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Department of Public Health
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October 15, 2015

Steven T. James
House Clerk
State House Room 145
Boston, MA 02133

William F. Welch
Senate Clerk
State House Room 335
Boston, MA 02133

Dear Mr. Clerk,

Pursuant to Section 2 of Chapter 111 of the Massachusetts General Laws, the attached report summarizes birth data and statistics for the 2014 calendar year.

Sincerely,

Monica Bharel, MD, MPH
Commissioner
Department of Public Health

Charles D. Baker
Governor

Karyn Polito
Lieutenant Governor



Marylou Sudders
Secretary

Monica Bharel, MD, MPH
Commissioner

Massachusetts Births 2014

October 2015



Massachusetts Births 2014



Massachusetts Department of Public Health
Office of Data Management and Outcomes Assessment

September 2015

Massachusetts Births 2014

Charles D. Baker, Governor
Marylou Sudders, Secretary of Health and Human Services
Monica Bharel, MD, MPH, Commissioner of Public Health

Tom Land, Director
Office of Data Management and Outcomes Assessment
Antonio Sousa, Registrar
Registry of Vital Records and Statistics

Massachusetts Department of Public Health

September 2015

Acknowledgments

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

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To obtain more information on births in Massachusetts and other Department of Public Health data please visit the Department's free, Internet-based public health information reports at: <http://www.mass.gov/eohhs/researcher/community-health/masschip/>

or call 888-MAS-CHIP (toll free in MA) or 617-624-5629.

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Note to Readers

Please review the information below before reading the report. As required by Chapter 111, Section 2 of the General Laws, this report satisfies the requirement of the annual report on statistics on births for calendar year 2014 (Annual Report Vital Statistics of Massachusetts-Births, Public Document #1 2014). Public Document #1 information on 2014 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:
 - The 2014 Modified Age, Race/Ethnicity, and Sex file (MARS), which is a bridged population file produced by the National Center for Health Statistics (NCHS) and the Census Bureau Population Estimates Program was used to calculate state rates by race and Hispanic ethnicity, e.g., teen birth rates. This file has data by single years of age, sex, race and Hispanic ethnicity in the five mutually exclusive categories used by the Department: White Non-Hispanic, Black Non-Hispanic, Asian Non-Hispanic, American Indian/Alaska Native Non-Hispanic, and Hispanic.
 - The Massachusetts Department of Public Health Race Allocated Census 2010 Estimates file, which contains population estimates based upon the Census 2010 Summary File 1, was used to calculate city, town, and other substate rates. In this file, the Census 2010 race categories, “Two or more races” and “Some other race” are redistributed to the MDPH standard race categories: Non-Hispanic White, Non-Hispanic Black, Non-Hispanic Asian and Pacific Islander, and Non-Hispanic American Indian and Alaska Native. All persons in the Census 2010 Hispanic ethnicity category are counted as “Hispanic” race in the MDPH estimates. **Please note:** If the population in your community increased from 2010 to 2014, the rates listed may **overestimate** the actual rate. If the population in your community declined from 2010 to 2014, the rates given in the publication may **underestimate** the actual rate.
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, wherever they occur.
3. **Race and Ethnicity.** In the text, the race categories, White, Black, American Indian, Asian, and Hispanic are mutually exclusive. For example, when we refer to White mothers, this means White non-Hispanic mothers. 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. Please note that trend data on minority groups such as Native Americans, Hispanics, Blacks, and Asians may not be comparable as these groups will show increases in the number of births solely related to the methods used for re-classification of multiple races into single race categories. **Please use caution in interpreting these numbers.**
4. **Adjusted Adequacy of Prenatal Care Utilization Index.** In 2014, there were continued reporting issues for the number of prenatal visits in 3 hospitals: Newton Wellesley Hospital, Saint Vincent Hospital, and Winchester Hospital. Adjusted Prenatal Care Utilization Index (APCUI) presents adequate prenatal care without these 3 hospitals since their data are considered to be unreliable.
5. **Mothers.** Please note that Tables 18-19 and Figures 6-9 are based on mothers and not births.

Suggested Citation

Massachusetts Births 2014 Boston, MA: Office of Data Management and Outcomes Assessment, Massachusetts Department of Public Health. September 2015.

