

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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June 1, 2023

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 2020.

Sincerely,

Robert Goldstein, MD, PhD Commissioner

Department of Public Health





ROBERT GOLDSTEIN, MD, PhD
COMMISSIONER

Massachusetts Births 2020

June 2023

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 2020

Maura T. Healey, Governor Kathleen E. Walsh, Secretary of Health and Human Services Robert Goldstein, MD, PhD, Commissioner of Public Health Abigail R. Averbach, MSc, Assistant Commissioner

> Karin Barrett, Registrar Registry of Vital Records and Statistics

Massachusetts Department of Public Health

June 2023

Acknowledgments

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Special thanks go to: Karin Barrett, Registrar, Registry of Vital Records and Statistics; Dean DiMartino, Deputy Registrar, Registry of Vital Records and Statistics; Sharon Pagnano, Director of Statistics, Registry of Vital Records and Statistics; Maria Vu, Registry of Vital Records and Statistics; Kevin Foster, Office of Data Management and Outcomes Assessment; and Malena Hood, Office of Special Analytic Projects.

Data in this report have been collected through the efforts of the Registry of Vital Records and Statistics staff, including: Tara Andrews, Michael Baker, June Deloney, Alex Forman, Marta Mercado, and Margaret Riley.

To obtain additional copies of this report, contact:

Massachusetts Department of Public Health Registry of Vital Records and Statistics 150 Mt. Vernon Street, 1st Floor Dorchester, MA 02125 (617) 740-2670

To obtain more information on births in Massachusetts and other Department of Public Health data please visit the Department's free, Internet-based public health information reports at: http://www.mass.gov/dph/phit or email DPH.PHIT@state.ma.us

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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 2020 (Annual Report Vital Statistics of Massachusetts-Births, Public Document #1 2020). Public Document #1 information on 2020 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. For example, when we refer to White birthing people, this means White Non-Hispanic birthing people. 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 breastfeed during the hospital stay. In earlier birth reports, statistics on breastfeeding reported on breastfeeding 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 18-19 and Figures 7-11 are based on birthing people and not births.

Suggested Citation

Massachusetts Births 2020 Boston, MA: Registry of Vital Records and Statistics, Massachusetts Department of Public Health. June 2023.

Selected Takeaways

- It is important to note that births in 2020 were primarily conceived in 2019, prior to the start of the COVID-19 pandemic. Most birthing people experienced the pandemic for at least some portion of their pregnancy. This report describes trends in prenatal care and birth outcomes in Massachusetts in 2020 and does not aim to analyze or explain the impact of the pandemic on these trends. Future studies will be needed to understand the pandemic's impact on short- and long-term parental and child health.
- In 2020, there were 66,442 births to Massachusetts resident birthing people, a decrease of 3.9% from 69,117 in 2019 and a decline of 28.1% since the peak of births for Massachusetts residents in 1990 (92,461; Table 1). The number of births to birthing people age 30 and older decreased (for the first time in 10 years) by 1.8% (2019: 44,670; 2020: 43,865). The number of births to birthing people age 30 and under decreased more sharply by 7.6% (2019: 24,447; 2020: 22,577) continuing a long-term trend (Figure 1).
- Between 2019 and 2020, the number of births to all races/ethnicities decreased: American Indian/Alaska Native Non-Hispanic by 15.0%, Asian/Pacific Islander Non-Hispanic by 6.1%, Black Non-Hispanic by 3.9%, Hispanic by 0.8%, and White Non-Hispanic by 4.6% (Table 1).
- In 2020, the Massachusetts teen birth rate dropped after plateauing in 2019 (2019: 7.1; 2020: 5.9), continuing a long-term trend. The teen birth rate was 20.1 births per 1,000 females age 15-19 in 2008, while in 2020 the rate was 5.9 births per 1,000 females age 15-19 (Table 1). Between 2019 and 2020, the percentage of births to birthing people age less than 20 decreased for Hispanic and White Non-Hispanic but increased for Asian/Pacific Islander Non-Hispanic and Black Non-Hispanic. Despite this decrease, the percentage of Hispanic teen births remained over five times higher than the percentage of White Non-Hispanic teen births (Table 2, Figure 2).
- In 2020, 32.4% of births were cesarean deliveries (Table 1). Among American Indian/Alaska Native Non-Hispanic, Asian/ Pacific Islander Non-Hispanic, Black Non-Hispanic, Hispanic, and White Non-Hispanic births, Black Non-Hispanics had the highest percentage of cesarean deliveries (35.1%), while American Indian/Alaska Native Non-Hispanics had the lowest percentage (28.7%) (Table 2). The percent of births by cesarean delivery increased for all race/ethnicities compared to 2019.
- From 2019 to 2020, the percentage of births to birthing people affected by gestational diabetes increased from 7.1% to 7.9% (Table 1).
- In 2020, the percentage of low birthweight infants (less than 2,500 grams or 5.5 pounds) decreased from 7.7% in 2019 to 7.4% in 2020 (Table 1). This is the lowest percentage of low birthweight births in nearly twenty years.
- From 2019 to 2020, the percentage of preterm births (births occurring at less than 37 weeks of gestation) decreased slightly from 9.0% to 8.8% (Table 1).
- From 2019 to 2020, the percentage of births to birthing people who received adequate prenatal care decreased from 82.7% to 76.6% (Table 1, Figure 3). In 2020, the percentage of births with adequate prenatal care was higher among those with private insurance (81.2%) than public insurance (70.3%; Table 16). The percentage of births to birthing people whose prenatal care was covered through public insurance increased from 38.1% in 2019 to 39.0% in 2019 (Table 1).
- The percentage of multiple births in 2020 decreased slightly from 3.5% in 2019 to 3.2% in 2020. The percentage of multiple births to birthing people under age 35 continued to decrease from 3.0% in 2019 to 2.8% in 2020, and the percentage for multiple births to birthing people age 35 and older decreased from 4.9% to 4.2% (Table 4).
- While the overall percentage of birthing people who reported smoking during pregnancy was 3.7% in 2020 (down from 4.1% in 2019), the percentage of American Indian/Alaska Native Non-Hispanic birthing people who smoked (12.4%) was more than 2.5 times higher than all other races/ethnicities (Figure 11).
- In Massachusetts, the number of birthing people who used fertility treatment in 2020 increased to 3,836 from 3,802 in 2019. The percentage of birthing people who used assisted reproductive technology (ART) among all birthing people who used infertility treatment remained the same at 74.9%. The percentage of birthing people who used ART fertility treatment was much higher among White Non-Hispanic birthing people at 77.0% than among Asian/Pacific Islander Non-Hispanic, Black Non-Hispanic, and Hispanic birthing people at 12.7%, 3.9%, and 5.7%, respectively (Table 21).

Characteristic		1990	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Births ¹	n²		77.670														
BIRTINS.	n- Rate³	92,461 62.1	56.9	77,934 57.2	76,969 56.5	74,966 55.1	72,835 53.7	73,169 54.1	72,457 53.3	71,618 52.5	71,867 52.1	71,484 52	71,319 52	70,704 51.2	69,098 48.8	69,117 48.9	66,442 47.1
Race of Birthing Person	Kale	02.1	30.9	37.2	30.3	55.1	33.7	34.1	33.3	52.5	32.1	52	52	31.2	40.0	40.9	47.1
American Indian/ Alaska	n	140	291	321	317	262	244	265	253	241	237	213	284	247	224	233	198
Native Non-Hispanic	% ⁴	0.2	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3
Asian/ Pacific Islander		3,349	5,469	5,758	5,958	5,939	5,817	6,022	6,530	6,220	6,426	6.473	6,647	6,338	6,411	6,457	6,061
Non-Hispanic	n %⁴	3,349	7.0	7.4	7.7	7.9	8.0	8.2	9.0	8.7	8.9	9.1	9.3	9	9.3	9.3	9.1
•		7,158	6.452	6.462	6.652	7.9 6.945	6.794	6.999	6.892	o. <i>1</i> 7,016	7.071	9. i 6.949	9.3 7.095	9 7,251	9.3 7.142	9.3 7,181	9. i 6,904
Black Non-Hispanic	n %⁴	7,156	8.3	8.3	8.6	9.3	9.3	9.6	9.5	9.8	9.8	9.7	9.9	10.3	10.3	10.4	10.4
Lionania		8,406	10,696	10,861	10,895	10,986	10,588	9.0 12,777	13,088	12,315	12,670	12,927	13,100	13,516	13,748	14,067	13,957
Hispanic	n %⁴	9.1	13.8	13.9	10,693	10,966	10,566	17.5	18.1	17.2	17.6	18.1	18.4	19.1	19.9	20.4	21.0
White New Hieronia		72,483	52,975	52,620	51,760	49,759	48,466	45,973	45,032	44,432	44,128	43,255	42,448	40,989	39,956	39,461	37,651
White Non-Hispanic	n %⁴	72,463 78.4	68.2	67.5	67.2	66.4	66.5	62.8	62.1	62.0	•	•	42,446 59.5	•	57.8	,	56.7
	70	70.4	00.2	67.5	07.2	00.4	00.5	02.0	02.1	02.0	61.4	60.5	59.5	58	37.0	57.1	
Teen Births	n	7,258	4,722	4,944	4,583	4,477	3,907	3,480	3,219	2,732	2,402	2,140	1,931	1,827	1,639	1,538	1,353
(Ages 15-19)	Rate ³	35.4	21.3	22.0	20.1	19.5	17.1	15.4	14.0	12.0	10.6	9.4	8.5	8.1	7.1	7.1	5.9
Births to Unmarried	n	22,837	24,977	26,010	26,146	26,029	25,220	25,349	24,900	24,014	23,853	23,913	23,566	23,309	22,467	22,386	21,757
	%	24.7	32.2	33.4	34.0	34.7	34.6	34.8	34.5	33.7	33.3	33.6	33.2	33.1	32.6	32.5	33.0
Cesarean Deliveries	n	20,615	25,901	26,240	26,240	25,067	24,244	23,062	22,900	22,508	22,691	22,431	22,302	22,290	21,710	21,656	21,466
	%	22.3	33.4	33.7	34.3	33.6	33.3	32.5	31.7	31.5	31.6	31.4	31.3	31.6	31.5	31.4	32.4
Gestational Diabetes ⁵	n		2,925	3,279	3,086	3,445	3.368	3,698	4,070	3,784	3.867	4,287	4,005	4,575	4,812	4,885	5,219
Gestational Diabetes	%		3.8	4.2	4.0	3,443 4.7	3,308 4.7	5.1	5.6	5.3	5.4	4,207	5.6	6.5	7.0	7.1	7.9
Low Birthweight ⁶		5,388		6,147	5,955	5,804	5,650	5,458		5,495	5,394	5,321		5,261	5,243	5,273	4,897
Low Birtilweight	n %	5.8	6,150 7.9	7.9	7.8	7.8	7.8	7.6	5,491 7.6	5,495 7.7	7.5	7.5	5,341 7.5	7.5	7.6	7.7	4,091 7.4
	/0																
Preterm ⁷	n	5,899	6,954	6,980	6,750	6,516	6,234	5,992	6,107	6,300	6,161	6,001	6,167	6,272	6,167	6,200	5,814
	%	6.5	9.0	9.0	8.8	8.7	8.6	8.4	8.6	8.8	8.6	8.4	8.7	8.9	8.9	9.0	8.8
Late Preterm ⁸	n	3,977	4,918	4,945	4,753	4,602	4,361	4,206	4,422	4,518	4,394	4,305	4,492	4,680	4,489	4,570	4,304
	%	4.4	6.3	6.4	6.2	6.2	6.0	5.9	6.2	6.3	6.1	6	6.3	6.6	6.5	6.6	6.5
Prenatal Care																	_
Public Pay Prenatal Care9	%	25.1	33.5	34.9	34.5	35.3	35.8	38.8	39.7	38.9	42.9	38.3	38.6	39.2	38.5	38.1	39.0
APNCU Index ¹⁰	%		83.1	82.8	82.1	84.3	84.9	82.8	83.4	83.7	82.6	81.8	82.1	80.6	76.1	81.6	76.6
Adjusted APNCU Index ¹⁰	%							85.3	85.4	84.5	83.1	81.8	82.3	80.5	76.1	82.7	11

NOTE: All percentages are calculated based on only those births with known values for the characteristic(s) of interest, unless otherwise stated. 1. Births presented in all tables are resident live births unless otherwise specified. 2. Differences in 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 number of births per 1,000 females ages 15-19. Population data for computing 2008 birth rates at the state level were provided by the US Census Bureau. See the "Population Denominators" section of the "Technical Notes" for further information. 4. Percentages are calculated based on births, including those to 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 2001, the APNCU Index has 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 were reporting prenatal care and the adjusted index became equivalent to the unadjusted index.

