

IMR Totals

Infant Deaths, Live Births and Infant Death Rates Calhoun County
Residents, 2005-2015, Single Year

Year	Infant Deaths	Live Births	Infant Death Rate
2015	14	1,654	8.5 ±4.4
2014	9	1,659	5.4 ±3.5
2013	11	1,697	6.5 ±3.8
2012	10	1,681	5.9 ±3.7
2011	15	1,616	9.3 ±4.7
2010	18	1,646	10.9 ±5.0
2009	20	1,699	11.8 ±5.1
2008	14	1,761	8.0 ±4.1
2007	28	1,922	14.6 ±5.4
2006	17	1,792	9.5 ±4.5
2005	18	1,891	9.5 ±4.4

Infant Deaths, Live Births and Infant Death Rates Michigan Residents,
2005-2015, Single Year

Year	Infant Deaths	Live Births	Infant Death Rate
2005	1,013	127,518	7.9 ±0.5
2006	940	127,537	7.4 ±0.5
2007	997	125,172	8.0 ±0.5
2008	894	121,231	7.4 ±0.5
2009	881	117,309	7.5 ±0.5
2010	817	114,717	7.1 ±0.5
2011	749	114,159	6.6 ±0.5
2012	783	112,708	6.9 ±0.5
2013	799	113,732	7.0 ±0.5
2014	773	114,460	6.8 ±0.5
2015	765	113,211	6.8 ±0.5

IMR Totals

Infant Deaths, Live Births and Infant Death Rates Calhoun County Residents, 2005-2015, Three-Year Moving Averages

Years	Average Number of Infant Deaths	Average Number of Live Births	Average Infant Death Rate
2013-2015	11.3	1,670.0	6.8 ±2.3
2012-2014	10.0	1,679.0	6.0 ±2.1
2011-2013	12.0	1,664.7	7.2 ±2.3
2010-2012	14.3	1,647.7	8.7 ±2.6
2009-2011	17.7	1,653.7	10.7 ±2.9
2008-2010	17.3	1,702.0	10.2 ±2.8
2007-2009	20.7	1,794.0	11.5 ±2.9
2006-2008	19.7	1,825.0	10.8 ±2.7
2005-2007	21.0	1,868.3	11.2 ±2.8

Infant Deaths, Live Births and Infant Death Rates Michigan Residents, 2005-2015, Three-Year Moving Averages

Years	Average Number of Infant Deaths	Average Number of Live Births	Average Infant Death Rate
2013-2015	779.0	113,801.0	6.8 ±0.3
2012-2014	785.0	113,633.3	6.9 ±0.3
2011-2013	777.0	113,533.0	6.8 ±0.3
2010-2012	783.0	113,861.3	6.9 ±0.3
2009-2011	815.7	115,395.0	7.1 ±0.3
2008-2010	864.0	117,752.3	7.3 ±0.3
2007-2009	924.0	121,237.3	7.6 ±0.3
2006-2008	943.7	124,646.7	7.6 ±0.3
2005-2007	983.3	126,742.3	7.8 ±0.3

IMR Totals

Notes:

Infant Deaths: Deaths occurring to individuals less than 1 year of age.

Infant Death Rates: The infant death rate is the number of resident infant deaths divided by total resident live births X 1,000. Adding and subtracting the number shown after the \pm symbol from the rate creates a confidence interval indicating that the true rate lies between the lower and upper bounds of this interval with 95 % statistical confidence. The true rate lies between the lower and upper bounds of the interval with 95% statistical confidence. If the confidence interval is large for a single year comparison, it is suggested that you use the three year and five year moving average rates.

*: A rate is not calculated when there are fewer than 6 events, because the width of the confidence interval would negate any usefulness for comparative purposes.

-: A dash indicates that there were either no births or no infant deaths from this category.

Source: 1989-1999 Michigan Death Certificate Registries; 1999-2013 Geocoded Michigan Death Certificate Registries; 2014-2015 Michigan Death Certificate Registries.,
1989-1999 Michigan Birth Certificate Registries; 2000-2015 Geocoded Michigan Birth Certificate Registries.,
Vital Records and Health Statistics Section, Division for Vital Records and Health Statistics, Michigan Department of Community Health

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Neonatal Totals

Low Birthweight, Neonatal, Postneonatal and Infant Mortality Rates Calhoun County
Three Year Moving Averages

