

Michigan Youth & Young Adult Suicide Data Tables

Updated November 2024

Deaths

Data source for youth suicide deaths: Michigan Resident Death Records, Division for Vital Records and Health Statistics, Michigan Department of Health and Human Services, 2013–2022.

Suicide deaths were identified by underlying causes of death classified by the tenth revision of the International Classification of Diseases (ICD-10).

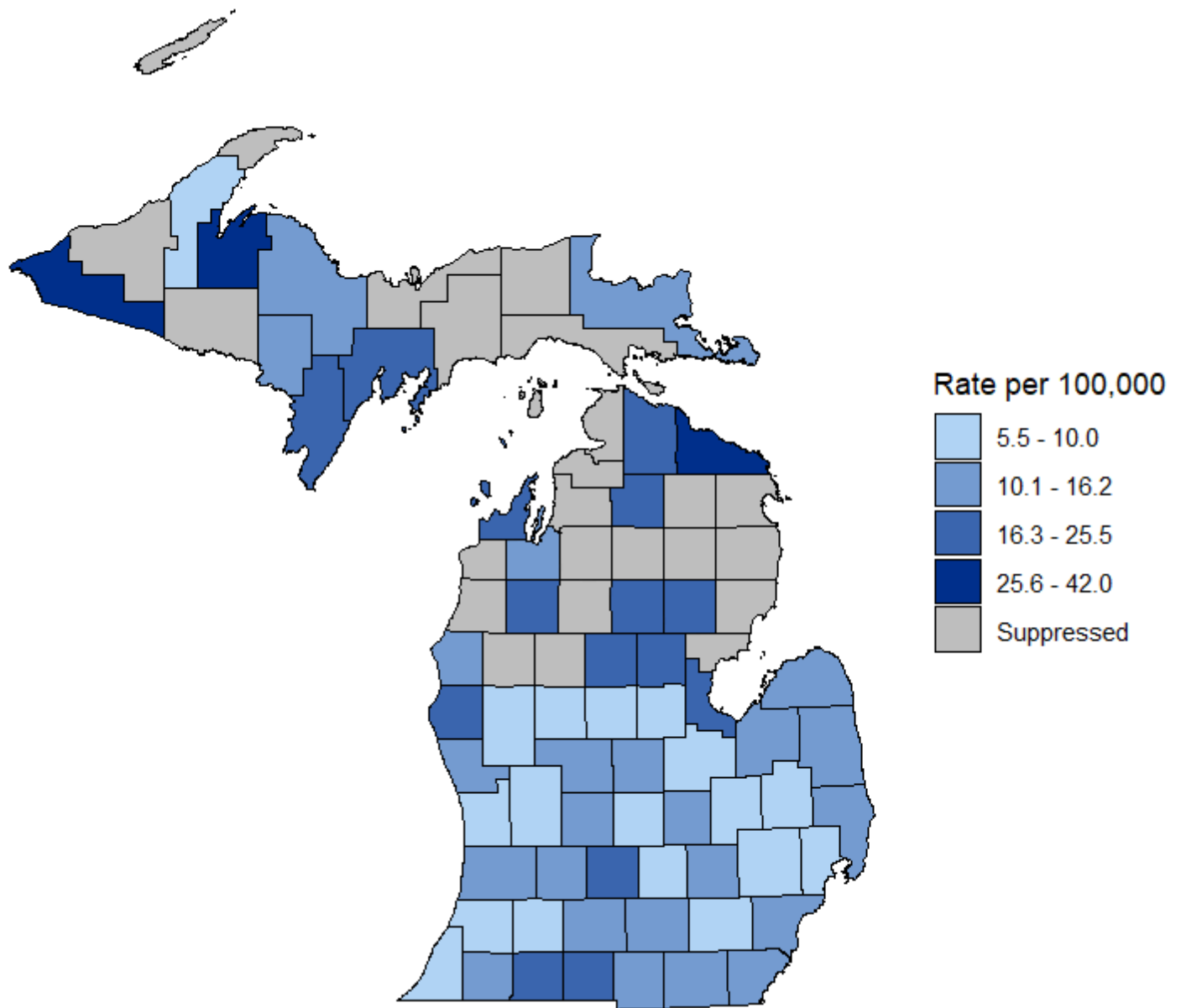
ICD-10 codes: X60-X84, Y87.0, U03

Age-adjusted rates are calculated to account for differences in population age distribution and changes in population size over time. This allows for more accurate comparisons between different groups. The 2000 U.S. population standard was used to calculate the rates.

