

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
Registry of Vital Records and Statistics
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Dorchester, MA 02125

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KATHLEEN E. WALSH
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ROBERT GOLDSTEIN, MD, PhD
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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,

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,

A handwritten signature in black ink, appearing to be "R. Goldstein".

Robert Goldstein, MD, PhD
Commissioner
Massachusetts Department of Public Health

MAURA T. HEALEY
GOVERNOR

KIMBERLEY DRISCOLL
LIEUTENANT GOVERNOR



KATHLEEN E. WALSH
SECRETARY

ROBERT GOLDSTEIN, MD, PhD
COMMISSIONER

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 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

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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
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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

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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
Births ¹	n ²	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
	Rate ³	-- 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 Native Non-Hispanic	n	120	100	140	284	244	253	241	237	213	284	247	224	233	198	331	294
	% 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 Non-Hispanic	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
	% 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 (Ages 15-19)	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
	Rate ³	-- 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 Diabetes ⁵	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 Birthweight ⁶	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
Preterm ⁷	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 Preterm ⁸	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 Ethnicity (by birthing person's birthplace)	Births		Teen Births				Birthweight				Prenatal Care				Cesarean Deliveries		Breastfeeding ⁵	
	n	% ¹	Ages 15-17		Ages 15-19		Very Low ²		Low ³		Adequate ⁴		1 st Trimester		n	%	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
US inc. DC	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
US Territories ⁷	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
Non-US-born ⁸	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
American Indian/ Alaska Native Non- Hispanic⁹	294	0.4	⁻⁶	⁻⁶	11	3.7	⁻⁶	⁻⁶	21	7.2	220	75.9	220	75.9	89	30.4	248	85.8
US inc. DC	284	96.6	⁻⁶	⁻⁶	11	3.9	⁻⁶	⁻⁶	21	7.4	213	75.8	213	75.8	86	30.4	240	85.4
US Territories ⁷	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Non-US-born ⁸	8	2.7	0	0.0	0	0.0	0	0.0	0	0.0	7	87.5	7	87.5	⁻⁶	⁻⁶	8	100.0
Asian/ Pacific Islander Non-Hispanic	6,253	9.1	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
US inc. DC	⁻⁶	⁻⁶	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
US Territories ⁷	⁻⁶	⁻⁶	0	0.0	0	0.0	0	0.0	0	0.0	⁻⁶	⁻⁶	⁻⁶	⁻⁶	⁻⁶	⁻⁶	⁻⁶	⁻⁶
Non-US-born ⁸	4,686	74.9	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 Territories ⁷	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-born ⁸	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
Hispanic	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
US inc. DC	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
US Territories ⁷	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
Non-US-born ⁸	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
White Non-Hispanic	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
US inc. DC	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
US Territories ⁷	23	0.1	0	0.0	⁻⁶	⁻⁶	0	0.0	0	0.0	14	70.0	14	70.0	11	47.8	14	93.3
Non-US-born ⁸	4,129	10.9	⁻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
Other Non-Hispanic¹⁰	556	0.8	⁻⁶	⁻⁶	18	3.2	10	1.8	55	9.9	368	68.0	353	64.7	197	35.5	446	92.0
US inc. DC	101	18.2	⁻⁶	⁻⁶	5	5.0	⁻⁶	⁻⁶	16	15.8	73	73.7	80	79.2	35	35.0	62	81.6
US Territories ⁷	6	1.1	0	0.0	⁻⁶	⁻⁶	⁻⁶	⁻⁶	⁻⁶	⁻⁶	5	0.0	⁻⁶	⁻⁶	⁻⁶	⁻⁶	0	0.0
Non-US-born ⁸	449	80.8	⁻⁶	⁻⁶	12	2.7	6	1.3	35	7.8	290	66.4	270	61.4	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	Births ¹		Teen Births				Low Birthweight ²		Prenatal Care				Late Preterm ⁴		Cesarean Section		Breast-feeding ⁵		Gestational Diabetes ⁶	
	N	%	< 18 Years		< 20 Years		N	%	Adequate ³		1 st Trimester		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

