The Commonwealth of Massachusetts

Executive Office of Health and Human Services Department of Public Health

Registry of Vital Records and Statistics 150 Mt. Vernon Street, 1st Floor Dorchester, MA 02125

MAURA T. HEALEY

Governor

KIMBERLEY DRISCOLL

Lieutenant Governor

December 19th, 2024

Steven T. James House Clerk

State House Room 145 Boston, MA 02133

Michael D. Hurley Senate Clerk

State House Room 335 Boston, MA 02133

Dear Mr. Clerk,

KATHLEEN E. WALSH

Secretary

ROBERT GOLDSTEIN, MD, PhD

Commissioner

**Tel: 617-740-2600**

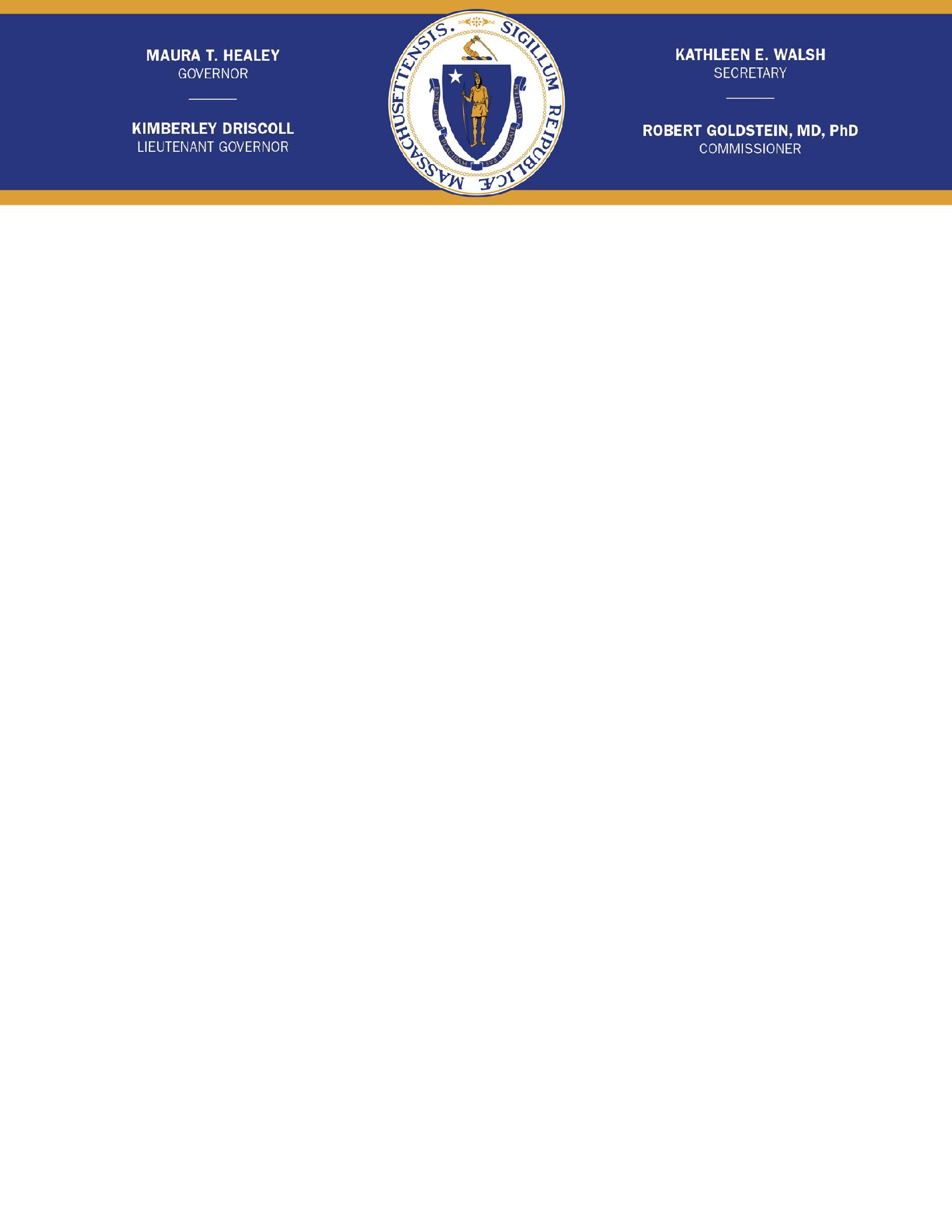
[**www.mass.gov/dph/rvrs**](http://www.mass.gov/dph/rvrs)

Pursuant to Section 2 of Chapter 111 of the Massachusetts General Laws*,* please find enclosed a report from the Department of Public Health entitled Massachusetts Births 2022.

Sincerely,

Robert Goldstein, MD, PhD Commissioner

Massachusetts Department of Public Health



Massachusetts Births 2022

November 2024

## Article I. Legislative Mandate

The following report is hereby issued pursuant to Section 2 of Chapter 111 of the Massachusetts General Laws as follows:

***Chapter 111: Section 2. Annual report (specific text bolded below)***

*The commissioner shall administer the laws relative to health and sanitation and the regulations of the department, and shall prepare rules and regulations for the consideration of the council. The secretary of elder affairs and the commissioner shall jointly develop and submit to the council rules and regulations governing the licensure and operation of convalescent or nursing homes, rest homes, infirmaries maintained in a town and charitable homes for the aged. He may direct any executive officer or employee of the department to assist in the study, suppression or prevention of disease in any part of the commonwealth. He shall submit annually to the council a report containing recommendations in regard to health legislation.*

***The commissioner shall prepare from the birth****, marriage and death* ***records received by him under the provisions of chapter forty-six****, and from the divorce returns received by him under the provisions of section forty-six of chapter two hundred and eight,* ***such statistical tables as he deems useful, and shall make annual report thereof to the general court****. The commissioner may transmit such information to the appropriate agency of the federal government to participate in the development of a cooperative system for producing uniform statistical information at the federal, state and local level. The commissioner may make further use of such records as he deems useful for administrative and research purposes connected with health programs and population studies. He shall, as soon as is reasonably practicable, cause the birth, marriage and death records to be bound with indexes thereto and shall retain their custody. He shall prepare an alphabetical index of such divorce returns showing the names of the parties, year and number of the judgment and the county in which the divorce occurred.*

*Prior to undertaking any activity or implementing any policy which would affect expenditures for medical assistance under chapter one hundred and eighteen E, including but not limited to the certification and licensure of providers of services under said chapter, the commissioner shall assure that such activity is reviewed by the commissioner of medical assistance.*

*The commissioner shall consult with the commissioner of mental health prior to taking an action substantially affecting the design and implementation of behavioral health services for children under guidelines established by the secretary of health and human services under section 16S of chapter 6A.*

*The commissioner, subject to the approval of the governor, may make such rules and regulations governing the conduct of written and oral examinations by the several boards of registration and examination under the department as shall be necessary to standardize procedures and protect the commonwealth and applicants for registration against fraud. Nothing in this section shall prevent a board from adopting, under authority of other provisions of law, specific rules and regulations that are not in conflict with the rules and regulations authorized by this section.*

**Massachusetts Births 2022**

Maura T. Healey, Governor

Kathleen E. Walsh, Secretary of Health and Human Services [Robert](http://www.mass.gov/eohhs/gov/departments/dph/biowel2.html) Goldstein, MD, Ph.D., Commissioner of Public Health Sai Cherala, MD, MPH, Assistant Commissioner

Karin Barrett, Registrar Registry of Vital Records and Statistics

Massachusetts Department of Public Health November 2024

**Acknowledgments**

Special thanks go to: Karin Barrett, Registrar, Registry of Vital Records and Statistics; Dean DiMartino, Deputy Registrar, Registry of Vital Records and Statistics; Sharon Pagnano, Director of Statistics, Registry of Vital Records and Statistics; Maria Vu, Registry of Vital Records and Statistics; Darien Mather, and Registry of Vital Records and Statistics; Ollie Nusbaum.

The data in this report were collected by the Registry of Vital Records and Statistics staff, including Tara Andrews, Helen Ba, Alex Forman, Adahma Lucas-Conley, and Marta Mercado.

## To obtain additional copies of this report, contact:

Massachusetts Department of Public Health Registry of Vital Records and Statistics

150 Mt. Vernon Street, 1st Floor Dorchester, MA 02125

(617) 740-2670

To obtain more information on births in Massachusetts and other

Department of Public Health data, please visit the Department’s free, Internet-based public health information reports at: <http://www.mass.gov/dph/phit> or email [DPH.PHIT@state.ma.us](mailto:DPH.PHIT@state.ma.us)

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# Note to Readers

As required by Chapter 111, Section 2 of the General Laws, this report satisfies the requirement of the annual report of statistics on births for calendar year 2021 (Annual Report Vital Statistics of Massachusetts-Births, Public Document #1 2021). Public Document #1 information on 2021 deaths, marriages, and divorces is covered in separate reports.

1. **Population Sources.** We have used two population files based upon the 2010 Census for denominators in rate calculations:
   * Population estimates from 2000-2009 were created using straight line interpolation of data from the U.S. Census.
   * Population estimates from 2011-present were created by the UMASS Donahue Institute (UMDI). The same categorizations were applied to the 2010 census data to make a consistent dataset from 2010-present. Data are updated annually with summary census files that incorporate lagging birth data. These more accurate and up-to-date rates may differ somewhat from previously released rates. UMDI estimates were created by a team of expert demographers using novel modifications of an existing and well-accepted methodology. UMDI created estimates by sex, age, race, and ethnicity at the census tract and community levels. These estimates are controlled to the annual county level Census estimates1 on a yearly basis, so they become more accurate over time. To read the full methodology, please refer to the report created by UMDI: Strate, S., Renski, H., Peake, T., Murphy, J.J., Zaldonis, P. (2016). Small area population estimates for 2011 through 2020. [White Paper]. Population Estimates Program, Economic and Public Policy Research, University of Massachusetts Donahue Institute.
2. **Resident births.** All data in this publication are resident data unless otherwise stated. Resident data include all events that occur to residents of the Commonwealth, including resident births that occur in other U.S. States and territories.
3. **Race and Ethnicity.** In the text, the race categories, White, Black, American Indian/Alaska Native, Asian/ Pacific Islander, and Hispanic are mutually exclusive. See “Technical Notes” for detailed information on the multiple-race reporting area and methods used to bridge responses for those who report more than one race to a single race. These methods may have a disproportionate impact on some race groups, making it difficult to compare data over time. **Please use caution in interpreting these numbers.**
4. **Breastfeeding.** Beginning in 2016, statistics on breastfeeding indicate whether the infant was being breastfed during the hospital stay. In earlier birth reports, statistics on breastfeeding were reported at the time of discharge. **Please use caution when comparing breastfeeding data before and after 2016.**
5. **Tables/Figures Based on Birthing People.** Please note that Tables 20-21 and 7-11 are based on birthing people, not births.

**Suggested Citation**

*Massachusetts Births 2022* Boston, MA: Registry of Vital Records and Statistics, Massachusetts Department of Public Health. June 2024.

# Executive Summary

This report summarizes trends in births to Massachusetts residents for 2022. It is important to note that births in 2022 were conceived during the ongoing COVID-19 pandemic; all birthing people represented in this report experienced the pandemic during their pregnancy. This report describes trends in prenatal care and birth outcomes in Massachusetts in 2022 and does not aim to analyze or explain the impact of the pandemic on these trends. Future studies will be needed to understand the impact of the pandemic on short- and long-term parental and child health.

The overall birth rate decreased for Massachusetts between 2021 and 2022 but remained higher than the birth rate for 2020. It is too early to quantify or determine the significance of the slight increase in birth rate between 2020 and 2021, followed by this year’s decline, so this trend must continue to be monitored. White non-Hispanic and Hispanic birthing people also remained the most prevalent racial/ethnic groups contributing to the birthrate. Recent social and work policies, such as Massachusetts’ Paid Family and Medical Leave, rise in remote work and hybrid setting work, and access to healthcare during the COVID-19 pandemic, must be considered along with the unique circumstances of 2022: a national 30% increase in medication shortages and infant formula shortages.1,2 Further investigation is warranted to examine if there are any long-term health impacts of both the medication and formula shortages.

Teen pregnancy can have profound effects on the individual, the children, and society at large. Children of teen parents have an increased risk of health issues, an increased likelihood of incarceration as a teen, an increased risk of becoming a teen parent themselves, limited educational opportunities, and an increased likelihood of unemployment in adulthood. These health and social factors can contribute to a cycle of generational poverty.3 Reductions in teen pregnancy are also associated with reductions in future health issues for the teen parent.4 Fortunately, Massachusetts has maintained the decreasing teen births and birth rate trend. The birth rate for 2022 is almost 1/5 of what it was in 1980.

2022 saw a decrease in gestational diabetes, but it is nearly triple what it was in 2000. Despite the rate of preterm births marginally increasing from 2021, preterm births continue to rise with one out of every 11 births being preterm. This rate is still higher for Black non-Hispanic births, with over one out of nine infants born prematurely. Additionally, the birth rate for low birthweight births achieved a record high for the past decade in 2022. Nearly one out of every 13 births are low birthweight- remaining unimproved after two decades. All these conditions carry health risks for the birthing person, the child, or both.

Public health efforts are ongoing to disentangle the risk factors of these conditions among Massachusetts residents, so that we can make progress in reducing health risks and improving health equity across the Commonwealth.

1 Food and Drug Administration. Report to Congress: Drug Shortages CY 2022. Silver Spring, MD; 2022.

2 Commonwealth of Massachusetts. Executive Office of Health and Human Services. Infant Formula Shortage: May 2022. Boston, MA; 2022.

3 Hoffman SD. Kids Having Kids: Economic Costs and Social Consequences of Teen Pregnancy. Washington, DC: The Urban Institute Press; 2008.

4 Perper K, Peterson K, Manlove J. Diploma Attainment Among Teen Mothers. Child Trends, Fact Sheet Publication #2010- 01: Washington, DC: Child Trends; 2010.

# Selected Takeaways

* In 2022, there were **68,579 births to Massachusetts residents, a decrease of 0.8% from 69,127 in 2021 and a decline of 25.8% since 1990** (Table 1). The number of births to people aged 30 and older was slightly lower than the number in 2021; the number of births to this group decreased by 0.5% (2021: 46,683; 2022: 46,469). The

number of births to people under 30 was also slightly lower than in 2021 (2021: 22,444; 2022: 22,110). Since 2008,

the number of births to people under 30 decreased by 38.8% (2008: 36,117; 2022: 22,110; Figure 1).

* Between 2021 and 2022, the number of births to Asian/Pacific Islander non-Hispanic, Black non-Hispanic, and Hispanic birthing people increased: Asian/Pacific Islander Non-Hispanic by 2.9%, Black non-Hispanic by 5.5%, and Hispanic by 4.9%. The number of births to American Indian/Alaska Native Non-Hispanic and White Non-Hispanic birthing people decreased: American Indian/Alaska Native Non-Hispanic by 11.2% and White Non-Hispanic by 5.2% (Table 1).
* In 2022, the Massachusetts teen birth rate decreased slightly (2021: 5.8; 2022: 5.7), continuing a long-term trend. The teen birth rate was 17.1 births per 1,000 females aged 15-19 in 2010, while in 2022 the rate was 5.7 births per 1,000 females aged 15-19 (Table 1). Between 2013 and 2022, the teen birth rate decreased for all racial and ethnic groups. Despite this decrease, the Hispanic teen birth rate remained ten times higher, and the Black Non-Hispanic teen birth rate remained almost five times higher than the White Non-Hispanic teen birth rate (Table 5, Figure 2).
* In 2022, 33.1% of births were cesarean deliveries (Table 1). Across all racial/ethnic groups, Black non-Hispanic birthing people had the highest percentage of cesarean deliveries (36.1%), while American Indian/Alaska Native non-Hispanic birthing people had the lowest rate (30.4%; Table 2).
* From 2021 to 2022, the rate of births to people affected by gestational diabetes decreased from 8.5% to 8.3%, marking the first decline in percentage in 6 years. However, the number of births affected by gestational diabetes has increased by 49.6% since 2013 (2013: 3,784; 2022: 5,660; Table 1).
* From 2021 to 2022, the percentage of births to people who received adequate prenatal care decreased from 78.5% to 76.7% (Table 1, Figure 3). In 2022, the percentage of births with adequate prenatal care was over 10% higher among those with private insurance (82.9%) than public insurance (69.8%; Table 16). The percentage of births to people whose prenatal care was covered through public insurance increased from 36.7% in 2021 to 38.9% in 2022 (Table 1).
* The percentage of multiple births in 2022 was the same as the percentage of multiple births in 2021 at 3.4% due to the slight increase in number of multiple births between 2021 and 2022 (2021: 2,322; 2022: 2,335; Table 4).
* While the overall percentage of birthing people who reported smoking during pregnancy was 2.3% in 2022 (down from 3.7% in 2020), the rate of American Indian/Alaska Native non-Hispanic birthing people who smoked was more than three times higher than any other races/ethnicities, except for White non-Hispanic birthing people whose percentage increased from 2.0% to 3.0%. Between 2021 and 2022, the percentage of birthing people who reported smoking during pregnancy decreased for American Indian/Alaska Native non-Hispanic from 14.6% to 8.3%, Black non-Hispanic from 3.6% to 1.6%, and Hispanic from 2.0% to 1.4% (Figure 11).
* In Massachusetts, the number of birthing people who used fertility treatment in 2022 increased to 4,454 from 3,991 in 2021. The percentage of birthing people who used assisted reproductive technology (ART) among those who used infertility treatment increased to 76.0% from 72.9% in 2021. The percentage of birthing people who used ART fertility treatment was much higher among White non-Hispanic birthing people (at 75.4%) than among American Indian/Alaska Native non-Hispanic, Asian/ Pacific Islander non-Hispanic, Black non-Hispanic, and Hispanic birthing people, at 0.2%, 14.2%, 3.4%, and 6.4%, respectively (Table 21).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 1. Trends in Birth Characteristics, Massachusetts: 1970, 1980, 1990, 2000, 2010, 2012-2022**  . | | | | | | | | | | | | | | | | | |
| **Characteristic** |  | **1970** | **1980** | **1990** | **2000** | **2010** | **2012** | **2013** | **2014** | **2015** | **2016** | **2017** | **2018** | **2019** | **2020** | **2021** | **2022** |
| **Births1** | **n2** | 93.579 | 72,591 | 92,461 | 81,582 | 72,835 | 72,457 | 71,618 | 71,867 | 71,484 | 71,319 | 70,704 | 69,098 | 69,117 | 66,442 | 69,127 | 68,579 |
|  | **Rate3** | --12 | 53.4 | 62.1 | 57.1 | 53.7 | 53.3 | 52.5 | 52.1 | 52 | 52 | 51.2 | 48.8 | 48.9 | 47.1 | 48.6 | 48.2 |
| **Race of Birthing Person** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **American Indian/ Alaska** | **n** | 120 | 100 | 140 | 284 | 244 | 253 | 241 | 237 | 213 | 284 | 247 | 224 | 233 | 198 | 331 | 294 |
| **Native Non-Hispanic** | **%4** | 0.1 | 0.1 | 0.2 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.5 | 0.4 |
| **Asian/ Pacific Islander** | **n** | 317 | 964 | 3,349 | 4,667 | 5,817 | 6,530 | 6,220 | 6,426 | 6,473 | 6,647 | 6,338 | 6,411 | 6,457 | 6,061 | 6,075 | 6,253 |
| **Non-Hispanic** | **%4** | 0.4 | 1.3 | 3.6 | 5.7 | 8.0 | 9.0 | 8.7 | 8.9 | 9.1 | 9.3 | 9 | 9.3 | 9.3 | 9.1 | 8.8 | 9.1 |
| **Black Non-Hispanic** | **n** | 4,240 | 4,626 | 7,158 | 5,755 | 6,794 | 6,892 | 7,016 | 7,071 | 6,949 | 7,095 | 7,251 | 7,142 | 7,181 | 6,904 | 7,011 | 7,399 |
|  | **%4** | 4.7 | 6.4 | 7.7 | 7.1 | 9.3 | 9.5 | 9.8 | 9.8 | 9.7 | 9.9 | 10.3 | 10.3 | 10.4 | 10.4 | 10.1 | 10.8 |
| **Hispanic** | **n** | 225 | 1,984 | 8,406 | 9,247 | 10,588 | 13,088 | 12,315 | 12,670 | 12,927 | 13,100 | 13,516 | 13,748 | 14,067 | 13,957 | 14,456 | 15,170 |
|  | **%4** | 0.3 | 2.8 | 9.1 | 11.3 | 14.5 | 18.1 | 17.2 | 17.6 | 18.1 | 18.4 | 19.1 | 19.9 | 20.4 | 21.0 | 20.9 | 22.1 |
| **White Non-Hispanic** | **n** | 85,161 | 66,220 | 72,483 | 60,051 | 48,466 | 45,032 | 44,432 | 44,128 | 43,255 | 42,448 | 40,989 | 39,956 | 39,461 | 37,651 | 39,900 | 37,820 |
|  | **%4** | 94.4 | 91.2 | 78.4 | 73.6 | 66.5 | 62.1 | 62.0 | 61.4 | 60.5 | 59.5 | 58 | 57.8 | 57.1 | 56.7 | 57.7 | 55.1 |
| **Teen Births** | **n** | 10,176 | 7,694 | 7,258 | 5,305 | 3,907 | 3,219 | 2,732 | 2,402 | 2,140 | 1,931 | 1,827 | 1,639 | 1,538 | 1,353 | 1,308 | 1,302 |
| **(Ages 15-19)** | **Rate3** | --12 | 28.1 | 35.4 | 25.9 | 17.1 | 14.0 | 12.0 | 10.6 | 9.4 | 8.5 | 8.1 | 7.1 | 7.1 | 5.9 | 5.8 | 5.7 |
| **Births to Unmarried** | **n** | 6,178 | 11,356 | 22,837 | 21,621 | 25,220 | 24,900 | 24,014 | 23,853 | 23,913 | 23,566 | 23,309 | 22,467 | 22,386 | 21,757 | 22,392 | 22,298 |
|  | **%** | 7.2 | 15.6 | 24.7 | 26.5 | 34.6 | 34.5 | 33.7 | 33.3 | 33.6 | 33.2 | 33.1 | 32.6 | 32.5 | 33.0 | 32.7 | 32.8 |
| **Cesarean Deliveries** | **n** | --12 | --12 | 20,615 | 19,086 | 24,244 | 22,900 | 22,508 | 22,691 | 22,431 | 22,302 | 22,290 | 21,710 | 21,656 | 21,466 | 21,964 | 22,650 |
|  | **%** | --12 | --12 | 22.3 | 23.4 | 33.3 | 31.7 | 31.5 | 31.6 | 31.4 | 31.3 | 31.6 | 31.5 | 31.4 | 32.4 | 31.8 | 33.1 |
| **Gestational Diabetes5** | **n** | --12 | --12 | --12 | 2,245 | 3,368 | 4,070 | 3,784 | 3,867 | 4,287 | 4,005 | 4,575 | 4,812 | 4,885 | 5,219 | 5,889 | 5,660 |
|  | **%** | --12 | --12 | --12 | 2.8 | 4.7 | 5.6 | 5.3 | 5.4 | 6 | 5.6 | 6.5 | 7.0 | 7.1 | 7.9 | 8.5 | 8.3 |
| **Low Birthweight6** | **n** | 6,941 | 4,413 | 5,388 | 5,711 | 5,650 | 5,491 | 5,495 | 5,394 | 5,321 | 5,341 | 5,261 | 5,243 | 5,273 | 4,897 | 5,176 | 5,369 |
|  | **%** | 7.4 | 6.1 | 5.8 | 7.1 | 7.8 | 7.6 | 7.7 | 7.5 | 7.5 | 7.5 | 7.5 | 7.6 | 7.7 | 7.4 | 7.5 | 7.9 |
| **Preterm7** | **n** | --12 | 4,998 | 5,899 | 6,582 | 6,234 | 6,107 | 6,300 | 6,161 | 6,001 | 6,167 | 6,272 | 6,167 | 6,200 | 5,814 | 6,198 | 6,243 |
|  | **%** | --12 | 6.9 | 6.5 | 8.3 | 8.6 | 8.6 | 8.8 | 8.6 | 8.4 | 8.7 | 8.9 | 8.9 | 9.0 | 8.8 | 9.0 | 9.1 |
| **Late Preterm8** | **n** | --12 | 3,343 | 3,977 | 4,509 | 4,361 | 4,422 | 4,518 | 4,394 | 4,305 | 4,492 | 4,680 | 4,489 | 4,570 | 4,304 | 4,619 | 4,693 |
|  | **%** | --12 | 4.6 | 4.4 | 5.7 | 6.0 | 6.2 | 6.3 | 6.1 | 6 | 6.3 | 6.6 | 6.5 | 6.6 | 6.5 | 6.7 | 6.9 |
| **Prenatal Care** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Public Pay Prenatal Care**9** | **%** | --12 | --12 | 25.1 | 26.5 | 35.8 | 39.7 | 38.9 | 42.9 | 38.3 | 38.6 | 39.2 | 38.5 | 38.1 | 39.0 | 36.7 | 38.9 |
| APNCU Index**10** | **%** | --10 | --10 | --10 | 83.3 | 84.9 | 83.4 | 83.7 | 82.6 | 81.8 | 82.1 | 80.6 | 76.1 | 81.6 | 76.6 | 78.5 | 76.7 |
| Adjusted APNCU Index**10** | **%** | --10 | --10 | --10 | --10 | --11 | 85.4 | 71,618 | 71,867 | 71,484 | 71,319 | 70,704 | 69,098 | 69,117 | 66,442 | 69,127 | 68,579 |
| **NOTE:** Unless otherwise stated, all percentages are calculated based on only those births with known values for the characteristic(s) of interest. 1. Births presented in all tables are resident live births unless otherwise specified.  2. Differences in the numbers of births from previous publications are the result of updated files. 3. Birth rates represent the total number of births to females ages 15-44 years per 1,000 females ages 15-44; teen birth rates refer to the number of births per 1,000 females ages 15-19. We provided population data for computing 2008 birth rates at the state level. The US Census Bureau provided population data for computing 2008 birth rates at the state level. See the “Population Denominators” section of the “Technical Notes” for further information. 4. Percentages are calculated based on births, including those to birthing people of unknown race. 5. Gestational diabetes is defined as glucose intolerance found during pregnancy for the first time. It excludes cases with pre-existing diabetes. 6. Low birthweight: less than 2,500 grams or 5.5 pounds. 7. Preterm: <37 weeks gestation. 8. Late preterm: 34-36 weeks gestation. 9. Government programs including Commonwealth, Healthy Start, Medicaid/MassHealth, and Medicare (may also be HMO or managed care), or free care; other: Worker's Compensation and other sources. 10. Beginning with births in 2001, the APNCU Index replaced the Kessner Index as the standard measurement of adequacy of prenatal care (see Technical Notes for more information). 11. As of 2020, all hospitals reported prenatal care, and the adjusted index became equivalent to the unadjusted index. 12. Data not available. | | | | | | | | | | | | | | | | | |