Suicide Deaths Among Michigan Residents Aged 10–24 Years by Year, 2013–2022

YEAR	NUMBER OF DEATHS	RATE (deaths per 100,000 residents)
2013	195	9.0
2014	209	9.6
2015	204	9.5
2016	217	10.2
2017	207	10.0
2018	250	12.2
2019	201	10.0
2020	201	9.6
2021	216	10.5
2022	197	9.5

Age-Adjusted Suicide Rates Among Michigan Residents Aged 10–24 Years by County, 2013–2022



**To maintain confidentiality and statistical reliability, rates based on counts of less than six deaths were suppressed. County of residence was missing for one death.

Suicide Deaths Among Michigan Residents Aged 10–24 Years by County of Residence, 2013–2022

COUNTY	NUMBER OF DEATHS	RATE (deaths per 100,000 residents)
Alcona	**	**
Alger	**	**
Allegan	23	10.4
Alpena	**	**
Antrim	**	**
Arenac	**	**
Baraga	6	42.0
Barry	17	15.2
Bay	21	19.2
Benzie	**	**
Berrien	29	10.0
Branch	16	20.0
Calhoun	28	10.4
Cass	11	12.0
Charlevoix	**	**
Cheboygan	10	25.5
Chippewa	11	12.1
Clare	9	18.2
Clinton	14	9.0
Crawford	**	**
Delta	14	23.5
Dickinson	7	16.2
Eaton	37	17.6

COUNTY	NUMBER OF DEATHS	RATE (deaths per 100,000 residents)
Emmet	**	**
Genesee	78	9.7
Gladwin	9	23.6
Gogebic	7	30.6
Grand Traverse	17	10.5
Gratiot	10	11.0
Hillsdale	12	12.7
Houghton	11	8.9
Huron	6	11.8
Ingham	71	7.8
Ionia	17	12.9
Iosco	**	**
Iron	**	**
Isabella	19	6.8
Jackson	35	11.1
Kalamazoo	67	8.9
Kalkaska	**	**
Kent	118	8.7
Keweenaw	**	**
Lake	**	**
Lapeer	13	7.8
Leelanau	6	18.9
Lenawee	23	11.4
Livingston	41	11.3

COUNTY	NUMBER OF DEATHS	RATE (deaths per 100,000 residents)
Luce	**	**
Mackinac	**	**
Macomb	165	10.0
Manistee	**	**
Marquette	17	10.5
Mason	6	12.2
Mecosta	10	7.6
Menominee	8	21.4
Midland	10	6.3
Missaukee	**	**
Monroe	30	10.6
Montcalm	16	13.4
Montmorency	**	**
Muskegon	47	13.9
Newaygo	7	7.9
Oakland	229	9.8
Oceana	10	20.7
Ogemaw	8	24.4
Ontonagon	**	**
Osceola	**	**
Oscoda	**	**
Otsego	9	20.7
Ottawa	51	6.9
Presque Isle	6	33.4

COUNTY	NUMBER OF DEATHS	RATE (deaths per 100,000 residents)
Roscommon	6	20.0
Saginaw	36	9.1
St. Clair	36	12.2
St. Joseph	23	19.9
Sanilac	8	10.9
Schoolcraft	**	**
Shiawassee	18	13.8
Tuscola	12	12.7
Van Buren	9	6.5
Washtenaw	65	5.5
Wayne	365	10.2
Wexford	13	22.0
State	2,033	10.0

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

Age-Specific Suicide Rates Among Michigan Residents Aged 10–24 Years by Age Group and Sex, 2013–2022

AGE GROUP	MALE	FEMALE	TOTAL
10 to 14	3.5	2.0	2.8
15 to 19	17.2	4.9	11.2
20 to 24	26.4	6.4	16.6
10 to 24	16.2	4.5	10.5