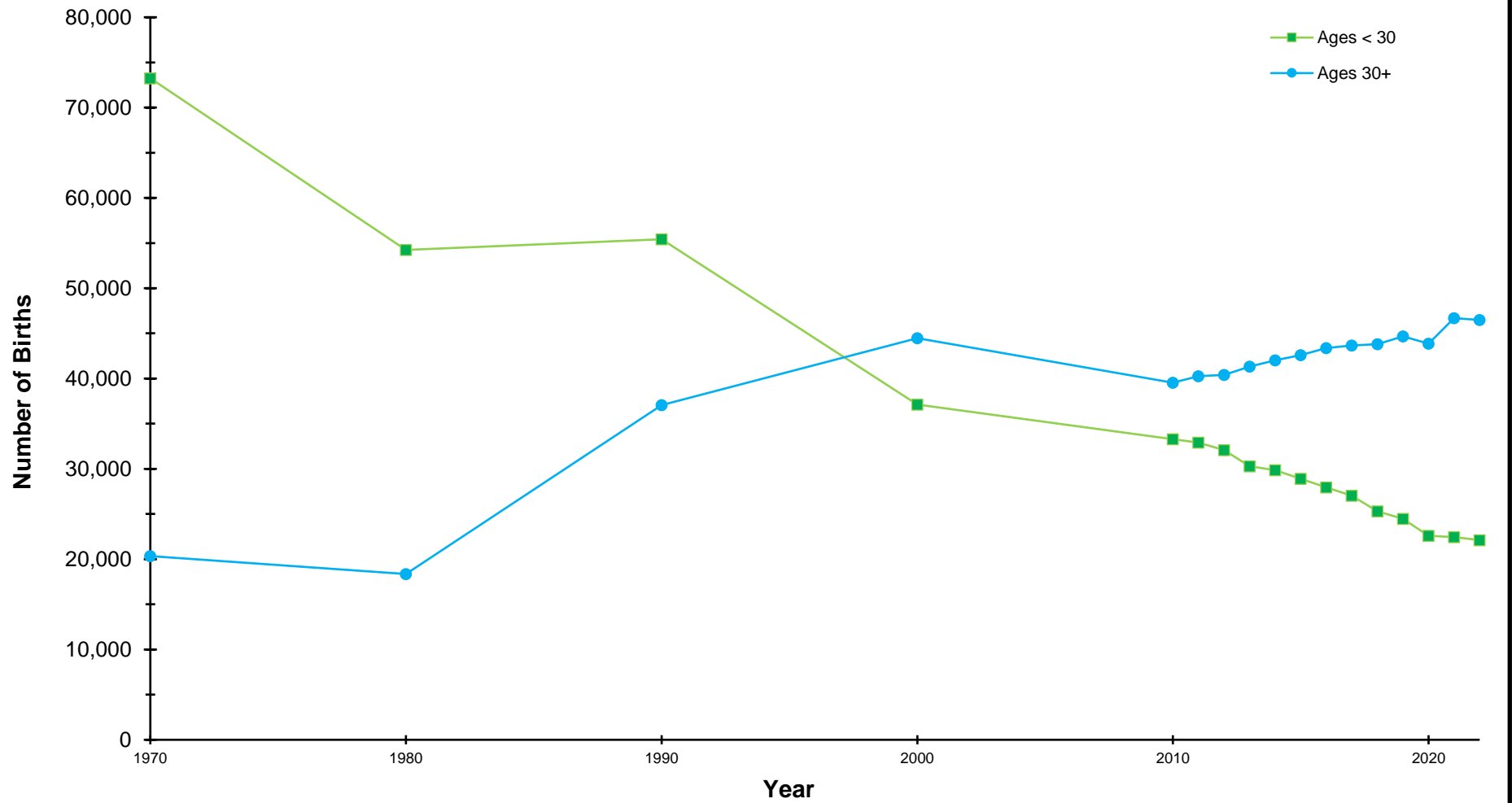


Table 4. Trends in Number and Percent Distribution of Births by Plurality Age of Birthing Person, Massachusetts: 2012-2022

Age Group	Year	Singletons		Multiples ¹						Total births ²	
		n	%	Twins		Triplets or more		Total Multiples		n	%
		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 Care Utilization (APNCU) Index. 4. Adequate Total = Adequate Basic + Adequate Intensive. 5. Number of live births, including the current birth. 6. Calculations based on 1-4 events are excluded.

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

Municipality ¹	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.

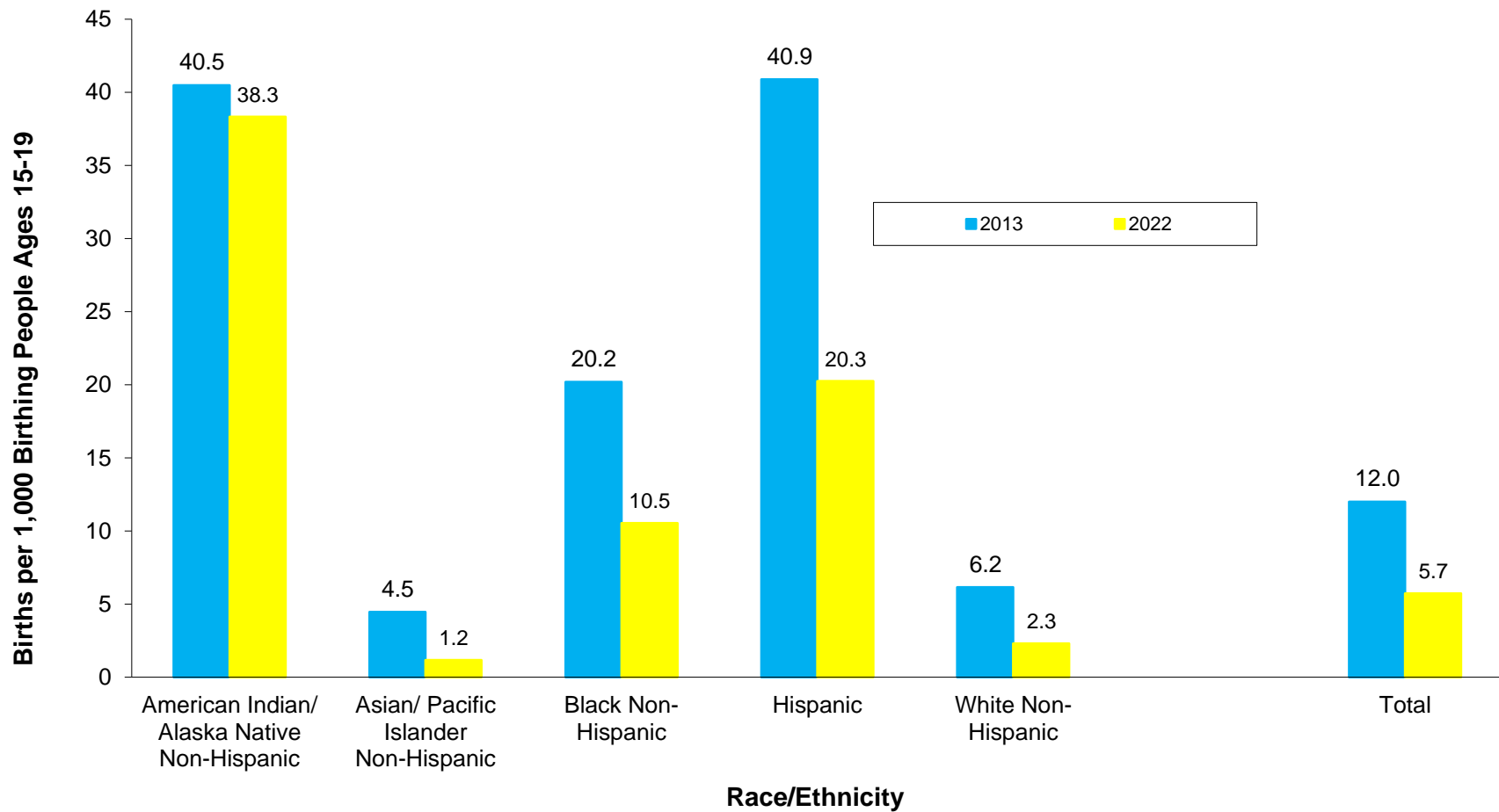
1. Selected communities include the 25 Massachusetts cities and towns with the greatest number of teen births. 2. Rates are per 1,000 females ages 15-19 per city/town. 3. Birth rates for cities and towns were calculated using the Massachusetts Department of Public Health Race Allocated Census 2010 Estimates 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	Municipality ¹	2013		2020		2022	
		# Births 15-19	Birth Rate ²	# 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