Table 1. Trends in Birth Characteristics, Massachusetts: 1990, 2000-2014

Characteristic		1990	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Births ¹	n ²	92,461	81,582	81,014	80,624	80,167	78,460	76,824	77,670	77,934	76,969	74,966	72,835	73,169	72,457	71,618	71,867
	Rate ³	62.1	57.1	56.6	56.8	56.8	56.2	55.6	56.9	57.2	56.5	55.1	53.7	54.1	53.3	52.5	52.1
Race of Mother																	
White non-Hispanic	n	72,483	60,051	59,115	58,136	57,604	55,322	53,469	52,975	52,620	51,760	49,759	48,466	45,973	45,032	44,432	44,128
	% ⁴	78.4	73.6	73.0	72.1	71.9	70.5	69.6	68.2	67.5	67.2	66.4	66.5	62.8	62.1	62.0	61.4
Black non-Hispanic	n	7,158	5,755	5,862	5,948	5,902	6,053	6,077	6,452	6,462	6,652	6,945	6,794	6,999	6,892	7,016	7,071
	% ⁴	7.7	7.1	7.2	7.4	7.4	7.7	7.9	8.3	8.3	8.6	9.3	9.3	9.6	9.5	9.8	9.8
Asian	n	3,349	4,667	4,784	5,300	5,224	5,454	5,251	5,469	5,758	5,958	5,939	5,817	6,022	6,530	6,220	6,426
	% ⁴	3.6	5.7	5.9	6.6	6.5	7.0	6.8	7.0	7.4	7.7	7.9	8.0	8.2	9.0	8.7	8.9
Hispanic	n	8,406	9,247	9,410	9,543	9,764	9,798	10,061	10,696	10,861	10,895	10,986	10,588	12,777	13,088	12,315	12,670
	% ⁴	9.1	11.3	11.6	11.8	12.2	12.5	13.1	13.8	13.9	14.2	14.7	14.5	17.5	18.1	17.2	17.6
Teen Births (Ages 15-19)	n	7,258	5,305	4,979	4,642	4,639	4,559	4,539	4,722	4,944	4,583	4,477	3,907	3,480	3,219	2,732	2,402
	Rate ³	35.4	25.9	24.9	23.3	23.0	22.2	21.7	21.3	22.0	20.1	19.5	17.1	15.4	14.0	12.0	10.6
Births to Unmarried	n	22,837	21,621	21,620	21,604	22,262	22,376	23,170	24,977	26,010	26,146	26,029	25,220	25,349	24,900	24,014	23,853
	%	24.7	26.5	26.7	26.8	27.8	28.5	30.2	32.2	33.4	34.0	34.7	34.6	34.8	34.5	33.7	33.3
Cesarean Deliveries	n	20,615	19,086	20,639	22,553	23,392	24,295	24,732	25,901	26,240	26,240	25,067	24,244	23,062	22,900	22,508	22,691
	%	22.3	23.4	25.5	28.0	29.2	31.0	32.3	33.4	33.7	34.3	33.6	33.3	32.5	31.7	31.5	31.6
Gestational Diabetes ⁵	n		2,245	2,402	2,633	2,693	2,741	2,666	2,925	3,279	3,086	3,445	3,368	3,698	4,070	3,784	3,867
	%		2.8	3.0	3.3	3.4	3.5	3.5	3.8	4.2	4.0	4.7	4.7	5.1	5.6	5.3	5.4
Low Birthweight ⁶	n	5,388	5,711	5,795	6,060	6,115	6,125	6,073	6,150	6,147	5,955	5,804	5,650	5,458	5,491	5,495	5,394
	%	5.8	7.1	7.2	7.5	7.6	7.8	7.9	7.9	7.9	7.8	7.8	7.8	7.6	7.6	7.7	7.5
Preterm ⁷	n	5,899	6,582	6,412	6,795	6,963	7,222	6,925	6,954	6,980	6,750	6,516	6,234	5,992	6,107	6,300	6,161
	%	6.5	8.3	8.0	8.5	8.7	9.2	9.0	9.0	9.0	8.8	8.7	8.6	8.4	8.6	8.8	8.6
Late Preterm ⁸	n	3,977	4,509	4,428	4,726	4,800	5,016	4,808	4,918	4,945	4,753	4,602	4,361	4,206	4,422	4,518	4,394
	%	4.4	5.7	5.5	5.9	6.0	6.4	6.3	6.3	6.4	6.2	6.2	6.0	5.9	6.2	6.3	6.1
Prenatal Care																	
Public Pay Prenatal Care ⁹	%	25.1	26.5	27.2	27.9	28.3	29.9	31.9	33.5	34.9	34.5	35.3	35.8	38.8	39.8	38.9	42.9
APNCU Index ¹⁰	%		83.3	85.2	84.7	84.5	84.2	84.0	83.1	82.8	82.1	84.3	84.9	82.8	83.4	83.7	82.6
Adjusted APNCU Index ¹¹	%													85.3	85.4	84.5	83.1