## Table 2. Birth Characteristics by Race/Hispanic Ethnicity and Birthplace of Birthing Person, Massachusetts: 2022

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Race and Hispanic Births Ethnicity (by**  **birthing person’s**  **birthplace) n %1** | **Teen Births**  **Ages 15-17 Ages 15-19 n % n %** | **Birthweight Very Low2 Low3**  **n % n %** | **Prenatal Care Adequate4 1st Trimester**  **n % n %** | **Cesarean Deliveries**  **n %** | **Breastfeeding5**  **n %** |

**State Total**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **68,579** | **100.0** | **283** | **0.4** | **1,302** | **1.9** | **741** | **1.1** | **5,369** | **7.9** | **51,888** | **76.7** | **52,774** | **78.0** | **22,650** | **33.1** | **59,478** | **88.8** |
| 44,929 | 65.5 | 179 | 0.4 | 804 | 1.8 | 440 | 1.0 | 3,455 | 7.7 | 35,883 | 81.0 | 36,734 | 82.8 | 14,483 | 32.3 | 38,029 | 87.2 |
| 1,460 | 2.1 | 16 | 1.1 | 78 | 5.3 | 31 | 2.1 | 159 | 10.9 | 1,088 | 75.3 | 1,080 | 74.6 | 487 | 33.4 | 1,237 | 85.9 |
| 22,165 | 32.3 | 88 | 0.4 | 419 | 1.9 | 265 | 1.2 | 1,748 | 7.9 | 14,913 | 68.3 | 14,953 | 68.4 | 7,672 | 34.6 | 20,203 | 92.1 |

US inc. DC US Territories7 Non-US-born8

**American Indian/ Alaska Native Non-**

**Hispanic9 294 0.4 --6 --6 11 3.7 --6 --6**

US inc. DC 284 96.6 --6 --6 11 3.9 --6 --6

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| US Territories7 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Non-US-born8  **Asian/ Pacific Islander** | 8 | 2.7 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 7 | 87.5 | 7 | 87.5 |

0 0.0 0

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **21** | **7.2** | **220** | **75.9** | **220** | **75.9** | **89** | **30.4** | **248** | **85.8** |
| 21 | 7.4 | 213 | 75.8 | 213 | 75.8 | 86 | 30.4 | 240 | 85.4 |

0.0

--6 --6 8 100.0

|  |  |
| --- | --- |
| **6,253** | **9.1** |
| --6 | --6 |
| --6 | --6 |
| 4,686 | 74.9 |

**Non-Hispanic**

US inc. DC US Territories7 Non-US-born8

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **5** | **0.1** | **22** | **0.4** | **52** | **0.8** | **550** | **8.8** | **4,744** | **76.9** | **4,994** | **80.8** | **1,937** | **31.0** | **5,698** | **92.1** |
| 5 | 0.3 | 19 | 1.2 | 14 | 0.9 | 119 | 7.6 | 1,238 | 80.7 | 1,303 | 84.7 | 459 | 29.4 | 1,402 | 90.7 |

0 0.0 0 0.0 0 0.0 0 0.0 --6 --6 --6 --6 --6 --6 --6 --6

0 0.0 --6 --6

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 38 | 0.8 | 431 | 9.2 | 3,504 | 75.6 | 3,689 | 79.5 | 1,476 | 31.5 | 4,292 | 92.5 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Black Non-Hispanic** | **7,399** | **10.8** | **41** | **0.6** | **176** | **2.4** | **175** | **2.4** | **881** | **11.9** | **4,827** | **66.6** | **4,673** | **64.4** | **2,669** | **36.1** | **6,611** | **90.7** |
| US inc. DC | 3,095 | 41.8 | 26 | 0.8 | 123 | 4.0 | 75 | 2.4 | 432 | 14.0 | 2,168 | 71.3 | 2,207 | 72.5 | 1,031 | 33.3 | 2,641 | 87.0 |

US Territories7 8 0.1 --6 --6 --6 --6 0 0.0 0 0.0 --6 --6 7 87.5 --6 --6 7 100.0

Non-US-born8

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4,294 | 58.0 | 14 | 0.3 | 51 | 1.2 | 99 | 2.3 | 448 | 10.4 | 2,654 | 63.2 | 2,458 | 58.5 | 1,636 | 38.1 | 3,962 | 93.2 |
| **15,170** | **22.1** | **175** | **1.2** | **738** | **4.9** | **199** | **1.3** | **1,246** | **8.2** | **10,385** | **69.2** | **10,504** | **69.9** | **4,991** | **32.9** | **13,243** | **87.5** |
| 5,578 | 36.8 | 94 | 1.7 | 363 | 6.5 | 82 | 1.5 | 539 | 9.7 | 4,051 | 73.3 | 4,185 | 75.6 | 1,705 | 30.6 | 4,648 | 83.5 |
| 1,408 | 9.3 | 15 | 1.1 | 74 | 5.3 | 30 | 2.1 | 153 | 10.9 | 1,055 | 75.5 | 1,046 | 74.7 | 467 | 33.2 | 1,203 | 85.7 |
| 8,183 | 53.9 | 66 | 0.8 | 301 | 3.7 | 86 | 1.1 | 553 | 6.8 | 5,278 | 65.4 | 5,272 | 65.2 | 2,819 | 34.5 | 7,392 | 90.6 |
| **37,820** | **55.1** | **54** | **0.1** | **319** | **0.8** | **291** | **0.8** | **2,534** | **6.7** | **30,692** | **82.0** | **31,339** | **83.6** | **12,444** | **32.9** | **32,446** | **88.5** |
| 33,664 | 89.0 | 50 | 0.1 | 274 | 0.8 | 260 | 0.8 | 2,279 | 6.8 | 27,751 | 83.3 | 28,330 | 84.9 | 10,994 | 32.7 | 28,607 | 87.7 |

**Hispanic**

US inc. DC US Territories7 Non-US-born8

**White Non-Hispanic**

US inc. DC

|  |  |  |
| --- | --- | --- |
| US Territories7 | 23 | 0.1 |
| Non-US-born8 | 4,129 | 10.9 |
| **Other Non-Hispanic10** | **556** | **0.8** |

--6 --6

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | 0.0 | 0 | 0.0 | 14 | 70.0 | 14 | 70.0 | 11 | 47.8 | 14 | 93.3 |

|  |  |
| --- | --- |
| 0 | 0.0 |
| --6 | --6 |
| **--6** | **--6** |
| --6 | --6 |
| 0 | 0.0 |
| --6 | --6 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 43 | 1.0 | 31 | 0.8 | 253 | 6.1 | 2,927 | 71.8 | 2,994 | 73.4 | 1,436 | 34.8 | 3,823 | 94.2 |
| **18** | **3.2** | **10** | **1.8** | **55** | **9.9** | **368** | **68.0** | **353** | **64.7** | **197** | **35.5** | **446** | **92.0** |

5 5.0 --6 --6

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| --6 | --6 | --6 | --6 | --6 | --6 5 0.0 --6 --6 |
| 12 | 2.7 | 6 | 1.3 | 35 | 7.8 290 66.4 270 61.4 |

|  |  |  |
| --- | --- | --- |
| US inc. DC | 101 | 18.2 |
| US Territories7 | 6 | 1.1 |
| Non-US-born8 | 449 | 80.8 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | 15.8 | 73 | 73.7 | 80 | 79.2 | 35 | 35.0 | 62 | 81.6 |

--6 --6 0 0.0

161 35.9 384 93.9

**NOTE:** Unless otherwise stated, all percentages are calculated based on only those births with known values for the characteristic(s) of interest.

1. In the column “Births %,” the percentages of the race/Hispanic groups (bolded) are based on the state total (including births of unknown race/ethnicity), and the birthplace percentage for the race/ethnicities are based on the total number in race/Hispanic ethnicity category. For all other categories, percentages are based on row totals. 2. Very low birthweight: less than 1,500 grams or 3.3 pounds. 3. Low birthweight: less than 2,500 grams or 5.5 pounds. 4. Based on the Adequacy of Prenatal Care Utilization (APNCU) Index. 5. The infant was breastfed during the hospital stay.6. Calculations based on 1-4 events are excluded. 7. The category “US Territories” includes females born in Puerto Rico, the US Virgin Islands, and Guam. Approximately 95% of the births in this category were to females born in Puerto Rico. 8. The category “Non-US-born” includes females born outside of the 50 US states, the District of Columbia, and the US territories. 9. Birthing people who selected American Indian/Alaska Native as their race. 10. Birthing people who indicated “Other” as their race.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 3. Birth Characteristics by Ancestry of Birthing Person, Massachusetts: 2022** | | | | | | | | | | | | | | | | | | | | |
| **Ancestry** | **Births1** | | **Teen Births** | | | | **Low Birthweight2** | | **Prenatal Care** | | | | **Late Preterm4** | | **Cesarean Section** | | **Breast- feeding5** | | **Gestational Diabetes6** | |
|  | | **< 18 Years** | | **< 20 Years** | | **Adequate3** | | **1st Trimester** | |
|  | **N** | **%** | **N** | **%** | **N** | **%** | **N** | **%** | **N** | **%** | **N** | **%** | **N** | **%** | **N** | **%** | **N** | **%** | **N** | **%** |
| State Total | 68,579 | 100.0 | 283 | 0.4 | 1,302 | 1.9 | 5,369 | 7.9 | 51,888 | 76.7 | 52,774 | 78.0 | 4,693 | 6.9 | 22,650 | 33.1 | 59,478 | 88.8 | 5,660 | 8.3 |
| American | 30,527 | 44.5 | 87 | 0.3 | 373 | 1.2 | 2,116 | 6.9 | 25,028 | 82.7 | 25,601 | 84.5 | 2,074 | 6.8 | 9,873 | 32.3 | 26,558 | 87.1 | 2,247 | 7.4 |
| European | 8,837 | 12.9 | --7 | --7 | 35 | 0.4 | 529 | 6.0 | 7,060 | 80.8 | 7,377 | 84.4 | 528 | 6.0 | 2,907 | 32.9 | 8,122 | 92.0 | 616 | 7.0 |
| Puerto Rican | 4,314 | 6.3 | 72 | 1.7 | 300 | 7.0 | 452 | 10.5 | 3,211 | 75.0 | 3,177 | 74.1 | 354 | 8.2 | 1,399 | 32.4 | 3,494 | 81.2 | 407 | 9.4 |
| African American | 3,433 | 5.0 | 26 | 0.8 | 130 | 3.8 | 264 | 7.7 | 2,272 | 66.9 | 2,470 | 72.6 | 206 | 6.0 | 1,313 | 38.2 | 3,011 | 88.0 | 296 | 8.6 |
| Dominican | 3,328 | 4.9 | 35 | 1.1 | 133 | 4.0 | 458 | 13.8 | 2,308 | 70.6 | 2,352 | 71.8 | 292 | 8.8 | 1,131 | 34.0 | 2,852 | 86.1 | 241 | 7.2 |
| Brazilian | 3,221 | 4.7 | 23 | 0.7 | 120 | 3.7 | 214 | 6.6 | 2,153 | 68.0 | 2,040 | 64.3 | 201 | 6.2 | 1,359 | 42.2 | 3,027 | 94.2 | 209 | 6.5 |
| Portuguese | 1,920 | 2.8 | --7 | --7 | 5 | 0.3 | 223 | 11.6 | 1,504 | 79.4 | 1,554 | 81.9 | 150 | 7.8 | 714 | 37.2 | 1,801 | 94.9 | 324 | 16.9 |
| Asian Indian | 1,899 | 2.8 | 6 | 0.3 | 21 | 1.1 | 223 | 11.8 | 1,013 | 54.4 | 935 | 50.2 | 143 | 7.5 | 709 | 37.3 | 1,749 | 92.2 | 145 | 7.6 |
| African | 1,859 | 2.7 | 10 | 0.5 | 50 | 2.7 | 138 | 7.4 | 1,527 | 82.9 | 1,445 | 78.4 | 120 | 6.5 | 609 | 32.8 | 1,453 | 78.3 | 161 | 8.7 |
| Chinese | 1,789 | 2.6 | --7 | --7 | 11 | 0.6 | 154 | 8.6 | 1,226 | 70.2 | 1,207 | 68.9 | 104 | 5.8 | 689 | 38.5 | 1,667 | 93.6 | 164 | 9.2 |
| Haitian | 1,695 | 2.5 | --7 | --7 | --7 | --7 | 103 | 6.1 | 1,274 | 75.8 | 1,436 | 85.4 | 112 | 6.6 | 421 | 24.9 | 1,552 | 92.5 | 221 | 13.0 |
| Cape Verdean | 1,420 | 2.1 | 33 | 2.3 | 112 | 7.9 | 98 | 6.9 | 920 | 65.3 | 899 | 63.8 | 90 | 6.3 | 364 | 25.6 | 1,184 | 83.4 | 126 | 8.9 |
| Other | 1,341 | 2.0 | 16 | 1.2 | 63 | 4.7 | 130 | 9.7 | 914 | 68.8 | 885 | 66.6 | 76 | 5.7 | 406 | 30.3 | 1,213 | 90.6 | 92 | 6.9 |
| Guatemalan | 1,270 | 1.9 | 16 | 1.3 | 56 | 4.4 | 90 | 7.1 | 779 | 62.2 | 759 | 60.5 | 74 | 5.8 | 316 | 24.9 | 1,150 | 90.9 | 112 | 8.8 |
| Salvadoran | 1,266 | 1.8 | --7 | --7 | 15 | 1.2 | 85 | 6.7 | 955 | 76.7 | 976 | 78.4 | 82 | 6.5 | 411 | 32.5 | 1,151 | 91.1 | 112 | 8.8 |
| Middle Eastern | 1,171 | 1.7 | --7 | --7 | 6 | 0.5 | 96 | 8.2 | 832 | 72.0 | 877 | 75.9 | 88 | 7.5 | 419 | 35.8 | 1,076 | 92.0 | 116 | 9.9 |
| Missing | 1,133 | 1.7 | --7 | --7 | 15 | 1.3 | 94 | 8.3 | 808 | 73.7 | 859 | 78.2 | 77 | 6.8 | 381 | 33.6 | 939 | 83.3 | 92 | 8.1 |
| Other South American | 691 | 1.0 | --7 | --7 | 24 | 3.5 | 35 | 5.1 | 494 | 72.8 | 459 | 67.5 | 44 | 6.4 | 190 | 27.5 | 655 | 94.9 | 32 | 4.6 |
| Russian | 576 | 0.8 | --7 | --7 | 5 | 0.9 | 30 | 5.2 | 434 | 76.3 | 443 | 77.9 | 32 | 5.6 | 177 | 30.7 | 538 | 93.6 | 41 | 7.1 |
| Mexican | 560 | 0.8 | --7 | --7 | --7 | --7 | 46 | 8.2 | 413 | 75.0 | 417 | 75.1 | 33 | 5.9 | 151 | 27.0 | 493 | 88.8 | 94 | 16.8 |
| Vietnamese | 557 | 0.8 | --7 | --7 | 15 | 2.7 | 63 | 11.4 | 398 | 72.2 | 388 | 70.3 | 55 | 9.9 | 188 | 33.8 | 514 | 92.3 | 44 | 7.9 |
| West Island Caribbean | 553 | 0.8 | --7 | --7 | 16 | 2.9 | 33 | 6.0 | 390 | 72.1 | 404 | 74.7 | 39 | 7.1 | 156 | 28.2 | 510 | 92.6 | 40 | 7.2 |
| Cambodian | 543 | 0.8 | 6 | 1.1 | 18 | 3.3 | 44 | 8.1 | 330 | 61.6 | 336 | 62.5 | 41 | 7.6 | 142 | 26.2 | 486 | 90.0 | 49 | 9.0 |
| Honduran | 528 | 0.8 | 0 | 0.0 | 6 | 1.1 | 27 | 5.1 | 341 | 65.2 | 370 | 70.7 | 29 | 5.5 | 162 | 30.7 | 496 | 93.9 | 40 | 7.6 |
| Colombian | 463 | 0.7 | --7 | --7 | 17 | 3.7 | 56 | 12.1 | 350 | 79.0 | 346 | 78.1 | 50 | 10.8 | 124 | 26.8 | 339 | 73.4 | 66 | 14.3 |
| Korean | 314 | 0.5 | 0 | 0.0 | 0 | 0.0 | 13 | 4.1 | 230 | 73.7 | 256 | 81.8 | 12 | 3.8 | 100 | 31.8 | 295 | 94.9 | 29 | 9.2 |
| Native American | 294 | 0.4 | 0 | 0.0 | 8 | 2.7 | 21 | 7.1 | 218 | 75.7 | 216 | 75.0 | 23 | 7.8 | 87 | 29.6 | 253 | 87.2 | 15 | 5.1 |
| **NOTE:** Unless otherwise stated, all percentages are calculated based on only those births with known values for the characteristic(s) of interest. Birthing people may select more than one ancestry group therefore, totals of all ancestries are greater than the number of births. Since 2009, certain ancestry groups have been combined: Lebanese, Iranian, Israeli, and Other Middle Eastern ancestries were combined into “Middle Eastern,” and Nigerian and Other Africans were combined into “African.” 1. In the “Births” column, percentages are based on the other column total (state total of births, including births for which ethnicity of birthing person is unknown and others for which the ethnicity of the birthing person is unknown). For all other categories, percentages are based on row totals. 2. Low birthweight: less than 2,500 grams or 5.5 pounds. 3. Based on Adequacy of Prenatal Care Utilization (APNCU) Index. 4. Late preterm: 34-36 weeks gestation. 5. The infant was breastfed during the hospital stay. 6. Gestational diabetes is defined as glucose intolerance found during pregnancy for the first time. It excludes cases with pre-existing diabetes. 7. Calculations based on 1-4 events are excluded. | | | | | | | | | | | | | | | | | | | | |

## Figure 1. Trends in the Number of Births by Birthing Person’s Age Group, Massachusetts: 1970-2022

80,000

70,000

Ages < 30

Ages 30+



60,000

50,000

**Number of Births**

40,000

30,000

20,000

10,000

0

1970 1980 1990 2000 2010 2020

**Year**

## Table 4. Trends in Number and Percent Distribution of Births by Plurality Age of Birthing Person, Massachusetts: 2012-2022

