40	303.60	(4.3)
Accommodation & Food Services	22.5	23.1	(2.6)	292.28	294.99	(0.9)

Source: Bureau of Labor Statistics, U.S. Department of Labor



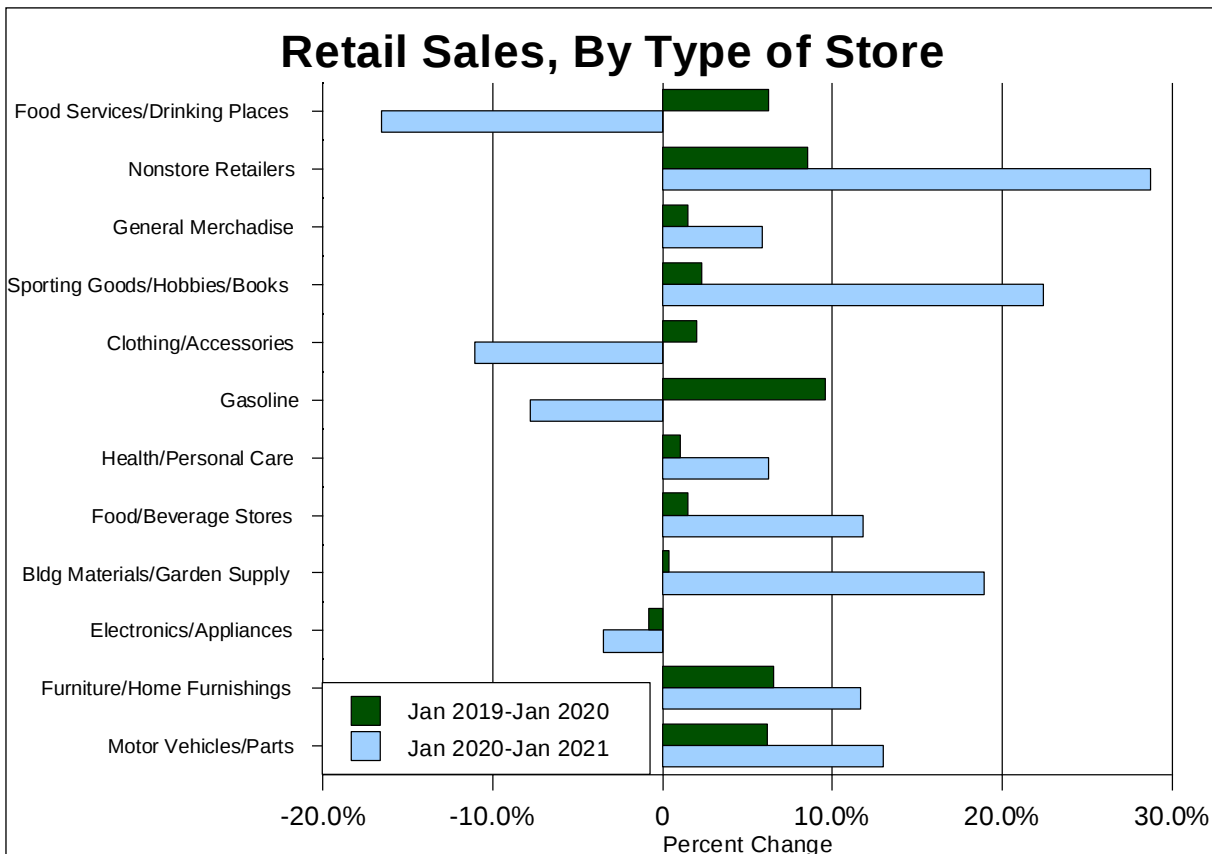
MICHIGAN UNEMPLOYMENT RATES BY SELECTED METROPOLITAN AREAS AND MULTI-COUNTY AREAS (Not Adjusted for Seasonal Variations)				
	Nov 2020	Oct 2020	Sep 2020	Nov 2019
Metropolitan Statistical Areas				
Ann Arbor	3.4%	4.0%	6.1%	2.2%
Battle Creek	5.2	5.9	8.6	3.2
Bay City	4.9	5.2	7.5	3.6
Detroit-Warren-Dearborn	8.9	7.0	9.9	3.5
Flint	5.6	6.4	9.4	3.7
Grand Rapids-Wyoming	3.7	4.2	6.3	2.3
Jackson	4.6	5.2	7.7	3.0
Kalamazoo-Portage	4.1	4.5	6.8	2.8
Lansing-East Lansing	3.9	4.5	6.7	2.5
Midland	3.8	4.2	6.3	3.0
Monroe	4.2	5.3	6.9	2.8
Muskegon	6.4	7.1	10.2	3.6
Niles-Benton Harbor	4.7	5.2	7.7	3.1
Saginaw	5.4	5.9	8.7	3.8
Multi-County Areas				
Northeast Lower Michigan	5.5	5.3	7.8	5.1
Northwest Lower Michigan	4.1	4.2	6.4	3.4
Upper Peninsula	4.2	4.2	6.1	4.1
Michigan Statewide Average (unadjusted - comparable to figures shown above)				
	6.3	5.7	8.2	3.2
Source: Michigan Department of Technology, Management, and Budget				