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 (in grams)	Total		American Indian/ Alaska Native Non- Hispanic		Asian/ Pacific Islander Non-Hispanic		Black Non- Hispanic		Hispanic		White Non- Hispanic	
	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				Twin				Multiples				Total Multiples				Total Births			
		VLBW ¹		LBW ²		VLBW ¹		LBW ²		VLBW ¹		LBW ²		VLBW ¹		LBW ²		VLBW ¹		LBW ²	
		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	3,950	5.9	197	8.7	1,174	51.8	24	45.3	52	98.1	221	9.5	1,226	52.8	767	1.1	5,176	7.5
	2022	582	0.9	4,099	6.2	143	6.3	1,212	53.4	16	27.1	58	98.3	159	6.8	1,270	54.5	741	1.1	5,369	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	2,836	6.0	109	7.7	755	53.1	19	50.0	37	97.4	128	8.8	792	54.3	534	1.1	3,628	7.4
	2022	435	0.9	1,183	6.1	47	5.7	414	49.8	13	41.9	31	100.0	60	7.0	445	51.6	207	1.0	1,628	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	1,114	5.9	88	10.4	419	49.5	5	33.3	15	100.0	93	10.8	434	50.4	233	1.2	1,548	7.8
	2022	147	0.8	1,183	6.1	47	5.7	414	49.8	13	41.9	31	100.0	60	7.0	445	51.6	207	1.0	1,628	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

Gestational Age ¹ (weeks completed)	Total		American Indian/ Alaska Native Non-Hispanic		Asian/ Pacific Islander Non- Hispanic		Black Non- Hispanic		Hispanic		White Non- Hispanic	
	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
<u>Preterm⁴ (<37)</u>												
Very Early ⁵ (<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
<u>Term (≥37)</u>												
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.

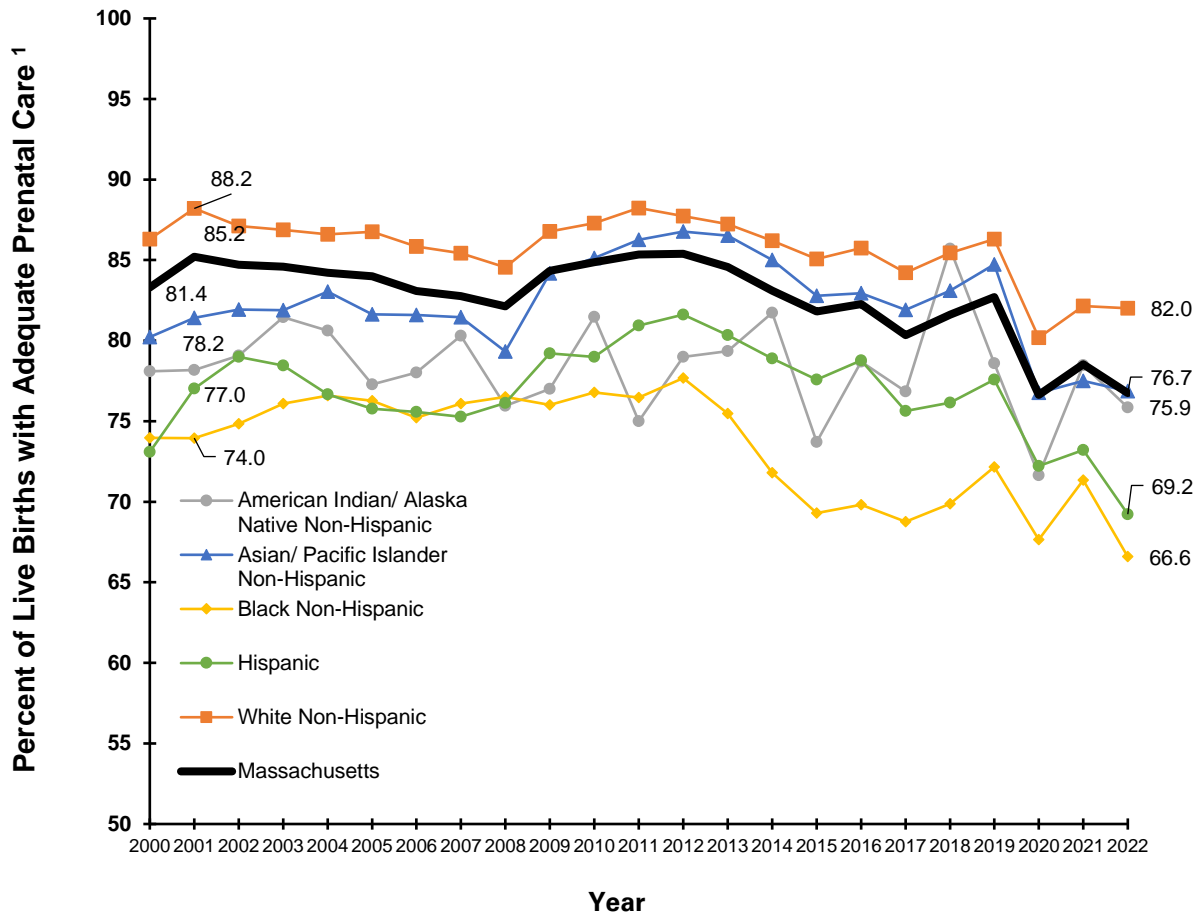
Table 11. Percent Preterm and Term Births by Gestational Age Category, Massachusetts: 1980, 1990, 2000, 2010-2022

Year	Preterm ¹			Term ²	
	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

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.