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Singletons** | | | |  |  | **Multiples1** | |  |  | **Total births2** | |
| **Age Group** |  |  |  | **Twins** |  | **Triplets or more** | | **Total Multiples** | |  |  |
| **Year** | **n** | **%** | **n** | **%** | **n** | **%** | **n** | **%** | **n** | **%** |
| **All Ages** | |  |  |  |  |  |  |  |  |  |  |
|  | **2012** | 69,272 | 95.6 | 3,093 | 4.3 | 90 | 0.1 | 3,183 | 4.4 | 72,457 | 100.0 |
|  | **2013** | 68,363 | 95.5 | 3,164 | 4.4 | 91 | 0.1 | 3,255 | 4.5 | 71,618 | 100.0 |
|  | **2014** | 68,800 | 95.7 | 2,984 | 4.2 | 83 | 0.1 | 3,067 | 4.3 | 71,867 | 100.0 |
|  | **2015** | 68,756 | 96.2 | 2,671 | 3.7 | 57 | 0.1 | 2,728 | 3.8 | 71,484 | 100.0 |
|  | **2016** | 68,660 | 96.3 | 2,569 | 3.6 | 90 | 0.1 | 2,659 | 3.7 | 71,319 | 100.0 |
|  | **2017** | 68,134 | 96.4 | 2,523 | 3.6 | 47 | 0.1 | 2,570 | 3.6 | 70,704 | 100.0 |
|  | **2018** | 65,469 | 96.5 | 2,304 | 3.4 | 63 | 0.1 | 2,367 | 3.5 | 67,836 | 100.0 |
|  | **2019** | 66,699 | 96.5 | 2,349 | 3.4 | 68 | 0.1 | 2,417 | 3.5 | 69,117 | 100.0 |
|  | **2020** | 64,321 | 96.8 | 2,071 | 3.1 | 50 | 0.1 | 2,121 | 3.2 | 66,442 | 100.0 |
|  | **2021** | 66,805 | 96.6 | 2,269 | 3.3 | 53 | 0.1 | 2,322 | 3.4 | 69,127 | 100.0 |
|  | **2022** | 66,244 | 96.6 | 2,276 | 3.3 | 59 | 0.1 | 2,335 | 3.4 | 68,579 | 100.0 |
| **Ages <35** | |  |  |  |  |  |  |  |  |  |  |
|  | **2012** | 54,069 | 96.4 | 1,961 | 3.5 | 57 | 0.1 | 2,018 | 3.6 | 56,089 | 100.0 |
|  | **2013** | 52,995 | 96.2 | 2,025 | 3.7 | 54 | 0.1 | 2,079 | 3.8 | 55,074 | 100.0 |
|  | **2014** | 53,166 | 96.5 | 1,890 | 3.4 | 50 | 0.1 | 1,940 | 3.5 | 55,106 | 100.0 |
|  | **2015** | 52,640 | 96.9 | 1,665 | 3.1 | 45 | 0.1 | 1,710 | 3.1 | 54,350 | 100.0 |
|  | **2016** | 52,043 | 96.9 | 1,601 | 3.0 | 47 | 0.1 | 1,648 | 3.1 | 53,691 | 100.0 |
|  | **2017** | 51,258 | 96.8 | 1,653 | 3.1 | 18 | 0.0 | 1,671 | 3.2 | 52,929 | 100.0 |
|  | **2018** | 48,492 | 97.0 | 1,491 | 3.0 | 27 | 0.1 | 1,518 | 3.0 | 50,010 | 100.0 |
|  | **2019** | 48,856 | 97.0 | 1,446 | 2.9 | 47 | 0.1 | 1,493 | 3.0 | 50,350 | 100.0 |
|  | **2020** | 46,510 | 97.2 | 1,314 | 2.7 | 35 | 0.1 | 1,349 | 2.8 | 47,859 | 100.0 |
|  | **2021** | 47,753 | 97.0 | 1,423 | 2.9 | 38 | 0.1 | 1,461 | 3.0 | 49,214 | 100.0 |
|  | **2022** | 46,716 | 96.9 | 1,442 | 3.0 | 28 | 0.1 | 1,470 | 3.1 | 48,186 | 100.0 |
| **Ages 35+** | |  |  |  |  |  |  |  |  |  |  |
|  | **2012** | 15,202 | 92.9 | 1,132 | 6.9 | 33 | 0.2 | 1,165 | 7.1 | 16,367 | 100.0 |
|  | **2013** | 15,367 | 92.9 | 1,139 | 6.9 | 37 | 0.2 | 1,176 | 7.1 | 16,543 | 100.0 |
|  | **2014** | 15,634 | 93.3 | 1,094 | 6.5 | 33 | 0.2 | 1,127 | 6.7 | 16,761 | 100.0 |
|  | **2015** | 16,115 | 94.1 | 1,005 | 5.9 | 12 | 0.1 | 1,017 | 5.9 | 17,132 | 100.0 |
|  | **2016** | 16,617 | 94.3 | 968 | 5.5 | 43 | 0.2 | 1,011 | 5.7 | 17,628 | 100.0 |
|  | **2017** | 16,875 | 94.9 | 870 | 4.9 | 29 | 0.2 | 899 | 5.1 | 17,774 | 100.0 |
|  | **2018** | 16,976 | 95.2 | 813 | 4.6 | 36 | 0.2 | 849 | 4.8 | 17,825 | 100.0 |
|  | **2019** | 17,842 | 95.1 | 903 | 4.8 | 21 | 0.1 | 924 | 4.9 | 18,766 | 100.0 |
|  | **2020** | 17,809 | 95.8 | 757 | 4.1 | 15 | 0.1 | 772 | 4.2 | 18,581 | 100.0 |
|  | **2021** | 19,051 | 95.7 | 846 | 4.2 | 15 | 0.1 | 861 | 4.3 | 19,912 | 100.0 |
|  | **2022** | 19,527 | 95.8 | 834 | 4.1 | 31 | 0.2 | 865 | 4.2 | 20,392 | 100.0 |

## Table 5. Summary of Selected Teen Birth Characteristics, Massachusetts: 2022

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Ages 15-17** | | **Ages 18-19** | | **Combined Ages 15-19** | |
|  | **N** | **%1,2** | **N** | **%1,2** | **N** | **%1,2** |
| **State Total** | **283** | **21.7%** | **1019** | **78.3%** | **1302** | **100.0%** |
| American Indian/ Alaska Native Non-Hispanic | --6 | --6 | --6 | --6 | 11 | 0.9% |
| Asian/ Pacific Islander Non-Hispanic | 5 | 1.8% | 17 | 1.7% | 22 | 1.7% |
| Black Non-Hispanic | 41 | 14.7% | 135 | 13.4% | 176 | 13.7% |
| Hispanic | 175 | 62.9% | 563 | 56.0% | 738 | 57.5% |
| White Non-Hispanic | 54 | 19.4% | 265 | 26.3% | 319 | 24.8% |

**Birthplace**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| U.S. States/D.C. | 179 | 63.3% | 625 | 61.3% | 804 | 61.8% |
| Puerto Rico/U.S. Terr. | 16 | 5.7% | 62 | 6.1% | 78 | 6.0% |
| Non-U.S.-Born | 88 | 31.1% | 332 | 32.6% | 420 | 32.3% |

**Prenatal Care Funding**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Public | 239 | 88.5% | 833 | 84.7% | 1072 | 85.6% |
| Private, other | 31 | 11.5% | 150 | 15.3% | 181 | 14.4% |

**Pregnancy-Related Factors**

**Adequacy of Prenatal Care3**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Adequate Total**4** | 155 | 54.8% | 624 | 61.2% | 779 | 59.8% |
| Adequate Intensive | 59 | 20.8% | 253 | 24.8% | 312 | 24.0% |
| Adequate Basic | 96 | 33.9% | 371 | 36.4% | 467 | 35.9% |
| Intermediate | 37 | 13.1% | 107 | 10.5% | 144 | 11.1% |
| Inadequate/None | 86 | 30.4% | 274 | 26.9% | 360 | 27.6% |
| Unknown | 5 | 1.8% | 14 | 1.4% | 19 | 1.5% |

**Parity5**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | 268 | 94.7% | 891 | 87.5% | 1159 | 89.1% |
| 2 | 14 | 4.9% | 118 | 11.6% | 132 | 10.1% |
| 3+ | --6 | --6 | --6 | --6 | 10 | 0.8% |

**Smoking during Pregnancy**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Yes | --6 | --6 | --6 | --6 | 17 | 1.4% |
| No | 272 | 99.3% | 967 | 98.5% | 1239 | 98.6% |

**Birth Outcomes**

**Birthweight**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| < 500 g | 0 | 0.0% | 5 | 0.5% | 5 | 0.4% |
| 500-1,499 g | 5 | 1.8% | 15 | 1.5% | 20 | 1.5% |
| 1,500-2,499 g | 23 | 8.2% | 102 | 10.0% | 125 | 9.6% |
| **LBW (<2,499 g)** | 28 | 9.9% | 122 | 12.0% | 150 | 11.5% |
| 2,500-3,999 g | 244 | 86.5% | 861 | 84.6% | 1105 | 85.0% |
| 4000+ g | 10 | 3.5% | 35 | 3.4% | 45 | 3.5% |

**Gestational Age**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| < 28 weeks | --6 | --6 | --6 | --6 | 17 | 1.3% |
| **Preterm (< 37 weeks)** | 31 | 11.0% | 110 | 10.8% | 141 | 10.8% |
| 37-42 weeks | 251 | 89.0% | 908 | 89.2% | 1159 | 89.2% |

**Plurality**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Singleton | --6 | --6 | --6 | --6 | --6 | --6 |
| Multiple births | --6 | --6 | --6 | --6 | --6 | --6 |

**NOTE:** Unless otherwise stated, all percentages are calculated based on only those births with known values for the characteristic(s) of interest.

1. For the state total row, percentages are based on total births to females ages 15-19. For the rest of the table, percentages are based on births for a given age group and characteristics. 2. Percentages are based on the state total of the age group. 3. Based on the Adequacy of Prenatal Car Utilization (APNCU) Index. 4. Adequate Total = Adequate Basic + Adequate Intensive. 5. Number of live births, including the current birth.

1. Calculations based on 1-4 events are excluded.

## Table 6. Number and Teen Birth Rates by Race/Hispanic Ethnicity for Selected Communities, Massachusetts: 2022

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Municipality1** | **Teen Births** | | **Black Non-Hispanic** | | **Hispanic** | | **White Non-Hispanic** | |
|  | **N** | **Rate (95%CI)2,3** | **N** | **Rate (95%CI) 2,3** | **N** | **Rate (95%CI) 2,3** | **N** | **Rate (95%CI) 2,3** |
| **State Total** | **1,302** | **5.7 (5.4, 6)** | **176** | **10.5 (9, 12.1)** | **738** | **20.3 (18.8, 21.7)** | **319** | **2.3 (2.1, 2.6)** |
|  |  |  |  |  |  |  |  |  |
| Lynn | 72 | 23.2 (14.7, 33.5) | --4 | --4 | 59 | 36.4 (25.5, 49.1) | --4 | --4 |
| Southbridge | 17 | 30.3 (20.5, 42) | 0 | 0.0 | 8 | 28.8 (19.2, 40.2) | 8 | 34.4 (23.9, 46.9) |
| Milford | 19 | 24 (15.3, 34.5) | 0 | 0.0 | 16 | 120.8 (100.2,  143.3) | --4 | --4 |
| Holyoke | 27 | 22.9 (14.5, 33.2) | --4 | --4 | 24 | 29.5 (19.9, 41.1) | --4 | --4 |
| Chelsea | 26 | 22.2 (14, 32.4) | 0 | 0.0 | 25 | 27.1 (17.9, 38.2) | 0 | 0.0 |
| Springfield | 119 | 19.8 (16.2, 23.3) | 9 | 8.5 (3.8, 15.1) | 99 | 28.6 (19.1, 40) | 9 | 8.5 (3.8, 15.1) |
| Brockton | 59 | 17.9 (10.6, 27.1) | 34 | 24.8 (16, 35.4) | 19 | 45.7 (33.4, 59.8) | --4 | --4 |
| Fall River | 46 | 17.7 (10.5, 26.9) | 10 | 57.6 (43.7, 73.4) | 14 | 25.9 (16.9, 36.8) | 20 | 13.4 (7.2, 21.5) |
| New Bedford | 53 | 17.7 (10.5, 26.9) | 10 | 47.2 (34.7, 61.6) | 37 | 36.8 (25.9, 49.6) | --4 | --4 |
| Lawrence | 55 | 17.4 (10.2, 26.4) | 0 | 0.0 | 52 | 18.4 (10.9, 27.7) | --4 | --4 |
| Marlborough | 16 | 16.3 (9.4, 25.1) | 0 | 0.0 | 13 | 55.2 (41.6, 70.7) | --4 | --4 |
| Framingham | 31 | 12.8 (6.8, 20.7) | --4 | --4 | 18 | 37.8 (26.7, 50.7) | 6 | 4.2 (1.2, 9) |
| Pittsfield | 15 | 12.5 (6.6, 20.3) | 6 | 41.4 (29.7, 54.9) | --4 | --4 | 7 | 9.9 (4.8, 17) |
| Leominster | 15 | 12.4 (6.5, 20.2) | --4 | --4 | 10 | 29.5 (19.8, 41.1) | --4 | --4 |
| Lowell | 45 | 12 (6.2, 19.7) | --4 | --4 | 16 | 15.6 (8.9, 24.3) | 16 | 13.1 (7, 21.1) |
| Fitchburg | 18 | 11.9 (6.1, 19.6) | --4 | --4 | 12 | 23.9 (15.3, 34.4) | --4 | --4 |
| Haverhill | 20 | 11.5 (5.9, 19.1) | 0 | 0.0 | 11 | 20.2 (12.4, 29.9) | 7 | 7.3 (3, 13.4) |
| Chicopee | 18 | 11.5 (5.8, 19) | 0 | 0.0 | 15 | 28 (18.6, 39.2) | --4 | --4 |
| Everett | 16 | 11.2 (5.6, 18.7) | --4 | --4 | 13 | 25.3 (16.4, 36) | 0 | 0.0 |
| Taunton | 18 | 11 (5.5, 18.4) | 8 | 55 (41.4, 70.4) | 5 | 19.8 (12.1, 29.5) | --4 | --4 |
| Worcester | 73 | 9.5 (4.4, 16.4) | 9 | 8.1 (3.5, 14.6) | 48 | 19.9 (12.2, 29.6) | 15 | 4.6 (1.4, 9.7) |
| Malden | 13 | 8.7 (3.9, 15.3) | --4 | --4 | 6 | 28.4 (19, 39.8) | --4 | --4 |
| Revere | 15 | 8.5 (3.8, 15.1) | 0 | 0.0 | 12 | 14.5 (8, 22.8) | --4 | --4 |
| Methuen | 12 | 7.3 (3, 13.5) | 0 | 0.0 | 10 | 14.9 (8.3, 23.3) | --4 | --4 |
| Boston | 132 | 5.4 (4.5, 6.3) | 44 | 9.7 (4.6, 16.7) | 74 | 16 (9.2, 24.8) | --4 | --4 |

**NOTE**: The total number of Asian/ Pacific Islander non-Hispanic teen births in MA in 2022 was 22 for a rate of 1.2/1,000, significantly lower than the state rate of 5.7. Lowell had the most significant number Asian/ Pacific Islander non-Hispanic teen births at nine births (rate: 10.3). The Asian/ Pacific Islander non-Hispanic teen birth rate in this community was higher in the state. The total number of American Indian/ Alaska Native Non-Hispanic teen births was 11 for a rate of 38.3/1,000, which was higher than the state.

1. Selected communities include the 25 Massachusetts cities and towns with the greatest number of teen births. 2. Rates are per 1,000 females ages 15-19 per city/town. 3. Birth rates for cities and towns were calculated using the Massachusetts Department of Public Health Race Allocated Census 2010 Estimates file (MRACE 2010), the most up-to-date information available on the number of persons by age, race, and sex at the sub-state level. **If the population in your community increased from 2010 to 2019, the rates listed may overestimate the actual rate. If the population in your community declined from 2010 to 2019, the rates given in the publication may underestimate the actual rate.** 4. Counts and rates based on counts of 1-4 births are excluded.

## Table 7. Trends in Teen Birth Rates for Selected Communities, Ranked by 2022 Teen Birth Rate, Massachusetts: 2013, 2020, and 2022

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **2022 Rank** | **Municipality1** | **2013** | | **2020** | | **2022** | |
| **# Births 15-19** | **Birth Rate2** | **# Births 15-19** | **Birth Rate 2,3** | **# Births 15-19** | **Birth Rate 2,3** |
|  | **State Total** | **2,732** | **11.8** | **1,308** | **5.8** | **1,302** | **5.7** |
| 1 | Lynn | 106 | 34.0 | 83 | 26.7 | 72 | 23.2 |
| 2 | Southbridge | 25 | 44.8 | 10 | 17.8 | 17 | 30.3 |
| 3 | Milford | 10 | 12.7 | 20 | 25.2 | 19 | 24 |
| 4 | Holyoke | 70 | 48.1 | 29 | 24.6 | 27 | 22.9 |
| 5 | Chelsea | 55 | 48.9 | 31 | 26.5 | 26 | 22.2 |
| 6 | Springfield | 289 | 43.6 | 131 | 21.8 | 119 | 19.8 |
| 7 | Brockton | 96 | 29.6 | 57 | 17.3 | 59 | 17.9 |
| 8 | Fall River | 89 | 33.9 | 46 | 17.7 | 46 | 17.7 |
| 9 | New Bedford | 126 | 43.0 | 54 | 18.1 | 53 | 17.7 |
| 10 | Lawrence | 139 | 43.5 | 73 | 23.0 | 55 | 17.4 |
| 11 | Marlborough | 22 | 20.3 | 9 | 9.2 | 16 | 16.3 |
| 12 | Framingham | 32 | 12.9 | 16 | 6.6 | 31 | 12.8 |
| 13 | Pittsfield | 37 | 28.7 | 19 | 15.8 | 15 | 12.5 |
| 14 | Leominster | 30 | 24.0 | 7 | 5.8 | 15 | 12.4 |
| 15 | Lowell | 106 | 25.6 | 60 | 16.0 | 45 | 12 |
| 16 | Fitchburg | 38 | 22.4 | 22 | 14.6 | 18 | 11.9 |
| 17 | Haverhill | 40 | 22.5 | 19 | 10.9 | 20 | 11.5 |
| 18 | Chicopee | 44 | 24.4 | 16 | 10.2 | 18 | 11.5 |
| 19 | Everett | 25 | 17.7 | 13 | 9.1 | 16 | 11.2 |
| 20 | Taunton | 29 | 17.3 | 11 | 6.7 | 18 | 11 |
| 21 | Worcester | 179 | 23.5 | 74 | 9.6 | 73 | 9.5 |
| 22 | Malden | 11 | 6.8 | 14 | 9.3 | 13 | 8.7 |
| 23 | Revere | 37 | 25.1 | 14 | 8.0 | 15 | 8.5 |
| 24 | Methuen | 22 | 13.2 | 11 | 6.7 | 12 | 7.3 |
| 25 | Boston | 318 | 12.9 | 116 | 4.7 | 132 | 5.4 |

1. Selected communities include the 25 Massachusetts cities and towns with the greatest number of teen births in 2022. Ranking is by 2022 teen birth rate. 2. Rates are per 1,000 females ages 15-19 per city/town. 3. Birth rates for cities and towns were calculated using the Massachusetts Department of Public Health Race Allocated Census 2010 Estimates file (MRACE 2010), the most up-to-date information available on the number of persons by age, race, and sex at the sub-state level. **If the population in your community increased from 2010 to 2019, the rates listed may overestimate the actual rate. If the population in your community declined**

**from 2010 to 2019, the rates given in the publication may underestimate the actual rate**.

## Figure 2. Teen Birth Rates among Birthing People Ages 15-19 Years by Race/Hispanic Ethnicity of Birthing Person, Massachusetts: 2013 and 2022