Table 2. Birth Characteristics by Race/Hispanic Ethnicity and Birthplace of Birthing Person, Massachusetts: 2020

Race and Hispanic	Birtl	ns		Teen E	Births			Birthv	veight			Prenat	al Care		Cesar		Breastfe	eding ⁵
Ethnicity (by			<18 Ye	ears	<20 Ye	ears	Very L	OW ²	Lo	N ³	Adequ	uate⁴	1 st Trin	nester	Delive	ries		
birthing person's birthplace)	n	% ¹	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
State Total	66,442	100.0	339	0.5	1,373	2.1	653	1.0	4,897	7.4	50,173	76.6	53,201	80.9	21,466	32.4	56,961	87.8
US inc. DC	44,201	66.5	221	0.5	918	2.1	395	0.9	3,210	7.3	34,394	79.1	36,742	84.0	13,867	31.5	36,872	86.0
US Territories ⁷	1,651	2.5	28	1.7	101	6.1	25	1.5	194	11.8	1,217	74.9	1,236	75.5	544	32.9	1,318	81.1
Non-US-born ⁸	20,573	31.0	90	0.4	353	1.7	230	1.1	1,487	7.2	14,558	71.6	15,217	74.6	7,051	34.3	18,767	92.2
American Indian/	•								•		,		,		,		· ·	
Alaska Native Non-																		
Hispanic ⁹	195	0.3	6	6	6	6	6	6	16	8.2	137	71.4	150	78.1	56	28.7	155	80.3
US inc. DC	187	95.9	6	6	6	6	6	6	14	7.5	129	70.1	142	77.2	53	28.3	149	80.1
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	4.1	0	0.0	0	0.0	6	6	6	6	8	100.0	8	100.0	6	6	6	85.7
Asian/ Pacific Islander																		
Non-Hispanic	6,061	9.1	5	0.1	30	0.5	66	1.1	518	8.6	4,628	76.8	4,964	82.2	1,855	30.6	5,559	91.9
US inc. DC	1,266	20.9	6	6	26	2.1	14	1.1	115	9.1	971	77.3	1,043	82.8	363	28.7	1,143	90.6
US Territories ⁷	6	6	0	0.0	0	0.0	0	0.0	0	0.0	6	6	6	6	0	0.0	6	6
Non-US-born ⁸	4,793	79.1	6	6	6	6	51	1.1	402	8.4	3,656	76.6	3,920	82.1	1,492	31.1	4,415	92.2
Black Non-Hispanic	6,904	10.4	50	0.7	191	2.8	129	1.9	698	10.1	4,598	67.7	4,725	69.3	2,426	35.1	6,031	88.5
US inc. DC	3,030	43.9	41	1.4	154	5.1	63	2.1	376	12.5	2,101	70.3	2,231	74.4	944	31.2	2,493	83.7
US Territories ⁷	14	0.2	6	6	6	6	0	0.0	6	6	5	35.7	8	57.1	8	57.1	11	78.6
Non-US-born ⁸	3,856	55.9	8	0.2	36	0.9	66	1.7	320	8.3	2,491	65.7	2,484	65.3	1,473	38.2	3,526	92.4
Hispanic	13,957	21.0	201	1.4	785	5.6	154	1.1	1,148	8.2	9,954	72.2	10,376	75.0	4,563	32.7	11,935	86.5
US inc. DC	5,478	39.2	106	1.9	414	7.6	63	1.2	517	9.5	3,984	73.8	4,205	77.5	1,637	29.9	4,427	82.1
US Territories ⁷	1,611	11.5	6	6	6	6	6	6	187	11.6	1,197	75.4	1,211	75.8	526	32.7	1,286	81.0
Non-US-born ⁸	6,867	49.2	68	1.0	272	4.0	67	1.0	444	6.5	4,773	70.2	4,959	72.8	2,400	34.9	6,222	91.2
White Non-Hispanic	37,651	56.7	68	0.2	331	0.9	276	0.7	2,374	6.3	29,827	80.2	31,893	85.2	12,051	32.0	32,026	87.5
US inc. DC	33,453	88.9	61	0.2	305	0.9	242	0.7	2,126	6.4	26,729	80.9	28,609	86.0	10,672	31.9	28,136	86.7
US Territories ⁷	13	0.0	0	0.0	0	0.0	0	0.0	6	6	9	75.0	9	69.2	6	6	11	91.7
Non-US-born ⁸	4,183	11.1	7	0.2	26	0.6	33	8.0	246	5.9	3,088	74.6	3,274	79.0	1,374	32.8	3,878	93.7
Other Non-Hispanic ¹⁰	486	0.7	6	6	10	2.1	6	6	34	7.0	315	66.2	313	65.1	172	35.4	435	92.9
US inc. DC	93	19.1	6	6	6	6	6	6	8	8.6	62	68.9	63	68.5	25	26.9	76	92.7
US Territories ⁷	6	6	0	0.0	0	0.0	6	6	6	6	6	6	6	6	6	6	6	6
Non-US-born ⁸	392	80.7	6	6	8	2.0	0	0.0	25	6.4	252	65.5	249	64.2	146	37.2	358	93.0

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 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 Adequacy of Prenatal Care Utilization (APNCU) Index. 5. Infant was being 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, District of Columbia, and the US territories. 9. Those who selected American Indian/Alaska Native as their race. 10. Those who indicated "Other" as their race.

Birthing Person's	Birtl	าร ¹			Births		Lo	w		Prena	tal Care		Late	е	Cesar	ean	Brea	st-	Gestat	iona
Ancestry			<18 ye	ars	<20 Y	'ears	Birthwe	eight ²	Adequ	ate ³	1 st Tri	mester	Preter	rm ⁴	Secti		feedi		Diabe	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
State Total	66,442	100.0	339	0.5	1,373	2.1	4,897	7.4	54,000	81.6	53,201	80.9	4,304	6.5	21,466	32.4	56,961	87.8	5,219	7.9
American	30,516	45.9	82	0.3	406	1.3	2,001	6.6	24,383	80.5	26,067	85.8	1,972	6.5	9,687	31.8	26,325	86.4	2,099	6.9
European	8,748	13.2	8	0.1	47	0.5	424	4.9	6,978	80.2	7,537	86.4	508	5.8	2,732	31.2	8,038	92.0	583	6.7
Puerto Rican	4,698	7.1	87	1.9	340	7.2	488	10.4	3,441	74.4	3,527	75.8	374	8.0	1,483	31.6	3,646	78.6	433	9.2
African American	3,237	4.9	42	1.3	166	5.1	399	12.4	2,227	69.7	2,341	73.0	243	7.5	1,021	31.5	2,686	83.5	212	6.5
Dominican	3,155	4.7	31	1.0	150	4.8	254	8.1	2,343	75.0	2,424	77.5	215	6.8	1,189	37.7	2,808	89.1	238	7.5
Brazilian	2,372	3.6	17	0.7	64	2.7	159	6.7	1,707	72.5	1,756	74.4	144	6.1	1,031	43.5	2,186	92.3	180	7.6
Asian Indian	2,013	3.0	0	0.0	7	7	219	10.9	1,588	79.3	1,707	85.0	128	6.4	780	38.7	1,866	94.2	308	15.3
African	1,923	2.9	7	7	7	0.4	144	7.5	1,235	65.3	1,278	67.4	93	4.8	741	38.5	1,794	93.8	197	10.2
Portuguese	1,892	2.8	17	0.9	66	3.5	136	7.2	1,531	81.5	1,511	80.2	114	6.0	641	33.9	1,355	71.7	144	7.6
Chinese	1,778	2.7	0	0.0	7	7	111	6.2	1,362	76.9	1,527	86.2	88	4.9	391	22.0	1,668	94.6	187	10.5
Haitian	1,432	2.2	7	7	23	1.6	135	9.4	921	65.2	936	66.1	96	6.7	555	38.8	1,269	88.9	142	9.9
Cape Verdean	1,369	2.1	19	1.4	72	5.3	137	10.0	983	72.7	967	71.3	87	6.4	400	29.2	1,209	88.5	106	7.7
Salvadoran	1,309	2.0	24	1.8	69	5.3	98	7.5	860	66.1	936	71.8	99	7.6	345	26.4	1,212	92.7	87	6.6
Other	1,161	1.7	0	0.0	11	0.9	76	6.6	875	76.1	935	81.2	68	5.9	362	31.2	1,044	90.1	81	7.0
Guatemalan	1,140	1.7	23	2.0	94	8.2	70	6.1	731	64.6	754	66.7	93	8.2	305	26.8	973	85.4	96	8.4
Missing	1,019	1.5	5	0.5	19	1.9	90	8.9	706	70.9	767	76.8	77	7.6	323	31.7	856	85.2	63	6.2
Middle Eastern	966	1.5	7	7	6	0.6	66	6.9	703	73.5	772	80.7	57	5.9	302	31.3	897	92.9	86	8.9
Russian	663	1.0	7	7	7	7	34	5.1	478	72.6	521	78.8	40	6.0	190	28.7	639	96.4	39	5.9
Vietnamese	608	0.9	7	7	5	0.8	45	7.4	431	71.4	435	71.7	24	3.9	181	29.8	548	90.9	89	14.6
Other South American	569	0.9	8	1.4	22	3.9	36	6.3	396	70.3	418	74.1	37	6.5	169	29.7	529	93.1	26	4.6
Mexican	563	0.8	7	1.2	28	5.0	21	3.8	387	69.5	413	73.6	28	5.0	176	31.3	492	90.1	36	6.4
West Island Caribbean	519	0.8	7	7	6	1.2	56	10.9	352	69.3	379	74.2	40	7.7	177	34.1	470	91.4	45	8.7
Cambodian	491	0.7	7	7	17	3.5	55	11.2	366	76.3	340	70.4	48	9.8	122	24.8	331	67.7	58	11.8
Honduran	437	0.7	10	2.3	31	7.1	31	7.1	259	60.1	282	65.4	31	7.1	116	26.5	394	90.2	24	5.5
Colombian	393	0.6	7	7	6	1.5	20	5.1	301	77.0	316	80.8	25	6.4	128	32.6	370	94.4	25	6.4
Korean	338	0.5	0	0.0	7	7	16	4.8	257	76.7	283	84.5	20	5.9	98	29.0	316	94.9	32	9.5
Native American	324	0.5	7	7	8	2.5	37	11.4	235	73.7	242	75.4	25	7.7	102	31.5	247	78.4	14	4.3

Table 2 Dieth Characteristics by Anacetry of Diething Dayson Massachusette, 2000

NOTE: All percentages are calculated based on only those births with known values for the characteristic(s) of interest, unless otherwise stated. Multiple ancestry groups may be selected, therefore totals of all ancestries is greater than the number of births. Since 2009, certain ancestry groups were combined: Lebanese, Iranian, Israeli, and Other Middle Eastern ancestries were combined into "Middle Eastern"; and Nigerian and Other African were combined into "African." 1. In the column "Births," percentages are based on column total (state total of births, including births for which ethnicity is unknown and other). 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. Infant was being 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.

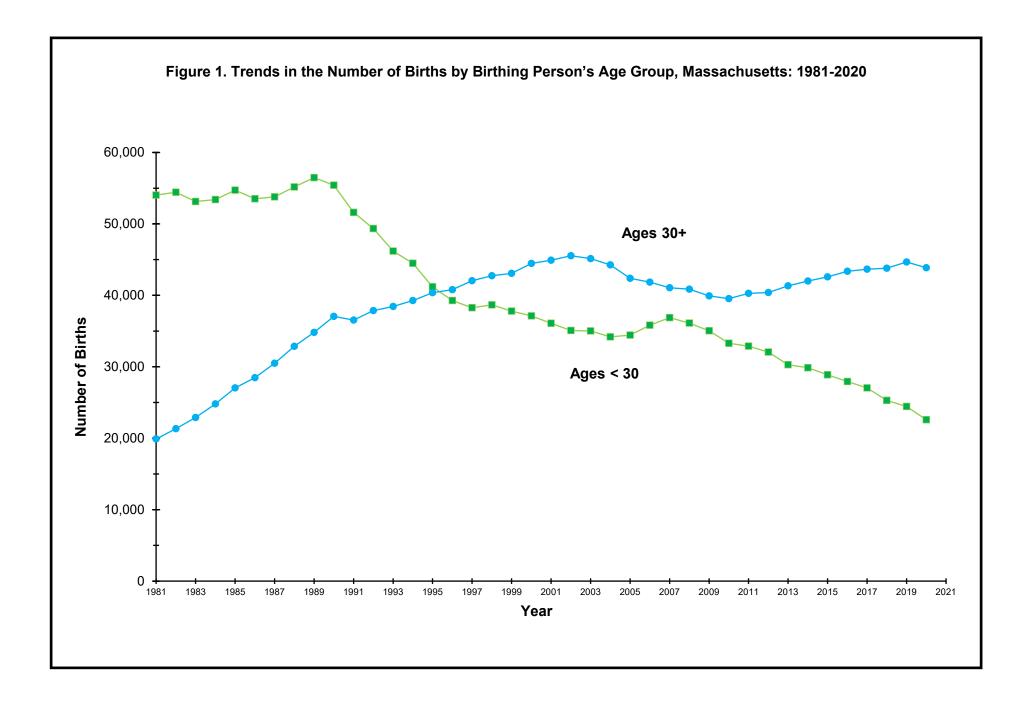


Table 4. Trends in Number and Percent Distribution of Births by Plurality and Age of Birthing Person, Massachusetts: 2006-2020

	Singlet		g r erson,		Multiple				Total bi	rths ²
Age			<u>Twins</u>	<u> 1</u>	riplets or	more	Total Mult	<u>iples</u>		
Group Yea	r n	%	n	%	n	%	n	%	n	%
All Ages										
2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017	74,146 74,498 73,475 71,423 69,508 69,933 69,272 68,363 68,800 68,756 68,660 68,134	95.5 95.6 95.5 95.3 95.4 95.6 95.6 95.5 96.2 96.3 96.4	3,375 3,310 3,365 3,386 3,220 3,135 3,093 3,164 2,984 2,671 2,569 2,523	4.3 4.2 4.4 4.5 4.4 4.3 4.3 4.4 4.2 3.7 3.6 3.6	149 126 129 157 107 100 90 91 83 57 90 47	0.2 0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.1	3,436 3,494	4.5 4.4 4.5 4.7 4.6 4.4 4.5 4.3 3.8 3.7 3.6	77,670 77,934 76,969 74,966 72,835 73,169 72,457 71,618 71,867 71,484 71,319 70,704	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
2018 2019	65,469 66,699	96.5 96.5	2,304 2,349	3.4 3.4	63 68	0.1	2,367 2,417	3.5 3.5	67,836 69,117	100.0 100.0
2020 Ages <35	64,321	96.8	2,071	3.1	50	0.1	2,121	3.2	66,442	100.0
2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	57,237 57,977 57,080 55,906 54,369 54,837 54,069 52,995 53,166 52,640 52,043 51,258 48,492 48,856 46,510	96.3 96.3 96.3 96.1 96.3 96.4 96.2 96.5 96.9 96.9 97.0 97.0	2,116 2,144 2,111 2,202 2,018 2,014 1,961 2,025 1,890 1,665 1,601 1,653 1,491 1,446 1,314	3.6 3.6 3.8 3.6 3.5 3.7 3.4 3.1 3.0 2.9 2.7	89 87 78 80 58 59 57 54 50 45 47 18 27 47 35	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.1 0.1	2,205 2,231 2,189 2,282 2,076 2,073 2,018 2,079 1,940 1,710 1,648 1,671 1,518 1,493 1,349	3.7 3.7 3.7 3.9 3.6 3.6 3.8 3.5 3.1 3.2 3.0 3.0 2.8	59,442 60,208 59,269 58,188 56,445 56,910 56,089 55,074 55,106 54,350 53,691 52,929 50,010 50,350 47,859	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	16,901 16,519 16,392 15,513 15,136 15,092 15,202 15,367 15,634 16,115 16,617 16,875 16,976 17,842 17,809	92.8 93.2 92.6 92.5 92.4 92.8 92.9 93.3 94.1 94.3 95.2 95.1 95.8	1,257 1,166 1,254 1,184 1,200 1,121 1,132 1,139 1,094 1,005 968 870 813 903 757	6.9 6.6 7.1 7.3 6.9 6.9 6.5 5.9 4.6 4.8 4.1	60 39 51 77 49 41 33 37 33 12 43 29 36 21 15	0.3 0.2 0.3 0.5 0.3 0.2 0.2 0.2 0.1 0.2 0.2 0.2 0.1	1,176	7.2 6.8 7.4 7.5 7.6 7.1 7.1 6.7 5.9 5.7 5.1 4.8 4.9	18,218 17,724 17,697 16,774 16,385 16,255 16,367 16,543 16,761 17,132 17,628 17,774 17,825 18,766 18,581	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0

^{1.} Numbers of multiples (n) represent individual infants rather than sets of infants. 2. Differences in the number of births from previous publications are the result of updated files.