Figure 3. Trends in Adequacy of Prenatal Care^{2,3} by Race/Hispanic Ethnicity, Massachusetts: 2000-2022



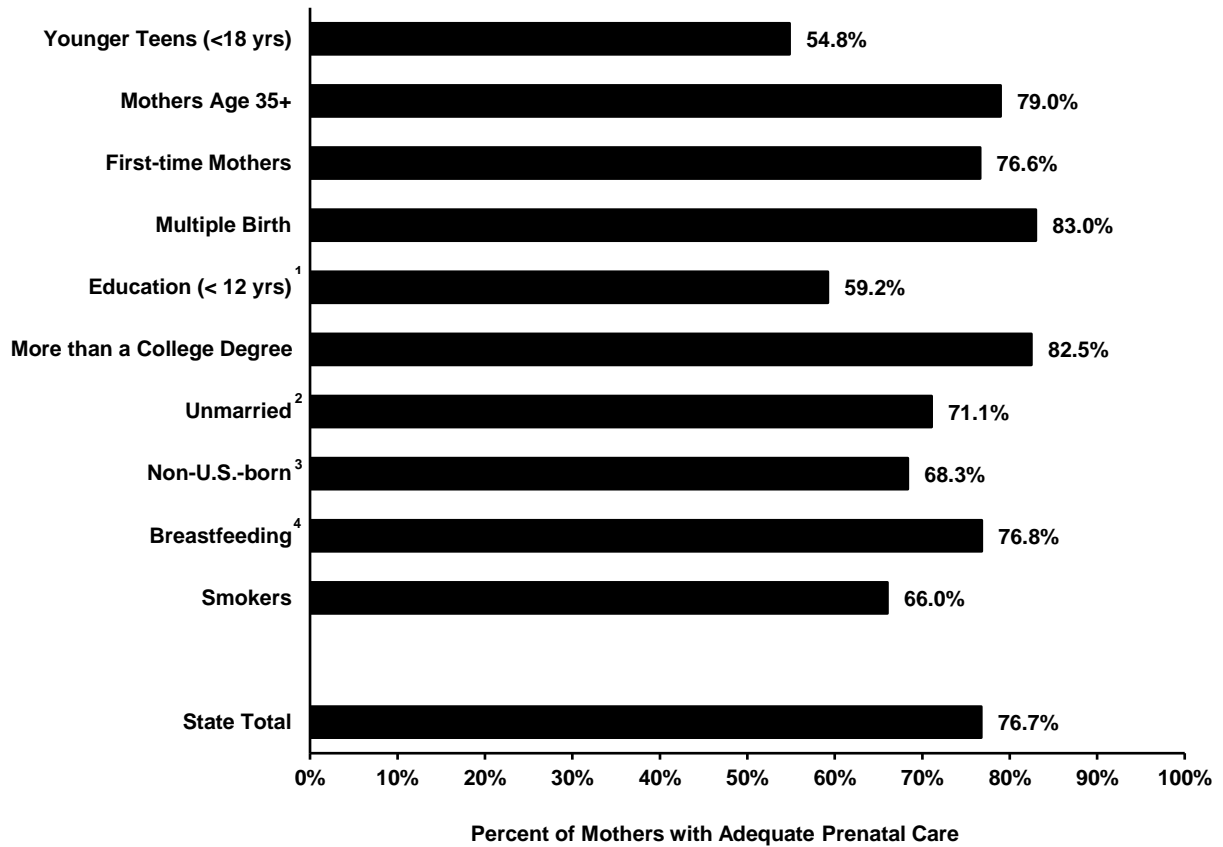
NOTE: FOR PURPOSES OF VISUAL REPRESENTATION, THE VERTICAL SCALE OF GRAPH REPRESENTS A SMALL INTERVAL (from 50% to 100%). APNCU was not available prior to 2000.

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.

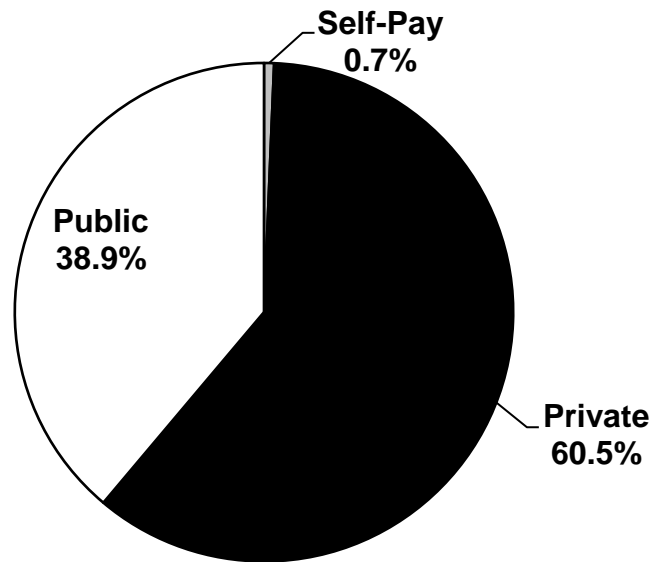
Figure 4. Adequacy of Prenatal Care by Selected Characteristics of Birthing People, Massachusetts: 2022



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



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 Ethnicity ⁴ of Birthing Person								
Municipality ¹	Rank ³	Population	Crude Birth rate ²	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								
Municipality ¹	Very Low Birthweight (<1500 gms.)	Low Birthweight (<2500 gms.)	Gestational Diabetes	Adequate Prenatal Care ⁶	Public Payment for Prenatal Care ⁷	Unmarried	Teen Births 15 to 19 years	
	%	%	%	%	%	%	N	Rate ⁸
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 Births ² (n)	Low Birthweight ³ (%)	Public Pay for PNC ⁴ (%)	Adequate Prenatal Care ⁵ (%)	Early Term ⁶ (%)	Late Preterm ⁷ (%)
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**

Municipality ¹	Total Population Rank	Female Population, ages 15-19	Number of Teen Births (Ages 15-19)	Teen Birth Rate ²	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

