

## Michigan Youth/Young Adult Suicide Data Tables

Updated 08/12/19

### DEATHS

Data source for youth suicide deaths: Michigan Department of Health and Human Services, Division for Vital Records and Health Statistics, Michigan Resident Death Records, 1996–2017.

Suicide deaths were identified by underlying causes of death classified by the ninth revision of the International Classification of Diseases (*ICD-9-CM*) for deaths prior to 1999, and the tenth revision (*ICD-10-CM*) for deaths 1999 and thereafter.

ICD-9 codes: E950–E959

ICD-10 codes: X60–X84, Y870

#### Suicide Rates Among Michigan Residents Ages 10–24, MI 1997–2017

Year	N	Rate (deaths per 100,000 residents)
1997	184	8.9
1998	159	7.7
1999	150	7.2
2000	138	6.5
2001	140	6.5
2002	149	6.8
2003	131	6.0
2004	149	6.8
2005	141	6.4
2006	122	5.6
2007	136	6.3
2008	145	6.8
2009	140	6.7
2010	182	8.7
2011	168	8.1
2012	195	9.4
2013	195	9.4
2014	209	10.2
2015	203	10.0
2016	219	10.9
2017	211	10.6

**Average Suicide Rate Among Michigan Residents Ages 10–24 by County, 2008–2017**

<b>County</b>	<b>Number of Deaths</b>	<b>Rate (deaths per 100,000 residents)</b>
Alcona	**	**
Alger	**	**
Allegan	20	8.9
Alpena	**	**
Antrim	**	**
Arenac	**	**
Baraga	**	**
Barry	17	14.9
Bay	18	9.1
Benzie	**	**
Berrien	30	10.1
Branch	17	20.4
Calhoun	30	11.1
Cass	15	15.4
Charlevoix	7	15.7
Cheboygan	6	**
Chippewa	9	11.3
Clare	7	13.4
Clinton	8	5.0
Crawford	**	**
Delta	17	27.3
Dickinson	9	20.0
Eaton	26	12.1
Emmet	6	10.0
Genesee	69	8.1
Gladwin	7	16.7
Gogebic	6	**
Grand Traverse	13	8.1
Gratiot	12	13.4
Hillsdale	13	13.6
Houghton	11	9.9
Huron	9	16.6
Ingham	62	7.5
Ionia	11	8.4
Iosco	**	**
Iron	**	**
Isabella	15	5.6
Jackson	26	8.2
Kalamazoo	52	7.9
Kalkaska	**	**
Kent	93	7.0
Keweenaw	**	**

County	Number of Deaths	Rate (deaths per 100,000 residents)
Lake	**	**
Lapeer	14	7.9
Leelanau	**	**
Lenawee	17	8.4
Livingston	32	8.7
Luce	**	**
Mackinac	**	**
Macomb	154	9.5
Manistee	6	**
Marquette	16	10.0
Mason	11	21.8
Mecosta	10	7.9
Menominee	7	17.7
Midland	12	7.1
Missaukee	**	**
Monroe	30	10.1
Montcalm	18	14.7
Montmorency	**	**
Muskegon	31	8.9
Newaygo	7	7.5
Oakland	205	8.9
Oceana	6	12.0
Ogemaw	**	**
Ontonagon	**	**
Osceola	**	**
Oscoda	**	**
Otsego	**	**
Ottawa	37	5.4
Presque Isle	**	**
Roscommon	7	22.0
Saginaw	29	7.0
St. Clair	34	10.9
St. Joseph	12	9.9
Sanilac	8	10.2
Schoolcraft	**	**
Shiawassee	20	14.3
Tuscola	11	10.6
Van Buren	11	7.4
Washtenaw	48	5.0
Wayne	357	9.5
Wexford	6	10.0
<b>State</b>	<b>1,867</b>	<b>9.1</b>

\*\*To maintain confidentiality and statistical reliability, counts of less than 6 deaths along with their corresponding rates were suppressed. County of residence was missing for two deaths.