**Suicide Deaths Among Michigan Residents Aged 10–24 Years by Race,
2013–2022**

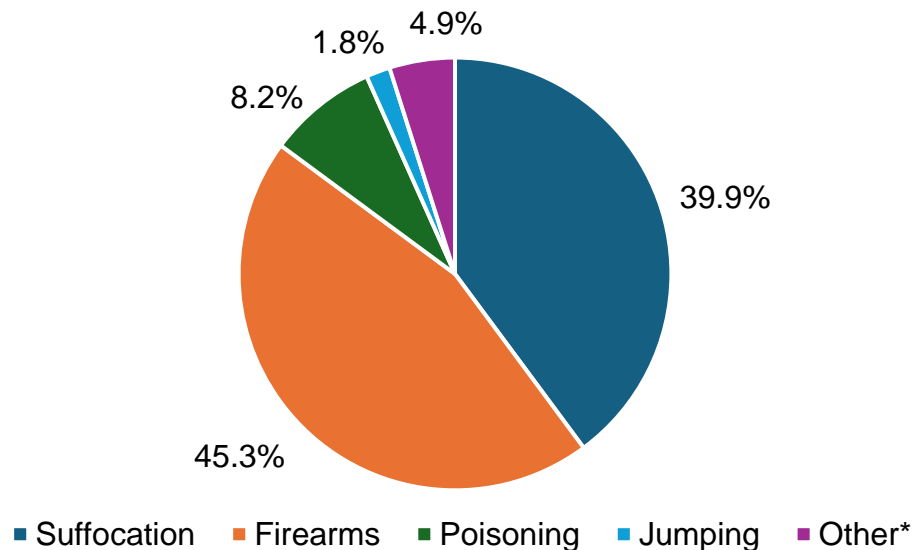
RACE	NUMBER OF DEATHS	RATE (deaths per 100,000 residents)
White	1,629	10.4
Black	291	8.5
Asian/Native Hawaiian and Pacific Islander	61	7.3
American Indian	22	12.1
Multiracial	46	5.5
Other/Unknown	48	**

Suicide Deaths Among Michigan Residents Aged 10–24 Years by Hispanic Ethnicity, 2013–2022

HISPANIC ETHNICITY	NUMBER OF DEATHS	RATE (deaths per 100,000 residents)
Hispanic	143	9.5
Non-Hispanic	1,899	9.8
Other/Unknown	55	**

**Rates can't be calculated for other/unknown due to absence of denominator data.

Method of Suicide Among Michigan Residents Aged 10–24, 2013–2022



Method of Suicide Among Michigan Residents Aged 10–24 by Sex, 2013–2022

METHOD	MALE		FEMALE	
	N	%	N	%
Suffocation	630	38.1	207	46.6
Firearms	838	50.7	111	25.0
Poisoning	74	4.5	97	21.8
Jumping	28	1.7	9	2.0
Other*	83	5.0	20	4.5

Method of Suicide Among Michigan Residents Aged 10–24 by Age Group, 2013–2022

METHOD	10 to 14		15 to 19		20 to 24	
	N	%	N	%	N	%
Suffocation	95	54.6	328	44.3	414	35.1
Firearms	59	33.9	303	40.9	587	49.7
Poisoning	13	7.5	59	8.0	99	8.4
Jumping	**	**	14	1.9	21	1.8
Other*	**	**	37	5.0	60	5.1

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

**To maintain confidentiality and statistical reliability, counts of less than six deaths along with their corresponding percentages were suppressed.

Hospitalizations

Source for self-harm/suicidal ideation hospitalization data: Michigan Inpatient Database, Michigan Health and Hospital Association, 2018–2022.

Only nonfatal hospitalizations from nonfederal, acute care-affiliated facilities (Veterans Affairs, federal hospitals, rehabilitation centers, psychiatric hospitals, and cancer centers are excluded).

Self-harm and suicidal ideation hospitalizations are identified using ICD-10 codes: X71-X83, T36-T65, T71, T14.91, R45.88, R45.851.

Age-adjusted rates are calculated to account for differences in population age distribution and changes in population size over time. This allows for more accurate comparisons between different groups. The 2000 U.S. population standard was used to calculate the rates.