Municipality ¹	Public Payment for Prenatal Care ⁴ (%)	Unmarried (%)	Low Birthweight ⁵ (%)	Preterm ⁶ (%)	Adequacy of Prenatal Care ⁷ (% of teen births)			
					Adequate Intensive	Adequate Basic	Intermediate	Inadequate ⁸
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 Total ¹		Adequate Intensive		Adequate Basic		Intermediate		Inadequate		Unknown
	n	%	n	%	n	%	n	%	n	%	n
<u>Summary Index</u>											
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
<u>Component Indices</u>											
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 by Race/Hispanic Ethnicity and Source of Prenatal Care Payment, Massachusetts: 2022

Race/Ethnicity and Payment Source	Births ¹		Teen Births ²				Birthweight			
	n	%	<18 Years		<20 Years		Very Low ³		Low ⁴	
			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
Medicaid ⁶	21,655	32.3	213	1.0	935	4.3	285	1.3	1,958	9.0
Other Public ⁷	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	--	--	11	3.7	--	--	21	7.1
Public	127	43.9	--	--	6	4.7	--	--	8	6.3
Medicaid ⁶	108	37.4	--	--	--	--	--	--	8	7.4
Other Public ⁷	19	6.6	0	0.0	--	--	0	0.0	0	0.0
Private⁸	148	51.2	0	0.0	5	3.4	0	0.0	13	8.8
Asian/ Pacific Islander										
Non-Hispanic	6,253	100.0	5	0.1	22	0.4	52	0.8	550	8.8
Public	1,330	21.5	--	--	15	1.1	17	1.3	136	10.2
Medicaid ⁶	1,165	18.9	--	--	15	1.3	17	1.5	122	10.5
Other Public ⁷	165	2.7	0	0.0	0	0.0	0	0.0	14	8.5
Private⁸	4,790	77.5	--	--	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
Medicaid ⁶	4,157	57.0	--	--	134	3.2	82	2.0	484	11.6
Other Public ⁷	506	6.9	--	--	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
Medicaid ⁶	9,411	62.2	138	1.5	566	6.0	125	1.3	793	8.4
Other Public ⁷	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
Medicaid ⁶	6,109	16.7	--	--	193	3.2	55	0.9	506	8.3
Other Public ⁷	1,620	4.4	--	--	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 Payment Source	Prenatal Care									
	Adequate ¹⁰		Began 1st Trimester		Cesarean Delivery		Breastfeeding ¹¹		Smoking ¹²	
	n	%	n	%	n	%	n	%	n	%
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
Medicaid ⁶	14,835	69.7	14,336	67.2	7,241	33.6	18,537	86.2	935	4.5
Other Public ⁷	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
American Indian/ Alaska										
Native Non-Hispanic	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
Medicaid ⁶	81	75.0	83	76.9	30	27.8	87	80.6	--9	--9
Other Public ⁷	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
Asian/ Pacific Islander										
Non-Hispanic	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
Medicaid ⁶	829	72.7	821	71.6	374	32.1	994	85.4	--9	--9
Other Public ⁷	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										
Public	4,827	66.6	4,673	64.4	2,669	36.1	6,611	90.7	117	1.6
Medicaid ⁶	2,821	61.7	2,676	58.4	1,631	35.0	4,166	89.5	94	2.1
Other Public ⁷	2,515	61.7	2,359	57.8	1,438	34.6	3,733	90.0	78	1.9
Other Public ⁷	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										
Public	10,385	69.2	10,504	69.9	4,991	32.9	13,243	87.5	209	1.4
Medicaid ⁶	7,476	67.4	7,448	67.1	3,676	32.9	9,629	86.3	177	1.6
Other Public ⁷	6,419	68.8	6,260	67.0	3,106	33.0	8,168	87.0	156	1.7
Other Public ⁷	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										
Public	30,692	82.0	31,339	83.6	12,444	32.9	32,446	88.5	1,115	3.0
Medicaid ⁶	5,790	75.6	5,586	72.8	2,567	33.2	6,264	81.1	777	10.3
Other Public ⁷	4,555	75.3	4,370	72.1	2,043	33.4	4,959	81.2	651	10.9
Other Public ⁷	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
Mattapoissett	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

**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

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

County	Occurrence Births ¹	Resident Births ²			
		Number of Births	Low Birthweight ³	Preterm ⁴	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