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 women 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. 4. Percentages are calculated based on births, including those to mothers of unknown race. 5. Gestational diabetes is defined as glucose intolerance found for the first time during pregnancy. It excludes cases with known 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 of 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. 11. Does not include data from Newton Wellesley, Saint Vincent and Winchester hospitals because of reporting problems.

Table 2. Birth Characteristics by Maternal Race/Hispanic Ethnicity and Birthplace, Massachusetts: 2014

Race and Hispanic Ethnicity (by mother's birthplace)	Births		Teen Births				Birthweight				Prenatal Care				Cesarean Deliveries		Breastfeeding ⁵	
	n	% ¹	<18 Years		<20 Years		Very Low ²		Low ³		Adequate ⁴		1 st Trimester		n	%	n	%
State Total	71,867	100.0	617	0.9	2,419	3.4	894	1.2	5,394	7.5	50,186	83.1	12,688	84.7	22,691	31.6	60,422	86.5
US inc. DC	49,271	68.6	446	0.9	1,772	3.6	615	1.3	3,707	7.5	34,942	85.4	8,999	86.4	15,522	31.6	39,941	83.9
US Territories ⁷	1,775	2.5	56	3.2	206	11.6	50	2.8	189	10.7	1,297	79.5	316	81.2	522	29.4	1,419	81.4
Non-US-born ⁸	20,805	28.9	115	0.6	441	2.1	219	1.1	1,487	7.2	13,939	78.1	3,372	80.8	6,643	32.0	19,059	92.9
White Non-Hispanic	44,128	61.4	169	0.4	858	1.9	478	1.1	3,039	6.9	31,270	86.2	8,058	87.0	14,058	31.9	36,541	85.6
US inc. DC	39,208	88.9	165	0.4	820	2.1	425	1.1	2,726	7.0	27,909	86.8	7,220	87.4	12,557	32.1	31,999	84.5
US Territories ⁷	22	0.0	0	0.0	0	0.0	0	0.0	1	-- ⁶	18	100.0	3	-- ⁶	7	31.8	19	86.4
Non-US-born ⁸	4,892	11.1	-- ⁶	-- ⁶	38	0.8	49	1.0	308	6.3	3,340	81.7	835	83.2	1,494	30.5	4,521	94.1
Black non-Hispanic	7,071	9.8	67	0.9	308	4.4	150	2.1	721	10.2	4,546	71.8	1,184	75.0	2,442	34.5	6,100	87.4
US inc. DC	3,121	44.1	54	1.7	235	7.5	83	2.7	380	12.2	2,177	77.5	616	81.4	963	30.9	2,455	80.0
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	3,945	55.8	13	0.3	73	1.9	64	1.6	338	8.6	2,365	67.2	567	69.2	1,478	37.5	3,644	93.2
Hispanic	12,670	17.6	344	2.7	1,151	9.1	184	1.5	1,033	8.2	9,011	78.9	2,118	81.6	3,805	30.0	10,786	86.3
US inc. DC	4,875	38.5	201	4.1	647	13.3	78	1.6	447	9.2	3,475	80.8	840	82.2	1,426	29.3	3,832	80.1
US Territories ⁷	1,739	13.7	56	3.2	206	11.8	50	2.9	188	10.8	1,271	79.2	310	80.9	510	29.3	1,387	81.3
Non-US-born ⁸	6,056	47.8	87	1.4	298	4.9	56	0.9	398	6.6	4,265	77.4	968	81.3	1,869	30.9	5,567	92.8
Asian	6,426	8.9	17	0.3	56	0.9	57	0.9	492	7.7	4,411	85.0	1,102	87.1	1,914	29.8	5,781	91.2
US inc. DC	1,126	17.5	12	1.1	35	3.1	15	1.3	94	8.3	808	86.0	206	90.4	299	26.6	976	87.7
US Territories ⁷	3	-- ⁶	0	0.0	0	0.0	0	0.0	0	0.0	2	-- ⁶	1	100.0	1	-- ⁶	3	-- ⁶
Non-US-born ⁸	5,297	82.4	5	0.1	21	0.4	42	0.8	398	7.5	3,601	84.7	895	86.4	1,614	30.5	4,802	91.9
American Indian⁹	234	0.3	--⁶	--⁶	9	3.8	3	--⁶	12	5.2	159	82.0	36	90.0	84	35.9	184	81.1
US inc. DC	223	95.3	-- ⁶	-- ⁶	9	4.0	3	-- ⁶	11	5.0	152	82.2	31	88.6	78	35.0	174	80.6
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	11	4.7	0	0.0	0	0.0	0	0.0	1	-- ⁶	7	77.8	5	100.0	6	54.5	10	90.9
Other¹⁰	390	0.5	--⁶	--⁶	6	1.5	4	--⁶	25	6.4	251	74.5	72	81.8	109	28.0	336	93.1
US inc. DC	103	26.4	-- ⁶	-- ⁶	-- ⁶	-- ⁶	2	-- ⁶	6	5.8	71	77.2	18	78.3	26	25.2	74	84.1
US Territories ⁷	1	-- ⁶	0	0.0	0	0.0	0	0.0	0	0.0	1	-- ⁶	0	0.0	0	0.0	1	-- ⁶
Non-US-born ⁸	286	73.3	0	0.0	3	-- ⁶	2	-- ⁶	19	6.6	179	73.4	54	83.1	83	29.1	261	96.0
Unknown	948	1.3	16	1.7	31	3.3	18	2.2	72	8.8	538	82.0	118	79.7	279	34.1	694	88.4