Year	Low Birthweight Mortality Rate	Neonatal Mortality Rate	Postneonatal Mortality Rate	Infant Mortality Rate
2013-2015	3.6 ±1.7	4.2 ±1.8	2.6 ±1.4	6.8 ±2.3
2012-2014	3.4 ±1.6	4.0 ±1.7	2.0 ±1.2	6.0 ±2.1
2011-2013	4.4 ±1.8	4.8 ±1.9	2.4 ±1.4	7.2 ±2.3
2010-2012	5.5 ±2.1	5.3 ±2.0	3.4 ±1.6	8.7 ±2.6
2009-2011	6.2 ±2.2	6.5 ±2.2	4.2 ±1.8	10.7 ±2.9
2008-2010	6.3 ±2.2	7.1 ±2.3	3.1 ±1.5	10.2 ±2.8
2007-2009	7.4 ±2.3	8.2 ±2.4	3.3 ±1.5	11.5 ±2.9
2006-2008	7.5 ±2.3	7.7 ±2.3	3.1 ±1.5	10.8 ±2.7
2005-2007	6.8 ±2.1	7.1 ±2.2	4.1 ±1.7	11.2 ±2.8

Low Birthweight, Neonatal, Postneonatal and Infant Mortality Rates Michigan
Three Year Moving Averages

Year	Low Birthweight Mortality Rate	Neonatal Mortality Rate	Postneonatal Mortality Rate	Infant Mortality Rate
2013-2015	4.6 ±0.2	4.6 ±0.2	2.3 ±0.2	6.8 ±0.3
2012-2014	4.7 ±0.2	4.7 ±0.2	2.2 ±0.2	6.9 ±0.3
2011-2013	4.7 ±0.2	4.7 ±0.2	2.2 ±0.2	6.8 ±0.3
2010-2012	4.7 ±0.2	4.7 ±0.2	2.2 ±0.2	6.9 ±0.3
2009-2011	4.8 ±0.2	4.8 ±0.2	2.3 ±0.2	7.1 ±0.3
2008-2010	5.2 ±0.2	5.0 ±0.2	2.4 ±0.2	7.3 ±0.3
2007-2009	5.4 ±0.2	5.2 ±0.2	2.4 ±0.2	7.6 ±0.3
2006-2008	5.4 ±0.2	5.3 ±0.2	2.3 ±0.2	7.6 ±0.3
2005-2007	5.5 ±0.2	5.4 ±0.2	2.3 ±0.2	7.8 ±0.3

Notes:

Infant deaths: Deaths occurring to individuals less than 1 year of age.

Infant mortality rate: Number of resident infant deaths divided by total resident live births x 1,000.

Neonatal mortality rate: Number of infant deaths that occurred within the first 27 days of life per 1,000 live births.

Postneonatal mortality rate: Number of resident deaths occurring to individuals at 28-364 days of age divided by total resident live births x 1,000.

Low Birthweight mortality rate: Number of infant deaths with birthweight less than 2500 grams divided by total resident live births x 1,000.

---Triple dashes indicates that data is unavailable.

±Adding and subtracting the number shown after the ± symbol from the rate creates a confidence interval indicating that the true rate lies between the lower and upper bounds of this interval with 95 % statistical confidence.

*A rate is not calculated when there are fewer than 6 events, because the width of the confidence interval would negate any usefulness for comparative purposes.

- A dash indicates that there were either no births or no infant deaths from this category.

Source: 1989-1999 Michigan Death Certificate Registries;1999-2013 Geocoded Michigan Death Certificate Registries; 2014-2015 Michigan Death Certificate Registries.

1989-1999 Michigan Birth Certificate Registries;2000-2015 Geocoded Michigan Birth

IMR by Race

White Three-Year Moving Average Infant Death Rates by Calhoun County Michigan Residents, 2004-2015

Years	2004-06	2005-07	2006-08	2007-09	2008-10	2009-11	2010-12	2011-13	2012-14	2013-15
Calhoun	7.3±2.5	8.5±2.6	7.9±2.6	9.3±2.9	7.4±2.6	7.9±2.8	6.4±2.5	5.9±2.4	5.1±2.2	5.2±2.3
Michigan	5.4±0.3	5.6±0.3	5.6±0.3	5.6±0.3	5.4±0.3	5.2±0.3	5.3±0.3	5.3±0.3	5.5±0.3	5.4±0.3

Black Three-Year Moving Average Infant Death Rates by Calhoun County Michigan Residents, 2004-2015

Years	2004-06	2005-07	2006-08	2007-09	2008-10	2009-11	2010-12	2011-13	2012-14	2013-15
Calhoun	20.8±9.8	25.3±10.7	24.2±10.5	20.5±9.6	22.1±10.4	25.4±11.3	20.2±10.1	13.8±8.1	9.9±6.8	14.6±8.2
Michigan	16.6±1.0	16.4±1.0	15.3±0.9	15.5±0.9	14.8±0.9	14.5±0.9	13.8±0.9	13.4±0.9	13.3±0.9	13.6±0.9