	Ages 1	15-17	Ages 18	-19	Combined Ag	es 15-19
	N	% ^{1,2}	N	% ^{1,2}	N	% ^{1,2}
State Total	319	23.6%	1034	76.4%	1353	100.0%
American Indian/ Alaska Native Non-Hispanic	6	6	6	6	6	6
Asian/ Pacific Islander Non-Hispanic	5	1.6%	25	2.5%	30	2.3%
Black Non-Hispanic	49	15.7%	141	13.8%	190	14.3%
Hispanic	185	59.3%	584	57.3%	769	57.8%
White Non-Hispanic	67	21.5%	263	25.8%	330	24.8%
Birthplace						
U.S. States/D.C.	205	64.3%	697	67.4%	902	66.7%
Puerto Rico/U.S. Terr.	27	8.5%	73	7.1%	100	7.4%
Non-U.SBorn	87	27.3%	264	25.5%	351	25.9%
Prenatal Care Funding						
Public	265	88.0%	851	84.3%	1116	85.1%
Private, other	36	12.0%	159	15.7%	195	14.9%
Adequacy of Prenatal Care ³	Pre	egnancy-Related	d Factors			
Adequate Total ⁴	184	57.7%	646	62.5%	830	61.3%
Adequate Intensive	71	22.3%	253	24.5%	324	23.9%
Adequate Basic	113	35.4%	393	38.0%	506	37.4%
Intermediate	31	9.7%	158	15.3%	189	14.0%
Inadequate/None	99	31.0%	206	19.9%	305	22.5%
Unknown	5	1.6%	24	2.3%	29	2.19
Parity ⁵						
1	306	96.2%	905	87.8%	1211	89.8%
2	12	3.8%	114	11.1%	126	9.3%
3+	0	0.0%	12	1.2%	12	0.9%
Smoking during Pregnancy			1			***
Yes	8	2.6%	33	3.3%	41	3.29
No	297	97.4%	956	96.7%	1253	96.8%
NO		Birth Outcome		00 /0	1200	00.0.
Birthweight		Birtii Gutcome	:5			
< 500 g	0	0.0%	6	6	6	
500-1,499 g	6	6	6	6	6	
1,500-2,499 g	6	6	82	7.9%	110	8.29
LBW (<2,499 g)	30	9.5%	98	9.5%	128	9.5%
	277	87.4%	883	85.6%	1160	86.0%
2,500-3,999 g	10	3.2%	51	4.9%	61	4.5%
4000+ g	10	3.∠70	ווט	4.970	UI	4.07
Gestational Age	6	6	0.1	0.00/	44	0.00
< 28 weeks			9	0.9%	11	0.89
Preterm (< 37 weeks)	24	7.6%	81	7.8%	105	7.8%
37-42 weeks	292	92.4%	952	92.2%	1244	92.2%
Plurality						
Singleton	319	100.0%	1015	98.2%	1334	98.69
Multiple birth	0	0.0%	19	1.8%	19	1.49

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

^{1.} For 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 characteristic. 2. Percentages are based on state total of the age group. 3. Based on 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: 2020

Municipality ¹	T	een Births	Blac	k 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	1,353	5.9 (5.5, 6.2)	190	10.3 (8.8, 11.7)	769	21.0 (19.5, 22.5)	330	2.2 (2, 2.4)
Southbridge	19	34.4 (23.9, 46.8)	0	0.0	10	37.5 (26.5, 50.4)	9	37.0 (26.0, 49.8)
Fall River	79	32.2 (22.0, 44.2)	7	38.4 (27.3, 51.5)	40	72.1 (56.4, 89.7)	30	20.0 (12.3, 29.7)
Chelsea	33	29.9 (20.2, 41.6)	0	0.0	4	4	4	4
Holyoke	34	25.9 (16.9, 36.8)	4	4	4	4	4	4
New Bedford	75	24.8 (16.0, 35.4)	13	35.4 (24.7, 48.0)	41	38.7 (27.5, 51.8)	18	12.8 (6.8, 20.7)
Springfield	137	22.6 (18.8, 26.3)	22	19.0 (11.4, 28.4)	94	26.7 (17.5, 37.7)	14	13.9 (7.6, 22.1)
Lawrence	68	20.9 (12.9, 30.8)	4	4	4	4	4	4
Brockton	60	18.6 (11.1, 28.0)	29	15.0 (8.4, 23.5)	19	42.9 (31.1, 56.7)	6	10.1 (4.8, 17.2)
Lynn	58	18.3 (10.9, 27.6)	4	4	49	28.2 (18.8, 39.5)	4	4
Webster	8	15.8 (9.0, 24.5)	0	0.0	4	4	4	4
Lowell	60	15.7 (8.9, 24.3)	4	4	27	25.8 (16.8, 36.6)	15	11.0 (5.5, 18.5)
Haverhill	27	15.4 (8.7, 23.9)	4	4	18	33.8 (23.3, 46.1)	4	4
Marlborough	14	13.2 (7.1, 21.2)	0	0.0	4	4	4	4
Milford	10	12.8 (6.8, 20.7)	4	4	4	4	4	4
Worcester	78	10.6 (5.2, 17.8)	6	4.9 (1.6, 10.1)	52	21.9 (13.7, 31.9)	20	6.5 (2.5, 12.4)
Everett	15	10.1 (4.9, 17.3)	4	4	4	4	0	0.0
Chicopee	16	9.9 (4.7, 16.9)	4	4	4	4	4	4
Pittsfield	12	9.8 (4.7, 16.9)	4	4	5	24.2 (15.5, 34.8)	4	4
Fitchburg	15	9.7 (4.6, 16.7)	0	0.0	4	4	4	4
Leominster	10	8.8 (4.0, 15.5)	0	0.0	5	15.1 (8.5, 23.7)	5	7.6 (3.2, 13.8)
Framingham	21	8.4 (3.7, 15.0)	4	4	15	31.3 (21.3, 43.1)	4	4
Revere	13	7.4 (3.0, 13.5)	0	0.0	4	4	4	4
Boston	154	6.1 (5.1, 7.0)	58	10.9 (5.4, 18.2)	84	15.3 (8.6, 23.9)	8	0.7 (0.0, 3.1)
Taunton	9	5.5 (1.9, 11.0)	4	4	4	4	0	0.0
Waltham	10	4.2 (1.2, 9.1)	0	0.0	10	20.0 (12.2, 29.6)	0	0.0

NOTE: The total number of Asian/ Pacific Islander Non-Hispanic teen births in MA in 2020 was 30 for a rate of 1.7/1,000 significantly lower than the state rate of 5.9. Lowell had the largest number of Asian/ Pacific Islander Non-Hispanic teen births at 13 births. The Asian/ Pacific Islander Non-Hispanic teen birth rate in this community was higher than the state. The total number of American Indian/ Alaska Native Non-Hispanic teen births was suppressed due to small counts.

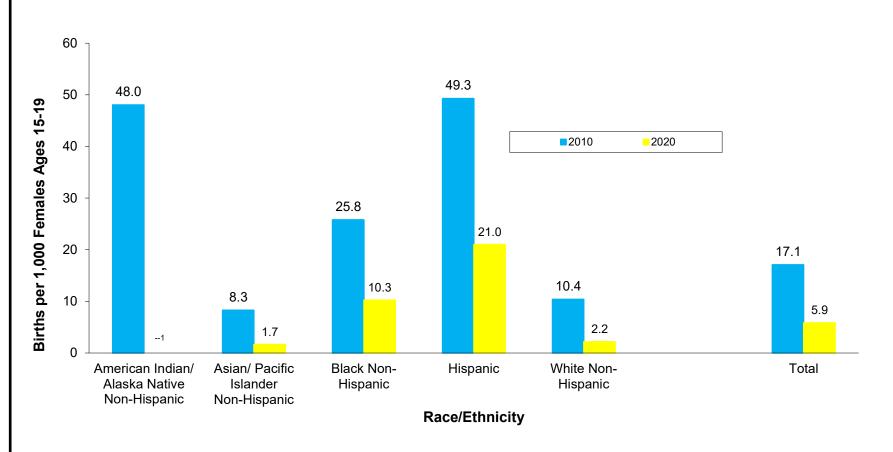
^{1.} Selected communities include the 25 Massachusetts cities and towns with the greatest number of teen births. 2. Rates are per 1,000 females ages 15-19 per city/town. 3. Birth rates for cities and towns were calculated using the Massachusetts Department of Public Health Race Allocated Census 2010 Estimates file (MRACE 2010), which is 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 2020 Teen Birth Rate, Massachusetts: 2010, 2019-2020

		201	0	201	19	202	20
2019 Rank	Municipality ¹	# Births 15-19	Birth Rate ²	# Births 15-19	Birth Rate ^{2,3}	# Births 15-19	Birth Rate ^{2,3}
	State Total	3,907	17.1	1,538	7.1	1,353	5.9
1	Southbridge	28	49.0	8	14.4	19	34.4
2	Fall River	124	44.6	51	20.7	79	32.2
3	Chelsea	62	51.8	31	28.8	33	29.9
4	Holyoke	126	83.6	36	27.0	34	25.9
5	New Bedford	144	47.4	81	26.7	75	24.8
6	Springfield	371	54.3	174	28.3	137	22.6
7	Lawrence	193	56.8	105	32.8	68	20.9
8	Brockton	119	35.5	60	18.9	60	18.6
9	Lynn	149	46.2	74	23.7	58	18.3
10	Webster	16	33.0	8	15.8	8	15.8
11	Lowell	184	44.7	53	13.8	60	15.7
12	Haverhill	56	31.3	26	14.9	27	15.4
13	Marlborough	23	22.4	13	12.2	14	13.2
14	Milford	11	14.0	14	17.9	10	12.8
15	Worcester	244	31.6	100	13.5	78	10.6
16	Everett	32	24.3	14	9.4	15	10.1
17	Chicopee	52	27.6	26	15.9	16	9.9
18	Pittsfield	46	34.4	11	9.0	12	9.8
19	Fitchburg	58	32.6	22	14.2	15	9.7
20	Leominster	34	26.0	16	14.1	10	8.8
21	Framingham	52	22.1	28	11.2	21	8.4
22	Revere	37	25.8	15	8.7	13	7.4
23	Boston	503	19.4	169	6.8	154	6.1
24	Taunton	49	28.1	17	10.4	9	5.5
25	Waltham	17	7.2	12	5.0	10	4.2

^{1.} Selected communities include the 25 Massachusetts cities and towns with the greatest number of teen births in 2020. Ranking is by 2020 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), which is 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 Females Ages 15-19 Years by Race/Hispanic Ethnicity of Birthing Person, Massachusetts: 2010 and 2020



NOTE: Teen birth rate is number of births to females ages 15-19 per 1,000 females ages 15-19. 2010 birth rates are based upon the 2010 population estimates from the National Center for Health Statistics. 2020 birth rates are based upon UMass Donahue Institute population estimates for 2019.

^{1.} Counts and rates based on counts of 1-4 births are excluded.