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 percents 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. Does not include data from Newton Wellesley, Saint Vincent and Winchester hospitals because of reporting problems. 5. Infant was being breastfed at time of discharge. 6. Calculations based on 1-4 events are excluded. 7. The category "US Territories" includes women born in Puerto Rico, the US Virgin Islands, and Guam. Approximately 95% of the births in this category were to women born in Puerto Rico. 8. The category "Non-US-born" includes women born outside of the 50 US states, District of Columbia, and the US territories. 9. Mothers who selected American Indian as their race. 10. Mothers who indicated "Other" as their race.

Table 3. Birth Characteristics by Maternal Ancestry, Massachusetts: 2014

Maternal Ancestry	Births ¹		Teen Births				Low Birthweight ²		Prenatal Care				Late Preterm ⁴		Cesarean Section		Breast-feeding ⁵		Gestational Diabetes ⁶	
			<18 years		<20 Years				Adequate ³		1 st Trimester									
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
State Total	71,867	100.0	617	0.9	2,419	3.4	5,394	7.5	50,186	83.1	38,536	74.8	4,394	6.1	22,691	31.6	60,422	86.5	3,867	5.4
American	35,625	49.6	225	0.6	962	2.7	2,458	6.9	25,696	86.3	20,091	77.8	2,207	6.2	11,382	32.0	29,615	83.9	1,750	4.9
European	9,071	12.6	19	0.2	92	1.0	573	6.3	5,869	87.7	5,221	80.0	538	5.9	2,739	30.2	8,235	92.0	378	4.2
Puerto Rican	4,668	6.5	173	3.7	622	13.3	453	9.7	3,373	80.1	2,387	71.0	311	6.7	1,400	30.0	3,553	77.4	246	5.3
African American	3,209	4.5	65	2.0	255	7.9	383	11.9	2,202	76.9	1,551	68.1	230	7.2	1,011	31.5	2,539	80.1	135	4.2
Dominican	2,621	3.6	58	2.2	215	8.2	234	8.9	1,884	78.3	1,247	69.2	181	6.9	935	35.7	2,372	91.9	107	4.1
Portuguese	2,102	2.9	31	1.5	113	5.4	139	6.6	1,655	85.1	1,158	74.8	116	5.5	727	34.6	1,419	68.2	130	6.2
Chinese	2,000	2.8	-- ⁷	-- ⁷	7	0.4	117	5.9	1,454	87.7	1,105	78.1	93	4.7	491	24.6	1,810	91.8	168	8.4
African	1,936	2.7	0	0.0	11	0.6	133	6.9	1,121	67.8	799	58.7	92	4.8	697	36.0	1,801	93.8	148	7.6
Asian Indian	1,903	2.6	-- ⁷	-- ⁷	6	0.3	173	9.1	1,127	84.2	1,037	76.7	119	6.3	724	38.0	1,814	96.5	241	12.7
Brazilian	1,566	2.2	7	0.4	24	1.5	99	6.3	1,136	82.6	868	75.9	94	6.0	623	39.8	1,472	94.6	105	6.7