45

40.5

40

38.3

40.9

35

**Births per 1,000 Birthing People Ages 15-19**

30

2013 2022

25

20.2

20

20.3

15

10

5 4.5

0

1.2

10.5

6.2

2.3

12.0

5.7

American Indian/ Alaska Native Non-Hispanic

Asian/ Pacific Islander

Non-Hispanic

Black Non- Hispanic

Hispanic White Non- Hispanic

## Race/Ethnicity

Total

**NOTE:** Teen birth rate is number of births to females ages 15-19 per 1,000 females ages 15-19.

## Table 8. Births by Birthweight, Race/Hispanic Ethnicity, Massachusetts: 2022

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Birthweight** | **Total** | **American Indian/ Alaska Native Non- Hispanic** | | | **Asian/ Pacific Islander Non-Hispanic** | | **Black Non- Hispanic** | | **Hispanic** |  | **White Non- Hispanic** | |
| **(in grams)** | **n** | **%1** | **n** | **%1** | **n** | **%1** | **n** | **%1** | **n** | **%1** | **n** | **%1** |
| **State Total** | **68,579** | **100.0** | **294** | **100.0** | **6,253** | **100.0** | **7,399** | **100.0** | **15,170** | **100.0** | **37,820** | **100.0** |
| <500 | 55 | 0.1 | --2 | --2 | --2 | --2 | 16 | 0.2 | 21 | 0.1 | 13 | 0.0 |
| 500-999 | 265 | 0.4 | --2 | --2 | 13 | 0.2 | 73 | 1.0 | 70 | 0.5 | 100 | 0.3 |
| 1,000-1,499 | 421 | 0.6 | --2 | --2 | 38 | 0.6 | 86 | 1.2 | 108 | 0.7 | 178 | 0.5 |
| 1,500-1,999 | 1,084 | 1.6 | 6 | 2.0 | 109 | 1.7 | 181 | 2.5 | 223 | 1.5 | 529 | 1.4 |
| 2,000-2,499 | 3,544 | 5.2 | 14 | 4.8 | 389 | 6.2 | 525 | 7.1 | 824 | 5.4 | 1,714 | 4.5 |
| 2,500-2,999 | 12,521 | 18.3 | 55 | 18.8 | 1,515 | 24.2 | 1,552 | 21.0 | 2,957 | 19.5 | 6,143 | 16.3 |
| 3,000-3,499 | 26,375 | 38.6 | 113 | 38.6 | 2,556 | 40.9 | 2,860 | 38.7 | 6,137 | 40.5 | 14,120 | 37.4 |
| 3,500-3,999 | 18,745 | 27.4 | 82 | 28.0 | 1,349 | 21.6 | 1,629 | 22.1 | 3,844 | 25.4 | 11,446 | 30.3 |
| 4,000-4,499 | 4,717 | 6.9 | 20 | 6.8 | 249 | 4.0 | 398 | 5.4 | 848 | 5.6 | 3,110 | 8.2 |
| 4,500-4,999 | 603 | 0.9 | --2 | --2 | 27 | 0.4 | 61 | 0.8 | 120 | 0.8 | 383 | 1.0 |
| >=5,000 | 62 | 0.1 | --2 | --2 | --2 | --2 | 5 | 0.1 | 11 | 0.1 | 42 | 0.1 |
| **VLBW3**  **(0-1,499 g)** | **187** | **0.3** | **--2** | **--2** | **5** | **0.1** | **13** | **0.2** | **7** | **0.0** | **42** | **0.1** |
| **LBW4**  **(0-2,499 g)** | **741** | **1.1** | **--2** | **--2** | **52** | **0.8** | **175** | **2.4** | **199** | **1.3** | **291** | **0.8** |
| **NOTE:** Percentages for detailed birthweight rows (“<500” through “Unknown birthweight”) are calculated based on births including those with unknown birthweight. Percentages for VLBW and LBW rows are calculated based on births with known birthweight only.  1. Percentages are based on column totals. 2. Calculations based on values of 1-4 are excluded. 3. Very Low Birthweight (VLBW): less than 1,500 grams (3.3 lbs.). 4. Low Birthweight (LBW): less than 2,500 grams (5.5 lbs.). | | | | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 9. Low Birthweight by Plurality and Age of Birthing Person, Massachusetts: 2011-2021** | | | | | | | | | | | | | | | | | | | | | |
| **Age Group (years)** | **Year** | **Singleton** | | | | **Multiples** | | | | | | | | | | | | **Total Births** | | | |
| **Twin** | | | | **Triplets or more** | | | | **Total Multiples** | | | |
| **VLBW1** | | **LBW2** | | **VLBW1** | | **LBW2** | | **VLBW1** | | **LBW2** | | **VLBW1** | | **LBW2** | | **VLBW1** | | **LBW2** | |
| **n** | **%** | **n** | **%** | **n** | **%** | **n** | **%** | **n** | **%** | **n** | **%** | **n** | **%** | **n** | **%** | **n** | **%** | **n** | **%** |
| **All Ages** | 2012 | 585 | 0.8 | 3,810 | 5.5 | 252 | 8.2 | 1,592 | 51.6 | 41 | 45.6 | 89 | 98.9 | 300 | 7.5 | 1,731 | 43.5 | 878 | 1.2 | 5,491 | 7.6 |
| 2013 | 596 | 0.9 | 3,727 | 5.5 | 318 | 10.1 | 1,686 | 53.5 | 23 | 25.8 | 82 | 92.1 | 351 | 8.6 | 1,825 | 45.0 | 937 | 1.3 | 5,495 | 7.7 |
| 2014 | 605 | 0.9 | 3,690 | 5.4 | 270 | 9.1 | 1,624 | 54.5 | 19 | 22.9 | 80 | 96.4 | 297 | 7.6 | 1,763 | 45.2 | 894 | 1.2 | 5,394 | 7.5 |
| 2015 | 627 | 0.9 | 3,849 | 5.6 | 219 | 8.2 | 1,419 | 53.4 | 19 | 34.5 | 53 | 96.4 | 241 | 6.8 | 1,528 | 43.2 | 865 | 1.2 | 5,321 | 7.5 |
| 2016 | 596 | 0.9 | 3,904 | 5.7 | 208 | 8.1 | 1,351 | 52.7 | 38 | 42.2 | 86 | 95.6 | 258 | 6.8 | 1,514 | 39.7 | 842 | 1.2 | 5,341 | 7.5 |
| 2017 | 575 | 0.8 | 3,878 | 5.7 | 183 | 7.3 | 1,342 | 53.4 | 16 | 34.0 | 41 | 87.2 | 206 | 5.9 | 1,443 | 41.2 | 774 | 1.1 | 5,261 | 7.5 |
| 2018 | 583 | 0.9 | 3,860 | 5.8 | 210 | 8.9 | 1,318 | 55.9 | 36 | 52.9 | 65 | 95.6 | 258 | 7.5 | 1,468 | 42.5 | 829 | 1.2 | 5,243 | 7.6 |
| 2019 | 587 | 0.9 | 3,952 | 5.9 | 184 | 7.9 | 1,256 | 53.8 | 14 | 21.2 | 65 | 98.5 | 208 | 6.0 | 1,395 | 40.4 | 785 | 1.1 | 5,273 | 7.7 |
| 2020 | 505 | 0.8 | 3,800 | 5.9 | 130 | 6.3 | 1,055 | 51.3 | 18 | 38.3 | 42 | 89.4 | 162 | 5.1 | 1,176 | 37.1 | 653 | 1.0 | 4,897 | 7.4 |
| 2021 | 546 | 0.8 | 3950 | 5.9 | 197 | 8.7 | 1174 | 51.8 | 24 | 45.3 | 52 | 98.1 | 221 | 9.5 | 1226 | 52.8 | 767 | 1.1 | 5176 | 7.5 |
| 2022 | 582 | 0.9 | 4099 | 6.2 | 143 | 6.3 | 1212 | 53.4 | 16 | 27.1 | 58 | 98.3 | 159 | 6.8 | 1270 | 54.5 | 741 | 1.1 | 5369 | 7.9 |
| **Ages < 35** | 2012 | 437 | 0.8 | 2,964 | 5.5 | 185 | 9.5 | 1,066 | 54.6 | 34 | 59.6 | 57 | 100.0 | 226 | 8.4 | 1,168 | 43.5 | 656 | 1.2 | 4,087 | 7.3 |
| 2013 | 433 | 0.8 | 2,852 | 5.4 | 225 | 11.2 | 1,101 | 54.6 | 17 | 32.7 | 48 | 92.3 | 250 | 9.1 | 1,202 | 43.7 | 675 | 1.2 | 4,001 | 7.3 |
| 2014 | 460 | 0.9 | 2,828 | 5.3 | 186 | 9.8 | 1,076 | 57.0 | 14 | 28.0 | 48 | 96.0 | 207 | 7.9 | 1,173 | 44.7 | 660 | 1.2 | 3,952 | 7.2 |
| 2015 | 476 | 0.9 | 2,922 | 5.6 | 142 | 8.6 | 902 | 54.5 | 16 | 36.4 | 43 | 97.7 | 160 | 6.7 | 990 | 41.8 | 634 | 1.2 | 3,867 | 7.1 |
| 2016 | 443 | 0.9 | 2,952 | 5.7 | 145 | 9.1 | 865 | 54.1 | 22 | 46.8 | 47 | 100.0 | 178 | 6.9 | 977 | 37.8 | 610 | 1.1 | 3,864 | 7.2 |
| 2017 | 446 | 0.9 | 2,920 | 5.7 | 122 | 7.4 | 924 | 56.1 | --3 | --3 | 14 | 77.8 | 132 | 5.4 | 992 | 40.9 | 571 | 1.1 | 3,858 | 7.3 |
| 2018 | 396 | 0.8 | 2,798 | 5.7 | 157 | 10.3 | 859 | 56.6 | 20 | 57.1 | 35 | 100.0 | 188 | 8.0 | 967 | 40.9 | 573 | 1.1 | 3,692 | 7.3 |
| 2019 | 435 | 0.9 | 2,878 | 5.9 | 134 | 9.3 | 830 | 57.7 | 10 | 21.3 | 46 | 97.9 | 152 | 6.6 | 935 | 40.6 | 579 | 1.2 | 3,754 | 7.5 |
| 2020 | 369 | 0.8 | 2,750 | 5.9 | 82 | 6.3 | 691 | 53.1 | 12 | 37.5 | 30 | 93.8 | 104 | 4.8 | 782 | 36.2 | 463 | 1.0 | 3,471 | 7.3 |
| 2021 | 406 | 0.9 | 2836 | 6.0 | 109 | 7.7 | 755 | 53.1 | 19 | 50.0 | 37 | 97.4 | 128 | 8.8 | 792 | 54.3 | 534 | 1.1 | 3628 | 7.4 |
| 2022 | 435 | 0.9 | 1183 | 6.1 | 47 | 5.7 | 414 | 49.8 | 13 | 41.9 | 31 | 100.0 | 60 | 7.0 | 445 | 51.6 | 207 | 1.0 | 1628 | 8.0 |
| **Ages 35+** | 2012 | 148 | 1.0 | 846 | 5.6 | 67 | 5.9 | 526 | 46.5 | 7 | 21.2 | 32 | 97.0 | 74 | 5.7 | 563 | 43.5 | 222 | 1.4 | 1,404 | 8.6 |
| 2013 | 163 | 1.1 | 875 | 5.7 | 93 | 8.2 | 585 | 51.6 | 6 | 16.2 | 34 | 91.9 | 101 | 7.7 | 623 | 47.6 | 262 | 1.6 | 1,494 | 9.1 |
| 2014 | 145 | 0.9 | 862 | 5.5 | 84 | 7.7 | 548 | 50.2 | 5 | 15.2 | 32 | 97.0 | 90 | 7.1 | 590 | 46.3 | 234 | 1.4 | 1,442 | 8.6 |
| 2015 | 151 | 0.9 | 927 | 5.8 | 77 | 7.7 | 517 | 51.7 | --3 | --3 | 10 | 90.9 | 81 | 7.0 | 538 | 46.3 | 231 | 1.4 | 1,454 | 8.5 |
| 2016 | 153 | 0.9 | 952 | 5.7 | 63 | 6.5 | 486 | 50.3 | 16 | 37.2 | 39 | 90.7 | 80 | 6.5 | 537 | 43.8 | 232 | 1.3 | 1,477 | 8.4 |
| 2017 | 129 | 0.8 | 958 | 5.7 | 61 | 7.0 | 418 | 48.3 | 13 | 44.8 | 27 | 93.1 | 74 | 6.9 | 451 | 41.8 | 203 | 1.1 | 1,403 | 7.9 |
| 2018 | 187 | 1.1 | 1,061 | 6.1 | 53 | 6.3 | 457 | 54.5 | 16 | 48.5 | 30 | 90.9 | 70 | 6.4 | 499 | 45.7 | 256 | 1.4 | 1,548 | 8.5 |
| 2019 | 152 | 0.9 | 1,074 | 6.0 | 50 | 5.6 | 426 | 47.5 | --3 | --3 | 19 | 100.0 | 56 | 4.9 | 460 | 40.0 | 206 | 1.1 | 1,519 | 8.1 |
| 2020 | 136 | 0.8 | 1,050 | 5.9 | 48 | 6.4 | 364 | 48.3 | 6 | 40.0 | 12 | 80.0 | 58 | 5.7 | 394 | 39.0 | 190 | 1.0 | 1,426 | 7.7 |
| 2021 | 140 | 0.7 | 1114 | 5.9 | 88 | 10.4 | 419 | 49.5 | 5 | 33.3 | 15 | 100.0 | 93 | 10.8 | 434 | 50.4 | 233 | 1.2 | 1548 | 7.8 |
| 2022 | 147 | 0.8 | 1183 | 6.1 | 47 | 5.7 | 414 | 49.8 | 13 | 41.9 | 31 | 100.0 | 60 | 7.0 | 445 | 51.6 | 207 | 1.0 | 1628 | 8.0 |
| **NOTE:** Very Low Birthweight (VLBW) births are a subset of Low Birthweight (LBW) births. All percentages are calculated based on only those births with known values for the characteristic(s) of interest, unless otherwise stated. 1. Very Low Birthweight (VLBW): less than 1,500 grams (3.3 lbs.). 2. Low Birthweight (LBW): less than 2,500 grams (5.5 lbs.).  3. Calculations based on values of 1-4 are excluded. | | | | | | | | | | | | | | | | | | | | | |

**Table 10. Births by Gestational Age, Race/Hispanic Ethnicity, Massachusetts: 2022**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Total** | | | **American Indian/ Alaska Native Non-Hispanic** | | **Asian/ Pacific Islander Non- Hispanic** | | **Black Non- Hispanic** | | **Hispanic** | | **White Non- Hispanic** | |
| **Gestational Age**1 **(weeks completed)** | |  |  |  |
|  | **n** | **%2** | **n** | **%2** | **n** | **%2** | **n** | **%2** | **n** | **%2** | **n** | **%2** |
| **State Total** | **68,579** | **100.0** | **294** | **4.7** | **6,253** | **100.0** | **7,399** | **100.0** | **15,170** | **100.0** | **37,820** | **100.0** |
| <20 | 14 | 0.02 | 0 | 0.0 | 0 | 0.00 | --3 | --3 | 8 | 0.05 | --3 | --3 |
| 20-23 | 68 | 0.10 | 0 | 0.0 | --3 | --3 | 22 | 0.3 | 18 | 0.1 | 21 | 0.1 |
| 24-27 | 219 | 0.32 | --3 | --3 | 12 | 0.2 | 52 | 0.7 | 58 | 0.4 | 88 | 0.2 |
| 28-31 | 461 | 0.67 | 0 | 0.0 | 29 | 0.5 | 85 | 1.2 | 124 | 0.8 | 209 | 0.6 |
| 32-33 | 788 | 1.14 | 0 | 0.0 | 67 | 1.1 | 133 | 1.8 | 168 | 1.1 | 403 | 1.1 |
| 34-36 | 4,693 | 6.42 | 25 | 0.4 | 445 | 7.1 | 583 | 7.9 | 1,030 | 6.8 | 2,500 | 6.6 |
| 37-38 | 18,474 | 27.02 | 73 | 1.2 | 1,834 | 29.4 | 2,172 | 29.4 | 4,385 | 28.9 | 9,604 | 25.4 |
| 39 | 24,660 | 49.42 | 107 | 1.7 | 2,384 | 38.2 | 2,413 | 32.7 | 5,460 | 36.0 | 13,778 | 36.5 |
| 40 | 13,984 | 31.99 | 62 | 1.0 | 1,160 | 18.6 | 1,412 | 19.1 | 2,925 | 19.3 | 8,102 | 21.5 |
| 41 | 4,860 | 6.64 | 25 | 0.4 | 304 | 4.9 | 492 | 6.7 | 966 | 6.4 | 2,961 | 7.8 |
| 42 | 150 | 0.22 | 0 | 0.0 | 8 | 0.1 | 19 | 0.3 | 20 | 0.1 | 98 | 0.3 |
| 43 | 5 | 0.01 | 0 | 0.0 | --3 | --3 | --3 | --3 | 0 | 0.0 | --3 | --3 |
| 44+ | 0 | 0.00 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| **Preterm4 (<37)** |  |  |  |  |  |  |  |  |  |  |  |  |
| Very Early5 (<28) | 301 | 0.4 | --3 | --3 | 14 | 0.2 | 76 | 1.0 | 84 | 0.6 | 111 | 0.3 |
| (28-33) | 1,249 | 1.8 | 0 | 0.0 | 96 | 1.5 | 218 | 3.0 | 292 | 1.9 | 612 | 1.6 |
| Late (34-36) | 4,693 | 6.9 | 25 | 8.5 | 445 | 7.1 | 583 | 7.9 | 1,030 | 6.8 | 2,500 | 6.6 |
| **Term ( >=37 )** |  |  |  |  |  |  |  |  |  |  |  |  |
| Early Term (37-38) | 18,474 | 27.0 | 73 | 24.9 | 1,834 | 29.4 | 2,172 | 29.4 | 4,385 | 28.9 | 9,604 | 25.4 |
| (39-41) | 43,504 | 63.4 | 194 | 66.2 | 3,848 | 61.6 | 4,317 | 58.4 | 9,351 | 61.7 | 24,841 | 65.8 |
| (>=42) | 155 | 0.2 | 0 | 0.0 | 9 | 0.1 | 20 | 0.3 | 20 | 0.1 | 100 | 0.3 |

**NOTE:** Percentages are calculated based on births with known gestational age only.

1. A clinical estimate of the number of weeks of pregnancy completed as estimated by the attendant at birth or the postnatal physician. 2. Percentages are based on column total.

3. Calculations based on values of 1-4 are excluded. 4. Also known as early gestational age, premature delivery, or preterm delivery. 5. Also known as extremely premature delivery or extremely preterm delivery.

**Table 11. Percent Preterm and Term Births by Gestational Age Category, Massachusetts: 1980, 1990, 2000, 2010-2022**

1. Also known as early gestational age, premature delivery, or preterm delivery. Preterm: <37 weeks gestation. 2. Full term and early term are not mutually exclusive.

NOTE: Gestational age data was not collected prior to 1975.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Preterm1** | | | **Term2** | |
| **Year** | **Very Early**  **Preterm (<28 wks)** | **Moderate Preterm (28-**  **33 wks)** | **Late Preterm (34-**  **36 wks)** | **Early Term (37-38 wks)** | **Full Term (37+ wks)** |
| 1980 | 0.6 | 1.7 | 4.6 | 12.0 | 93.1 |
| 1990 | 0.5 | 1.6 | 4.1 | 12.7 | 93.8 |
| 2000 | 0.7 | 2.8 | 7.3 | 22.4 | 89.7 |
| 2010 | 0.6 | 2.0 | 6.0 | 21.1 | 91.4 |
| 2011 | 0.6 | 1.9 | 5.9 | 21.8 | 91.6 |
| 2012 | 0.6 | 1.7 | 6.2 | 21.5 | 91.4 |
| 2013 | 0.6 | 1.9 | 6.3 | 21.0 | 91.2 |
| 2014 | 0.5 | 1.8 | 6.1 | 21.7 | 91.4 |
| 2015 | 0.6 | 1.9 | 6.0 | 22.5 | 91.6 |
| 2016 | 0.6 | 1.8 | 6.3 | 22.8 | 91.3 |
| 2017 | 0.6 | 1.8 | 6.6 | 23.2 | 91.1 |
| 2018 | 0.5 | 1.9 | 6.5 | 23.4 | 91.1 |
| 2019 | 0.5 | 1.8 | 6.6 | 24.6 | 91.1 |
| 2020 | 0.5 | 1.8 | 6.5 | 24.8 | 91.2 |
| 2021 | 0.5 | 1.8 | 6.7 | 26.1 | 91.7 |
| 2022 | 0.4 | 1.8 | 6.9 | 27.0 | 90.7 |

## Figure 3. Trends in Adequacy of Prenatal Care2,3 by Race/Hispanic Ethnicity, Massachusetts: 2000-2022

**100**

**95**

**Percent of Live Births with Adequate Prenatal Care 1**

**90** 88.2

85.2

**85**

81.4

**80** 78.2

77.0

**75**

74.0

**70** American Indian/ Alaska Native Non-Hispanic

Asian/ Pacific Islander

**65** Non-Hispanic

Black Non-Hispanic

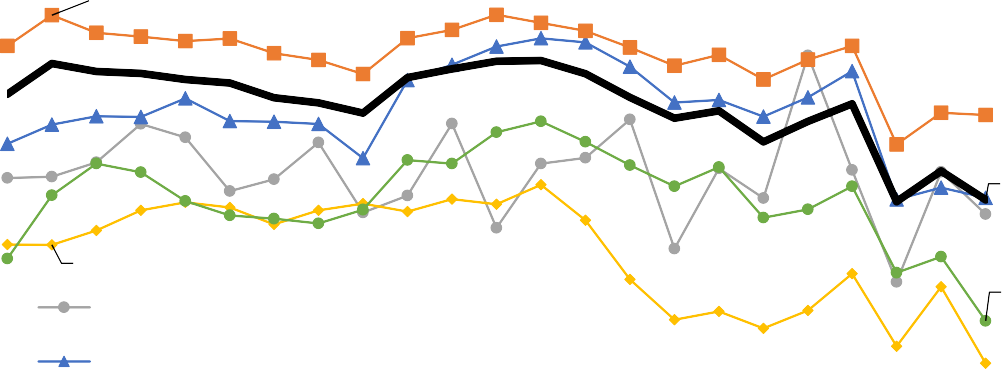
82.0

76.7

75.9

69.2

66.6



**60** Hispanic

White Non-Hispanic

**55**

Massachusetts

**50**

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022

**Year**

**NOTE:** FOR PURPOSES OF VISUAL REPRESENTATION, THE VERTICAL SCALE OF GRAPH REPRESENTS A SMALL

INTERVAL (from 50% to 100%). APNCU was not available prior to 2000.

1. Unless otherwise stated, all percentages are calculated based on only those births with known values for the characteristic(s) of interest.
2. Adequacy of Prenatal Care Utilization (APNCU) Index is an assessment of the timing and number of prenatal care visits and not an evaluation of the quality of care delivered. Data from Metro West hospital are not included in years 2011 and 2012 because of reporting problems. Data from Newton Wellesley, Saint Vincent, and Winchester hospitals are not included in years 2011-2017 because of reporting problems.
3. Please use caution in interpreting this figure. The birth facility is responsible for collecting prenatal care data reported on the birth certificate. If prenatal care was obtained at a different location, the birth facility may be unable to obtain complete prenatal care data. Missing prenatal care data will impact the APNCU Index.

## Figure 4. Adequacy of Prenatal Care by Selected Characteristics of Birthing People, Massachusetts: 2022

**Younger Teens (<18 yrs)**

**Mothers Age 35+ First-time Mothers Multiple Birth**

**1**

**Education (< 12 yrs)**

**54.8%**

**59.2%**

**79.0%**

**76.6%**

**83.0%**

**More than a College Degree**

**2**

**Unmarried**

**71.1%**

**82.5%**

**Non-U.S.-born 3**

**Breastfeeding4**

**68.3%**

**76.8%**

**Smokers**

**State Total**

**66.0%**

**76.7%**

**0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%**

**Percent of Mothers with Adequate Prenatal Care**

**NOTE:** All percentages are calculated based on the Adequacy of Prenatal Care Utilization (APNCU) Index. Characteristics of interest are not mutually exclusive, except as noted.

1. Females 20 years of age and older. 2. Marital status at time of birth. 3. Non-US-born includes females born outside of the 50 U.S. states, District of Columbia, and US territories (Puerto Rico, U.S. Virgin Islands, Guam). 4. Infant was being breastfed during the hospital stay.

**Figure 5. Distribution of Prenatal Care Payment Source, Massachusetts: 2022**

**Self-Pay 0.7%**

**Public**

**38.9%**

**Private**

**60.5%**

**NOTE:** Sources of Prenatal Care Payment include private: Commercial indemnity plan, commercial managed care (HMO, PPO, IPP, IPA, and other), or other private insurance; public: Government programs including CommonHealth, Healthy Start, Medicaid/MassHealth, and Medicare (may also be HMO or managed care), or free care; and self-pay.