Table 8. Births by Birthweight, Race/Hispanic Ethnicity, Massachusetts: 2020

Birthweight	Tot	tal	American Alaska Nat Hispa	ive Non-	Asian/ Pacific I Non-Hispa		Black N Hispa		Hispar	nic	White N Hispar	
(in grams)	n	% ¹	n	% ¹	n	% ¹	n	% ¹	n	% ¹	n	% ¹
State Total	66,442	100.0	198	41.0	6,061	100.0	6,904	100.0	13,957	100.0	40,989	100.0
<500	61	0.1	2	2	5	0.1	17	0.2	18	0.1	16	0.0
500-999	238	0.4	2	2	26	0.4	53	8.0	55	0.4	97	0.3
1,000-1,499	354	0.5	2	2	35	0.6	59	0.9	81	0.6	163	0.4
1,500-1,999	1,010	1.5	2	2	80	1.3	152	2.2	257	1.8	492	1.3
2,000-2,499	3,234	4.9	11	2.3	372	6.1	417	6.1	737	5.3	1,606	4.3
2,500-2,999	11,780	17.8	43	8.9	1,452	24.0	1,433	20.8	2,699	19.4	5,849	15.6
3,000-3,499	25,665	38.8	78	16.1	2,557	42.2	2,709	39.4	5,544	39.8	14,180	37.8
3,500-3,999	18,136	27.4	53	11.0	1,251	20.7	1,572	22.9	3,577	25.7	11,318	30.2
4,000-4,499	4,966	7.5	6	1.2	246	4.1	405	5.9	842	6.0	3,378	9.0
4,500-4,999	627	0.9	2	2	28	0.5	56	8.0	105	8.0	423	1.1
>=5,000	78	0.1	0	0.0	2	2	2	2	18	0.1	51	0.1
VLBW ³ (0-1,499 g)	653	1.0	2	2	66	1.1	129	1.9	154	1.1	276	0.7
LBW ⁴ (0-2,499 g)	4,897	7.4	16	8.1	518	8.6	698	10.1	1,148	8.2	2,374	5.8

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: 2010-2020

Age Group (years)	Year		Sing	<u>lleton</u>			т	win		l Tr	Multi iplets	<u>ples</u> or mo	re	-	Γotal I	Multiples			Total	Births	
() /		VLB	W ¹	LBW	J 2	VLB	W ¹	LBW	J ²	VLB			W ²	VLE		LBV		VLB	W¹	LBW	V 2
		n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
All Ages	2010	643	0.9	3,882	5.6	288	8.9	1,668	51.8	30	28.8	100	96.2	318	9.6	1,768	53.2	961	1.3	5,650	7.8
All Ages	2011	629	0.9	3,824	5.6	286	9.2	1,541	49.8	41	41.0	93	93.0	327	10.2	1,634	51.2	956	1.3	5,458	7.6
	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
Ages < 35	2010	489	0.9	3,071	5.7	206	10.2	1,059	52.5	22	40.0	51	92.7	228	11.0	1,110	53.5	717	1.3	4,181	7.4
	2011	475	0.9	2,964	5.5	189	9.5	1,034	52.0	31	52.5	54	91.5	220	10.8	1,088	53.2	695	1.2	4,052	7.2
	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 3	46.8 3	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			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 10	57.1	35	100.0	188 152	8.0	967	40.9	573	1.1	3,692	7.3 7.5
	2019 2020	435 369	0.9 0.8	2,878 2,750	5.9 5.9	134 82	9.3 6.3	830 691	57.7 53.1	10	21.3 37.5	46 30	97.9 93.8	104	6.6 4.8	935 782	40.6 36.2	579 463	1.2 1.0	3,754 3.471	7.3
Ages 35+	2010	154	1.0	810	5.4	82	6.8	609	50.8	8	16.3	49	100	90	7.2	658	52.8	244	1.5	1,468	9.0
Ages ou .	2011	154	1.0	860	5.8	97	8.8	507	45.9	10	24.4	39	95.1	107	9.3	546	47.6	261	1.6	1,406	8.8
	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

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: 2020 Black Non-Total American Indian/ Asian/ Pacific White Non-Hispanic **Alaska Native** Islander Non-Hispanic Hispanic Gestational Age¹ Non-Hispanic Hispanic (weeks completed) %² %² %² %² %² %² n n n n n n 66,442 100.0 198 6,904 100.0 13,956 100.0 37,651 100.0 **State Total** 3.3 6,061 100.0 --3 --3 --3 --3 --3 --3 <20 18 0.03 8 0.12 5 0.04 --3 --3 20-23 73 0.11 0 0.0 17 0.2 19 0.1 28 0.1 --3 --3 24-27 210 0.29 16 0.3 44 0.6 50 0.4 91 0.2 494 0.69 --3 --3 45 89 1.3 0.9 224 0.6 28-31 0.7 119 32-33 715 0.98 0 0.0 52 0.9 91 1.3 179 1.3 373 1.0 8 34-36 4.304 5.64 0.1 350 5.8 441 6.4 1,015 7.3 2,375 6.3 37-38 16,425 22.81 54 0.9 1,704 28.1 1,939 28.1 3,638 26.1 8,721 23.2 23.681 20.42 69 1.1 2.242 37.0 2.336 33.9 5.009 35.9 13.492 35.9 39 40 14,514 13.35 45 0.7 1,247 20.6 1,390 20.1 2,859 20.5 8,655 23.0 9.4 41 5,618 4.07 17 0.3 392 6.5 533 7.7 1.036 7.4 3.516 42 150 0.11 0 0.0 --3 --3 --3 --3 --3 --3 --3 --3 --3 --3 --3 --3 --3 --3 --3 --3 --3 --3 0 0.0 43 --3 --3 --3 0 0.0 0 0 0.0 0 0.0 --3 44+ 0.0 Preterm⁴ (<37) 301 0.5 --3 --3 21 0.3 69 1.0 74 0.5 122 0.3 Very Early⁵ (<28) --3 --3 (28-33)1.209 1.8 97 1.6 180 2.6 298 2.1 597 1.6 5.8 Late (34-36) 4,304 6.5 8 0.1 350 441 6.4 1,015 7.3 2,375 6.3 Term (>=37)28.1 26.1 8,721 23.2 Early Term (37-38) 16,425 24.8 54 0.9 1.704 1,939 28.1 3,638 43,813 65.9 131 2.2 3,881 64.0 4,259 61.7 8,904 63.8 25,663 68.3 (39-41)--3 --3 (>=42)157 0.2 0 0.0 11 0.2 20 0.1 115 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.

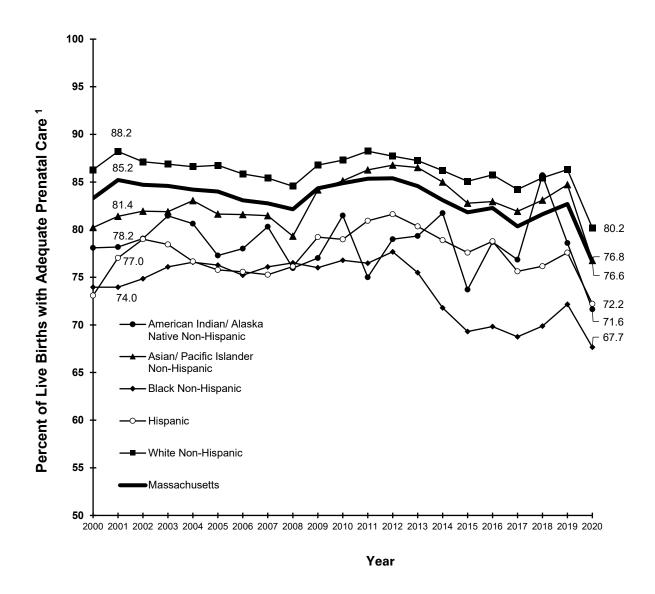
^{3.} Calculations based on values of 1-4 are excluded. 4. Also known as early gestational age, premature delivery, or preterm delivery. 5. Also known as extremely premature delivery or extremely preterm delivery.

Table 11. Percent Preterm and Term Births by Gestational Age Category, Massachusetts: 2003-2020

		Preterm ¹		Те	rm ²
Year	Very Early Preterm (<28 wks)	Moderate Preterm (28- 33 wks)	Late Preterm (34- 36 wks)	Early Term (37-38 wks)	Full Term (37+ wks)
2003	0.7	2.1	6.0	20.8	91.3
2004	0.6	2.2	6.4	22.3	90.8
2005	0.6	2.1	6.3	22.3	91.0
2006	0.6	2.0	6.3	22.7	91.0
2007	0.6	2.0	6.4	22.6	91.0
2008	0.6	2.0	6.2	22.6	91.2
2009	0.7	1.9	6.2	20.8	91.3
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

^{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.

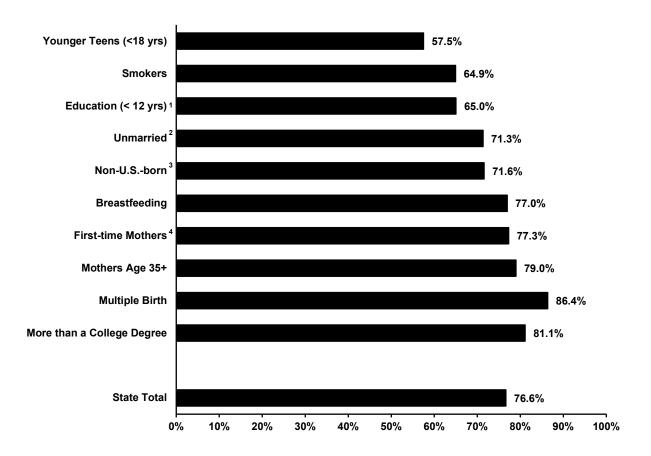
Figure 3. Trends in Adequacy of Prenatal Care^{2,3} by Race/Hispanic Ethnicity, Massachusetts: 2000-2020



NOTE: FOR PURPOSES OF VISUAL REPRESENTATION THE VERTICAL SCALE OF GRAPH REPRESENTS A SMALL INTERVAL (from 50% to 100%).

- 1. All percentages are calculated based on only those births with known values for the characteristic(s) of interest, unless otherwise stated.
- 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: 2020

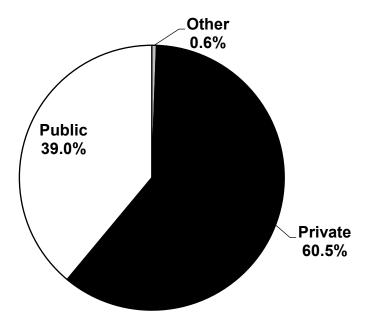


Percent of Birthing People with Adequate Prenatal Care

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

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





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 other: self-pay.

Table 12. Resident Birth Characteristics, 30 Largest Municipalities, Massachusetts: 2020

				Birthing Person	's Race and Ethnicity ⁴			
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		6,964,383	47.1	0.3	9.1	10.4	21.0	56.7
Arlington	29	8,756	53.9	5	22.2	5.1	4.4	64.6
Attleboro	28	8,931	51.7	5	4.3	8.4	15.8	68.4
Boston	1	191,949	36.3	0.2	9.1	21.7	24.4	42.0
Brockton	9	20,484	68.7	0.5	2.6	59.2	18.4	15.6
Brookline	18	18,119	26.9	5	28.3	2.7	6.2	60.4
Cambridge	5	35,467	27.5	5	24.0	12.6	8.5	51.8
Chicopee	23	11,305	44.1	5	2.8	6.4	34.9	54.2
Everett	27	10,539	55.2	0.0	10.5	15.6	47.9	22.2
Fall River	11	17,939	64.1	1.0	3.7	11.0	25.0	57.2
Framingham	14	15,899	54.5	0.0	9.3	7.2	30.9	48.3
Haverhill	17	12,734	60.5	5	2.5	7.9	38.4	49.3
Lawrence	12	19,144	66.7	5	2.4	2.2	89.8	5.0
Lowell	4	25,510	53.7	5	25.7	13.9	27.4	31.9
Lynn	7	21,347	68.3	5	6.3	9.9	58.0	17.1
Malden	15	15,442	50.6	0.0	28.8	17.6	17.1	31.3
Medford	20	13,858	50.4	5	15.2	7.9	11.6	62.9
Methuen	26	10,622	50.5	5	5.0	4.1	46.5	42.4
New Bedford	8	20,465	63.5	0.6	1.3	15.2	35.7	44.5
Newton	10	18,807	34.1	5	25.7	3.3	8.1	61.2
Peabody	25	9,563	53.3	5	4.9	5.7	18.8	61.8
Plymouth	19	10,178	47.7	5	1.6	2.5	8.7	86.0
Quincy	6	21,741	50.0	5	36.0	8.9	9.3	43.7
Revere	21	12,218	54.9	0.0	8.2	6.9	49.0	30.4
Salem	30	10,479	43.3	0.0	5.5	6.6	26.7	55.3
Somerville	13	22,606	32.7	5	17.8	5.7	14.9	58.8
Springfield	3	35,070	58.3	0.3	2.5	18.8	59.3	17.4
Taunton	22	11,174	50.4	1.4	1.8	24.9	12.6	56.3
Waltham	16	16,322	42.6	5	14.7	8.0	28.2	47.6
Weymouth	24	10,503	59.6	5	13.1	6.2	8.5	70.6
Worcester	2	44,383	50.7	0.4	7.2	21.2	33.7	37.1

Table 12 (cont'd). Resident Birth Characteristics, 30 Largest Municipalities, Massachusetts: 2020

				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 years	
	%	%	%	%	%	%	N	Rate ⁸
STATE TOTAL	1.0	7.4	7.9	76.6	39.0	33.0	1,353	8.1
Arlington	5	7.1	6.2	82.7	7.1	7.4	0	0.0
Attleboro	5	8.0	10.6	55.9	20.7	32.8	8	6.5
Boston	0.8	7.6	4.6	70.0	40.6	35.6	154	6.1
Brockton	2.2	9.2	10.7	71.0	69.7	55.5	60	18.6
Brookline	5	5.4	6.2	81.7	9.8	6.4	5	5
Cambridge	5	5.4	5.4	71.1	16.0	13.5	5	5
Chicopee	5	8.2	17.1	76.7	63.2	56.9	16	9.9
Everett	5	8.6	7.6	65.3	68.1	40.1	15	10.1
Fall River	1.6	9.0	11.1	81.8	77.9	63.9	79	32.2
Framingham	0.8	8.7	7.7	73.8	47.0	29.8	21	8.4
Haverhill	0.9	6.4	8.4	81.3	44.0	47.0	27	15.4
Lawrence	1.0	7.6	9.2	78.2	83.4	60.3	68	20.9
Lowell	1.1	9.1	10.6	78.9	64.5	53.7	60	15.7
Lynn	1.0	7.0	8.1	64.6	72.6	50.4	58	18.3
Malden	1.4	8.2	6.8	70.6	43.5	21.2	6	3.7
Medford	5	6.7	5.4	74.7	20.5	14.0	7	4.3
Methuen	1.1	9.0	8.1	80.6	51.5	41.0	6	3.4
New Bedford	2.1	11.8	9.4	79.0	78.6	64.5	75	24.8
Newton	5	5.8	8.9	78.7	10.4	8.5	5	5
Peabody	5	6.7	7.7	79.2	33.7	29.4	5	5
Plymouth	1.2	5.4	6.4	85.3	26.6	30.0	6	3.5
Quincy	1.1	7.6	7.6	76.2	30.6	24.2	5	5
Revere	5	6.9	5.2	60.5	66.3	36.5	13	7.4
Salem	5	5.9	9.3	77.7	35.9	33.1	7	4.4
Somerville	1.0	6.8	6.3	73.8	23.5	17.6	6	4.1
Springfield	1.7	10.4	11.5	70.8	77.7	71.0	137	22.6
Taunton	1.1	9.4	7.1	76.2	49.7	50.3	9	5.5
Waltham	1.6	7.2	7.0	78.0	34.1	24.9	10	4.2
Weymouth	5	7.5	7.8	83.7	22.2	24.0	5	5
Worcester	1.6	9.3	10.1	75.6	62.1	50.2	78	10.6

^{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 Birthing Person's Race/Ethnicity, percentages are calculated based on the state total of resident births, including births for which race/Hispanic ethnicity 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 2019.

