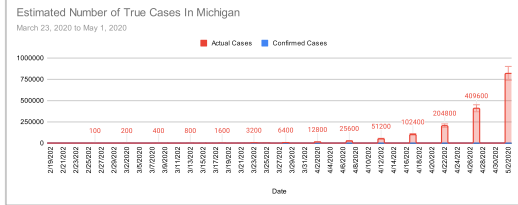


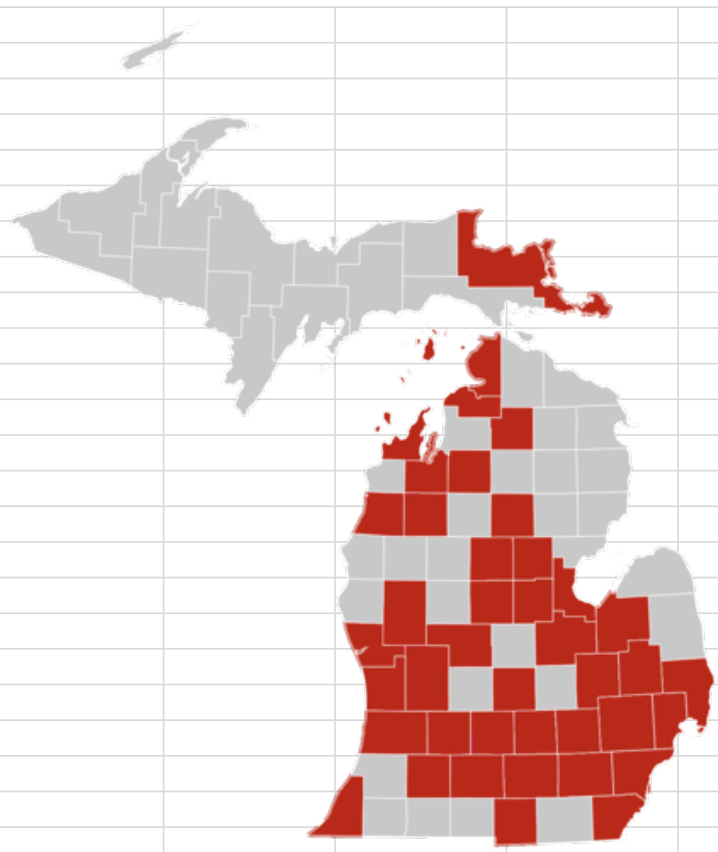
This tool is updated nightly as data is released

Confirmed cases and deaths						
Date	# of confirmed cases	New Cases	Percent Change	Total Deaths	New Deaths	Percent Change
3/10/2020	2	2	n.a.	0	0	
3/11/2020	2	0		0	0	
3/12/2020	12	10	500.00%			
3/13/2020	25	13	108.33%			
3/14/2020	33	8	32.00%			
3/15/2020	53	20	60.61%			
3/16/2020	54	1	1.89%			
3/17/2020	65	11	20.37%			
3/18/2020	80	15	23.08%	1	1	n.a.
3/19/2020	334	254	317.50%	3	2	200.00%
3/20/2020	549	215	64.37%	3	0	0.00%
3/21/2020	787	238	43.35%	5	2	66.67%
3/22/2020	1035	248	31.51%	8	3	60.00%
3/23/2020	1328	293	28.31%	15	7	87.50%
3/24/2020	1791	463	34.66%	24	9	60.00%
3/24/2020	2,295	504	28.14%	43	19	79.17%