## Table 12. Resident Birth Characteristics, 30 Largest Municipalities, Massachusetts: 2022

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Race and Ethnicity4 of Birthing Person** | | | | | | | | |
| **Municipality1** | **Rank3** | **Population** | **Crude Birth rate2** | **American Indian/ Alaska Native Non-Hispanic** | **Asian/ Pacific Islander Non-Hispanic** | **Black Non- Hispanic** | **Hispanic** | **White Non-Hispanic** |
|  |  |  |  | **%** | **%** | **%** | **%** | **%** |
| **STATE TOTAL** |  | **7,029,914** | **48.2** | **0.4** | **9.1** | **10.8** | **22.1** | **55.1** |
|  |  |  |  |  |  |  |  |  |
| Arlington | 30 | 46308 | 52.0 | --5 | 25.2 | 5.2 | 3.7 | 63.4 |
| Attleboro | 29 | 46461 | 54.1 | --5 | 4.2 | 11.9 | 11.1 | 70.9 |
| Barnstable | 28 | 48916 | 53.9 | 1.8 | 2.3 | 11.1 | 18.8 | 64.6 |
| Boston | 1 | 675647 | 35.8 | 0.4 | 8.8 | 23.4 | 25.9 | 39.1 |
| Brockton | 6 | 105643 | 64.1 | 0.5 | 1.9 | 61.2 | 20.0 | 12.6 |
| Brookline | 18 | 63191 | 27.3 | --5 | 28.2 | 3.1 | 10.8 | 56.4 |
| Cambridge | 4 | 118403 | 25.1 | --5 | 26.3 | 13.5 | 9.0 | 47.7 |
| Chicopee | 24 | 55560 | 45.9 | --5 | 1.6 | 7.8 | 39.0 | 51.0 |
| Everett | 27 | 49075 | 58.8 | --5 | 8.4 | 16.7 | 51.7 | 19.8 |
| Fall River | 10 | 94000 | 58.3 | 0.9 | 3.6 | 13.4 | 26.3 | 53.2 |
| Framingham | 14 | 72362 | 62.9 | --5 | 8.5 | 9.3 | 33.3 | 41.5 |
| Haverhill | 15 | 67787 | 59.8 | --5 | 3.2 | 7.1 | 39.4 | 48.6 |
| Lawrence | 11 | 89143 | 69.9 | --5 | 1.3 | 2.8 | 89.5 | 5.6 |
| Lowell | 5 | 115554 | 56.2 | 0.8 | 24.6 | 13.0 | 32.6 | 28.0 |
| Lynn | 8 | 101253 | 70.6 | 0.3 | 5.1 | 9.3 | 60.6 | 16.7 |
| Malden | 16 | 66263 | 48.9 | --5 | 22.8 | 18.4 | 22.3 | 33.3 |
| Medford | 21 | 59659 | 46.1 | --5 | 17.3 | 8.2 | 12.8 | 59.1 |
| Methuen | 26 | 53059 | 47.9 | --5 | 4.1 | 6.8 | 48.3 | 38.4 |
| New Bedford | 9 | 101079 | 58.4 | 0.7 | 1.2 | 15.9 | 39.0 | 40.0 |
| Newton | 12 | 88923 | 35.2 | --5 | 24.7 | 3.6 | 7.6 | 61.3 |
| Peabody | 25 | 54481 | 52.1 | --5 | 3.7 | 4.7 | 22.8 | 62.1 |
| Plymouth | 20 | 61217 | 51.1 | --5 | 2.9 | 3.5 | 7.1 | 84.0 |
| Quincy | 7 | 101636 | 45.5 | --5 | 31.6 | 13.0 | 9.6 | 43.8 |
| Revere | 19 | 62186 | 59.6 | --5 | 4.8 | 7.4 | 54.7 | 28.7 |
| Somerville | 13 | 81045 | 28.9 | --5 | 18.5 | 5.6 | 16.1 | 57.4 |
| Springfield | 3 | 155929 | 54.4 | 0.4 | 2.8 | 19.3 | 60.4 | 16.0 |
| Taunton | 22 | 59408 | 52.3 | --5 | 1.6 | 26.9 | 12.2 | 55.5 |
| Waltham | 17 | 65218 | 40.7 | --5 | 13.9 | 10.2 | 30.0 | 43.8 |
| Weymouth | 23 | 57437 | 63.0 | --5 | 13.1 | 7.3 | 9.3 | 65.4 |
| Worcester | 2 | 206518 | 46.7 | 0.4 | 7.5 | 21.6 | 35.5 | 34.4 |

**Table 12 (cont’d). Resident Birth Characteristics, 30 Largest Municipalities, Massachusetts: 2022**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Births** | | | | | | | | |
| **Municipality1** | **Very Low Birthweight**  **(<1500 gms.)** | **Low Birthweight**  **(<2500 gms.)** | **Gestational Diabetes** | **Adequate Prenatal Care6** | **Public Payment for Prenatal Care7** | **Unmarried** | **Teen Births 15 to 19 years** | |
|  | **%** | **%** | **%** | **%** | **%** | **%** | **N** | **Rate8** |
| **STATE TOTAL** | **1.1** | **7.9** | **8.3** | **76.7** | **38.8** | **32.8** | **1,302** | **5.7** |
|  |  |  |  |  |  |  |  |  |
| Arlington | --5 | 6.7 | 7.6 | 83.5 | 6.7 | 8.2 | 0 | 0.0 |
| Attleboro | --5 | 9.3 | 8.9 | 82.6 | 20.4 | 29.1 | 8 | 6.7 |
| Barnstable | --5 | 6.8 | 5.3 | 79.3 | 56.8 | 30.5 | 10 | 9.0 |
| Boston | 1.2 | 9.3 | 5.0 | 66.2 | 41.2 | 37.9 | 132 | 5.4 |
| Brockton | 1.3 | 8.2 | 7.5 | 65.4 | 72.7 | 58.5 | 59 | 17.9 |
| Brookline | --5 | 7.5 | 5.0 | 75.8 | 10.4 | 10.2 | --5 | --5 |
| Cambridge | 0.8 | 7.2 | 6.1 | 70.6 | 17.1 | 14.8 | 5 | 1.4 |
| Chicopee | --5 | 8.3 | 16.3 | 81.5 | 63.1 | 58.1 | 18 | 11.5 |
| Everett | 1.3 | 6.9 | 9.7 | 63.9 | 72.4 | 38.4 | 16 | 11.2 |
| Fall River | 1.5 | 8.8 | 9.5 | 77.4 | 77.8 | 61.8 | 46 | 17.7 |
| Framingham | 1.0 | 7.7 | 6.4 | 69.7 | 50.5 | 35.4 | 31 | 12.8 |
| Haverhill | 1.0 | 7.7 | 9.3 | 69.8 | 45.0 | 47.4 | 20 | 11.5 |
| Lawrence | 1.3 | 7.9 | 10.2 | 60.7 | 76.0 | 64.4 | 55 | 17.4 |
| Lowell | 1.1 | 9.5 | 12.0 | 78.6 | 66.3 | 51.4 | 45 | 12.0 |
| Lynn | 0.8 | 8.6 | 9.6 | 68.0 | 76.1 | 52.6 | 72 | 23.2 |
| Malden | 1.3 | 7.1 | 9.3 | 67.2 | 48.9 | 26.5 | 13 | 8.7 |
| Medford | 1.2 | 7.0 | 6.7 | 73.4 | 22.2 | 16.7 | --5 | --5 |
| Methuen | 1.2 | 7.2 | 10.2 | 69.5 | 46.7 | 40.9 | 12 | 7.3 |
| New Bedford | 1.2 | 9.9 | 8.3 | 76.3 | 78.2 | 62.7 | 53 | 17.7 |
| Newton | 0.9 | 6.4 | 6.2 | 76.5 | 9.5 | 10.0 | 0 | 0.0 |
| Peabody | 1.4 | 6.7 | 8.8 | 84.4 | 40.4 | 29.9 | --5 | --5 |
| Plymouth | --5 | 6.8 | 4.3 | 88.0 | 23.0 | 27.5 | --5 | --5 |
| Quincy | 1.3 | 8.4 | 9.1 | 77.8 | 30.4 | 27.5 | 8 | 4.3 |
| Revere | 1.5 | 7.1 | 8.3 | 57.7 | 64.6 | 41.6 | 15 | 8.5 |
| Somerville | 1.4 | 7.5 | 7.6 | 73.7 | 25.2 | 18.4 | 8 | 5.3 |
| Springfield | 1.8 | 10.6 | 13.2 | 76.9 | 77.8 | 71.6 | 119 | 19.8 |
| Taunton | 2.3 | 10.6 | 7.2 | 79.2 | 51.9 | 49.1 | 18 | 11.0 |
| Waltham | 0.9 | 7.8 | 5.8 | 76.2 | 39.0 | 24.8 | 12 | 5.2 |
| Weymouth | 1.0 | 9.3 | 10.6 | 80.6 | 25.9 | 24.3 | --5 | --5 |
| Worcester | 1.7 | 9.2 | 9.1 | 79.0 | 61.5 | 48.1 | 73 | 9.5 |

1. The 30 largest municipalities are the cities/ towns in Massachusetts with the largest populations. 2. Crude birth rates represent the number of births per 1,000 residents (male and female). 3. Rank is by population size. 4. For the category of Race/Ethnicity, percentages are calculated based on the state total of resident births, including births for which race/Hispanic ethnicity of birthing person is unknown. 5. Counts and calculations based on 1-4 events are excluded. 6. Based on the Adequacy of Prenatal Care Utilization (APNCU) Index. 7. Public payment sources include CommonHealth, Healthy Start, Medicaid/MassHealth, and Medicare (may be HMO or managed care), or free care. 8. Births per

1,000 female residents ages 15-19; rates for cities and towns were calculated using UMass Donahue Institute (UMDI) estimates for 2020.

## Table 13. Birth Characteristics by Facility/Location, Massachusetts: 2022

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Facility**1 | **Location** | **Occurrence Births2**  **(n)** | **Low Birthweight3 (%)** | **Public Pay for PNC4 (%)** | **Adequate Prenatal Care5 (%)** | **Early Term6 (%)** | **Late Preterm7 (%)** |
| **State Total** |  | **69,513** | **7.8** | **38.0** | **76.6** | **27.0** | **6.8** |
| Anna Jaques Hospital | Newburyport | 618 | 2.6 | 14.2 | 90.4 | 28.8 | 4.2 |
| Baystate Franklin Medical Center | Greenfield | 429 | 2.8 | 35.5 | 77.0 | 20.5 | 2.6 |
| Baystate Medical Center | Springfield | 4,368 | 12.4 | 57.1 | 81.4 | 28.1 | 9.8 |
| Berkshire Medical Center | Pittsfield | 561 | 5.9 | 37.7 | 83.2 | 22.8 | 8.0 |
| Beth Israel Deaconess Hospital - Plymouth | Plymouth | 999 | 3.6 | 33.2 | 85.1 | 22.2 | 3.6 |
| Beth Israel Deaconess Medical Center | Boston | 4,979 | 12.6 | 21.4 | 74.4 | 29.4 | 9.3 |
| Beverly Hospital | Beverly | 2,059 | 4.7 | 41.3 | 85.9 | 24.0 | 5.4 |
| Boston Medical Center | Boston | 2,961 | 9.8 | 81.3 | 52.0 | 29.7 | 7.4 |
| Brigham And Women’s Hospital | Boston | 7,176 | 9.6 | 22.4 | 79.1 | 28.7 | 8.3 |
| Brockton Hospital | Brockton | 1,389 | 4.5 | 78.2 | 71.8 | 27.4 | 4.5 |
| Cambridge Hospital | Cambridge | 1,241 | 3.5 | 74.9 | 71.3 | 25.7 | 2.9 |
| Cape Cod Hospital | Barnstable | 970 | 3.8 | 53.5 | 81.3 | 23.7 | 3.8 |
| Charlton Memorial Hospital | Fall River | 1,369 | 6.0 | 61.9 | 83.9 | 23.8 | 5.3 |
| Cooley Dickinson Hospital | Northampton | 575 | 2.6 | 29.1 | 76.3 | 22.3 | 3.0 |
| Emerson Hospital | Concord | 1,428 | 4.1 | 16.7 | 88.2 | 27.4 | 6.0 |
| Fairview Hospital | Great Barrington | 128 | --8 | 35.9 | 94.5 | 24.2 | --8 |
| Good Samaritan Medical Center | Brockton | 534 | 8.1 | 50.2 | 72.8 | 30.3 | 9.2 |
| Healthalliance - Clinton Hospital, Leominster | Leominster | 501 | 4.6 | 63.2 | 78.2 | 23.2 | 3.8 |
| Heywood Hospital | Gardner | 304 | 5.3 | 63.1 | 84.8 | 21.8 | 1.7 |
| Lawrence General Hospital | Lawrence | 1,427 | 6.1 | 71.3 | 55.5 | 25.2 | 6.9 |
| Lowell General Hospital | Lowell | 1,798 | 6.8 | 52.5 | 84.6 | 23.8 | 6.1 |
| Martha’s Vineyard Hospital | Oak Bluffs | 121 | --8 | 50.4 | 69.4 | 18.2 | 4.1 |
| Massachusetts General Hospital | Boston | 3,725 | 10.4 | 22.6 | 51.9 | 25.6 | 7.4 |
| Melrose-Wakefield Hospital | Melrose | 753 | 5.2 | 23.9 | 67.7 | 23.9 | 4.9 |
| Mercy Medical Center | Springfield | 801 | 3.7 | 63.3 | 78.9 | 25.8 | 4.4 |
| Metrowest Med Center - Framingham Union Hospital | Framingham | 940 | 6.8 | 63.7 | 68.2 | 29.1 | 5.6 |
| Milford Regional Medical Center | Milford | 990 | 4.4 | 37.7 | 88.2 | 29.5 | 5.9 |
| Mt. Auburn Hospital | Cambridge | 2,246 | 4.8 | 17.7 | 78.9 | 20.1 | 4.5 |
| Nantucket Cottage Hospital | Nantucket | 153 | --8 | 49.3 | 89.5 | 22.9 | 3.3 |
| Newton-Wellesley Hospital | Newton | 3,874 | 4.4 | 4.8 | 82.5 | 26.4 | 5.5 |
| North Shore Birth Center | Beverly | 2 | --8 | --8 | --8 | --8 | --8 |
| North Shore Medical Center - Salem Hospital | Salem | 1,285 | 6.2 | 58.3 | 78.2 | 26.1 | 5.5 |
| Saint Vincent Hospital | Worcester | 1,616 | 4.8 | 39.0 | 89.9 | 28.0 | 7.0 |
| Seven Sisters Midwifery & Community Birth Center | Northampton | 115 | --8 | 35.7 | 75.7 | 14.8 | 0.0 |
| South Shore Hospital | Weymouth | 3,223 | 6.8 | 16.1 | 91.3 | 25.8 | 7.1 |
| St. Elizabeth’s Medical Center | Boston | 1,127 | --8 | 40.9 | 11.2 | 50.5 | 4.6 |
| St. Lukes Hospital | New Bedford | 1,763 | 7.3 | 65.5 | 78.6 | 29.4 | 5.9 |
| Steward Holy Family Hospital | Methuen | 1,233 | 6.0 | 48.4 | 73.1 | 29.8 | 4.3 |
| Sturdy Memorial Hospital | Attleboro | 564 | 10.6 | 9.9 | 87.7 | 21.5 | 2.7 |
| Tufts Medical Center | Boston | 1,261 | 22.4 | 46.5 | 83.1 | 29.8 | 13.3 |
| UMass Memorial Medical Center - Memorial Campus | Worcester | 4,593 | 10.9 | 44.9 | 80.8 | 28.0 | 9.0 |
| Winchester Hospital | Winchester | 2,660 | 6.5 | 11.6 | 91.1 | 25.5 | 6.4 |
| Other Hospitals |  | 13 | --8 | 90.0 | --8 | --8 | --8 |
| Home, Enroute & Dr. Off. |  | 643 | 7.4 | 24.7 | 61.6 | 15.7 | 6.0 |

**NOTE:** All percentages are calculated based on only those occurrence births with known values for the characteristic(s) of interest.

1. A licensed maternity facility is a medical unit licensed by the Commonwealth for the care of birthing people during pregnancy and childbirth. 2. Occurrence births are births that occurred at the facility, regardless of residence of birthing person. 3. Less than 2,500 grams (5.5 lbs.) 4. Public payment for prenatal care (PNC) includes Medicaid/MassHealth, CommonHealth, Medicare, Healthy Start, other government programs, and free care. 5. Based on the APNCU Index. 6. Birth at 37 or 38 weeks of gestation. 7. Birth at 34 to 36 weeks of gestation. 8. Calculations based on 1-4 events are excluded.

## Table 14. Resident Teen Birth Characteristics, 30 Largest Municipalities, Massachusetts: 2022

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Municipality1** | **Total Population Rank** | **Female Population, ages 15-19** | **Number of Teen Births (Ages 15-19)** | **Teen Birth Rate2** | **Race/Hispanic Ethnicity of Birthing Person (% of teen births)** | | | | |
| **American Indian/ Alaska Native Non- Hispanic** | **Asian/ Pacific Islander Non- Hispanic** | **Black Non- Hispanic** | **Hispanic** | **White Non- Hispanic** |
| **State Total** |  | **227,269** | **1,302** | **5.7** | **0.9** | **1.7** | **13.7** | **57.5** | **24.8** |
| Arlington | 30 | 1,237 | 0 | 0.0 | --3 | --3 | --3 | --3 | --3 |
| Attleboro | 29 | 1,188 | 8 | 6.7 | 0.0 | --3 | --3 | 0.0 | --3 |
| Barnstable | 28 | 1,115 | 10 | 9.0 | 0.0 | --3 | 0.0 | 0.0 | 70.0 |
| Boston | 1 | 24,426 | 132 | 5.4 | --3 | 56.9 | 33.8 | --3 | --3 |
| Brockton | 6 | 3,288 | 59 | 17.9 | 0.0 | 32.8 | 58.6 | 0.0 | --3 |
| Brookline | 18 | 1,735 | --3 | --3 | 0.0 | --3 | 0.0 | 0.0 | 0.0 |
| Cambridge | 4 | 3,602 | 5 | 1.4 | 0.0 | --3 | --3 | 0.0 | 0.0 |
| Chicopee | 24 | 1,569 | 18 | 11.5 | 0.0 | 83.3 | 0.0 | 0.0 | --3 |
| Everett | 27 | 1,427 | 16 | 11.2 | 0.0 | 81.3 | --3 | 0.0 | 0.0 |
| Fall River | 10 | 2,592 | 46 | 17.7 | 0.0 | 30.4 | 21.7 | 0.0 | 43.5 |
| Framingham | 14 | 2,427 | 31 | 12.8 | 0.0 | 64.3 | --3 | 0.0 | 21.4 |
| Haverhill | 15 | 1,737 | 20 | 11.5 | 0.0 | 61.1 | 0.0 | 0.0 | 38.9 |
| Lawrence | 11 | 3,168 | 55 | 17.4 | 0.0 | 94.5 | 0.0 | --3 | --3 |
| Lowell | 5 | 3,745 | 45 | 12.0 | 0.0 | 35.6 | --3 | 20.0 | 35.6 |
| Lynn | 8 | 3,108 | 72 | 23.2 | --3 | 86.8 | --3 | --3 | --3 |
| Malden | 16 | 1,500 | 13 | 8.7 | 0.0 | 46.2 | --3 | --3 | --3 |
| Medford | 21 | 1,480 | --3 | --3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methuen | 26 | 1,639 | 12 | 7.3 | 0.0 | 83.3 | 0.0 | --3 | --3 |
| New Bedford | 9 | 2,987 | 53 | 17.7 | --3 | 69.8 | 18.9 | 0.0 | --3 |
| Newton | 12 | 4,770 | 0 | 0.0 | --3 | --3 | --3 | --3 | --3 |
| Peabody | 25 | 1,247 | --3 | --3 | 0.0 | --3 | 0.0 | 0.0 | 0.0 |
| Plymouth | 20 | 1,582 | --3 | --3 | 0.0 | --3 | 0.0 | 0.0 | --3 |
| Quincy | 7 | 1,870 | 8 | 4.3 | 0.0 | --3 | --3 | 0.0 | --3 |
| Revere | 19 | 1,756 | 15 | 8.5 | 0.0 | 85.7 | 0.0 | 0.0 | --3 |
| Somerville | 13 | 1,518 | 8 | 5.3 | 0.0 | 75.0 | 0.0 | 0.0 | --3 |
| Springfield | 3 | 6,015 | 119 | 19.8 | 0.0 | 83.9 | 7.6 | --3 | 7.6 |
| Taunton | 22 | 1,641 | 18 | 11.0 | 0.0 | 27.8 | 44.4 | 0.0 | --3 |
| Waltham | 17 | 2,325 | 12 | 5.2 | 0.0 | 100.0 | 0.0 | 0.0 | 0.0 |
| Weymouth | 23 | 1,361 | --3 | --3 | 0.0 | --3 | 0.0 | 0.0 | --3 |
| Worcester | 2 | 7,696 | 73 | 9.5 | 0.0 | 68.5 | 12.3 | --3 | 25.0 |

**Table 14 (cont’d). Resident Teen Birth Characteristics, 30 Largest Municipalities, Massachusetts: 2022**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Municipality1** | **Public Payment for Prenatal Care4 (%)** | **Unmarried (%)** | **Low Birthweight5 (%)** | **Preterm6 (%)** | **Adequacy of Prenatal Care7 (% of teen births)** | | | |
| **Adequate Intensive** | **Adequate Basic** | **Intermediate** | **Inadequate8** |
| **State Total** | **85.6** | **91.2** | **11.5** | **10.8** | **24.3** | **36.4** | **11.2** | **28.1** |
| Arlington | --4 | --4 | --4 | --4 | --4 | --4 | --4 | --4 |
| Attleboro | --4 | 85.7 | --4 | --4 | --4 | --4 | --4 | --4 |
| Barnstable | 100.0 | 50.0 | 0.0 | 0.0 | --4 | --4 | 0.0 | --4 |
| Boston | 85.3 | 94.7 | 10.6 | 12.1 | 20.6 | 32.1 | 13.7 | 33.6 |
| Brockton | 93.0 | 96.5 | --4 | 10.2 | 25.9 | 36.2 | 12.1 | 25.9 |
| Brookline | --4 | --4 | --4 | --4 | 0.0 | 0.0 | --4 | 0.0 |
| Cambridge | --4 | --4 | 0.0 | 0.0 | --4 | --4 | --4 | --4 |
| Chicopee | 83.3 | 94.4 | --4 | --4 | 27.8 | 38.9 | --4 | --4 |
| Everett | 93.8 | 62.5 | --4 | 37.5 | --4 | 33.3 | --4 | 40.0 |
| Fall River | 90.7 | 90.7 | 10.9 | 10.9 | 40.0 | 28.9 | --4 | 24.4 |
| Framingham | 87.1 | 87.1 | --4 | --4 | 20.0 | 23.3 | --4 | 50.0 |
| Haverhill | 70.0 | 90.0 | --4 | --4 | 25.0 | 45.0 | --4 | 25.0 |
| Lawrence | 80.0 | 100.0 | 13.0 | 10.9 | 14.5 | 40.0 | 23.6 | 21.8 |
| Lowell | 93.3 | 84.4 | 15.6 | 13.3 | 27.9 | 44.2 | --4 | 23.3 |
| Lynn | 95.7 | 90.3 | --4 | --4 | 20.8 | 26.4 | 15.3 | 37.5 |
| Malden | 92.3 | 84.6 | 38.5 | --4 | --4 | --4 | --4 | --4 |
| Medford | --4 | --4 | --4 | --4 | 0.0 | 0.0 | 0.0 | --4 |
| Methuen | 66.7 | 91.7 | 0.0 | 0.0 | 0.0 | --4 | --4 | 60.0 |
| New Bedford | 97.9 | 91.7 | 17.0 | 13.2 | 34.6 | 23.1 | --4 | 34.6 |
| Newton | --4 | --4 | --4 | --4 | --4 | --4 | --4 | --4 |
| Peabody | --4 | --4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | --4 |
| Plymouth | --4 | --4 | 0.0 | 0.0 | --4 | --4 | 0.0 | --4 |
| Quincy | 71.4 | 87.5 | 0.0 | 0.0 | --4 | --4 | --4 | --4 |
| Revere | 86.7 | 93.3 | 0.0 | --4 | --4 | 40.0 | --4 | 33.3 |
| Somerville | 87.5 | 87.5 | --4 | --4 | --4 | --4 | --4 | --4 |
| Springfield | 96.6 | 96.6 | 14.3 | 15.1 | 18.5 | 45.4 | 12.6 | 23.5 |
| Taunton | 76.5 | 100.0 | --4 | --4 | 33.3 | 50.0 | --4 | --4 |
| Waltham | 100.0 | 91.7 | --4 | --4 | --4 | --4 | --4 | --4 |
| Weymouth | --4 | --4 | --4 | 0.0 | 0.0 | 0.0 | --4 | --4 |
| Worcester | 87.5 | 90.4 | 16.4 | --4 | 20.8 | 44.4 | 6.9 | 27.8 |

**NOTE:** Unless otherwise stated, all percentages are calculated based on only those births with known values for the characteristic(s) of interest.