Table 13. Birth Characteristics by Facility/Location, Massachusetts: 2020

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		67,220	7.3	38.1	76.5	24.9	6.5
Anna Jaques Hospital	Newburyport	633	2.5	9.7	93.5	24.8	4.3
Baystate Franklin Medical Center	Greenfield	436	3.2	42.5	83.3	24.8	4.1
Baystate Medical Center	Springfield	4,156	11.3	56.0	76.5	26.8	9.4
Berkshire Medical Center	Pittsfield	631	5.2	52.5	79.4	22.2	5.1
Beth Israel Deaconess Hospital - Plymouth	Plymouth	918	4.4	27.1	82.0	20.4	4.0
Beth Israel Deaconess Medical Center	Boston	5,056	10.6	22.5	74.9	26.6	8.8
Beverly Hospital	Beverly	2,025	4.2	33.2	83.6	22.3	4.8
Boston Medical Center	Boston	2,598	8.5	82.0	52.3	27.5	6.9
Brigham and Women's Hospital	Boston	6,369	9.3	23.3	83.9	26.9	8.0
Brockton Hospital	Brockton	1,332	5.4	78.0	77.6	22.9	5.0
Cambridge Birth Center	Cambridge	9	0.0	8	77.8	8	0.0
Cambridge Hospital	Cambridge	1,090	4.1	73.3	61.7	25.9	2.7
Cape Cod Hospital	Barnstable	959	4.1	53.1	66.8	22.3	5.7
Charlton Memorial Hospital	Fall River		6.8			21.4	
		1,432		65.2	86.1		5.4
Cooley Dickinson Hospital	Northampton	529	3.4	30.2	68.6	15.1	2.3
Emerson Hospital	Concord	1,279	4.7	13.4	82.4	29.6	8.5
Fairview Hospital	Great Barrington	146	4.8	26.4	88.7	17.8	6.8
Falmouth Hospital	Falmouth	77		52.6	80.3	26.0	
Good Samaritan Medical Center	Brockton	558	5.0	52.4	71.2	22.6	6.3
HealthAlliance - Clinton Hospital, Leominster	Leominster	568	4.4	58.6	80.3	22.9	4.8
Heywood Hospital	Gardner	355	3.9	66.8	83.6	15.5	2.8
Holyoke Medical Center	Holyoke	75	8	64.4	66.7	22.7	
Lawrence General Hospital	Lawrence	1,282	5.9	77.7	85.5	24.8	7.8
Lowell General Hospital	Lowell	1,964	7.1 8	52.2	82.4	27.7	6.1
Martha's Vineyard Hospital	Oak Bluffs	147		41.5	75.0	14.3	
Massachusetts General Hospital Melrose-Wakefield Hospital	Boston	3,601 773	7.8 4.5	24.3 32.5	50.7 89.1	23.4 22.6	7.1 5.2
Mercy Medical Center	Melrose Springfield	1,043	2.3	67.6	72.7	22.4	2.6
Metrowest Med Ctr - Framingham Union Hospital	Framingham	1,105	6.7	58.7	67.6	28.6	5.9
Milford Regional Medical Center	Milford	878	4.6	40.7	84.2	24.7	6.5
Mt. Auburn Hospital	Cambridge	2,376	3.6	16.8	78.9	19.2	4.0
Nantucket Cottage Hospital	Nantucket	120	8	41.7	60.0	20.8	8
Newton-Wellesley Hospital	Newton	3,677	4.7	4.0	84.2	26.3	5.5
North Shore Birth Center	Beverly	70	0.0	35.7	92.9	12.9	0.0
North Shore Medical Center - Salem Hospital	Salem	1,188	5.7	56.1	67.9	24.0	6.2
Norwood Hospital	Norwood	194	3.1	26.4	83.6	28.4	4.1
Saint Vincent Hospital	Worcester	1,765	5.5	37.4	85.2	26.5	5.7
Seven Sisters Midwifery & Community Birth	Northampton	12	0.0	8	50.0	8	0.0
Center	'						
South Shore Hospital	Weymouth	2,944	7.1	14.9	89.1	24.7	6.2
St. Elizabeth's Medical Center	Boston	1,041	11.2	37.2	81.2	23.9	8.3
St. Luke's Hospital	New Bedford	1,709	7.7	69.4	79.2	25.3	6.1
Steward Holy Family Hospital	Methuen	1,016	4.1	53.9	78.2	18.6	3.5
Sturdy Memorial Hospital	Attleboro	574	6.3	9.1	18.4	20.4	3.0
Tufts Medical Center	Boston	1,259	18.8	46.2	80.7	26.0	10.7
UMass Memorial Medical Center	Worcester	4,142	10.4	45.3	74.8	27.4	8.4
Winchester Hospital	Winchester	2,481	6.4	11.3	83.7	23.8	5.9
Other Hospitals		10	8	8	8	8	0.0
Home, Enroute & Dr. Off.		618	7.4	26.6	55.4	22.4	4.0

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 during pregnancy and childbirth. 2. Occurrence births are births that occurred at the facility, regardless of where the birthing person was a resident. 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: 2020

		_		_	Birthing Person's Race/Hispanic Ethnicity (% of teen birt						
Municipality ¹	Total Female Number of Population, Rank ages 15-19 (Ages 15-19)		Teen Birth Rate ²	American Indian/ Alaska Native Non- Hispanic	Asian/ Pacific Islander Non- Hispanic ³	Black Non- Hispanic	Hispanic	White Non- Hispanic			
State Total		231,224	1,353	5.9	0.2	2.3	14.3	57.8	24.8		
Arlington	29	1,232	0	0.0	4	4	0.0	0.0	0.0		
Attleboro	28	1,235	8	6.5	0.0	0.0	0.0	4	4		
Boston	1	25,311	154	6.1	0.0	4	38.4	55.6	4		
Brockton	9	3,224	60	18.6	0.0	4	50.0	32.8	10.3		
Brookline	18	1,801	4	4	0.0	4	0.0	4	4		
Cambridge	5	3,433	4	4	0.0	0.0	4	0.0	0.0		
Chicopee	23	1,624	16	9.9	0.0	0.0	4	4	4		
Everett	27	1,479	15	10.1	0.0	0.0	4	4	0.0		
Fall River	11	2,456	79	32.2	4	4	4	50.6	38.0		
Framingham	14	2,495	21	8.4	0.0	4	4	71.4	4		
Haverhill	17	1,759	27	15.4	0.0	0.0	4	66.7	4		
Lawrence	12	3,252	68	20.9	0.0	4	0.0	4	4		
Lowell	4	3,825	60	15.7	0.0	22.0	4	45.8	25.4		
Lynn	7	3,162	58	18.3	0.0	4	4	89.1	4		
Malden	15	1,627	6	3.7	0.0	0.0	4	4	4		
Medford	20	1,620	7	4.3	0.0	0.0	0.0	4	4		
Methuen	26	1,785	6	3.4	0.0	0.0	0.0	4	4		
New Bedford	8	3,026	75	24.8	0.0	4	4	54.7	24.0		
Newton	10	4,906	4	4	0.0	0.0	0.0	4	0.0		
Peabody	25	1,313	4	4	0.0	0.0	0.0	4	4		
Plymouth	19	1,736	6	3.5	0.0	4	0.0	4	4		
Quincy	6	1,981	4	4	0.0	0.0	4	4	0.0		
Revere	21	1,768	13	7.4	0.0	4	0.0	4	4		
Salem	30	1,576	7	4.4	0.0	0.0	0.0	4	4		
Somerville	13	1,481	6	4.1	0.0	0.0	4	4	4		
Springfield	3	6,074	137	22.6	4	4	16.5	70.7	10.5		
Taunton	22	1,635	9	5.5	0.0	4	4	4	0.0		
Waltham	16	2,375	10	4.2	0.0	0.0	0.0	100.0	0.0		
Weymouth	24	1,442	4	4	0.0	0.0	0.0	4	4		
Worcester	2	7,372	78	10.6	0.0	0.0	7.7	66.7	25.6		

Table 14 (cont'd). Resident Teen Birth Characteristics, 30 Largest Municipalities, Massachusetts: 2020

Municipality ¹	Public Payment for	H	Low Birthweight ⁶	Preterm ⁷	Adequa	cy of Prenatal (Care ⁸ (% of teen	births)
	Prenatal Care⁵ (%)	Unmarried (%)	(%)	(%)	Adequate Intensive	Adequate Basic	Intermediate	Inadequate ⁹
State Total	85.1	94.8	9.5	7.8	24.5	38.2	14.3	23.0
Arlington	4	4	4	4	4	4	4	4
Attleboro	4	100.0	4	4	4	4	4	4
Boston	86.0	95.4	9.8	9.1	19.6	34.6	20.3	25.5
Brockton	83.1	93.2	18.3	16.7	20.7	39.7	12.1	27.6
Brookline	4	4	0.0	0.0	0.0	4	4	0.0
Cambridge	4	4	0.0	0.0	0.0	4	0.0	0.0
Chicopee	87.5	100.0	4	0.0	4	56.3	4	4
Everett	92.9	93.3	0.0	0.0	4	33.3	4	4
Fall River	96.1	92.1	4	4	34.2	44.7	4	15.8
Framingham	85.7	85.7	4	4	4	52.6	4	4
Haverhill	80.8	100.0	4	4	29.6	37.0	22.2	4
Lawrence	97.0	92.6	14.7	11.8	30.9	39.7	14.7	14.7
Lowell	89.8	93.3	4	4	26.8	41.1	4	30.4
Lynn	91.1	93.1	4	4	19.6	25.0	14.3	41.1
Malden	4	83.3	4	0.0	4	4	4	0.0
Medford	83.3	85.7	4	4	4	4	4	4
Methuen	100.0	100.0	0.0	0.0	4	4	0.0	0.0
New Bedford	95.7	95.8	10.7	8.0	34.2	38.4	4	23.3
Newton	4	4	0.0	4	4	4	0.0	0.0
Peabody	4	4	4	4	4	0.0	4	0.0
Plymouth	4	100.0	0.0	4	4	4	0.0	4
Quincy	4	4	0.0	0.0	0.0	4	0.0	0.0
Revere	100.0	76.9	0.0	0.0	38.5	4	4	4
Salem	100.0	100.0	4	4	4	4	4	4
Somerville	83.3	100.0	0.0	0.0	4	4	0.0	4
Springfield	91.9	97.8	9.5	7.3	15.5	45.7	20.9	17.8
Taunton	88.9	100.0	0.0	0.0	4	4	4	4
Waltham	100.0	100.0	4	0.0	4	4	4	4
Weymouth	4	4	0.0	0.0	4	4	0.0	4
Worcester	84.6	97.4	11.7	9.0	34.6	32.1	10.3	23.1

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

^{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. Those who designated themselves as Non-Hispanic Asian, American Indian, or Other. 4. Counts and calculations based on values of 1-4 are excluded. 5. 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. 6. Less than 2,500 grams or 5.5 pounds. 7. Less than 37 weeks of gestational age. 8. Based on Adequacy of Prenatal Care Utilization (APNCU) Index. 9. Inadequate includes those with no prenatal care.

Table 15. Adequacy of Prenatal Care Utilization: Summary and Component Indices, Massachusetts: 2020

	Adequate Total ¹		Adeq Inten			Intermediate		Inadequate		Unknown	
	n	%	n	%	n	%	n	%	n	%	n
Summary Index Adequacy of Prenatal Care Utilization	49,328	76.6	19,508	30.3	29,820	46.3	8,037	12.5	7,064	11.0	738
Component Indices Adequacy of Initiation	58,093	90.2	20,479	31.8	37,614	58.4	3,623	5.6	2,713	4.2	738
Adequacy of Received Services (Visits)	54,606	84.8	23,433	36.4	31,173	48.4	8,710	13.5	1,113	1.7	738

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: 2020

	Birth	ns¹	1	Γeen Bi	rths²			Birthw	eight/	
Race/Ethnicity and										
Payment Source			<18 Ye		<20 Ye		Very Lo		Low	
	n	%	n	%	n	%	n	%	n	%
STATE TOTAL ⁵	66,442	100.0	339	0.5	1,373	2.1	653	1.0	4,897	7.4
Public	25,199	38.8	280	1.1	1,131	4.5	275	1.1	2,103	8.3
Medicaid ⁶	21,877	33.7	257	1.2	1,017	4.6	249	1.1	1,878	8.6
Other Public ⁷	3,322	5.1	23	0.7	114	3.4	26	8.0	225	6.8
Private ⁸	39,123	60.2	35	0.1	190	0.5	292	0.7	2,534	6.5
American Indian/ Alaska										
Native Non-Hispanic	198	100.0	9	9	9	9	9	9	16	8.1
Public	99	50.0	9	9	9	9	9	9	9	9.1
Medicaid ⁶	82	41.4	9	9	9	9	9	9	8	9.8
Other Public ⁷	17	8.6	0	0.0	0	0.0	9	9	9	9
Private ⁸	95	48.0	0	0.0	0	0.0	9	9	7	7.4
Asian/ Pacific Islander										
Non-Hispanic	6,061	100.0	5	0.1	30	0.5	66	1.1	518	8.5
Public	1,434	23.7	9	9	21	1.5	13	0.9	114	7.9
Medicaid ⁶	1,262	20.8	9	9	9	9	9	9	98	7.8
Other Public ⁷	172	2.8	0	0.0	9	9	9	9	16	9.3
Private ⁸	4,587	75.7	9	9	9	9	50	1.1	398	8.7
Black Non-Hispanic	6,904	100.0	50	0.7	191	2.8	129	1.9	698	10.1
Public	4,296	62.8	41	1.0	151	3.5	85	2.0	437	10.2
Medicaid ⁶	3,761	55.0	32	0.9	130	3.5	76	2.0	382	10.2
Other Public ⁷	535	7.8	9	1.7	21	3.9	9	1.7	55	10.3
Private ⁸	2,439	35.6	9	9	33	1.4	35	1.4	231	9.5
Hispanic	13,957	100.0	201	1.4	785	5.6	154	1.1	1,148	8.2
Public	10,285	74.4	177	1.7	710	6.9	103	1.0	812	7.9
Medicaid ⁶	9,171	66.4	169	1.8	643	7.0	9	9	746	8.1
Other Public ⁷	1,114	8.1	8	0.7	67	6.0	9	9	66	5.9
Private ⁸	3,426	24.8	16	0.5	55	1.6	29	8.0	281	8.2
White Non-Hispanic	37,651	100.0	68	0.2	331	0.9	276	0.7	2,374	6.3
Public	8,346	19.7	48	0.6	222	2.7	61	0.7	665	8.0
Medicaid ⁶	6,958	19.0	43	0.6	199	2.9	53	8.0	585	8.4
Other Public ⁷	1,388	3.8	5	0.4	23	1.7	8	0.6	80	5.8
Private ⁸	27,913	76.2	11	0.0	91	0.3	169	0.6	1,564	5.6
	•									