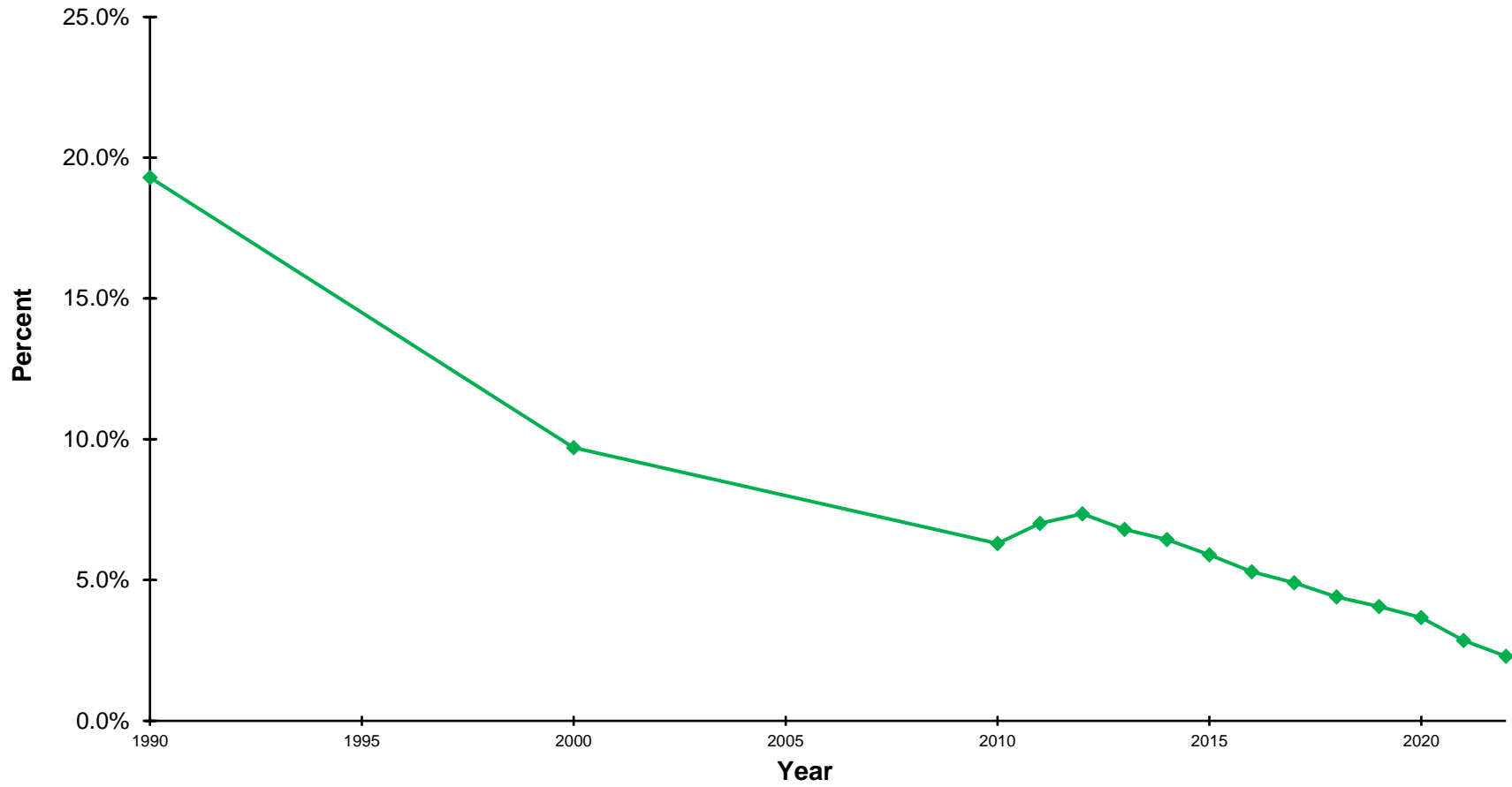
1. Births occurring in a geographical place (state, city/town) regardless of the residency of the birthing person. 2. Births to birthing people who report their usual place of residence as a particular geographical place (state, or city/town). See "Note to Readers" for more details. 3. Less than 2,500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

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

Community Health Network Area	Occurrence Births ¹	Resident Births ²			
		Number of Births	LBW ³	Preterm ⁴	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



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

Facility ¹	Occurrence Deliveries ²	Total Cesareans ²		Primary Cesareans ²		Repeat Cesareans ²		VBACs ²	
		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

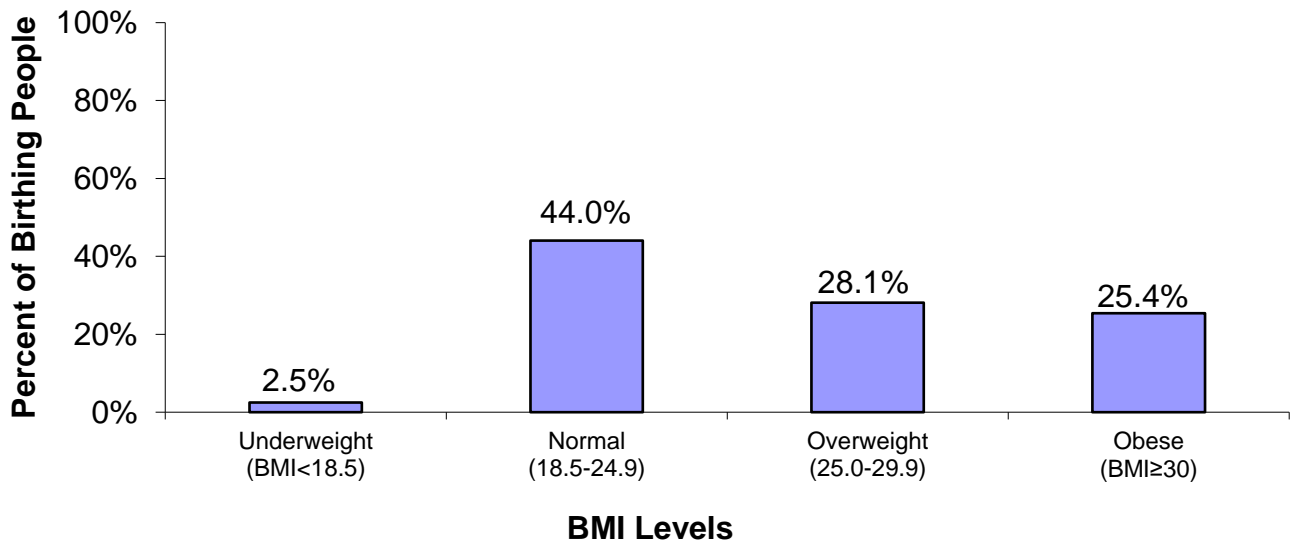
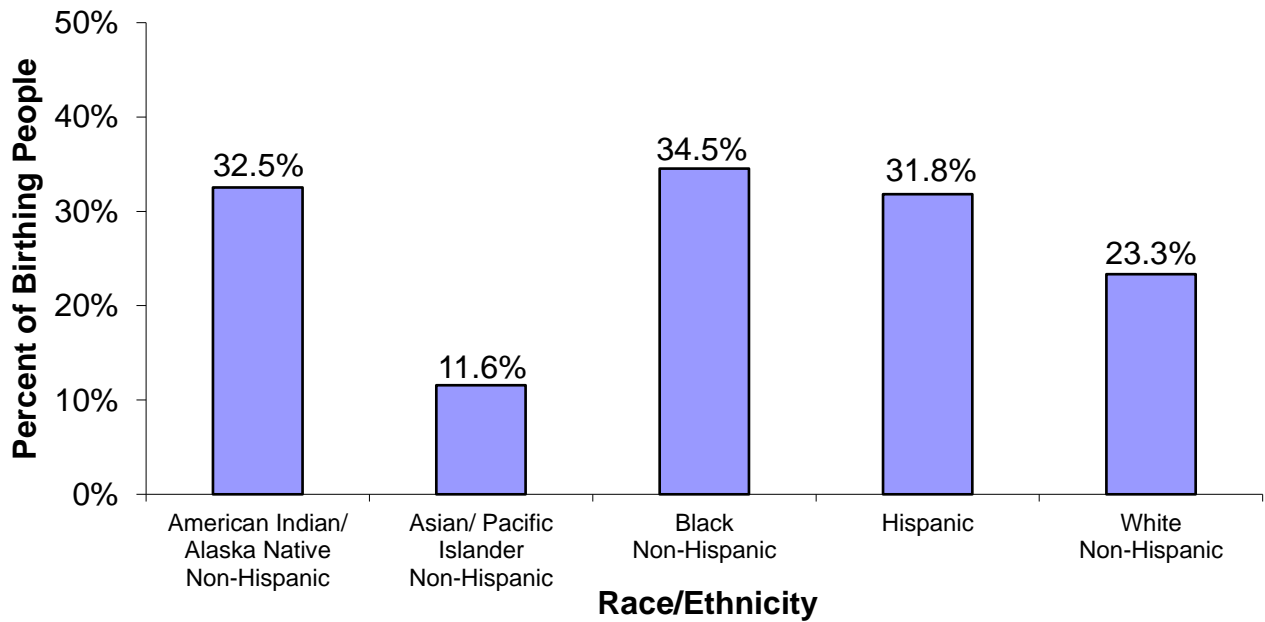