1. The 30 largest municipalities are the cities and towns in Massachusetts with the largest populations according to the 2010 Census. 2. Birth rates represent the number of births per 1,000 females ages 15-19. Birth rates for cities and towns were calculated using UMASS Donahue Institute (UMDI) population estimates for 2019. 3. Counts and calculations based on values of 1-4 are excluded. 4. Government programs including CommonHealth, Healthy Start, Medicaid/MassHealth, and Medicare (may also be HMO or managed care), or free care; other: Worker's Compensation and other sources. 5. Less than 2,500 grams or 5.5 pounds. 6. Less than 37 weeks of gestational age. 7. Based on Adequacy of Prenatal Care Utilization (APNCU) Index. 8. Inadequate includes those birthing people with no prenatal care.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Table 15. Adequacy of Prenatal Care Utilization: Summary and Component Indices, Massachusetts: 2022** | | | | | | | | | | | |  |
|  | **Adequate Total1** | | **Adequate Intensive** | | **Adequate Basic** | | **Intermediate** | | **Inadequate** | | **Unknown** |
|  | n | % | n | % | n | % | n | % | n | % | n |
| **Summary Index** |  |  |  |  |  |  |  |  |  |  |  |  |
| Adequacy of Prenatal Care Utilization | 50,860 | 76.6 | 21,535 | 32.4 | 29,325 | 44.2 | 7,003 | 10.6 | 8,503 | 12.8 | 882 |  |
| **Component Indices** |  |  |  |  |  |  |  |  |  |  |  |  |
| Adequacy of Initiation | 58,499 | 88.1 | 19,841 | 29.9 | 38,658 | 58.2 | 4,381 | 6.6 | 3,486 | 5.3 | 882 |  |
| Adequacy of Received Services (Visits) | 57,434 | 86.5 | 26,597 | 40.1 | 30,837 | 46.5 | 7,685 | 11.6 | 1,247 | 1.9 | 882 |  |
| **NOTE:** All percentages are calculated based on the Adequacy of Prenatal Care Utilization (APNCU) Index**.**  1. Adequate Total is the sum of Adequate Intensive and Adequate Basic categories. | | | | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 16. Birth Characteristics**  **Pay**  **Births1** | | | | | **by Race/Hispanic Ethnicit ment, Massachusetts: 202**  **Teen Births2** | | | | **y and Sour 2** | **ce of Prenatal Care**  **Birthweight** | | |  |
| **Race/Ethnicity and Payment Source** | | |  |  | **<18 Years** | | | **<20 Years** | | **Very Low3** |  | **Low4** |  |
|  | | | **n** | **%** |  | **n** | **%** | **n** | **%** | **n** | **%** | **n** | **%** |
|  | **STATE TOTAL5** |  | **68,579** | **100.0** |  | **296** | **0.4** | **1,315** | **1.9** | **741** | **1.1** | **5,369** | **7.9** |
|  | **Public** |  | 25,820 | 38.6 |  | 250 | 1.0 | 1,083 | 4.2 | 335 | 1.3 | 2,281 | 8.8 |
|  | Medicaid6 |  | 21,655 | 32.3 |  | 213 | 1.0 | 935 | 4.3 | 285 | 1.3 | 1,958 | 9.0 |
|  | Other Public7 | | 4,165 | 6.2 |  | 37 | 0.9 | 148 | 3.6 | 50 | 1.2 | 323 | 7.8 |
|  | **Private8** |  | 40,213 | 60.1 |  | 31 | 0.1 | 179 | 0.4 | 330 | 0.8 | 2,764 | 6.9 |
|  | **American Indian** | **/ Alaska** |  |  |  |  |  |  |  |  |  |  |  |
|  | **Native Non-Hispanic** | | **294** | **100.0** |  | **--9** | **--9** | **11** | **3.7** | **--9** | **--9** | **21** | **7.1** |
|  | **Public** |  | 127 | 43.9 |  | --9 | --9 | 6 | 4.7 | --9 | --9 | 8 | 6.3 |
|  | Medicaid6 |  | 108 | 37.4 |  | --9 | --9 | --9 | --9 | --9 | --9 | 8 | 7.4 |
|  | Other Public7 | | 19 | 6.6 |  | 0 | 0.0 | --9 | --9 | 0 | 0.0 | 0 | 0.0 |
|  | **Private8** |  | 148 | 51.2 |  | 0 | 0.0 | 5 | 3.4 | 0 | 0.0 | 13 | 8.8 |
|  | **Asian/ Pacific Isl** | **ander** |  |  |  |  |  |  |  |  |  |  |  |
|  | **Non-Hispanic** | | **6,253** | **100.0** |  | **5** | **0.1** | **22** | **0.4** | **52** | **0.8** | **550** | **8.8** |
|  | **Public** |  | 1,330 | 21.5 |  | --9 | --9 | 15 | 1.1 | 17 | 1.3 | 136 | 10.2 |
|  | Medicaid6 |  | 1,165 | 18.9 |  | --9 | --9 | 15 | 1.3 | 17 | 1.5 | 122 | 10.5 |
|  | Other Public7 | | 165 | 2.7 |  | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 14 | 8.5 |
|  | **Private8** |  | 4,790 | 77.5 |  | --9 | --9 | 5 | 0.1 | 33 | 0.7 | 406 | 8.5 |
|  | **Black Non-Hispanic** | | **7,399** | **100.0** |  | **42** | **0.6** | **177** | **2.4** | **175** | **2.4** | **881** | **11.9** |
|  | **Public** |  | 4,663 | 63.9 |  | 36 | 0.8 | 143 | 3.1 | 92 | 2.0 | 542 | 11.6 |
|  | Medicaid6 |  | 4,157 | 57.0 |  | --9 | --9 | 134 | 3.2 | 82 | 2.0 | 484 | 11.6 |
|  | Other Public7 | | 506 | 6.9 |  | --9 | --9 | 9 | 1.8 | 10 | 2.0 | 58 | 11.5 |
|  | **Private8** |  | 2,485 | 34.1 |  | 5 | 0.2 | 25 | 1.0 | 71 | 2.9 | 290 | 11.7 |
|  | **Hispanic** |  | **15,170** | **100.0** |  | **184** | **1.2** | **747** | **4.9** | **199** | **1.3** | **1,246** | **8.2** |
|  | **Public** |  | 11,185 | 74.0 |  | 168 | 1.5 | 678 | 6.1 | 147 | 1.3 | 926 | 8.3 |
|  | Medicaid6 |  | 9,411 | 62.2 |  | 138 | 1.5 | 566 | 6.0 | 125 | 1.3 | 793 | 8.4 |
|  | Other Public7 | | 1,774 | 11.7 |  | 30 | 1.7 | 112 | 6.3 | 22 | 1.2 | 133 | 7.5 |
|  | **Private8** |  | 3,781 | 25.0 |  | 11 | 0.3 | 56 | 1.5 | 44 | 1.2 | 295 | 7.8 |
|  | **White Non-Hispanic** | | **37,820** | **100.0** |  | **56** | **0.1** | **321** | **0.8** | **291** | **0.8** | **2,534** | **6.7** |
|  | **Public** |  | 7,729 | 17.7 |  | 36 | 0.5 | 215 | 2.8 | 73 | 0.9 | 618 | 8.0 |
|  | Medicaid6 |  | 6,109 | 16.7 |  | --9 | --9 | 193 | 3.2 | 55 | 0.9 | 506 | 8.3 |
|  | Other Public7 | | 1,620 | 4.4 |  | --9 | --9 | 22 | 1.4 | 18 | 1.1 | 112 | 6.9 |
|  | **Private8** |  | 28,407 | 77.5 |  | 14 | 0.0 | 82 | 0.3 | 179 | 0.6 | 1,723 | 6.1 |

## Table 16 (cont’d). Birth Characteristics by Race/Hispanic Ethnicity and Source of Prenatal Care Payment, Massachusetts: 2022

**Race/Ethnicity and**

**Prenatal Care**

**Began 1st**

**Cesarean**

**Payment Source Adequate10**

**Trimester**

**Delivery Breastfeeding11 Smoking12**

**n % n % n % n % n %**

|  |  |
| --- | --- |
| **American Indian/ Alaska** | |
| **Native Non-Hispanic** |  |

|  |  |
| --- | --- |
| **Asian/ Pacific Islander** | |
| **Non-Hispanic** |  |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **STATE TOTAL5** |  | **51,888** | **76.7** | **52,774** | **78.0** | **22,650** | **33.1** | **59,478** | **88.8** | **1,513** | **2.3** |
| **Public** |  | 17,743 | 69.8 | 17,240 | 67.8 | 8,604 | 33.5 | 21,957 | 85.6 | 1,104 | 4.5 |
| Medicaid6 |  | 14,835 | 69.7 | 14,336 | 67.2 | 7,241 | 33.6 | 18,537 | 86.2 | 935 | 4.5 |
| Other Public7 | | 2,783 | 67.6 | 2,904 | 70.5 | 1,363 | 32.9 | 3,420 | 82.7 | 169 | 4.3 |
| **Private8** |  | 32,962 | 82.9 | 34,256 | 86.1 | 13,324 | 33.3 | 36,651 | 91.6 | 313 | 0.8 |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | | **220** | **75.9** | **220** | **75.9** | **89** | **30.4** | **248** | **85.8** | **23** | **8.2** |
| **Public** |  | 95 | 74.8 | 96 | 75.6 | 41 | 32.3 | 102 | 80.3 | 17 | 13.7 |
| Medicaid6 |  | 81 | 75.0 | 83 | 76.9 | 30 | 27.8 | 87 | 80.6 | --9 | --9 |
| Other Public7 | | 14 | 73.7 | 13 | 68.4 | 11 | 57.9 | 15 | 78.9 | --9 | --9 |
| **Private8** |  | 119 | 81.0 | 117 | 79.6 | 44 | 29.9 | 133 | 90.5 | --9 | --9 |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | | **4,744** | **76.9** | **4,994** | **80.8** | **1,937** | **31.0** | **5,698** | **92.1** | **34** | **0.6** |
| **Public** |  | 945 | 72.5 | 937 | 71.6 | 414 | 31.1 | 1,140 | 85.8 | 27 | 2.1 |
| Medicaid6 |  | 829 | 72.7 | 821 | 71.6 | 374 | 32.1 | 994 | 85.4 | --9 | --9 |
| Other Public7 | | 116 | 71.2 | 116 | 71.2 | 40 | 24.2 | 146 | 89.0 | --9 | --9 |
| **Private8** |  | 3,736 | 78.7 | 3,990 | 84.0 | 1,477 | 30.8 | 4,496 | 93.9 | 5 | 0.1 |
| **Black Non-Hispanic** | | **4,827** | **66.6** | **4,673** | **64.4** | **2,669** | **36.1** | **6,611** | **90.7** | **117** | **1.6** |
| **Public** |  | 2,821 | 61.7 | 2,676 | 58.4 | 1,631 | 35.0 | 4,166 | 89.5 | 94 | 2.1 |
| Medicaid6 |  | 2,515 | 61.7 | 2,359 | 57.8 | 1,438 | 34.6 | 3,733 | 90.0 | 78 | 1.9 |
| Other Public7 | | 306 | 61.4 | 317 | 63.5 | 193 | 38.1 | 433 | 85.7 | 16 | 3.3 |
| **Private8** |  | 1,929 | 78.4 | 1,924 | 78.1 | 951 | 38.3 | 2,309 | 93.4 | 14 | 0.6 |
| **Hispanic** |  | **10,385** | **69.2** | **10,504** | **69.9** | **4,991** | **32.9** | **13,243** | **87.5** | **209** | **1.4** |
| **Public** |  | 7,476 | 67.4 | 7,448 | 67.1 | 3,676 | 32.9 | 9,629 | 86.3 | 177 | 1.6 |
| Medicaid6 |  | 6,419 | 68.8 | 6,260 | 67.0 | 3,106 | 33.0 | 8,168 | 87.0 | 156 | 1.7 |
| Other Public7 | | 1,057 | 60.0 | 1,188 | 67.4 | 570 | 32.1 | 1,461 | 82.5 | 21 | 1.3 |
| **Private8** |  | 2,883 | 77.0 | 3,023 | 80.6 | 1,279 | 33.8 | 3,454 | 91.5 | 23 | 0.6 |
| **White Non-Hispanic** | | **30,692** | **82.0** | **31,339** | **83.6** | **12,444** | **32.9** | **32,446** | **88.5** | **1,115** | **3.0** |
| **Public** |  | 5,790 | 75.6 | 5,586 | 72.8 | 2,567 | 33.2 | 6,264 | 81.1 | 777 | 10.3 |
| Medicaid6 |  | 4,555 | 75.3 | 4,370 | 72.1 | 2,043 | 33.4 | 4,959 | 81.2 | 651 | 10.9 |
| Other Public7 | | 1,235 | 76.6 | 1,216 | 75.3 | 524 | 32.3 | 1,305 | 80.7 | 126 | 8.0 |
| **Private8** |  | 23,815 | 84.4 | 24,703 | 87.5 | 9,377 | 33.0 | 25,719 | 90.6 | 265 | 1.0 |

**NOTE:** All percentages are calculated based on only those births with known values for the characteristic(s) of interest, unless otherwise stated.

1. In the “Births” column, percentages are based on race/ethnicity category totals (in column). For all other characteristics, percentages are based on the total number of births for the race/ethnicity by payment source for the row. 2. Teen births include births to female ages less than 20, not just those ages 15-19.

3. Very low birthweight: less than 1,500 grams or 3.3 pounds. 4. Low Birthweight: less than 2,500 grams or 5.5 pounds. 5. Total births do not equal Public + Private because Workers’ Compensation, self-paid, and other are in the state total but not shown in the table. 6. Medicaid/MassHealth. 7. Other Public: CommonHealth, Healthy Start, Medicare, other government programs, and free care. 8. Private: commercial indemnity plans or commercial managed care organizations (HMO, PPO, IPP, or IPA). It does not include Self-Paid/Other. 9. Calculations based on values of 1-4 are excluded. 10. Based on the Adequacy of Prenatal Care Utilization (APNCU) Index. 11. Infant was being breastfed during the hospital stay. 12. Birthing person reported smoking during pregnancy.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table 17. Birth Characteristics: Occurrence and Resident Births, Massachusetts Municipalities: 2022** | | | | | |
| **Community** | **Occurrence Births**1 | **Resident Births**2 | | | |
| **Number of Births** | **Low Birthweight**  (Less than 2,500  grams, 5.5 lbs.) | **Preterm** (<37 weeks gestation) | **Teen Births**  (15-19 years) |
| **STATE TOTAL** | **69,513** | **68,579** | **5,369** | **6,243** | **1,302** |
|  |  |  |  |  |  |
| Abington | 3 | 217 | 10 | 19 | --3 |
| Acton | 1 | 190 | 12 | 8 | 0 |
| Acushnet | 0 | 84 | 7 | 9 | 0 |
| Adams | 0 | 81 | 17 | 17 | 5 |
| Agawam | 2 | 273 | 26 | 31 | 5 |
| Alford | 0 | 0 | 0 | 0 | 0 |
| Amesbury | 0 | 162 | 12 | 14 | --3 |
| Amherst | 1 | 104 | 9 | 14 | --3 |
| Andover | 0 | 326 | 29 | 27 | --3 |
| Aquinnah | 1 | 3 | 0 | 0 | 0 |
| Arlington | 5 | 464 | 31 | 34 | 0 |
| Ashburnham | 0 | 39 | --3 | --3 | 0 |
| Ashby | 2 | 30 | --3 | 6 | --3 |
| Ashfield | 1 | 11 | 0 | 0 | 0 |
| Ashland | 2 | 227 | 27 | 33 | --3 |
| Athol | 4 | 106 | 8 | 8 | 5 |
| Attleboro | 566 | 495 | 46 | 41 | 8 |
| Auburn | 2 | 158 | 14 | 14 | --3 |
| Avon | 0 | 55 | --3 | --3 | --3 |
| Ayer | 1 | 89 | 9 | 12 | 0 |
| Barnstable | 978 | 398 | 27 | 28 | 10 |
| Barre | 1 | 49 | 0 | --3 | 0 |
| Becket | 0 | 7 | 0 | 0 | 0 |
| Bedford | 1 | 115 | 13 | 10 | --3 |
| Belchertown | 1 | 124 | 11 | 11 | --3 |
| Bellingham | 1 | 169 | 14 | 18 | 0 |
| Belmont | 1 | 205 | 13 | 16 | 0 |
| Berkley | 0 | 51 | 5 | 7 | --3 |
| Berlin | 0 | 39 | --3 | --3 | 0 |
| Bernardston | 0 | 24 | --3 | --3 | 0 |
| Beverly | 2071 | 401 | 27 | 37 | 5 |
| Billerica | 3 | 455 | 41 | 42 | --3 |
| Blackstone | 1 | 83 | 5 | 7 | --3 |
| Blandford | 0 | 13 | 0 | --3 | 0 |
| Bolton | 0 | 43 | --3 | --3 | 0 |
| Boston | 21294 | 6768 | 628 | 655 | 132 |
| Bourne | 2 | 166 | 8 | 10 | --3 |
| Boxborough | 0 | 47 | --3 | --3 | 0 |
| Boxford | 2 | 66 | --3 | --3 | 0 |
| Boylston | 0 | 50 | --3 | --3 | --3 |
| Braintree | 0 | 351 | 28 | 47 | --3 |
| Brewster | 2 | 49 | --3 | --3 | --3 |
| Bridgewater | 1 | 255 | 17 | 21 | 0 |
| Brimfield | 1 | 35 | --3 | --3 | --3 |
| Brockton | 1936 | 1412 | 115 | 126 | 59 |
| Brookfield | 1 | 28 | --3 | --3 | 0 |
| Brookline | 5 | 482 | 36 | 39 | --3 |
| Buckland | 1 | 13 | --3 | 0 | 0 |
| Burlington | 1 | 277 | 18 | 23 | --3 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table 17. Birth Characteristics: Occurrence and Resident Births, Massachusetts Municipalities: 2022** | | | | | |
| **Community** | **Occurrence Births**1 | **Resident Births**2 | | | |
| **Number of Births** | **Low Birthweight**  (Less than 2,500  grams, 5.5 lbs.) | **Preterm** (<37 weeks gestation) | **Teen Births**  (15-19 years) |
| Cambridge | 3503 | 946 | 68 | 70 | 5 |
| Canton | 1 | 257 | 10 | 15 | --3 |
| Carlisle | 0 | 38 | 0 | --3 | 0 |
| Carver | 0 | 105 | 7 | 12 | 0 |
| Charlemont | 1 | 7 | 0 | 0 | 0 |
| Charlton | 0 | 103 | 8 | 9 | 0 |
| Chatham | 0 | 21 | --3 | --3 | 0 |
| Chelmsford | 5 | 365 | 25 | 33 | --3 |
| Chelsea | 0 | 558 | 40 | 51 | 26 |
| Cheshire | 0 | 18 | --3 | --3 | 0 |
| Chester | 0 | 20 | --3 | --3 | 0 |
| Chesterfield | 2 | 15 | 0 | --3 | 0 |
| Chicopee | 3 | 516 | 43 | 49 | 18 |
| Chilmark | 0 | 6 | --3 | 0 | 0 |
| Clarksburg | 0 | 8 | 0 | 0 | 0 |
| Clinton | 2 | 179 | 13 | 18 | --3 |
| Cohasset | 2 | 84 | --3 | 6 | 0 |
| Colrain | 0 | 12 | 0 | 0 | 0 |
| Concord | 1428 | 111 | 6 | 11 | --3 |
| Conway | 0 | 9 | 0 | --3 | 0 |
| Cummington | 0 | 4 | 0 | 0 | 0 |
| Dalton | 1 | 40 | --3 | --3 | 0 |
| Danvers | 1 | 216 | 15 | 18 | --3 |
| Dartmouth | 3 | 227 | 24 | 29 | --3 |
| Dedham | 4 | 302 | 16 | 15 | --3 |
| Deerfield | 0 | 26 | --3 | --3 | 0 |
| Dennis | 0 | 97 | 8 | 11 | --3 |
| Dighton | 3 | 71 | --3 | --3 | 0 |
| Douglas | 2 | 86 | 7 | 10 | --3 |
| Dover | 0 | 49 | 0 | -- | 0 |
| Dracut | 0 | 329 | 31 | 33 | --3 |
| Dudley | 3 | 92 | 5 | 7 | --3 |
| Dunstable | 0 | 30 | --3 | --3 | 0 |
| Duxbury | 0 | 124 | --3 | 5 | 0 |
| East Bridgewater | 1 | 111 | 6 | 11 | 0 |
| East Brookfield | 1 | 15 | --3 | --3 | 0 |
| East Longmeadow | 0 | 130 | 11 | 9 | --3 |
| Eastham | 0 | 24 | --3 | --3 | 0 |
| Easthampton | 0 | 113 | 8 | 18 | --3 |
| Easton | 1 | 202 | 15 | 22 | --3 |
| Edgartown | 2 | 42 | 7 | 6 | 0 |
| Egremont | 0 | 3 | 0 | 0 | 0 |
| Erving | 0 | 9 | 0 | 0 | 0 |
| Essex | 0 | 30 | --3 | --3 | 0 |
| Everett | 0 | 640 | 44 | 58 | 16 |
| Fairhaven | 0 | 108 | 7 | 7 | --3 |
| Fall River | 1379 | 1107 | 97 | 91 | 46 |
| Falmouth | 2 | 189 | 15 | 13 | 5 |
| Fitchburg | 3 | 518 | 52 | 57 | 18 |
| Florida | 0 | 3 | 0 | 0 | 0 |
| Foxborough | 2 | 197 | 10 | 14 | 0 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table 17. Birth Characteristics: Occurrence and Resident Births, Massachusetts Municipalities: 2022** | | | | | |
| **Community** | **Occurrence Births**1 | **Resident Births**2 | | | |
| **Number of Births** | **Low Birthweight**  (Less than 2,500  grams, 5.5 lbs.) | **Preterm** (<37 weeks gestation) | **Teen Births**  (15-19 years) |
| Framingham | 942 | 978 | 75 | 79 | 31 |
| Franklin | 0 | 278 | 18 | 22 | --3 |
| Freetown | 1 | 81 | 5 | --3 | 0 |
| Gardner | 309 | 214 | 17 | 20 | --3 |
| Georgetown | 1 | 89 | --3 | 5 | --3 |
| Gill | 0 | 7 | --3 | --3 | 0 |
| Gloucester | 7 | 225 | 16 | 18 | 0 |
| Goshen | 0 | 8 | 0 | --3 | 0 |
| Gosnold | 0 | 0 | 0 | 0 | 0 |
| Grafton | 0 | 164 | 19 | 17 | --3 |
| Granby | 3 | 42 | --3 | --3 | 0 |
| Granville | 0 | 13 | --3 | --3 | 0 |
| Great Barrington | 129 | 35 | 5 | 6 | --3 |
| Greenfield | 432 | 123 | 10 | 11 | --3 |
| Groton | 2 | 79 | --3 | --3 | 0 |
| Groveland | 1 | 62 | --3 | --3 | 0 |
| Hadley | 2 | 33 | --3 | --3 | --3 |
| Halifax | 0 | 69 | --3 | --3 | 0 |
| Hamilton | 1 | 67 | --3 | --3 | 0 |
| Hampden | 1 | 38 | --3 | 9 | 0 |
| Hancock | 0 | 0 | 0 | 0 | 0 |
| Hanover | 0 | 136 | --3 | 11 | 0 |
| Hanson | 2 | 100 | 5 | 10 | 0 |
| Hardwick | 1 | 15 | --3 | --3 | 0 |
| Harvard | 2 | 53 | 6 | 5 | 0 |
| Harwich | 1 | 74 | 3 | --3 | 0 |
| Hatfield | 0 | 28 | --3 | --3 | 0 |
| Haverhill | 4 | 792 | 61 | 81 | 20 |
| Hawley | 0 | 2 | 0 | 0 | 0 |
| Heath | 0 | 6 | --3 | --3 | 0 |
| Hingham | 0 | 245 | 21 | 26 | 0 |
| Hinsdale | 0 | 8 | --3 | --3 | 0 |
| Holbrook | 1 | 119 | 10 | 8 | --3 |
| Holden | 0 | 159 | 11 | 19 | --3 |
| Holland | 1 | 30 | 5 | --3 | 0 |
| Holliston | 0 | 149 | 9 | 13 | --3 |
| Holyoke | 2 | 420 | 48 | 49 | 27 |
| Hopedale | 2 | 59 | --3 | --3 | 0 |
| Hopkinton | 3 | 191 | 14 | 19 | 0 |
| Hubbardston | 2 | 37 | --3 | --3 | 0 |
| Hudson | 2 | 180 | 6 | 7 | --3 |
| Hull | 0 | 75 | 6 | 6 | --3 |
| Huntington | 3 | 26 | 6 | 7 | 0 |
| Ipswich | 1 | 107 | 9 | --3 | 0 |
| Kingston | 0 | 145 | 11 | 13 | --3 |
| Lakeville | 4 | 112 | 9 | 13 | --3 |
| Lancaster | 2 | 54 | --3 | --3 | 0 |
| Lanesborough | 0 | 18 | --3 | --3 | --3 |
| Lawrence | 1430 | 1376 | 108 | 119 | 55 |
| Lee | 0 | 36 | --3 | --3 | 0 |
| Leicester | 0 | 90 | 5 | 10 | 0 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table 17. Birth Characteristics: Occurrence and Resident Births, Massachusetts Municipalities: 2022** | | | | | |
| **Community** | **Occurrence Births**1 | **Resident Births**2 | | | |
| **Number of Births** | **Low Birthweight**  (Less than 2,500  grams, 5.5 lbs.) | **Preterm** (<37 weeks gestation) | **Teen Births**  (15-19 years) |
| Lenox | 0 | 17 | --3 | --3 | 0 |
| Leominster | 509 | 440 | 31 | 39 | 15 |
| Leverett | 0 | 9 | 0 | 0 | 0 |
| Lexington | 2 | 148 | 11 | 12 | --3 |
| Leyden | 0 | 6 | 0 | 0 | 0 |
| Lincoln | 0 | 83 | 5 | 7 | 0 |
| Littleton | 2 | 88 | --3 | 7 | --3 |
| Longmeadow | 3 | 118 | --3 | 10 | 0 |
| Lowell | 1805 | 1447 | 137 | 138 | 45 |
| Ludlow | 1 | 145 | 20 | 23 | 0 |
| Lunenburg | 4 | 108 | 7 | 8 | --3 |
| Lynn | 4 | 1520 | 130 | 140 | 72 |
| Lynnfield | 1 | 128 | --3 | 7 | 0 |
| Malden | 4 | 762 | 54 | 61 | 13 |
| Manchester | 1 | 30 | --3 | 0 | 0 |
| Mansfield | 1 | 231 | 6 | 16 | --3 |
| Marblehead | 1 | 158 | 9 | 13 | 0 |
| Marion | 0 | 35 | 0 | --3 | 0 |
| Marlborough | 5 | 523 | 46 | 58 | 16 |
| Marshfield | 3 | 244 | 21 | 35 | 0 |
| Mashpee | 4 | 106 | 6 | 9 | --3 |
| Mattapoisett | 0 | 30 | 0 | --3 | 0 |
| Maynard | 1 | 99 | 7 | 7 | --3 |
| Medfield | 2 | 108 | 5 | 8 | 0 |
| Medford | 3 | 646 | 45 | 60 | --3 |
| Medway | 3 | 133 | 8 | 9 | --3 |
| Melrose | 753 | 325 | 22 | 34 | --3 |
| Mendon | 1 | 58 | --3 | --3 | --3 |
| Merrimac | 0 | 52 | --3 | --3 | 0 |
| Methuen | 1234 | 513 | 37 | 45 | 12 |
| Middleborough | 2 | 238 | 15 | 18 | 6 |
| Middlefield | 0 | 1 | 0 | 0 | 0 |
| Middleton | 0 | 72 | 8 | 7 | 0 |
| Milford | 996 | 414 | 18 | 26 | 19 |
| Millbury | 0 | 119 | 11 | 12 | --3 |
| Millis | 1 | 89 | --3 | --3 | 0 |
| Millville | 1 | 22 | --3 | --3 | --3 |
| Milton | 4 | 277 | 24 | 23 | 0 |
| Monroe | 0 | 0 | 0 | 0 | 0 |
| Monson | 0 | 56 | --3 | 5 | --3 |
| Montague | 1 | 70 | --3 | 5 | --3 |
| Monterey | 1 | 2 | 0 | 0 | 0 |
| Montgomery | 1 | 7 | 0 | 0 | 0 |
| Mount Washington | 0 | 0 | 0 | 0 | 0 |
| Nahant | 0 | 27 | --3 | --3 | 0 |
| Nantucket | 153 | 173 | 10 | 12 | --3 |
| Natick | 6 | 393 | 24 | 32 | --3 |
| Needham | 0 | 291 | 21 | 26 | 0 |
| New Ashford | 0 | 2 | 0 | 0 | 0 |
| New Bedford | 1770 | 1227 | 121 | 120 | 53 |
| New Braintree | 0 | 4 | --3 | 0 | 0 |