MOTOR VEHICLE SALES AND PRODUCTION STATISTICS (Sales and Production in Thousands of Units, Seasonally Adjusted at Annual Rates)							
	Nov 2020	Oct 2020	Sep 2020	Aug 2020	Year Ago Nov	Percent Change From:	
						Nov/Oct	Nov 2020/ Nov 2019
Motor Vehicle Sales ¹⁾							
Autos	3,778	3,859	3,744	3,477	4,410	(2.1%)	(14.3%)
Domestics	2,917	2,963	2,856	2,657	3,313	(1.6)	(12.0)
Imports	861	896	888	820	1,097	(3.9)	(21.5)
Import Share	22.8%	23.2%	23.7%	23.6%	24.9%	----	----
Light Trucks	11,937	12,513	12,558	11,634	12,573	(4.6)	(5.1)
Domestics	9,230	9,872	9,909	9,182	9,883	(6.5)	(6.6)
Imports	2,707	2,641	2,649	2,452	2,690	2.5	0.6
Import Share	22.7%	21.1%	21.1%	21.1%	21.4%	----	----
Subtotal: Light Vehicle Sales	15,715	16,372	16,302	15,111	16,983	(4.0)	(7.5)
Heavy Trucks	477	466	432	429	465	2.4	2.6
Total Vehicle Sales	16,192	16,838	16,734	15,540	17,448	(3.8)	(7.2)
U.S. Motor Vehicle Production ¹⁾							
Autos	2,287	2,255	2,382	2,342	2,584	1.4	(11.5)
Michigan Motor Vehicle Production ²⁾							
Autos	148	204	263	195	212	(27.6)	(30.3)
Trucks	1,516	1,510	1,489	1,478	1,760	0.4	(13.8)
Total	1,664	1,714	1,752	1,673	1,972	(2.9)	(15.6)
Michigan Production as % of U.S.	16.6%	16.0%	15.9%	17.4%	18.1%	----	----
Average Expenditure per Car ¹⁾							
Overall	\$ 27,372	\$ 27,744	\$ 27,513	\$ 27,617	\$ 26,480	(1.3)	3.4
Domestic	\$ 25,513	\$ 26,018	\$ 25,940	\$ 25,767	\$ 24,823	(1.9)	2.8
Foreign	\$ 33,648	\$ 33,463	\$ 32,693	\$ 33,943	\$ 31,512	0.6	6.8
Sources: 1) U.S. Department of Commerce, Bureau of Economic Analysis. 2) Michigan Department of Treasury, Office of Revenue and Tax Analysis and the Senate Fiscal Agency.							

OTHER KEY ECONOMIC INDICATORS						
Variable	Latest Period	Actual Data			Percent Chng From	
		Latest Period	Previous Period	Year Ago	Previous Period ⁹⁾	Year Ago
Index of Consumer Sentiment , monthly ¹⁾ (1996 Q1=100)	Nov	76.9	81.8	96.8	(6.0%)	(20.6%)
Oil Prices ²⁾ (\$ per barrel, West Texas Intermediate Crude)	Nov	\$40.94	\$39.40	\$57.03	3.9	(28.2)
Housing Starts, U.S. ³⁾ (thousands of units, SAAR)	Nov	1,553	1,530	1,371	1.5	13.3
Retail Sales, U.S. ³⁾ (billions, seasonally adjusted)	Nov	\$491.7	\$496.7	\$461.1	(1.0)	6.6
Industrial Production Index ⁴⁾ (2007=100, seasonally adjusted)	Nov	104.9	103.9	110.0	0.9	(4.7)
Capacity Utilization ⁴⁾ (% of total capacity, seasonally adjusted)	Nov	73.9	73.3	77.6	0.9	(4.7)
Consumer Price Index ⁵⁾ (1982-84=100)						
U.S. (seasonally adjusted)	Nov	260.9	260.5	258.0	2.2	1.1
Detroit (not seasonally adjusted)	Oct	239.9	240.6	238.8	(1.7)	0.5
Interest Rates						
3-month Treasury Bill ⁴⁾	Nov	0.09%	0.10%	1.57%	--	--
30-year Conventional Mortgage ⁶⁾	Nov	2.77%	2.83%	3.70%	--	--
Real Gross Domestic Product ⁷⁾ (billions of 2009 \$, SAAR, Chain-Weighted)	2020 3rd Quarter	\$18,596.5	\$17,302.5	\$19,141.7	33.4	(2.8)
Michigan Tax Collections ⁸⁾ (12 major taxes, millions)	Nov	\$2,343.3	\$3,440.5	\$2,164.7	NM	8.2

SAAR = Seasonally Adjusted at Annual Rates. NM = Not Meaningful.
Revenue data vary greatly from month-to-month due to timing and other noneconomic factors.

Sources: 1) University of Michigan Surveys of Consumers. 2) U.S. Energy Information Administration/Federal Reserve Bank of St. Louis. 3) U.S. Department of Commerce, Bureau of the Census. 4) Board of Governors of the Federal Reserve System. 5) U.S. Department of Labor, Bureau of Labor Statistics. The U.S. CPI is released monthly, while the Detroit CPI is released every two months, beginning in Feb. of each year. 6) Freddie Mac, Primary Mortgage Market Survey. 7) U.S. Department of Commerce, Bureau of Economic Analysis. 8) Michigan Department of Treasury and the Senate Fiscal Agency. 9) Percent changes from previous period for CPI and GDP at annual rate.



Source: U.S. Census Bureau