Table 16 (cont'd). Birth Characteristics by Race/Hispanic Ethnicity and Source of Prenatal Care Payment, Massachusetts: 2020

	F	Prenata	l Care							
Race/Ethnicity and			Began 1s	st	Cesare	an				
Payment Source	Adequat	:e ¹⁰	Trimeste		Delive	ry	Breastfeed	ling ¹¹	Smokin	ıg ¹²
	n	%	n	%	n	%	n	%	n	%
STATE TOTAL ⁵	50,173	76.6	53,201	80.9	21,466	32.4	56,961	87.8	2,350	3.7
Public	17,527	70.3	17,920	71.7	8,159	32.4	20,647	82.2	1,719	7.1
Medicaid ⁶	15,114	69.9	15,508	71.5	7,079	32.4	17,879	81.9	1,509	7.2
Other Public ⁷	2,413	73.3	2,412	73.1	1,080	32.5	2,768	83.5	210	6.7
Private ⁸	31,594	81.2	34,122	87.5	12,717	32.5	35,810	91.7	528	1.4
American Indian/ Alaska										
Native Non-Hispanic	139	71.6	152	78.4	56	28.3	158	80.6	24	12.3
Public	64	66.7	74	77.1	29	29.3	73	74.5	18	18.6
Medicaid ⁶	52	65.8	59	74.7	9	9	62	76.5	9	9
Other Public ⁷	12	70.6	15	88.2	9	9	11	64.7	9	9
Private ⁸	73	77.7	76	80.9	26	27.4	82	87.2	6	6.4
Asian/ Pacific Islander										
Non-Hispanic	4,628	76.8	4,964	82.2	1,855	30.6	5,559	91.9	35	0.6
Public	1,011	71.3	1,021	71.7	405	28.2	1,175	82.0	26	1.9
Medicaid ⁶	886	71.0	892	71.1	354	28.1	1,021	80.9	9	9
Other Public ⁷	125	73.5	129	75.9	51	29.7	154	90.1	9	9
Private ⁸	3,601	78.7	3,928	85.8	1,441	31.4	4,350	95.0	7	0.2
Black Non-Hispanic	4,598	67.7	4,725	69.3	2,426	35.1	6,031	88.5	178	2.6
Public	2,696	63.7	2,741	64.5	1,460	34.0	3,710	86.8	145	3.5
Medicaid ⁶	2,335	63.0	2,384	64.1	1,271	33.8	3,242	86.6	123	3.3
Other Public ⁷	361	68.4	357	67.6	189	35.3	468	88.0	22	4.2
Private ⁸	1,857	76.7	1,931	79.7	911	37.4	2,236	92.1	25	1.1
Hispanic	9,954	72.2	10,376	75.0	4,563	32.7	11,935	86.5	370	2.7
Public	7,159	70.3	7,391	72.4	3,343	32.5	8,690	84.7	323	3.3
Medicaid ⁶	6,362	70.1	6,604	72.5	2,975	32.4	7,766	84.9	283	3.2
Other Public ⁷	797	72.1	787	71.0	368	33.0	924	83.2	40	3.8
Private ⁸	2,699	79.3	2,885	84.6	1,150	33.6	3,152	92.1	41	1.2
White Non-Hispanic	29,827	80.2	31,893	85.2	12,051	32.0	32,026	87.5	1,730	4.7
Public	6,136	74.2	6,205	74.8	2,665	31.9	6,370	76.5	1,198	14.7
Medicaid ⁶	5,080	73.8	5,137	74.3	2,233	32.1	5,237	75.4	1,055	15.5
Other Public ⁷	1,056	76.6	1,068	77.4	432	31.1	1,133	81.7	143	10.8
Private ⁸	22,850	82.4	24,768	89.0	8,964	32.1	25,386	91.0	445	1.6

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: 2020

			Resident	Births ²	
Community	Occurrence Births ¹	Number of Births	Low Birthweight (Less than 2,500 grams, 5.5 lbs.)	Preterm (<37 weeks gestation)	Teen Births (15-19 years)
STATE TOTAL	67,220	66,442	4,897	5,814	1,353
Abington	0	185	12	12	3
Acton	1	182	11	15	0
Acushnet	1	81	6	6	3
Adams	2	67	3	5	0
Agawam	2	234	15	16	3
Alford	0	2	0	3	0
Amesbury	4	165	13	15	3
Amherst	3	101	14	3	3
Andover	2	293	9	13	3
Aquinnah	0	3	0	0	0
Arlington	10	472	33	37	0
Ashburnham	1	49	3	3	0
Ashby	0	24	3	3	0
Ashfield	2	5	3	3	0
Ashland	4	197	18	20	3
Athol	2	114	12	13	3
Attleboro	581	462	37	39	8
Auburn	0	146	10	10	3
Avon	0	44	6	3	0
Ayer	2	72	3	6	0
Barnstable	963	383	20	32	7
Barre	0	56	7	6	3
Becket	0	12	3	0	0
Bedford	1	92	11	13	0
Belchertown	0	109	5	6	0
Bellingham	3	164	17	20	3
Belmont	3	221	11	16	0
Berkley	1	44	5	6	0
Berlin	1	20	0	0	0
Bernardston	0	14	0	0	0
Beverly	2096	379	23	30	5
Billerica	2	446	28	30	3
Blackstone	1	87	3	9	0
Blandford	0	12	3	3	0
Bolton	0	51	5	3	0
Boston	19994	6961	522	606	154
Bourne	1	122	8	9	0
Boxborough	0	47	3	3	0
Boxford	2	71	5	8	0
Boylston	1	40	3	0	0
Braintree	2	342	24	38	3
Brewster	0	41	0	0	0
Bridgewater	3	234	25	27	0
Brimfield	2	28	3	3	0
Brockton	1897	1407	129	145	60
Brookfield	1	19	3	3	0
Brookline	1	487	26	33	3
Buckland	0	8	3	3	0
Burlington	3	270	26	33	3

Table 17. Birth Characteristics: Occurrence and Resident Births, Massachusetts Municipalities: 2020

			Resident	Births ²	
Community	Occurrence Births ¹	Number of Births	Low Birthweight (Less than 2,500 grams, 5.5 lbs.)	Preterm (<37 weeks gestation)	Teen Births (15-19 years)
Cambridge	3490	977	52	71	3
Canton	1	282	26	30	3
Carlisle	2	30	-3	3	0
Carver	2	92	6	6	0
Charlemont	1	7	3	3	0
Charlton	5	113	10	10	3
Chatham	1	25	3	0	0
Chelmsford	3	356	18	36	3
Chelsea	2	580	43	53	33
Cheshire	0	23	0 3	0 3	<u> </u>
Chester	2	12			
Chesterfield	1	9	0	0	0
Chicopee	2	498	41	46	16
Chilmark	2	12	0	3	0
Clarksburg	0	8	0	3	0
Clinton	5	163	8	18	3
Cohasset	1	70	7	8	0
Colrain	0	13	0	0	0
Concord	1280	100	7	3	0
Conway	0	6	3	3	0
Cummington	0	8	0	0	0
Dalton	0	41	3	3	0
Danvers	2	203	21	27	3
Dartmouth	2	195	13	17	3
Dedham	1	264	20	16	3
Deerfield	0	21	3	3	0
Dennis	2	77	3	7	3
Dighton	0	70	3	3	0
Douglas	0	61	0	3	3
Douglas	0	43	0	3	0
Dracut	1	290	20	25	3
	· ·	88			3
Dudley	2		5 3	93	
Dunstable	1	24	3	3	0
Duxbury	2	108			0
East Bridgewater	4	120	63	11 3	0
East Brookfield	0	16			0 3
East Longmeadow	1	119	6	8	
Eastham	0	23	3	3	3
Easthampton	1	108	10	11	3
Easton	2	188	13	15	3
Edgartown	0	47	3	3	0
Egremont	1	5	0	0	0
Erving	0	8	3	3	0
Essex	0	26	3	5	0
Everett	5	582	49	54	15
Fairhaven	0	105	7	9	0
Fall River	1437	1150	103	99	79
Falmouth	78	178	17	24	3
Fitchburg	3	469	43	47	15
Florida	0	3	3	3	0
Foxborough	4	194	14	18	0
. JADOI GUYII	-т	107	1 7	10	0

Table 17. Birth Characteristics: Occurrence and Resident Births, Massachusetts Municipalities: 2020

		Resident Births ²						
Community	Occurrence Births ¹	Number of Births	Low Birthweight (Less than 2,500 grams, 5.5 lbs.)	Preterm (<37 weeks gestation)	Teen Births (15-19 years)			
Framingham	1110	867	75	85	21			
Franklin	1	260	21	28	0			
Freetown	1	85	6	8	0			
Gardner	356	208	20	24	6			
Georgetown	1	78	11	13	0			
Gill	2	12	0	0	0			
Gloucester	4	224	11	19	3			
Goshen	0	14	0	0	0			
Gosnold	0	0	0	0	0			
Grafton	4	176	10	12	3			
Granby	1	51	3	3	0			
Granville	0	13	0	0	0			
Granville Great Barrington	146	32	0	3	3			
Great Barrington Greenfield	440	125	7	12	3			
Greenileid	2	84	3	5				
					0			
Groveland	0	60	5 3	73	0			
Hadley	1	37			0			
Halifax	0	76	3	8	3			
Hamilton	1	72	5	5	0			
Hampden	1	31	3	3	3			
Hancock	0	7	3	3	0			
Hanover	3	133	8	7	3			
Hanson	1	80	3	8	3			
Hardwick	0	17	0	3	0			
Harvard	1	38	3	3	0			
Harwich	0	75	3	3	0			
Hatfield	1	19	3	3	0			
Haverhill	0	771	49	73	27			
Hawley	1	2	0	0	0			
Heath	0	2	0	0	0			
Hingham	2	200	11	14	0			
Hinsdale	1	13	3	3	0			
Holbrook	0	139	13	14	3			
Holden	2	176	3	10	0			
Holland	1	27	0	3	0			
Holliston	3	116	3	3	3			
Holyoke	78	421	33	42	34			
			-3	3	3			
Hopedale	0	44						
Hopkinton	3	165	10	12 3	<u>0</u> 3			
Hubbardston	1 1	44	0		3			
Hudson	4	162	6	14				
Hull	1	64	5	5 3	0			
Huntington	1	23	0		0			
Ipswich	0	97	5	8	0			
Kingston	0	156	14	11	3			
Lakeville	1	75	3	3	0			
Lancaster	1	54	5	6	3			
Lanesborough	0	20	5	3	3			
Lawrence	1284	1277	97	120	68			
Lee	0	38	3	3	3			
Leicester	0	75	6	6	3			

Table 17. Birth Characteristics: Occurrence and Resident Births, Massachusetts Municipalities: 2020

		Resident Births ²						
Community	Occurrence Births ¹	Number of Births	Low Birthweight (Less than 2,500 grams, 5.5 lbs.)	Preterm (<37 weeks gestation)	Teen Births (15-19 years)			
Lenox	0	23	0	0	0			
Leominster	572	455	28	44	10			
Leverett	2	11	0	0	0			
Lexington	1	147	12	14	3			
Leyden	0	6	0	0	0			
Lincoln	3	87	7	10	0			
Littleton	0	98	5	6	3			
	2	92	5	3	0			
Longmeadow				_				
Lowell	1971	1371	124	122	60			
Ludlow	2	151	12	13	0			
Lunenburg	3	98	7	11	3			
Lynn	7	1458	102	118	58			
Lynnfield	1	89	3	6	0			
Malden	2	782	64	62	6			
Manchester	0	20	3	3	0			
Mansfield	1	230	13	18	3			
Marblehead	2	138	5	7	3			
Marion	0	32	3	3	3			
Marlborough	4	509	41	54	14			
Marshfield	0	193	3	15	3			
Mashpee	3	103	3	13	3			
Mattapoisett	1	26	3	3	0			
Maynard	1	92	3	6	3			
Medfield	0	102	3	5	0			
Medford	6	699	47	56	7			
	2	130		11	0			
Medway			8		3			
Melrose	773	355 52	24	30	3			
Mendon	3		5 3	6 3				
Merrimac	0	53			0			
Methuen	1023	536	48	51	<u>6</u> 3			
Middleborough	3	232	16	20				
Middlefield	0	2	0	0	0			
Middleton	0	54	5	5	0			
Milford	878	359	23	33	10			
Millbury	1	124	9	9	3			
Millis	2	62	3	5	3			
Millville	0	25	0	0	3			
Milton	3	252	20	25	3			
Monroe	1	2	0	0	0			
Monson	0	58	6	6	0			
Montague	1	60	3	3	3			
Monterey	0	3	0	0	0			
Montgomery	1	9	0	0	0			
Mount Washington	0	1	0	0	0			
Nahant	0	22	3	3	0			
Nantucket	123	127	3	5	3			
	123	364	23	44	0			
Natick					3			
Needham	1	259	19	21				
New Ashford	0	2	0	0	0			
New Bedford	1716	1300	153	146	75			
New Braintree	1	5	0	0	3			

Table 17. Birth Characteristics: Occurrence and Resident Births, Massachusetts Municipalities: 2020