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| --- | --- | --- | --- | --- | --- |
| **Table 17. Birth Characteristics: Occurrence and Resident Births, Massachusetts Municipalities: 2022** | | | | | |
| **Community** | **Occurrence Births**1 | **Resident Births**2 | | | |
| **Number of Births** | **Low Birthweight**  (Less than 2,500  grams, 5.5 lbs.) | **Preterm** (<37 weeks gestation) | **Teen Births**  (15-19 years) |
| New Marlborough | 0 | 3 | 0 | 0 | 0 |
| New Salem | 0 | 6 | 0 | 0 | 0 |
| Newbury | 1 | 59 | --3 | 6 | 0 |
| Newburyport | 620 | 130 | --3 | 9 | 0 |
| Newton | 3884 | 643 | 41 | 51 | 0 |
| Norfolk | 1 | 137 | --3 | 5 | 0 |
| North Adams | 1 | 106 | 10 | 14 | 12 |
| North Andover | 3 | 239 | 13 | 19 | --3 |
| North Attleborough | 4 | 270 | 19 | 20 | --3 |
| North Brookfield | 0 | 42 | --3 | 6 | 0 |
| North Reading | 0 | 158 | 8 | 7 | 0 |
| Northampton | 691 | 129 | 13 | 11 | --3 |
| Northborough | 5 | 154 | 11 | 15 | --3 |
| Northbridge | 2 | 183 | 15 | 17 | --3 |
| Northfield | 1 | 22 | --3 | --3 | 0 |
| Norton | 0 | 159 | 13 | 15 | --3 |
| Norwell | 1 | 127 | 6 | 12 | 0 |
| Norwood | 0 | 410 | 32 | 39 | 5 |
| Oak Bluffs | 122 | 49 | --3 | --3 | 0 |
| Oakham | 0 | 11 | --3 | --3 | 0 |
| Orange | 3 | 73 | --3 | --3 | 0 |
| Orleans | 0 | 21 | 0 | 0 | 0 |
| Otis | 1 | 7 | --3 | --3 | 0 |
| Oxford | 3 | 132 | 7 | 17 | 0 |
| Palmer | 2 | 92 | 8 | 13 | --3 |
| Paxton | 0 | 35 | 0 | 0 | 0 |
| Peabody | 4 | 491 | 33 | 46 | --3 |
| Pelham | 1 | 7 | --3 | --3 | 0 |
| Pembroke | 1 | 200 | 14 | 14 | --3 |
| Pepperell | 3 | 113 | 6 | 15 | --3 |
| Peru | 0 | 8 | 0 | 0 | 0 |
| Petersham | 3 | 8 | 0 | 0 | 0 |
| Phillipston | 1 | 16 | 0 | 0 | 0 |
| Pittsfield | 566 | 373 | 34 | 43 | 15 |
| Plainfield | 0 | 6 | 0 | --3 | 0 |
| Plainville | 1 | 81 | 8 | 10 | 0 |
| Plymouth | 1007 | 518 | 35 | 38 | --3 |
| Plympton | 0 | 27 | 0 | --3 | 0 |
| Princeton | 0 | 29 | --3 | --3 | 0 |
| Provincetown | 0 | 6 | 0 | 0 | 0 |
| Quincy | 7 | 1004 | 84 | 85 | 8 |
| Randolph | 2 | 378 | 50 | 60 | --3 |
| Raynham | 1 | 142 | 12 | 14 | --3 |
| Reading | 0 | 252 | 16 | 20 | 0 |
| Rehoboth | 2 | 101 | 5 | 12 | 0 |
| Revere | 5 | 748 | 53 | 66 | 15 |
| Richmond | 0 | 3 | 0 | --3 | 0 |
| Rochester | 0 | 39 | --3 | --3 | 0 |
| Rockland | 1 | 173 | 15 | 23 | --3 |
| Rockport | 1 | 25 | --3 | --3 | 0 |
| Rowe | 0 | 5 | --3 | --3 | 0 |

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| --- | --- | --- | --- | --- | --- |
| **Table 17. Birth Characteristics: Occurrence and Resident Births, Massachusetts Municipalities: 2022** | | | | | |
| **Community** | **Occurrence Births**1 | **Resident Births**2 | | | |
| **Number of Births** | **Low Birthweight**  (Less than 2,500  grams, 5.5 lbs.) | **Preterm** (<37 weeks gestation) | **Teen Births**  (15-19 years) |
| Rowley | 0 | 61 | --3 | 5 | 0 |
| Royalston | 0 | 3 | 0 | 0 | 0 |
| Russell | 0 | 18 | --3 | --3 | --3 |
| Rutland | 0 | 91 | 5 | 6 | 0 |
| Salem | 1290 | 484 | 44 | 49 | 10 |
| Salisbury | 1 | 53 | --3 | --3 | 0 |
| Sandisfield | 0 | 5 | 0 | 0 | 0 |
| Sandwich | 0 | 158 | 12 | 21 | --3 |
| Saugus | 1 | 307 | 26 | 34 | --3 |
| Savoy | 0 | 6 | 0 | 0 | 0 |
| Scituate | 3 | 187 | 5 | 7 | --3 |
| Seekonk | 1 | 120 | 7 | 11 | --3 |
| Sharon | 4 | 152 | 12 | 14 | --3 |
| Sheffield | 0 | 19 | --3 | --3 | 0 |
| Shelburne | 0 | 13 | --3 | --3 | 0 |
| Sherborn | 2 | 34 | --3 | --3 | 0 |
| Shirley | 0 | 68 | 9 | 9 | --3 |
| Shrewsbury | 1 | 299 | 27 | 31 | --3 |
| Shutesbury | 2 | 10 | 0 | 0 | 0 |
| Somerset | 0 | 132 | 14 | 12 | --3 |
| Somerville | 6 | 713 | 53 | 57 | 8 |
| South Hadley | 1 | 137 | 14 | 15 | --3 |
| Southampton | 1 | 41 | --3 | --3 | 0 |
| Southborough | 0 | 100 | 7 | 6 | --3 |
| Southbridge | 7 | 193 | 21 | 24 | 17 |
| Southwick | 0 | 66 | --3 | 6 | --3 |
| Spencer | 0 | 121 | 13 | 14 | 6 |
| Springfield | 5190 | 1931 | 203 | 230 | 119 |
| Sterling | 5 | 65 | --3 | 7 | 0 |
| Stockbridge | 1 | 8 | 0 | 0 | 0 |
| Stoneham | 0 | 251 | 17 | 20 | 0 |
| Stoughton | 6 | 294 | 29 | 23 | --3 |
| Stow | 0 | 62 | 5 | 7 | 0 |
| Sturbridge | 3 | 95 | 6 | 11 | --3 |
| Sudbury | 2 | 162 | 12 | 18 | 0 |
| Sunderland | 0 | 17 | --3 | --3 | 0 |
| Sutton | 1 | 75 | 5 | 7 | 0 |
| Swampscott | 2 | 146 | 6 | 11 | 0 |
| Swansea | 2 | 129 | 7 | 9 | --3 |
| Taunton | 8 | 614 | 65 | 74 | 18 |
| Templeton | 2 | 80 | 7 | 7 | --3 |
| Tewksbury | 2 | 292 | 20 | 31 | --3 |
| Tisbury | 1 | 43 | --3 | --3 | --3 |
| Tolland | 0 | 0 | 0 | 0 | 0 |
| Topsfield | 0 | 37 | --3 | --3 | 0 |
| Townsend | 1 | 94 | 5 | 11 | 0 |
| Truro | 0 | 11 | --3 | --3 | 0 |
| Tyngsborough | 0 | 131 | 7 | 9 | --3 |
| Tyringham | 0 | 2 | 0 | 0 | 0 |
| Upton | 1 | 68 | 9 | 8 | 0 |
| Uxbridge | 7 | 130 | 9 | 17 | 0 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table 17. Birth Characteristics: Occurrence and Resident Births, Massachusetts Municipalities: 2022** | | | | | |
| **Community** | **Occurrence Births**1 | **Resident Births**2 | | | |
| **Number of Births** | **Low Birthweight**  (Less than 2,500  grams, 5.5 lbs.) | **Preterm** (<37 weeks gestation) | **Teen Births**  (15-19 years) |
| Wakefield | 1 | 288 | 22 | 28 | --3 |
| Wales | 0 | 12 | --3 | --3 | 0 |
| Walpole | 2 | 275 | 9 | 17 | --3 |
| Waltham | 4 | 656 | 51 | 52 | 12 |
| Ware | 2 | 73 | --3 | --3 | --3 |
| Wareham | 4 | 188 | 9 | 14 | 6 |
| Warren | 2 | 35 | --3 | --3 | --3 |
| Warwick | 1 | 5 | 0 | 0 | 0 |
| Washington | 0 | 2 | 0 | 0 | 0 |
| Watertown | 3 | 390 | 35 | 37 | --3 |
| Wayland | 2 | 110 | --3 | 5 | 0 |
| Webster | 3 | 187 | 29 | 30 | 6 |
| Wellesley | 2 | 218 | 10 | 18 | --3 |
| Wellfleet | 0 | 14 | --3 | --3 | 0 |
| Wendell | 1 | 6 | --3 | 0 | --3 |
| Wenham | 0 | 47 | --3 | 0 | 0 |
| West Boylston | 0 | 63 | 5 | --3 | 0 |
| West Bridgewater | 2 | 68 | --3 | --3 | --3 |
| West Brookfield | 0 | 34 | 9 | 6 | --3 |
| West Newbury | 0 | 37 | --3 | --3 | 0 |
| West Springfield | 5 | 305 | 28 | 38 | 8 |
| West Stockbridge | 1 | 3 | 0 | 0 | 0 |
| West Tisbury | 2 | 24 | 0 | --3 | 0 |
| Westborough | 3 | 216 | 12 | 12 | 0 |
| Westfield | 0 | 381 | 28 | 31 | 9 |
| Westford | 0 | 189 | 11 | 11 | 0 |
| Westhampton | 0 | 12 | 0 | 0 | 0 |
| Westminster | 2 | 72 | 5 | 6 | 0 |
| Weston | 1 | 83 | --3 | --3 | 0 |
| Westport | 0 | 101 | 8 | 12 | --3 |
| Westwood | 0 | 142 | --3 | 6 | 0 |
| Weymouth | 3231 | 696 | 65 | 69 | --3 |
| Whately | 0 | 12 | 0 | --3 | 0 |
| Whitman | 0 | 158 | 16 | 23 | --3 |
| Wilbraham | 0 | 107 | 6 | 13 | 0 |
| Williamsburg | 0 | 8 | 0 | --3 | 0 |
| Williamstown | 0 | 34 | --3 | --3 | 0 |
| Wilmington | 1 | 250 | 22 | 21 | --3 |
| Winchendon | 1 | 80 | 6 | 7 | 0 |
| Winchester | 2662 | 188 | 9 | --3 | 0 |
| Windsor | 1 | 7 | --3 | 0 | 0 |
| Winthrop | 0 | 168 | 7 | 5 | --3 |
| Woburn | 4 | 521 | 44 | 49 | 9 |
| Worcester | 6237 | 2268 | 209 | 238 | 73 |
| Worthington | 0 | 6 | 0 | 0 | 0 |
| Wrentham | 1 | 126 | 5 | 7 | 0 |
| Yarmouth | 0 | 194 | 7 | 16 | --3 |
| 1. Births occurring in a geographical place (state, city/town) regardless of the residency of the birthing person. 2. Births to birthing  people who report their usual place of residence as a particular geographical place (state, or city/town). See “Note to Readers” for more details. 3. Due to small numbers (n=1-4), exact count not provided. | | | | | |

**Table 18. Birth Characteristics: Occurrence and Resident Births by County, Massachusetts: 2022**

1. Births occurring in a geographical place (state, city/town) regardless of the residency of the birthing person. 2. Births to birthing people who report their usual place of residence as a particular geographical place (state, or city/town). See “Note to Readers” for more details. 3. Less than 2,500 grams (5.5 lbs.). 4. Less than 37 weeks gestation. 5. Due to small numbers (n=1-4), exact count not provided.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **County** | **Occurrence Births1** | **Resident Births2** | | | |
| **Number of Births** | **Low Birthweight3** | **Preterm4** | **Teen Births (15-19 Years)** |
| **STATE TOTAL** | **69,513** | **68,579** | **5,369** | **6,243** | **1,302** |
| BARNSTABLE | 989 | 1,528 | 93 | 118 | 27 |
| BERKSHIRE | 702 | 864 | 83 | 97 | 34 |
| BRISTOL | 3,742 | 5,652 | 486 | 527 | 143 |
| DUKES | 128 | 167 | 14 | 14 | --5 |
| ESSEX | 6,683 | 8,535 | 620 | 736 | 184 |
| FRANKLIN | 444 | 503 | 31 | 35 | --5 |
| HAMPDEN | 5,212 | 4,726 | 446 | 527 | 195 |
| HAMPSHIRE | 708 | 917 | 73 | 93 | 18 |
| MIDDLESEX | 15,061 | 16,297 | 1,208 | 1,404 | 201 |
| NANTUCKET | 153 | 173 | 10 | 12 | --5 |
| NORFOLK | 3,283 | 7,154 | 519 | 612 | 40 |
| PLYMOUTH | 2,971 | 5,338 | 357 | 469 | 85 |
| SUFFOLK | 21,299 | 8,242 | 728 | 777 | 175 |
| WORCESTER | 8,138 | 8,483 | 701 | 822 | 193 |
| UNKNOWN | 0 | 0 | 0 | 0 | 0 |

## Table 19. Birth Characteristics: Occurrence and Resident Births, Massachusetts Community Health Network Areas (CHNAs), Massachusetts: 2022

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Community Health Network Area** | **Occurrence Births1** | **Resident Births2** | | | |
| **Number of Births** | **LBW3** | **Preterm4** | **Teen Births (15-19 Years)** |
| **STATE TOTAL** | **69,513** | **68,579** | **5,369** | **6,243** | **1,302** |
| 1. Community Health Network of Berkshire County | 702 | 864 | 83 | 97 | 34 |
| 2. Upper Valley Health Web (Franklin County) | 452 | 636 | 39 | 43 | 8 |
| 3. Partnership for Health in Hampshire County (Northampton) | 705 | 891 | 67 | 86 | 18 |
| 4. The Community Health Connection (Springfield) | 5,204 | 3,167 | 298 | 368 | 140 |
| 5. Community Health Network of Southern Worcester County | 25 | 1,154 | 114 | 136 | 36 |
| 6. Community Partners for Health (Milford) | 1,018 | 1,758 | 115 | 151 | 28 |
| 7. Community Health Network of Greater Metro West (Framingham) | 985 | 4,591 | 303 | 380 | 63 |
| 8. Community Wellness Coalition (Worcester) | 6,240 | 3,405 | 304 | 347 | 82 |
| 9. Fitchburg/Gardner Community Health Network | 854 | 2,693 | 214 | 258 | 50 |
| 10. Greater Lowell Community Health Network | 1,815 | 3,238 | 274 | 300 | 56 |
| 11. Greater Lawrence Community Health Network | 2,667 | 2,526 | 195 | 217 | 69 |
| 12. Greater Haverhill Community Health Network | 630 | 1,563 | 98 | 132 | 23 |
| 13. Community Health Network North (Beverly/Gloucester) | 2,082 | 969 | 59 | 67 | 5 |
| 14. North Shore Community Health Network | 1,304 | 3,477 | 268 | 320 | 87 |
| 15. Greater Woburn/Concord/Littleton Community Health Network | 4,102 | 2,056 | 146 | 157 | 17 |
| 16. North Suburban Health Alliance (Medford/Malden/Melrose) | 761 | 3,322 | 228 | 288 | 36 |
| 17. Greater Cambridge/Somerville Community Health Network | 3,518 | 2,718 | 200 | 214 | 15 |
| 18. West Suburban Health Network (Newton/Waltham) | 3,900 | 2,866 | 181 | 213 | 17 |
| 19. Alliance for Community Health (Boston/Chelsea/Revere/Winthrop) | 21,299 | 8,242 | 728 | 777 | 175 |
| 20. Blue Hills Community Health Alliance (Greater Quincy) | 3,255 | 4,243 | 347 | 409 | 27 |
| 21. Four (For) Communities (Holyoke, Chicopee, Ludlow, Westfield) | 9 | 1,508 | 146 | 160 | 54 |
| 22. Greater Brockton Community Health Network | 1,951 | 2,891 | 223 | 259 | 69 |
| 23. South Shore Community Partners in Prevention (Plymouth) | 1,014 | 1,841 | 117 | 165 | 7 |
| 24. Greater Attleboro-Taunton Health & Education Response | 592 | 2,604 | 205 | 243 | 40 |
| 25. Partners for a Healthier Community (Fall River) | 1,381 | 1,469 | 126 | 124 | 50 |
| 26. Greater New Bedford Health & Human Services Coalition | 1,778 | 2,019 | 180 | 188 | 65 |
| 27. Cape and Islands Community Health Network | 1,270 | 1,868 | 106 | 144 | 31 |

1. Births occurring in a geographical place (state, city/town) regardless of the residency of the birthing person. 2. Births to birthing people who report their usual place of residence as a particular geographical place (state, city/town). See “Note to Readers” for more details. 3. Less than 2,500 grams (5.5 lbs.). 4. Less than 37 weeks gestation.