Confirmed vs. Predicted									
Milestones	Date	Confirmed Cases	Actual Cases	Actual Deaths	Predicted Deaths	Notes	Notes	Notes	
	2/19/2020								
	2/20/2020								
	2/21/2020								
	2/22/2020								
	2/23/2020								
	2/24/2020								
	2/25/2020								
Time from infection to death	20 days								
Incubation period	5.1 days								
Days to double (conservative)	5 days								
	2/26/2020			100		1% mortality rate = 100x infection rate			
	2/27/2020								
	2/28/2020								
	2/29/2020								
	3/1/2020								
	3/2/2020			200					
	3/3/2020								
	3/4/2020								
	3/5/2020			400					
	3/6/2020								
	3/7/2020								
	3/8/2020								
	3/9/2020								
State of emergency declared	Testing begins in Michigan	3/10/2020	2					Symptoms may actually take 11 to 12 days on average (lines up w/ first confirmed cases)	
	Schools close	3/11/2020	2						
		3/12/2020	12						
		3/13/2020	25	800					
		3/14/2020	33						
		3/15/2020	53						
		3/16/2020	54						
		3/17/2020	65						
First death in Michigan		3/18/2020	80	1600	1	16			
		3/19/2020	334		3				
		3/20/2020	549		3				
Barbershops, nail salons close		3/21/2020	787		5				
		3/22/2020	1035		8				
State-wide lockdown ordered		3/23/2020	1328	3200	15			Predicted cases for this day is 1,328. Which is close to the confirmed cases 3200. Meaning Michigan's testing programs are accelerating.	
		3/24/2020	1791		24			Beaumont currently has 635 patients it is caring for. Of 305 of total confirmed cases require hospitalization.	
		3/25/2020	2,295		43			At least 19.8% (635 Beaumont patients/3200 actual cases) require hospitalization.	
		3/26/2020			60			Michigan is growing at a faster exponential growth rate.	
		3/27/2020							
		3/28/2020		6400				Important day to determine if we are on an exponential curve.	
		3/29/2020							
		3/30/2020							
		3/31/2020							
		4/1/2020							
		4/2/2020		12800		128			
		4/3/2020							
		4/4/2020							
		4/5/2020							
		4/6/2020						14 days since state-wide lockdown	
		4/7/2020		25600		256			
		4/8/2020							
		4/9/2020							
		4/10/2020							
		4/11/2020							
		4/12/2020		51200		512		21 days since state-wide lockdown	
		4/13/2020							
		4/14/2020							
		4/15/2020							
		4/16/2020		102400		1024			
		4/17/2020							
		4/18/2020							
		4/19/2020							
		4/20/2020						28 days since state-wide lockdown	
		4/21/2020							
		4/22/2020		204800		2048			
		4/23/2020							
		4/24/2020							
		4/25/2020							
		4/26/2020							
		4/27/2020		409600		4096			
		4/28/2020							
		4/29/2020							
		4/30/2020							
		5/1/2020							
		5/2/2020		819200		8192			

County	Cases	Deaths
Allegan	1	
Barry	1	
Bay	2	
Berrien	8	
Calhoun	4	
Charlevoix	3	
Chippewa	1	
Clare	1	
Clinton	5	
Detroit City	563	8
Eaton	3	
Emmet	2	
Genesee	34	
Gladwin	2	
Grand Traverse	3	
Hillsdale	1	
Ingham	15	
Isabella	2	
Jackson	6	
Kalamazoo	3	
Kalkaska	1	
Kent	31	1
Lapeer	1	
Leelanau	1	
Livingston	13	
Macomb	225	3
Manistee	1	
Midland	5	
Monroe	12	
Montcalm	1	
Muskegon	3	
Newaygo	2	
Oakland	428	4
Otsego	5	
Ottawa	15	
Roscommon	1	
Saginaw	8	
St. Clair	8	
Tuscola	1	
Washtenaw	50	3
Wayne	310	5
Wexford	1	
Out of State	6	
Not Reported	2	
<b>Total</b>	<b>1,791</b>	<b>24</b>



Counties colored in red have at least one confirmed case of COVID-19

<b>Age</b>	<b>%</b>			
0 to 19 years	1%			
20 to 29 years	8%			
30 to 39 years	13%			
40 to 49 years	17%			
50 to 59 years	20%			
60 to 69 years	21%			
70 to 79 years	13%			
80+ years	7%			
		<b>59% of cases are below the age of 60</b>		
<b>Sex</b>	<b>%</b>			
Male	52%			
Female	48%			