		Resident Births ²						
Community	Occurrence Births ¹	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	7	0	0	0			
New Salem	1	6	0	3	0			
Newbury	0	42	3	3	0			
Newburyport	633	119	8	9	0			
Newton	3682	642	37	44	3			
Norfolk	1	93	5	3	0			
North Adams	3	111	9	11	3			
North Andover	0	248	16	17	3			
North Attleborough	2	227	16	17	3			
North Brookfield	0	45	3	5	0			
					-			
North Reading	0	141	8	11	0			
Northampton	547	154	12	10	<u>5</u> 3			
Northborough	3	148	12	13	3			
Northbridge	2	157	8	9				
Northfield	3	21	0	3	0			
Norton	0	147	19	18	3			
Norwell	1	107	3	5	0			
Norwood	197	389	25	41	3			
Oak Bluffs	147	34	3	3	0			
Oakham	0	12	3	3	3			
Orange	1	62	3	3	3			
Orleans	2	27	3	3	3			
Otis	0	7	0	3	0			
Oxford	0	89	10	13	3			
Palmer	1	112	6	9	5			
Paxton	1	35	3	3	0			
Peabody	3	510	34	41	3			
Pelham	0	3	0	0	0			
Pembroke	0	158	9	11	3			
Pepperell	3	95	6	8	0			
Peru	0	7	0	0	0			
Petersham	1	9	3	3				
			3	3	0			
Phillipston	0	9			0			
Pittsfield	632	387	39 3	34	12			
Plainfield	0	3			0			
Plainville	1	93	5	3	0			
Plymouth	925	485	26	36	6			
Plympton	0	26	3	0	0			
Princeton	2	26	3	3	0			
Provincetown	0	10	3	3	0			
Quincy	4	1087	82	94	3			
Randolph	3	352	46	38	3			
Raynham	1	136	13	16	0			
Reading	0	249	10	20	0			
Rehoboth	2	99	8	11	0			
Revere	0	671	46	56	13			
Richmond	1	5	0	3	0			
Rochester	0	42	0	3	0			
Rockland	3	194	17	18	3			
Rockport	0	29	3	0	0			
	0			0	0			
Rowe	Į U	1	0	U	U			

Table 17. Birth Characteristics: Occurrence and Resident Births, Massachusetts Municipalities: 2020

Community	Occurrence Births ¹	Number of Births	Low Birthweight (Less than 2,500 grams, 5.5 lbs.)	Preterm (<37 weeks gestation)	Teen Births (15-19 years)
Rowley	1	49	3	3	0
Royalston	1	13	3	3	3
Russell	0	10	3	3	0
Rutland	0	81	3	6	0
Salem	1191	454	27	30	7
Salisbury	0	60	3	5	0
Sandisfield	0	4	3	3	0
Sandwich	1	137	5	9	3
Saugus	1	267	20	22	3
Savoy	0	2	0	0	0
Scituate	2	159	7	12	0
Seekonk		125		11	
Sharon	1		63	3	<u>0</u> 3
	2	125	3	3	3
Sheffield	1	28	3	3	
Shelburne	0	10			0
Sherborn	1	32	0	3	0
Shirley	2	49	6	6	3
Shrewsbury	4	261	14	13	0
Shutesbury	0	7	0	3	0
Somerset	0	112	9	9	3
Somerville	9	740	50	58	6
South Hadley	0	115	10	13	3
Southampton	1	47	3	3	3
Southborough	1	78	3	5	0
Southbridge	5	211	16	18	19
Southwick	1	78	14	13	0
Spencer	1	90	7	11	0
Springfield	5230	2046	211	253	137
Sterling	0	47	3	3	3
Stockbridge	0	8	3	3	0
Stoneham	2	248	20	22	3
Stoughton	3	272	19	22	5
Stow	1	54	3	5	0
Sturbridge	3	84	5	3	0
		137			0
Sudbury	5		5 3	8	3
Sunderland	0	31	3	6	3
Sutton	3	72	3	5	
Swampscott	1	150		10	0
Swansea	1	130	10	10	0
Taunton	5	563	53	54	9
Templeton	1	70	6	6	3
Tewksbury	1	306	22	26	0
Tisbury	2	46	5	5	0
Tolland	0	0	0	0	0
Topsfield	0	55	3	7	0
Townsend	1	89	3	7	3
Truro	0	10	3	0	0
Tyngsborough	0	108	10	10	3
Tyringham	0	2	0	0	0
Upton	4	65	3	5	0
Uxbridge	3	148	14	15	3

Table 17. Birth Characteristics: Occurrence and Resident Births, Massachusetts Municipalities: 2020

		Resident Births ²					
Community	Occurrence Births ¹	Number of Births	Low Birthweight (Less than 2,500 grams, 5.5 lbs.)	Preterm (<37 weeks gestation)	Teen Births (15-19 years)		
Wakefield	1	283	23	25	0		
Wales	1	20	3	3	0		
Walpole	2	236	13	22	0		
Waltham	4	696	50	63	10		
Ware	1	87	5	9	3		
Wareham	1	145	8	5	3		
Warren	2	31	0	3	0		
Warwick	0	5	3	3	0		
Washington	0	4	0	0	3		
Watertown	2	406	20	30	3		
Wayland	2	87	5	10	0		
Webster	1	177	17	20	8		
Wellesley	4	196	6	11	3		
Wellfleet	0	14	3	3	0		
Wendell	3	6	0	0	0		
Wenham	0	34	3	0	0		
West Boylston	1	55	3		3		
West Bridgewater	1	66	3		3		
West Brookfield	0	38	3	6	3		
West Newbury	1	44	3	3	0		
West Springfield	2	320	31	32	7		
West Stockbridge	0	5	0	0	0		
West Tisbury	0	31	3	3	0		
Westborough	2	203	11	9	3		
Westfield	0	364	29	33	7		
Westford	0	173	10	15	3		
Westhampton	1	7	0	3	0		
Westminster	2	67	7	9	0		
Weston	1	88	3	3	0		
Westport	0	105	8	7	0		
Westwood	1	126	5	10	0		
Weymouth	2950	626	47	57	3		
Whately	0	14	3	0	0		
Whitman	0	148	14	17	3		
Wilbraham	0	110	9	16	0		
Williamsburg	1	8	0	0	0		
Williamstown	0	38	3	3	3		
Wilmington	2	212	14	17	3		
Winchendon	4	96	3	3	3		
Winchester	2482	160	7	6	0		
Windsor	0	8	0	0	0		
Winthrop	0	187	5	10	3		
Woburn	0	461	38	30	3		
Worcester	5921	2249	210	244	78		
Worthington	0	4	3	3	0		
Wrentham	0	89	0	3	0		
Yarmouth	2	190	21	24	3		

^{1.} Births occurring in a geographical place (state, city/town) regardless of the residency of the birthing person. 2. Births to those 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: 2020

	Occurrence		Resident Births ²				
County	Births ¹	Number of Births	Low Birthweight ³	Preterm⁴	Teen Births (15-19 Years)		
STATE TOTAL	67,220	66,442	4,897	5,814	1,353		
BARNSTABLE	1,053	1,415	89	130	19		
BERKSHIRE	787	923	72	78	23		
BRISTOL	3,754	5,554	499	517	186		
DUKES	151	173	9	11	0		
ESSEX	6,260	8,147	552	684	192		
FRANKLIN	458	465	34	41	11		
HAMPDEN	5,329	4,765	427	504	213		
HAMPSHIRE	560	909	65	64	11		
MIDDLESEX	14,893	15,736	1,089	1,317	175		
NANTUCKET	123	127	5	5	5		
NORFOLK	3,190	6,778	485	588	35		
PLYMOUTH	2,853	4,943	354	410	89		
SUFFOLK	19,996	8,399	616	725	202		
WORCESTER	7,813	8,108	603	740	196		
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 those 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: 2020

				Resident Births ²		
Community Health Network Area	Occurrence Births ¹	Number of Births	LBW ³	Preterm⁴	Teen Births (15-19 Years)	
STATE TOTAL	67,220	66,442	4,897	5,814	1,353	
Community Health Network of Berkshire County	787	923	72	78	23	
2. Upper Valley Health Web (Franklin County)	462	610	50	59	16	
3. Partnership for Health in Hampshire County (Northampton)	559	886	65	63	11	
4. The Community Health Connection (Springfield)	5,241	3,244	307	363	155	
5. Community Health Network of Southern Worcester County	24	1,076	81	106	36	
6. Community Partners for Health (Milford)	900	1,624	106	147	21	
7. Community Health Network of Greater Metro West (Framingham)	1,155	4,080	262	351	44	
8. Community Wellness Coalition (Worcester)	5,935	3,337	271	310	85	
9. Fitchburg/Gardner Community Health Network	964	2,539	174	232	49	
10. Greater Lowell Community Health Network	1,979	3,074	233	266	71	
11. Greater Lawrence Community Health Network	2,309	2,408	175	206	78	
12. Greater Haverhill Community Health Network	642	1,512	101	138	28	
13. Community Health Network North (Beverly/Gloucester)	2,101	936	57	75	9	
14. North Shore Community Health Network	1,208	3,291	219	265	77	
15. Greater Woburn/Concord/Littleton Community Health Network	3,775	1,886	141	151	7	
16. North Suburban Health Alliance (Medford/Malden/Melrose)	789	3,339	245	280	33	
17. Greater Cambridge/Somerville Community Health Network	3,514	2,816	166	212	10	
18. West Suburban Health Network (Newton/Waltham)	3,695	2,801	165	202	19	
19. Alliance for Community Health (Boston/Chelsea/Revere/Winthrop)	19,996	8,399	616	725	202	
20. Blue Hills Community Health Alliance (Greater Quincy)	3,169	4,055	309	372	18	
21. Four (For) Communities (Holyoke, Chicopee, Ludlow, Westfield)	85	1,469	116	136	58	
22. Greater Brockton Community Health Network	1,910	2,803	241	270	75	
23. South Shore Community Partners in Prevention (Plymouth)	936	1,701	105	124	15	
24. Greater Attleboro-Taunton Health & Education Response	598	2,410	190	213	25	
25. Partners for a Healthier Community (Fall River)	1,438	1,497	130	125	82	
26. Greater New Bedford Health & Human Services Coalition	1,722	2,011	199	199	86	
27. Cape and Islands Community Health Network	1,327	1,715	101	146	20	

Figure 6. Self-Reported Smoking During Pregnancy, Percent of all Infants, Massachusetts: 1990 - 2020 25.0% 19.3% 20.0% 15.0% Percent 10.0% 3.7% 5.0% 0.0% 1000 Year

Table 20. Cesarean Deliveries and Vaginal Births after Cesarean (VBACs) by Licensed Maternity Facility¹, All Birthing People, Massachusetts: 2020

Facility ²	Occurrence Deliveries ³	_	Total Cesareans		Primary Cesareans ³		Repeat Cesareans ³		Cs³
		N	% ⁴	N	%	N	%	N	%
State Total	64,126	20,281	31.7	11,541	21.5	8,740	85.6	1,476	14.4
Anna Jaques Hospital	498	179	35.9	95	23.5	84	89.4	10	10.6
Baystate Franklin Medical Center	406	104	25.6	64	18.2	40	74.1	14	25.9
Baystate Medical Center	3,886	1,260	32.4	692	21.9	568	78.7	154	21.3
Berkshire Medical Center	608	167	27.5	81	16.1	86	81.1	20	18.9
Beth Israel Deaconess Hospital - Plymouth	893	273	30.6	142	19.0	131	89.7	15	10.3
Beth Israel Deaconess Medical Center	4,839	1,467	30.3	1,137	25.2	330	100.0	0	0.0
Beverly Hospital	1,965	609	31.0	331	20.0	278	88.8	35	11.2
Boston Medical Center	2,556	875	34.2	484	23.4	391	80.0	98	20.0
Brigham and Women's Hospital	5,995	1,859	31.0	1,117	21.9	742	82.5	157	17.5
Brockton Hospital	1,315	369	28.1	167	15.7	202	81.1	47	18.9
Cambridge Hospital	1,075	347	32.3	178	20.1	169	89.9	19	10.1
Cape Cod Hospital	930	337	36.2	176	23.3	161	91.5	15	8.5
Charlton Memorial Hospital	1,343	412	30.7	202	17.9	210	97.7	5	2.3
Cooley Dickinson Hospital	511	119	23.3	73	16.2	46	75.4	15	24.6
Emerson Hospital	1,216	419	34.5	214	22.1	205	83.3	41	16.7
Fairview Hospital	121	35	28.9	20	18.9	15	100.0	0	0.0
Falmouth Hospital	75	27	36.0	11	19.0	16	94.1	5	5
Good Samaritan Medical Center	549	195	35.5	96	21.7	99	93.4	7	6.6
Healthalliance - Clinton Hospital, Leominster	558	172	30.8	93	19.4	79	100.0	0	0.0
Heywood Hospital	341	74	21.7	40	13.3	34	82.9	7	17.1
Holyoke Medical Center	75	21	28.0	9	14.5	12	92.3	5	5
Lawrence General Hospital	1,198	478	39.9	210	22.8	268	96.8	9	3.2
Lowell General Hospital	1,791	555	31.0	238	16.7	317	86.4	50	13.6
Martha's Vineyard Hospital	141	50	35.5	24	20.9	26	100.0	0	0.0
Massachusetts General Hospital	3,450	1,085	31.4	674	22.9	411	80.4	100	19.6
Melrose-Wakefield Hospital	749	245	32.7	139	21.8	106	95.5	5	4.5
Mercy Medical Center	1,019	265	26.0	132	15.4	133	83.1	27	16.9
Metrowest Med Center - Framingham Union Hospital		416	38.2	178	21.5	238	91.2	23	8.8
Milford Regional Medical Center	829	262	31.6	133	19.4	129	89.6	15	10.4
Mt. Auburn Hospital	2,321	524	22.6	311	15.4	213	71.5	85	28.5
Nantucket Cottage Hospital	115	43	37.4	22	23.4	21	100.0	0	0.0
Newton-Wellesley Hospital	3,565	1,179	33.1	723	23.8	456	87.0	68	13.0
North Shore Medical Center - Salem Hospital	1,166	376	32.2	224	22.6	152	87.4	22	12.6
Norwood Hospital	1,100	61	32.2	40	24.4	21	84.0	- 5	5
Saint Vincent Hospital	1,704	589	34.6	332	23.5	257	88.3	34	11.7
·	·								
South Shore Hospital	2,870	1,062	37.0	605	25.8	457	86.6	71	
St. Elizabeth's Medical Center	998	322	32.3	193	22.8	129	86.0	21	14.0
St. Luke's Hospital	1,658	509	30.7	289	20.5	220	89.8	25 5	10.2
Steward Holy Family Hospital	835	341	40.8	162	24.8	179	97.8		
Sturdy Memorial Hospital	502	147	29.3	78	18.4	69	89.6	8	10.4
Tufts Medical Center	1,188	460	38.7	273	28.6	187	79.6	48	20.4
UMass Memorial Medical Center - Memorial Campus		1,237	31.3	695	21.3	542	79.6	139	20.4
Winchester Hospital	2,338	753	32.2	443	22.2	310	91.2	30	8.8

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

^{1.} Birth centers are not included in this table. 2. A licensed maternity facility is a medical unit licensed by the Commonwealth for the care of pregnancy and childbirth. 3. 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. 4. The percentage of Cesarean births reported is not adjusted for risk factors such as age, 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. 5. Calculations based on values of 1-4 are excluded.