## Figure 6. Reported Smoking During Pregnancy, Percent of All Infants, Massachusetts: 1990 - 2022

25.0%

20.0%

15.0%

**Percent**

10.0%

5.0%

0.0%

1990 1995 2000 2005 2010 2015 2020

## Year

NOTE: Smoking not available prior to 1987.



## Table 20. Cesarean Deliveries and Vaginal Births after Cesarean (VBACs) by Licensed Maternity Facility, All Birthing People, Massachusetts: 2022

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Facility1** | **Occurrence Deliveries2** | **Total Cesareans2** | | **Primary Cesareans2** | | **Repeat Cesareans2** | | **VBACs2** | |
|  |  | **N** | **%3** | **N** | **%** | **N** | **%** | **N** | **%** |
| **State Total** | **66,093** | **21,362** | **32.4** | **12,109** | **22.0** | **9,253** | **85.2** | **1,609** | **14.8** |
| Anna Jaques Hospital | 504 | 180 | 35.7 | 107 | 25.4 | 73 | 88.0 | 10 | 12.0 |
| Baystate Franklin Medical Center | 402 | 121 | 30.1 | 66 | 19.8 | 55 | 79.7 | 14 | 20.3 |
| Baystate Medical Center | 4,076 | 1,393 | 34.2 | 770 | 23.1 | 623 | 84.5 | 114 | 15.5 |
| Berkshire Medical Center | 532 | 153 | 28.8 | 100 | 21.2 | 53 | 88.3 | 7 | 11.7 |
| Beth Israel Deaconess Hospital - Plymouth | 986 | 281 | 28.5 | 152 | 18.2 | 129 | 84.9 | 23 | 15.1 |
| Beth Israel Deaconess Medical Center | 4,754 | 1,639 | 34.5 | 1,050 | 25.8 | 589 | 86.1 | 95 | 13.9 |
| Beverly Hospital | 2,005 | 625 | 31.2 | 351 | 20.8 | 274 | 86.4 | 43 | 13.6 |
| Boston Medical Center | 2,906 | 915 | 31.5 | 551 | 23.4 | 364 | 66.5 | 183 | 33.5 |
| Brigham And Women’s Hospital | 6,658 | 2,218 | 33.3 | 1,354 | 23.9 | 864 | 87.4 | 124 | 12.6 |
| Brockton Hospital | 1,371 | 400 | 29.2 | 195 | 17.3 | 205 | 84.0 | 39 | 16.0 |
| Cambridge Hospital | 1,222 | 401 | 32.8 | 185 | 18.9 | 216 | 88.2 | 29 | 11.8 |
| Cape Cod Hospital | 954 | 351 | 36.8 | 188 | 24.4 | 163 | 89.6 | 19 | 10.4 |
| Charlton Memorial Hospital | 1,277 | 412 | 32.3 | 199 | 18.8 | 213 | 96.8 | 7 | 3.2 |
| Cooley Dickinson Hospital | 562 | 171 | 30.4 | 110 | 22.2 | 61 | 91.0 | 6 | 9.0 |
| Emerson Hospital | 1,368 | 450 | 32.9 | 243 | 21.9 | 207 | 80.5 | 50 | 19.5 |
| Fairview Hospital | 113 | 25 | 22.1 | 16 | 15.4 | 9 | 100.0 | 0 | 0.0 |
| Good Samaritan Medical Center | 519 | 196 | 37.8 | 101 | 24.3 | 95 | 91.3 | 9 | 8.7 |
| HealthAlliance - Clinton Hospital, Leominster | 494 | 143 | 28.9 | 72 | 17.1 | 71 | 98.6 | --4 | --4 |
| Heywood Hospital | 294 | 60 | 20.4 | 30 | 11.7 | 30 | 81.1 | 7 | 18.9 |
| Lawrence General Hospital | 1,324 | 513 | 38.7 | 221 | 21.7 | 292 | 95.1 | 15 | 4.9 |
| Lowell General Hospital | 1,623 | 457 | 28.2 | 217 | 16.3 | 240 | 83.3 | 48 | 16.7 |
| Martha’s Vineyard Hospital | 118 | 40 | 33.9 | 17 | 18.1 | 23 | 95.8 | --4 | --4 |
| Massachusetts General Hospital | 3,510 | 1,060 | 30.2 | 667 | 22.2 | 393 | 78.4 | 108 | 21.6 |
| Melrose-Wakefield Hospital | 731 | 237 | 32.4 | 134 | 21.5 | 103 | 94.5 | 6 | 5.5 |
| Mercy Medical Center | 772 | 214 | 27.7 | 108 | 16.5 | 106 | 91.4 | 10 | 8.6 |
| Metrowest Med Ctr - Framingham Union Hospital | 923 | 329 | 35.6 | 131 | 18.9 | 198 | 85.7 | 33 | 14.3 |
| Milford Regional Medical Center | 933 | 336 | 36.0 | 178 | 23.5 | 158 | 89.8 | 18 | 10.2 |
| Mt. Auburn Hospital | 2,194 | 504 | 23.0 | 297 | 15.7 | 207 | 68.3 | 96 | 31.7 |
| Nantucket Cottage Hospital | 153 | 53 | 34.6 | 22 | 18.0 | 31 | 100.0 | 0 | 0.0 |
| Newton-Wellesley Hospital | 3,766 | 1,273 | 33.8 | 754 | 23.8 | 519 | 86.2 | 83 | 13.8 |
| North Shore Birth Center | 2 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| North Shore Medical Center - Salem Hospital | 1,261 | 428 | 33.9 | 271 | 25.4 | 157 | 81.3 | 36 | 18.7 |
| Saint Vincent Hospital | 1,542 | 509 | 33.0 | 279 | 22.0 | 230 | 84.2 | 43 | 15.8 |
| Seven Sisters Midwifery & Community Birth Ctr | 108 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| South Shore Hospital | 3,157 | 1,158 | 36.7 | 675 | 26.0 | 483 | 86.4 | 76 | 13.6 |
| St. Elizabeth’s Medical Center | 1,073 | 271 | 25.3 | 241 | 23.1 | 30 | 100.0 | 0 | 0.0 |
| St. Lukes Hospital | 1,721 | 547 | 31.8 | 275 | 19.2 | 272 | 93.5 | 19 | 6.5 |
| Steward Holy Family Hospital | 1,031 | 420 | 40.7 | 175 | 22.3 | 245 | 98.8 | --4 | --4 |
| Sturdy Memorial Hospital | 483 | 175 | 36.2 | 96 | 24.2 | 79 | 90.8 | 8 | 9.2 |
| Tufts Medical Center | 1,177 | 490 | 41.6 | 283 | 30.0 | 207 | 88.1 | 28 | 11.9 |
| UMass Memorial Medical Ctr - Memorial Campus | 4,373 | 1,437 | 32.9 | 790 | 22.0 | 647 | 82.6 | 136 | 17.4 |
| Winchester Hospital | 2,478 | 775 | 31.3 | 436 | 20.8 | 339 | 89.9 | 38 | 10.1 |

**NOTE:** This table is based on birthing people and not births. All percentages are calculated based on only those **birthing people** with known values for the characteristic(s) of interest.

1. A licensed maternity facility is a medical unit licensed by the Commonwealth for the care of birthing people during pregnancy and childbirth.
2. The counts and percentages provided in this table are based on occurrence deliveries by unique birthing people, meaning that if a person has more than one delivery in a calendar year, the data capture one event even if the delivery is of multiple infants (i.e., twins, triplets) and may differ from data that are based on resident births presented elsewhere in this report. 3. The percentage of Cesarean births reported is not adjusted for risk factors such as age of birthing person, birthweight, or complications of labor and delivery, which would influence the number of procedures in a particular facility. Caution should be used when comparing unadjusted percentages. 4. Calculations based on values of 1-4 are excluded.

**Figure 7. Body Mass Index (BMI) Prior to Pregnancy, All Birthing People, Massachusetts: 2022**

100%

**Percent of Birthing People**

80%

60%

40%

20%

0%

2.5%

44.0%

28.1% 25.4%

Underweight (BMI<18.5)

Normal (18.5-24.9)

# BMI Levels

Overweight (25.0-29.9)

Obese (BMI≥30)

## Figure 8. Obesity Prior to Pregnancy by Race/Hispanic Ethnicity, All Birthing People, Massachusetts: 2022

50%

40%

**Percent of Birthing People**

30%

20%

10%

32.5%

11.6%

34.5% 31.8%

23.3%

0%

American Indian/

Alaska Native Non-Hispanic

Asian/ Pacific Islander

Non-Hispanic

Black Non-Hispanic

# Race/Ethnicity

Hispanic White Non-Hispanic

**NOTE:** These figures are based on birthing people and not births.

## Figure 9. Birthing People Who Reported Having Their Teeth Cleaned During Pregnancy by Race/Hispanic Ethnicity, All Birthing People, Massachusetts: 2022

100%

80%

**Percent of Birthing People**

60%

40%

45.9% 43.1%

29.3%

36.1%

56.8%

47.4%

20%

0%

American Indian/

Alaska Native

Asian/ Pacific Islander

Black Non-Hispanic

Hispanic White Non-Hispanic

All

Non-Hispanic

Non-Hispanic

# Race/Ethnicity

## Figure 10. Birthing People Who Reported Having Received WIC Food During Pregnancy by Race/Hispanic Ethnicity, All Birthing People, Massachusetts: 2022

100%

80%

**Percent of Birthing People**

60%

40%

20%

33.8%

16.2%

54.1%

62.5%

13.3%

29.5%

0%

American Indian/

Alaska Native Non-Hispanic

Asian/ Pacific Islander

Non-Hispanic

Black Non-Hispanic

Hispanic White Non-Hispanic

All

# Race/Ethnicity



**NOTE:** These figures are based on birthing people and not births.

## Figure 11. Birthing People Who Reported Smoking During Pregnancy by Race/Hispanic Ethnicity, All Birthing People, Massachusetts: 2022

25%

20%

**Percent of Birthing People**

15%

10%

8.3%

5%

0.6%

0%

1.6% 1.4%

3.0%

2.3%

American Indian/ Alaska Native Non-Hispanic

Asian/ Pacific Islander

Non-Hispanic

Black Hispanic White Non-Hispanic Non-Hispanic

# Race/Ethnicity

Total



**NOTE:** This figure is based on birthing people and not births.

## Table 21. Birthing People Who Used Infertility Treatments, Massachusetts: 2022

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Assisted Reproductive Technology (ART) with or without Artificial Insemination and/or Fertility Drugs1** | | **Artificial Insemination with or without Fertility Drugs2** | | **Fertility Enhancing Drugs Only3** | |
|  | **N** | **%4** | **N** | **%4** | **N** | **%4** |
| **State Total** | 3,384 | 76.0% | 582 | 13.1% | 488 | 11.0% |
| **Demographics** | | | | | | |
| **Race/Hispanic Ethnicity** | **N** | **%5** | **N** | **%5** | **N** | **%5** |
| American Indian/ Alaska Native Non-Hispanic | 6 | 0.2% | --9 | --9 | --9 | --9 |
| Asian/ Pacific Islander Non-Hispanic | 475 | 14.2% | 56 | 9.6% | 71 | 14.5% |
| Black Non-Hispanic | 115 | 3.4% | 22 | 3.8% | 35 | 7.2% |
| Hispanic | 216 | 6.4% | 53 | 9.1% | 47 | 9.6% |
| White Non-Hispanic | 2,530 | 75.4% | 447 | 76.9% | 331 | 67.8% |
| **Birthplace** | | | | | | |
| US States / D.C. / US Terr. | 2,620 | 77.4% | 492 | 84.5% | 365 | 74.8% |
| Non-US-born | 764 | 22.6% | 90 | 15.5% | 123 | 25.2% |
| **Prenatal care funding** | | | | | | |
| Public | 159 | 4.8% | 48 | 8.3% | 67 | 14.2% |
| Private, other | 3,142 | 95.2% | 530 | 91.7% | 404 | 85.8% |
| **Age** | | | | | | |
| 20-29 | 135 | 4.0% | 51 | 8.8% | 73 | 15.0% |
| 30-34 | 941 | 27.8% | 249 | 42.8% | 224 | 45.9% |
| 35-39 | 1,523 | 45.0% | 234 | 40.2% | 151 | 30.9% |
| 40+ | 785 | 23.2% | 48 | 8.2% | 40 | 8.2% |
| **Pregnancy-Related Factors** | | | | | | |
| **Adequacy of Prenatal Care6** | | | | | | |
| Adequate Total**7** | 2,861 | 85.4% | 491 | 85.4% | 416 | 86.0% |
| Adequate Intensive | 1,401 | 41.8% | 247 | 43.0% | 199 | 41.1% |
| Adequate Basic | 1,460 | 43.6% | 244 | 42.4% | 217 | 44.8% |
| Intermediate | 276 | 8.2% | 46 | 8.0% | 30 | 6.2% |
| Inadequate/None | 215 | 6.4% | 38 | 6.6% | 38 | 7.9% |
| **Parity8** | | | | | | |
| 1 | 1,955 | 57.8% | 420 | 72.3% | 287 | 58.8% |
| 2 | 1,128 | 33.4% | 137 | 23.6% | 165 | 33.8% |
| 3+ | 298 | 8.8% | 24 | 4.1% | 36 | 7.4% |
| **Birth Outcomes** | | | | | | |
| **Gestational age** | | | | | | |
| <28 weeks (extremely preterm)10 | 22 | 3.8% | --9 | --9 | 0 | 0.0% |
| <37 weeks (preterm)10 | 411 | 71.5% | 61 | 1.6% | 54 | 5.2% |
| 37+ | 2,973 | 517.0% | 521 | 13.6% | 434 | 41.7% |
| **Plurality** | | | | | | |
| Singleton | 3,208 | 94.8% | 545 | 93.6% | 459 | 94.1% |
| Multiple birth | 176 | 5.2% | 37 | 6.4% | 29 | 5.9% |

**NOTE:** Beginning in 2014, questions about fertility assistance were asked on both the hospital and parental worksheets. This table shows combined data from both sources. While asking birthing people has increased reporting, it is known that these treatments are still underreported. As such, these numbers should be interpreted with caution. All percentages are calculated based only on birthing people with known values for the characteristic(s) of interest, unless otherwise stated. Often birthing people use more than one method of treatment, and the categories presented are mutually exclusive.

**NOTE:** This table is based on unique birthing people and not births.1. This category includes all birthing people who used ART (typically IVF) and those who used any additional treatments. 2. This category includes birthing people who used artificial insemination (including intrauterine insemination) and those who used fertility drugs in addition. 3. This category includes birthing people who only used fertility drugs. 4. For state total row, percentages are based on total births where infertility treatment was present. 5. Percent is based on state total of the treatment methods. 6. Based on Adequacy of Prenatal Care Utilization (APNCU) Index. 7. Adequate Total = Adequate Basic + Adequate Intensive. 8. Number of live births including the current birth. 9. Calculations based on values of 1-4 are excluded. 10. Categories are not mutually exclusive so percent will add to more than 100%.

## Technical Notes

## Data Cautions

Limitations of small numbers:

Cells in some tables in this publication, and particularly those tables specific to individual cities and towns, contain small numbers. Rates and proportions based on fewer than five observations are suppressed, and trends based upon small numbers should be interpreted cautiously.

Differences with previously published data:

Numbers and rates in this publication may differ from those in previous reports because of updated birth data, or release of the most up-to-date population estimates for a given year (see Population Denominators for details on population files).

Self-reported data:

Many statistics reported in this publication, such as smoking, education, and race/ethnicity are *self- reported*, and are subject to the usual limitations of this type of information.

## Changes in the Collection of Race/Ethnicity Information

The 2003 revision of the Standard Certificate of Live Birth allows the reporting of more than one race (multiple races) for each parent in accordance with the revised standards issued by the Office of Management and Budget (OMB) in 1997.

The revised standards incorporated two major changes designed to reflect the changing racial and ethnic profile of the United States. First, the revision increased from five to twelve - the minimum set of categories to be used for identification of race. The twelve categories for race specified in the 1997 standards are: American Indian or Alaska Native, Asian, Black, Guamanian or Chamorro, Hispanic/Latino/Black, Hispanic/Latino/White, Hispanic/Latino/Other, Native Hawaiian, Samoan, White, Other Pacific Islander and Other. The revised standards called for reporting of Asians separately from Native Hawaiians, Samoan or Other Pacific Islanders.

The revised standards require federal data collection programs to allow respondents to select *one or more race categories*. To provide uniformity and comparability of the data during the transition period, before multiple-race data are available for all reporting areas, it is necessary to “bridge” the responses of those who reported more than one race to a single-race. The method used to bridge responses for those who report more than one race to a single race is based on a procedure whereby multiple races are assigned to the smallest population group first (i.e., Asian and White becomes Asian or Black and Native American becomes Native American). All multiple races that include Hispanic will be assigned as Hispanic and this group also includes all respondents who reported Hispanic ethnicities as well.

The revised standards also require federal data collection programs to allow respondents to select *one or more ancestry categories*. The method used to bridge responses for those who report more than one ancestry is based on a procedure whereby multiple ancestries are assigned to each of the ancestries listed.

The following table is from the Parent Worksheet for the birth certificate, which is the self-reported information we use to report on race and ancestry of the birthing person.

**2003 Revision**

**Mother/Parent Race**

Please indicate your race(s). *You may choose more than one.*

|  |  |
| --- | --- |
| American Indian/Alaska Native (specify tribal nation):  Asian Black  Guamanian or Chamorro Hispanic/Latina/Black  Hispanic/Latina/White | Hispanic/Latina/Other (specify): Native Hawaiian  Samoan White  Other Pacific Islander (specify): Other race not listed (specify): |

**Mother/Parent Ethnicity**

Please indicate your ethnic background(s). *You may choose more than one.*

|  |  |
| --- | --- |
| African (specify):\_ African-American  American Asian Indian Brazilian Cambodian Cape Verdean  Caribbean Islander (specify): \_ Chinese  Colombian Cuban Dominican  European (specify): Filipino  Guatemalan  Haitian Honduran | Japanese Korean Laotian  Mexican, Mexican American, Chicano  Middle Eastern (specify): Native American (specify tribal nation(s)): Portuguese  Puerto Rican Russian Salvadoran Vietnamese  Other Asian (specify): Other Central American (specify): Other Pacific Islander (specify): Other Portuguese (specify): Other South American (specify):  Other ethnicity (ies) not listed (specify): |

## Table A1. 2020 Massachusetts Population Estimates by Age Group, Gender, Race/Hispanic Ethnicity (mutually exclusive)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Age Group** | **Total**1 | **American Indian/ Alaska Native Non-**  **Hispanic** | **Asian/ Pacific Islander Non- Hispanic** | **Black Non- Hispanic** | **Hispanic**2 | **White Non- Hispanic** |
| **Female** | | | | | | |
| **<1** | 33,809 | 17,960 | 2,718 | 42.72406845 | 2,281 | 7,681 |
| **1 to 4** | 140,340 | 76,048 | 11,762 | 173.7230874 | 9,866 | 30,288 |
| **5 to 9** | 180,803 | 99,391 | 15,376 | 289.7352643 | 13,460 | 36,755 |
| **10 to 14** | 188,198 | 108,691 | 15,473 | 313.0378619 | 14,052 | 34,528 |
| **15 to 19** | 227,269 | 138,146 | 16,706 | 287.0185972 | 18,748 | 36,438 |
| **20 to 24** | 249,103 | 149,413 | 18,520 | 342.0307201 | 22,825 | 39,738 |
| **25 to 29** | 253,926 | 154,518 | 19,635 | 397.1741846 | 24,687 | 39,195 |
| **30 to 34** | 251,028 | 158,079 | 18,779 | 320.206979 | 26,285 | 35,449 |
| **35 to 39** | 229,785 | 144,674 | 17,242 | 285.1632364 | 24,414 | 32,867 |
| **40 to 44** | 211,113 | 134,053 | 16,248 | 282.2379518 | 21,392 | 30,288 |
| **45 to 49** | 226,782 | 155,579 | 15,787 | 283.2383062 | 20,016 | 26,803 |
| **50+** | 1,426,744 | 1,157,994 | 76,269 | 1,941 | 70,422 | 89,744 |
| **All Females** | **3,618,898** | **2,494,546** | **244,515** | **4,957** | **268,447** | **439,772** |
| **Male** | | | | | | |
| **<1** | 35,672 | 18,860 | 3,227 | 52 | 2,558 | 7,825 |
| **1 to 4** | 147,055 | 80,547 | 13,050 | 217 | 10,530 | 31,132 |
| **5 to 9** | 188,424 | 103,444 | 17,303 | 255 | 14,136 | 37,722 |
| **10 to 14** | 195,825 | 114,245 | 17,182 | 326 | 14,094 | 36,213 |
| **15 to 19** | 228,179 | 138,769 | 18,566 | 288 | 16,803 | 38,552 |
| **20 to 24** | 246,282 | 146,830 | 21,022 | 362 | 20,473 | 42,806 |
| **25 to 29** | 261,140 | 155,894 | 24,456 | 415 | 23,678 | 45,223 |
| **30 to 34** | 249,279 | 157,388 | 20,110 | 368 | 23,161 | 38,141 |
| **35 to 39** | 225,176 | 142,512 | 17,846 | 315 | 21,476 | 34,501 |
| **40 to 44** | 202,212 | 131,777 | 15,791 | 254 | 18,569 | 28,517 |
| **45 to 49** | 212,882 | 148,564 | 15,192 | 285 | 18,080 | 23,467 |
| **50+** | 1,218,890 | 994,091 | 63,406 | 1,835 | 59,965 | 73,950 |
| **All Males** | **3,411,016** | **2,332,921** | **247,152** | **4,969** | **243,527** | **438,050** |
|  | | | | | | |
| **<1** | 69,481 | 36,820 | 2,805 | 94 | 4,840 | 15,506 |
| **1 to 4** | 287,395 | 156,595 | 11,992 | 390 | 20,396 | 61,420 |
| **5 to 9** | 369,226 | 202,835 | 16,024 | 544 | 27,597 | 74,477 |
| **10 to 14** | 384,022 | 222,936 | 15,843 | 639 | 28,146 | 70,740 |
| **15 to 19** | 455,448 | 276,914 | 16,860 | 575 | 35,551 | 74,990 |
| **20 to 24** | 495,385 | 296,243 | 17,976 | 704 | 43,298 | 82,544 |
| **25 to 29** | 515,066 | 310,412 | 20,895 | 812 | 48,366 | 84,418 |
| **30 to 34** | 500,307 | 315,466 | 18,977 | 688 | 49,446 | 73,590 |
| **35 to 39** | 454,960 | 287,186 | 17,231 | 600 | 45,891 | 67,368 |
| **40 to 44** | 413,325 | 265,830 | 15,668 | 536 | 39,961 | 58,804 |
| **45 to 49** | 439,665 | 304,143 | 15,210 | 568 | 38,096 | 50,270 |
| **50+** | 2,645,634 | 2,152,086 | 62,928 | 3,776 | 130,387 | 163,695 |
| **State Total** | **7,029,914** | **4,827,467** | **232,410** | **9,927** | **511,973** | **877,822** |

1. Population estimates were calculated using UMass Donahue Institute (UMDI) estimates for 2020.
2. Persons of Hispanic ethnicity are NOT included in the race categories. These estimates are used to calculate **statewide population- based rates** published in this report.