Figure 8. Obesity Prior to Pregnancy by Race/Hispanic Ethnicity, All Birthing People, Massachusetts: 2022



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

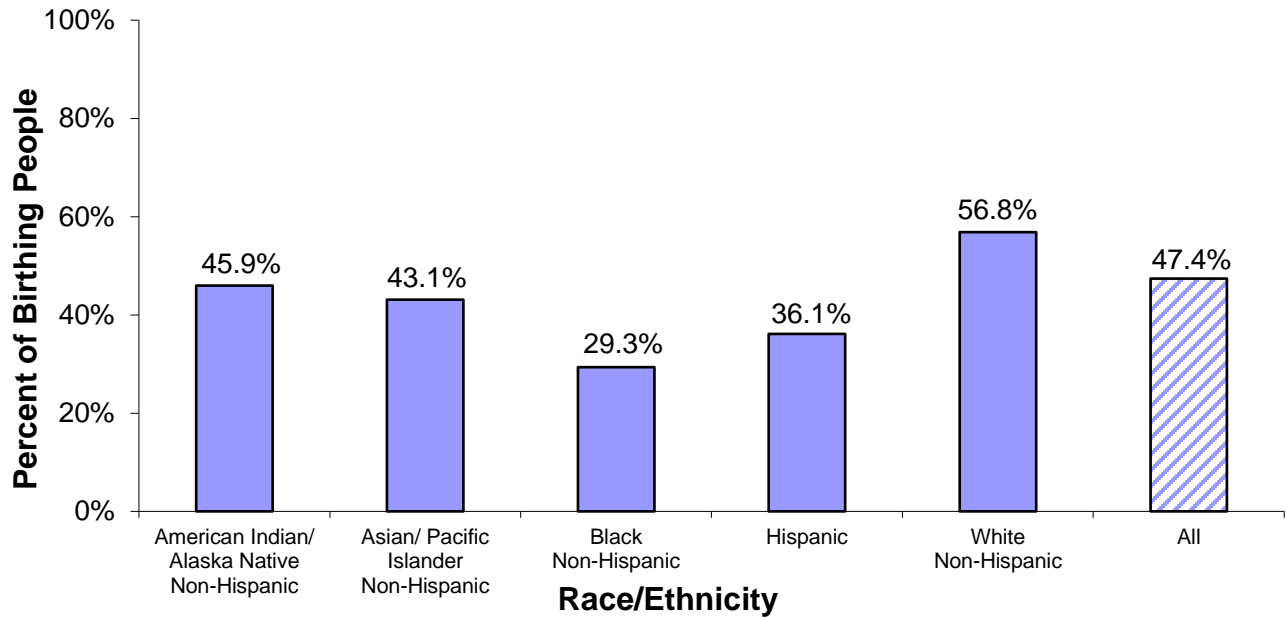
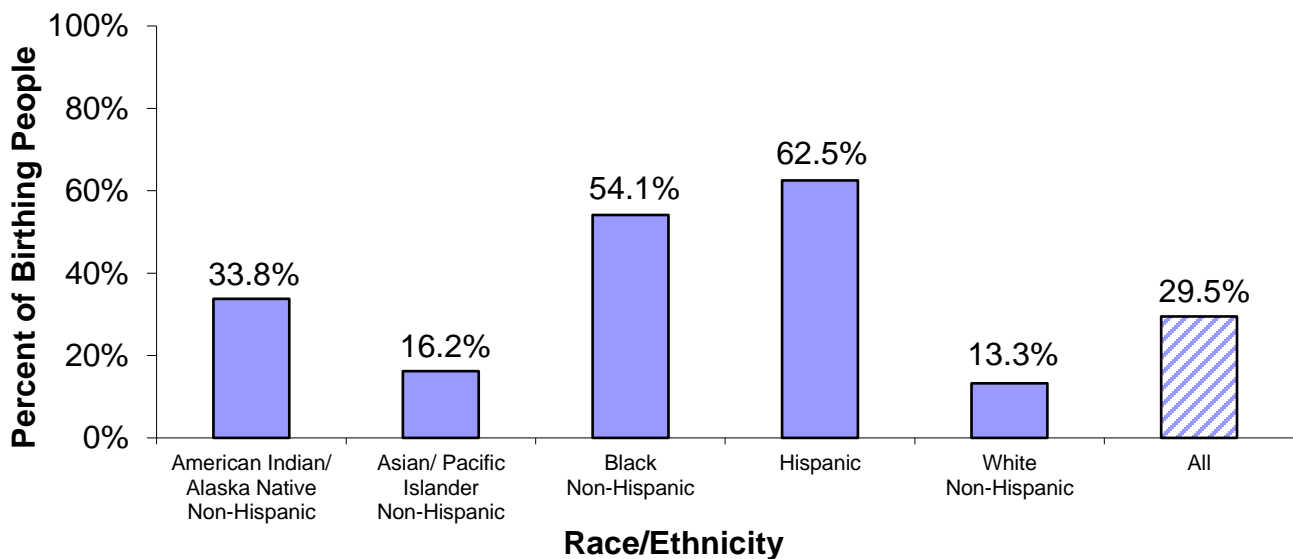
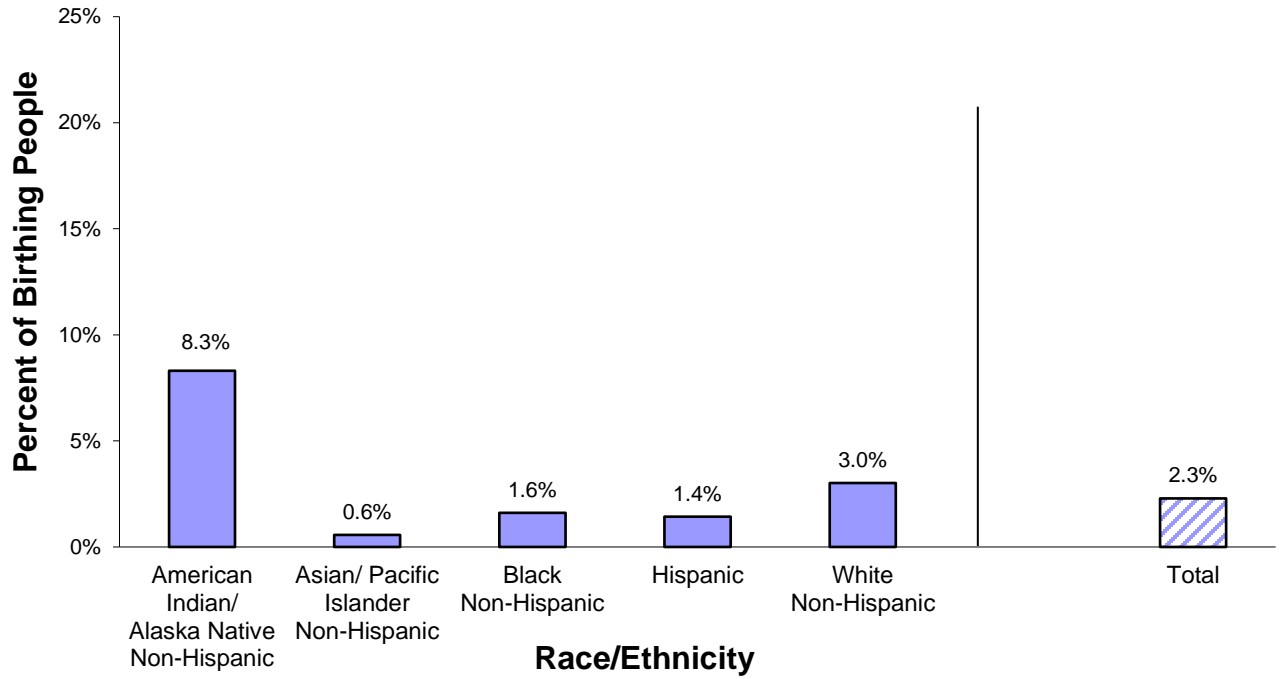