**Average Suicide Rates Among Michigan Residents Ages 10–24  
by 5-Year Age Group and Sex, 2013–2017**

Age	Male	Female	Total
10 to 14	3.6	1.7	2.6
15 to 19	18.0	4.7	10.6
20 to 24	25.3	5.7	15.9
10 to 24	15.6	4.1	10.0

**Suicides by Race Among Michigan Residents Ages 10–24, 2013–2017**

Race	N	Rate (deaths per 100,000 residents)
White	844	10.8
Black	125	6.8
Asian/Pacific Islander	22	5.5
American Indian	12	10.5

**Suicides by Ethnicity Among Michigan Residents Ages 10–24, 2013–2017**

Ethnicity	N	Rate (deaths per 100,000 residents)
Hispanic	66	9.4
Non-Hispanic	940	10.0

**Method of Suicide Death Among Michigan Residents Ages 10–24, 2013–2017**

Method of Death	N	%
Hanging, strangulation, suffocation	447	43.1
Firearms	437	42.1
Poisoning	75	7.2
Jumping	31	3.0
Other*	47	4.5

\*Other includes suicide death by drowning/submersion, smoke/fire, cut/pierce, crashing of motor vehicle, and other methods

**Method of Suicide Death Among Michigan Residents Ages 10–24 by Sex, 2013–2017**

Method of Death	Male		Female	
	N	%	N	%
Hanging, strangulation, suffocation	344	41.3	103	50.5
Firearms	393	47.2	44	21.6
Poisoning	32	3.8	43	21.1
Jumping	25	3.0	6	2.9
Other	39	4.7	8	3.9

**Method of Suicide Death Among Michigan Residents Ages 10–24 by Age Group, 2013–2017**

Method of Death	10 to 14		15 to 19		20 to 24	
	N	%	N	%	N	%
Hanging, strangulation, suffocation	48	55.8	167	43.3	232	41.1
Firearms	31	36.0	160	41.5	246	43.5
Poisoning	**	**	24	6.2	46	8.1
Jumping	**	**	15	3.9	14	2.5
Other	**	**	20	5.2	27	4.8

**HOSPITALIZATIONS**

Source for Self-Harm/Suicidal Ideation Hospitalization Data: Michigan Inpatient Database, 2013–2017.

Self-harm hospitalizations are identified using ICD-9 codes, prior to Oct. 1, 2015: E950–E959; ICD-10 codes starting Oct. 1, 2015 and thereafter: X71–X83, T36–T71; T14.91

\*\* Please note that coding of self-harm and suicidal ideations changed significantly with the transition from *ICD-9-CM* to *ICD-10-CM* (after Oct. 1, 2015). Therefore, this may have impacted the increase in number of hospitalizations starting in 2015 rather than a true increase in suicidal behavior.

**Self-Harm Hospitalizations Among Michigan Residents Ages 10–24 by Year, 2013–2017**

Year	N	Rate (hospitalizations per 100,000 residents)
2013	1,457	70.4
2014	1,378	67.0
2015	1,557	74.5
2016	1,102	55.1
2017	1,075	54.1

**Self-Harm Hospitalizations Among Michigan Residents by Age Group, 2013–2017**

Age	N	Rate (hospitalizations per 100,000 residents)
10 to 14	885	27.9
15 to 19	3,060	90.9
20 to 24	2,624	72.9

**Self-Harm Hospitalizations Among Michigan Residents Ages 10–24 by Sex, 2013–2017**

Sex	N	Rate (hospitalizations per 100,000 residents)
Male	2,261	43.6
Female	4,308	86.9

Suicidal ideation hospitalizations are identified using ICD-9 codes, prior to Oct. 1, 2015: V6284; ICD-10 codes starting Oct. 1, 2015 and thereafter: R45.851

**Suicidal Ideation Hospitalizations Among Michigan Residents Ages 10–24, 2013–2017**

Year	N	Rate (hospitalizations per 100,000 residents)
2013	3,588	173.4
2014	4,588	223.0
2015	5,329	262.6
2016	4,041	202.0
2017	5,520	277.9

**Suicidal Ideation Hospitalizations Among Michigan Residents by Age Group, 2013–2017**

Age	N	Rate (hospitalizations per 100,000 residents)
10 to 14	2,826	89.0
15 to 19	9,268	275.4
20 to 24	10,972	304.7

**Suicidal Ideation Hospitalizations Among Michigan Residents Ages 10–24 by Sex, 2013–2017**

Sex	N	Rate (hospitalizations per 100,000 residents)
Male	10,060	194.0
Female	13,006	262.4