Nonfatal Self-harm Hospitalizations Among Michigan Residents Aged 10–24 Years by Year, 2018–2022

YEAR	NUMBER OF HOSPITALIZATIONS	RATE (per 100,000)
2018	1,331	66.9
2019	1,224	62.6
2020	1,152	57.6
2021	1,364	70.8
2022	1,194	61.8

Nonfatal Self-Harm Hospitalizations Among Michigan Residents Aged 10–24 Years by Age Group, 2018–2022

AGE GROUP	NUMBER OF HOSPITALIZATIONS	RATE (per 100,000)
10 to 14	1,236	40.1
15 to 19	3,081	95.0
20 to 24	1,948	56.2

Nonfatal Self-Harm Hospitalizations Among Michigan Residents Aged 10–24 Years by Sex, 2018–2022

SEX	NUMBER OF HOSPITALIZATIONS	RATE (per 100,000)
Male	1,833	35.5
Female	4,432	93.7

Nonfatal Hospitalizations with Suicidal Ideation Among Michigan Residents Aged 10–24 Years by Year, 2018–2022

YEAR	NUMBER OF HOSPITALIZATIONS	RATE (per 100,000)
2018	4,255	206.2
2019	4,294	211.4
2020	4,102	197.5
2021	4,463	220.1
2022	4,230	208.4

**Nonfatal Hospitalizations with Suicidal Ideation Among Michigan Residents
Aged 10–24 Years by Age Group, 2018–2022**

AGE GROUP	NUMBER OF HOSPITALIZATIONS	RATE (per 100,000)
10 to 14	1,792	58.1
15 to 19	7,798	240.6
20 to 24	11,754	339.2

**Nonfatal Hospitalizations with Suicidal Ideation Among Michigan Residents
Aged 10–24 Years by Sex, 2018–2022**

AGE GROUP	NUMBER OF HOSPITALIZATIONS	RATE (per 100,000)
Male	8,899	167.9
Female	12,445	251.3

Emergency Department (ED) Visits

Source for Nonfatal ED Visit data: Michigan Outpatient Database, Michigan Health and Hospital Association, 2018–2022.

Only nonfatal ED visits from nonfederal, acute care-affiliated facilities that did not result in admission (Veterans Affairs, federal hospitals, rehabilitation centers, psychiatric hospitals, and cancer centers are excluded).

Nonfatal intentional self-harm and suicidal ideation ED visits are identified using ICD-10 codes: X71-X83, T36-T65, T71, T14.91, R45.88, R45.851.

Age-adjusted rates are calculated to account for differences in population age distribution and changes in population size over time. This allows for more accurate comparisons between different groups. The 2000 U.S. population standard was used to calculate the rates.

**Nonfatal Self-Harm ED Visits Among Michigan Residents Aged 10–24
Years by Year, 2018–2022**

YEAR	NUMBER OF VISITS	RATE (per 100,000)
2018	6,788	347.1
2019	6,877	356.2
2020	5,912	298.8
2021	7,065	369.2
2022	6,581	344.8

**Nonfatal Self-Harm ED Visits Among Michigan Residents Aged 10–24
Years by Age Group, 2018–2022**

AGE GROUP	NUMBER OF VISITS	RATE (per 100,000)
10 to 14	8,453	274.3
15 to 19	16,355	504.6
20 to 24	8,415	242.8

**Nonfatal Self-Harm ED Visits Among Michigan Residents Aged 10–24
Years by Sex, 2018–2022**

SEX	NUMBER OF VISITS	RATE (per 100,000)
Male	9,178	181.4
Female	24,043	512.4

**Nonfatal ED Visits with Suicidal Ideation Among Michigan Residents Aged
10–24 Years by Year, 2018–2022**

YEAR	NUMBER OF VISITS	RATE (per 100,000)
2018	16,399	830.2
2019	16,809	863.5
2020	14,608	729.4
2021	17,314	891.4
2022	17,562	907.7

**Nonfatal ED Visits with Suicidal Ideation Among Michigan Residents Aged
10–24 Years by Age Group, 2018–2022**

AGE GROUP	NUMBER OF VISITS	RATE (per 100,000)
10 to 14	20,157	654.0
15 to 19	35,194	1,085.7
20 to 24	27,341	788.9

**Nonfatal ED Visits with Suicidal Ideation Among Michigan Residents Aged
10–24 Years by Sex, 2018–2022**

SEX	NUMBER OF VISITS	RATE (per 100,000)
Male	32,814	645.0
Female	49,876	1,052.1

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