Figure 10. Birthing People Who Reported Having Received WIC Food During Pregnancy by Race/Hispanic Ethnicity, All Birthing People, Massachusetts: 2022



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



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 Drugs ¹		Artificial Insemination with or without Fertility Drugs ²		Fertility Enhancing Drugs Only ³	
	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.*

<input type="checkbox"/> American Indian/Alaska Native (specify tribal nation): _____	<input type="checkbox"/> Hispanic/Latina/Other (specify): _____
<input type="checkbox"/> Asian	<input type="checkbox"/> Native Hawaiian
<input type="checkbox"/> Black	<input type="checkbox"/> Samoan
<input type="checkbox"/> Guamanian or Chamorro	<input type="checkbox"/> White
<input type="checkbox"/> Hispanic/Latina/Black	<input type="checkbox"/> Other Pacific Islander (specify): _____
<input type="checkbox"/> Hispanic/Latina/White	<input type="checkbox"/> Other race not listed (specify): _____

Mother/Parent Ethnicity

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

<input type="checkbox"/> African (specify): _____	<input type="checkbox"/> Japanese
<input type="checkbox"/> African-American	<input type="checkbox"/> Korean
<input type="checkbox"/> American	<input type="checkbox"/> Laotian
<input type="checkbox"/> Asian Indian	<input type="checkbox"/> Mexican, Mexican American, Chicano
<input type="checkbox"/> Brazilian	<input type="checkbox"/> Middle Eastern (specify): _____
<input type="checkbox"/> Cambodian	<input type="checkbox"/> Native American (specify tribal nation(s)): _____
<input type="checkbox"/> Cape Verdean	<input type="checkbox"/> Portuguese
<input type="checkbox"/> Caribbean Islander (specify): _____	<input type="checkbox"/> Puerto Rican
<input type="checkbox"/> Chinese	<input type="checkbox"/> Russian
<input type="checkbox"/> Colombian	<input type="checkbox"/> Salvadoran
<input type="checkbox"/> Cuban	<input type="checkbox"/> Vietnamese
<input type="checkbox"/> Dominican	<input type="checkbox"/> Other Asian (specify): _____
<input type="checkbox"/> European (specify): _____	<input type="checkbox"/> Other Central American (specify): _____
<input type="checkbox"/> Filipino	<input type="checkbox"/> Other Pacific Islander (specify): _____
<input type="checkbox"/> Guatemalan	<input type="checkbox"/> Other Portuguese (specify): _____
<input type="checkbox"/> Haitian	<input type="checkbox"/> Other South American (specify): _____
<input type="checkbox"/> Honduran	<input type="checkbox"/> 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.