Figure 7. Body Mass Index (BMI) Prior to Pregnancy, All Birthing People, Massachusetts: 2020

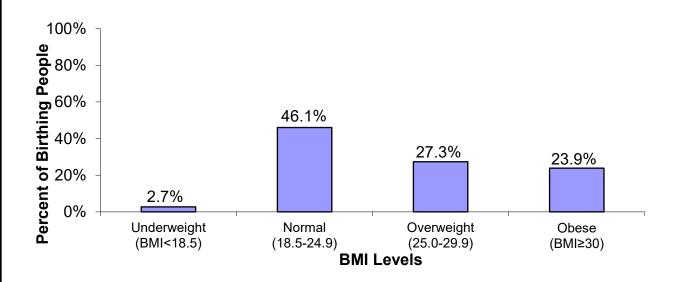
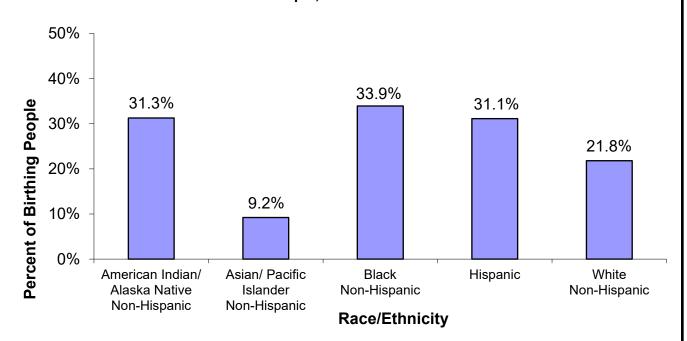


Figure 8. Obesity Prior to Pregnancy by Race/Hispanic Ethnicity, All Birthing People, Massachusetts: 2020



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: 2020

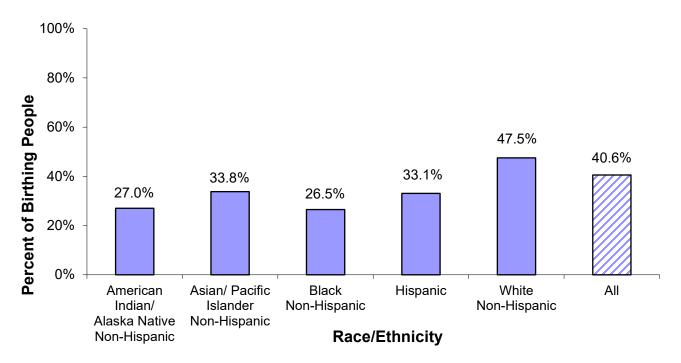
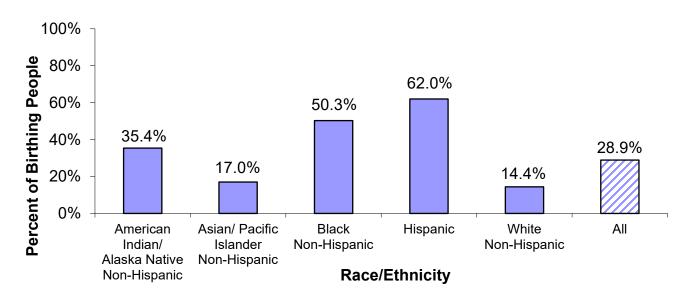
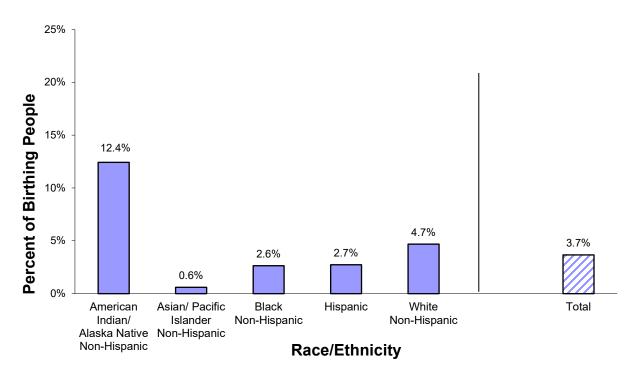


Figure 10. Birthing People Who Reported Having Received WIC Food During Pregnancy by Race/Hispanic Ethnicity, All Birthing People, Massachusetts: 2020



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: 2020



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

Table 21. Birthing People Who Used Infertility Treatments, Massachusetts: 2020

	(ART) with or	ductive Technology without Artificial d/or Fertility Drugs ¹	with or v	Artificial Insemination with or without Fertility Drugs ²		tility ing Drugs nly³
	N	% ⁴	N	% ⁴	N	% ⁴
State Total	2,872	74.9%	482	12.6%	482	12.6%
		Demographics		•	•	
Race/Hispanic Ethnicity	N	% ⁵	N	% ⁵	N	% ⁵
American Indian/ Alaska Native Non-Hispanic	9	9	9	9	9	9
Asian/ Pacific Islander Non- Hispanic	362	12.7%	58	12.1%	54	11.3%
Black Non-Hispanic	112	3.9%	9	9	20	4.2%
Hispanic	161	5.7%	33	6.9%	45	9.4%
White Non-Hispanic	2,193	77.0%	369	77.2%	354	73.8%
Birthplace	1		ı	ı	ı	1
US States / D.C. / US Terr.	2,175	75.7%	394	81.7%	368	76.3%
Non-US-born	697	24.3%	88	18.3%	114	23.7%
Prenatal care funding	-1		L	I		
Public	157	5.6%	38	7.9%	63	13.6%
Private, other	2,647	94.4%	443	92.1%	399	86.4%
Age	· · · · · · · · · · · · · · · · · · ·		I .	I		<u> </u>
20-29	138	4.8%	40	8.3%	84	17.4%
30-34	924	32.2%	202	41.9%	230	47.7%
35-39	1,223	42.6%	184	38.2%	128	26.6%
40+	587	20.4%	56	11.6%	40	8.3%
	Pregna	ncy-Related Factors				
Adequacy of Prenatal Care ⁶		1	1	1		1
Adequate Total ⁷	1,842	83.2%	331	87.1%	328	84.5%
Adequate Intensive	861	38.9%	155	40.8%	140	36.1%
Adequate Basic	981	44.3%	176	46.3%	188	48.5%
Intermediate	243	11.0%	32	8.4%	30	7.7%
Inadequate/None	129	5.8%	17	4.5%	30	7.7%
Parity ⁸						
1	1,682	58.6%	312	64.7%	280	58.2%
2	938	32.7%	136	28.2%	157	32.6%
3+	250	8.7%	34	7.1%	44	9.1%
	В	irth Outcomes				
Gestational age						
<28 weeks (extremely preterm) ¹⁰	19	3.9%	9	9	5	0.5%
<37 weeks (preterm) ¹⁰	327	66.7%	54	1.6%	62	6.6%
37+	2,545	519.4%	428	13.0%	420	44.9%
Plurality						
Singleton	2,706	94.2%	445	92.3%	454	94.2%
Multiple birth	166	5.8%	37	7.7%	28	5.8%

NOTE: Beginning in 2014, questions about fertility assistance were asked on both the hospital and birthing person's worksheets. This table shows combined data from both sources. While asking parents 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 those who used ART (typically IVF) and those who used any additional treatments. 2. This category includes those who used artificial insemination (including intrauterine insemination) and those who used fertility drugs in addition. 3. This category includes those 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. Numbers and calculations based on 1-4 events 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*. In order 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 birthing people's race and ancestry.

2003 Revision

<u>Mother/Parent Race</u> Please indicate your race(s). You may choose more than one.

☐ American Indian/Alaska Native (specify tribal nation):	☐ Hispanic/Latina/Other (specify):
Asian	☐ Native Hawaiian
Black	Samoan
Guamanian or Chamorro	White
	Other Pacific Islander (specify):
Hispanic/Latina/Black	Other race not listed (specify):
☐ Hispanic/Latina/White	
Mother/Parent Ethnicity	
Please indicate your ethnic background(s). You	may choose more than one.
African (specify):	☐ Japanese
☐ African-American	☐ Korean
American	☐ Laotian
Asian Indian	☐ Mexican, Mexican American, Chicano
☐ Brazilian	☐ Middle Eastern (specify):
☐ Cambodian	☐ Native American (specify tribal nation(s)):
☐ Cape Verdean	☐ Portuguese
Caribbean Islander (specify):	☐ Puerto Rican
Chinese	Russian
☐ Colombian	☐ Salvadoran
☐ Cuban	☐ Vietnamese
☐ Dominican	Other Asian (specify):
☐ European (specify):	Other Central American (specify):
Filipino	Other Pacific Islander (specify):
Guatemalan	Other Portuguese (specify):
☐ Haitian	Other South American (specify):
 ☐ Honduran	Other ethnicity (ies) not listed (specify):

1989 Revision	
MOTHER'S RACE Please mark the one category that	best describes the mother's race:
□ White □ Black □ Asian/Pacific Islander	☐ American Indian ☐ Other (specify)
MOTHER's ANCESTRY Please mark the <i>one</i> categor ethnic heritage:	y that <i>best describes</i> the mother's ancestry of
HISPANIC/LATINA	AFRICAN/AFRICAN AMERICAN
1 ☐ Puerto Rican 2 ☐ Dominican 3 ☐ Mexican 4 ☐ Cuban 7 ☐ Other Central American (specify) 8 ☐ Other South American (specify)	29☐African-American/ Afro-American 30☐Nigerian 31☐Other African specify):
5 ☐ Colombian 9 ☐ Other Hispanic/Latina (specify): 6 ☐ Salvadoran	MIDDLE EASTERN 32 Lebanese
ASIAN/PACIFIC ISLANDER	■ 33 Iranian 34 Israeli
10	35 ☐ Other Middle Eastern (specify): AMERICAN ANCESTRY 36 ☐ Native American/ American Indian (specify tribe/affiliation): 37 ☐ American
PORTUGUESE SPEAKING	EUROPEAN and OTHER ancestries
22 Cape Verdean 24 Other Portuguese (specify): 23 Brazilian	38 European (specify):
WEST INDIAN/CARIBBEAN ISLANDER 25 Haitian 28 OtherWest Indian/Caribbean Islander (specify):	39 Other (specify):
26 Jamaican 27 Barbadian	

Table A1. 2019 Massachusetts Population Estimates by Age Group, Gender, Race/Hispanic Ethnicity (mutually exclusive)

Etililicity (illutually 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	35,022	55	2,389	3,150	7,679	20,247			
1 to 4	139,996	238	10,247	12,843	29,700	83,011			
5 to 9	180,866	353	12,724	16,839	35,343	102,688			
10 to 14	195,246	313	13,575	16,962	35,174	119,587			
15 to 19	230,303	359	18,086	18,420	36,376	149,822			
20 to 24	256,989	446	23,549	21,718	38,510	166,453			
25 to 29	253,658	640	25,918	22,876	39,603	165,526			
30 to 34	237,349	385	25,899	20,018	33,170	158,580			
35 to 39	222,487	309	23,566	17,940	31,833	144,863			
40 to 44	208,500	291	19,953	16,841	29,264	136,935			
45 to 49	223,427	300	18,088	16,246	26,267	157,366			
50+	1,398,991	2,144	63,554	78,223	89,383	1,151,159			
All Females	3,582,833	5,833	257,549	262,076	432,303	2,556,237			
	-	,	Male	Τ	<u> </u>				
<1	36,936	68	2,668	3,227	8,082	21,178			
1 to 4	146,577	277	10,935	13,050	30,772	87,391			
5 to 9	188,592	338	13,525	17,303	36,680	106,904			
10 to 14	203,177	313	13,794	17,182	36,433	125,768			
15 to 19	231,607	350	16,443	18,566	37,648	151,723			
20 to 24	254,744	444	20,944	21,022	41,347	164,642			
25 to 29	261,438	682	25,163	24,456	43,134	169,405			
30 to 34	236,446	461	22,730	20,110	35,376	158,061			
35 to 39	218,336	341	20,932	17,846	32,826	142,790			
40 to 44	199,688	257	17,360	15,791	28,402	133,226			
45 to 49	209,772	303	16,382	15,192	23,319	149,759			
50+	1,194,236	1,975	54,432	63,406	72,774	988,437			
All Males	3,381,549	5,810	235,309	247,152	426,792	2,399,284			
<1	71,958	123	5,057	6,376	15,761	41,425			
1 to 4	286,573	515	21,182	25,893	60,472	170,402			
5 to 9	369,458	691	26,249	34,142	72,023	209,592			
10 to 14	398,423	626	27,369	34,144	71,607	245,355			
15 to 19	461,910	709	34,529	36,987	74,024	301,545			
20 to 24	511,733	891	44,494	42,740	79,857	331,096			
25 to 29	515,096	1,322	51,081	47,332	82,737	334,931			
30 to 34	473,795	846	48,630	40,128	68,546	316,640			
35 to 39	440,823	650	44,498	35,786	64,659	287,653			
40 to 44	408,189	548	37,314	32,633	57,665	270,161			
45 to 49	433,199	603	34,470	31,438	49,585	307,126			
50+	2,593,227	4,119	117,986	141,628	162,157	2,139,596			
State Total	6,964,383	11,644	492,858	509,228	859,095	4,955,521			

^{1.} Population estimates were calculated using UMass Donahue Institute (UMDI) estimates for 2019.

^{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.