Haitian	1,472	2.0	7	0.5	29	2.0	152	10.3	864	65.1	610	56.9	96	6.5	589	40.0	1,336	91.5	102	6.9
Salvadoran	1,299	1.8	37	2.8	105	8.1	89	6.9	912	76.6	644	69.6	76	5.9	255	19.6	1,155	89.3	70	5.4
Cape Verdean	1,280	1.8	27	2.1	96	7.5	108	8.4	909	74.6	611	67.1	60	4.7	400	31.3	1,085	85.9	40	3.1
Middle Eastern	1,127	1.6	-- ⁷	-- ⁷	16	1.4	78	6.9	727	77.4	564	69.2	64	5.7	341	30.3	1,040	93.6	68	6.0
Guatemalan	987	1.4	26	2.6	82	8.3	61	6.2	686	75.2	438	62.9	54	5.5	233	23.6	897	92.0	58	5.9
Russian	762	1.1	-- ⁷	-- ⁷	6	0.8	38	5.0	501	83.5	408	74.6	33	4.3	194	25.5	725	95.8	36	4.7
Vietnamese	651	0.9	-- ⁷	-- ⁷	9	1.4	47	7.2	454	83.8	341	75.6	40	6.2	200	30.7	552	85.6	77	11.8
Cambodian	569	0.8	9	1.6	29	5.1	48	8.4	417	79.1	300	68.8	33	5.8	128	22.5	387	69.1	50	8.8
Other South American																				
American	545	0.8	8	1.5	26	4.8	27	5.0	380	79.5	259	66.6	25	4.6	156	28.6	517	95.4	25	4.6
Mexican	539	0.7	5	0.9	22	4.1	37	6.9	381	80.5	251	67.8	36	6.7	159	29.6	473	90.1	35	6.5
West Indian Caribbean	468	0.7	-- ⁷	-- ⁷	29	6.2	55	11.8	314	74.8	214	65.8	49	10.6	163	34.8	414	89.4	23	4.9
Colombian	432	0.6	-- ⁷	-- ⁷	12	2.8	28	6.5	299	80.4	229	70.7	32	7.4	140	32.4	399	93.4	14	3.2
Korean	429	0.6	0	0.0	-- ⁷	-- ⁷	26	6.1	286	81.7	221	72.7	25	5.9	128	29.8	403	95.3	29	6.8
Native American	419	0.6	5	1.2	22	5.3	34	8.1	283	80.9	230	73.7	27	6.5	135	32.2	321	78.5	17	4.1
Honduran	395	0.5	15	3.8	43	10.9	23	5.8	263	72.9	170	62.5	18	4.6	97	24.6	330	84.2	19	4.8
Filipino	265	0.4	-- ⁷	-- ⁷	-- ⁷	-- ⁷	22	8.3	199	86.5	149	77.2	24	9.1	92	34.7	243	92.7	26	9.8

NOTE: All percentages are calculated based on only those births with known values for the characteristic(s) of interest, unless otherwise stated. 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 maternal 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. Does not include data from Newton Wellesley, Saint Vincent and Winchester hospitals because of reporting problems. 4. Late preterm: 34-36 weeks gestation. 5. Infant was being breastfed at time of discharge. 6. Gestational diabetes is defined as glucose intolerance found during pregnancy for the first time. It excludes cases with pre-existing diabetes. 7. Counts and calculations based on 1-4 events are excluded.

Figure 1. Trends in the Number of Births by Mother's Age Group, Massachusetts: 1980-2014

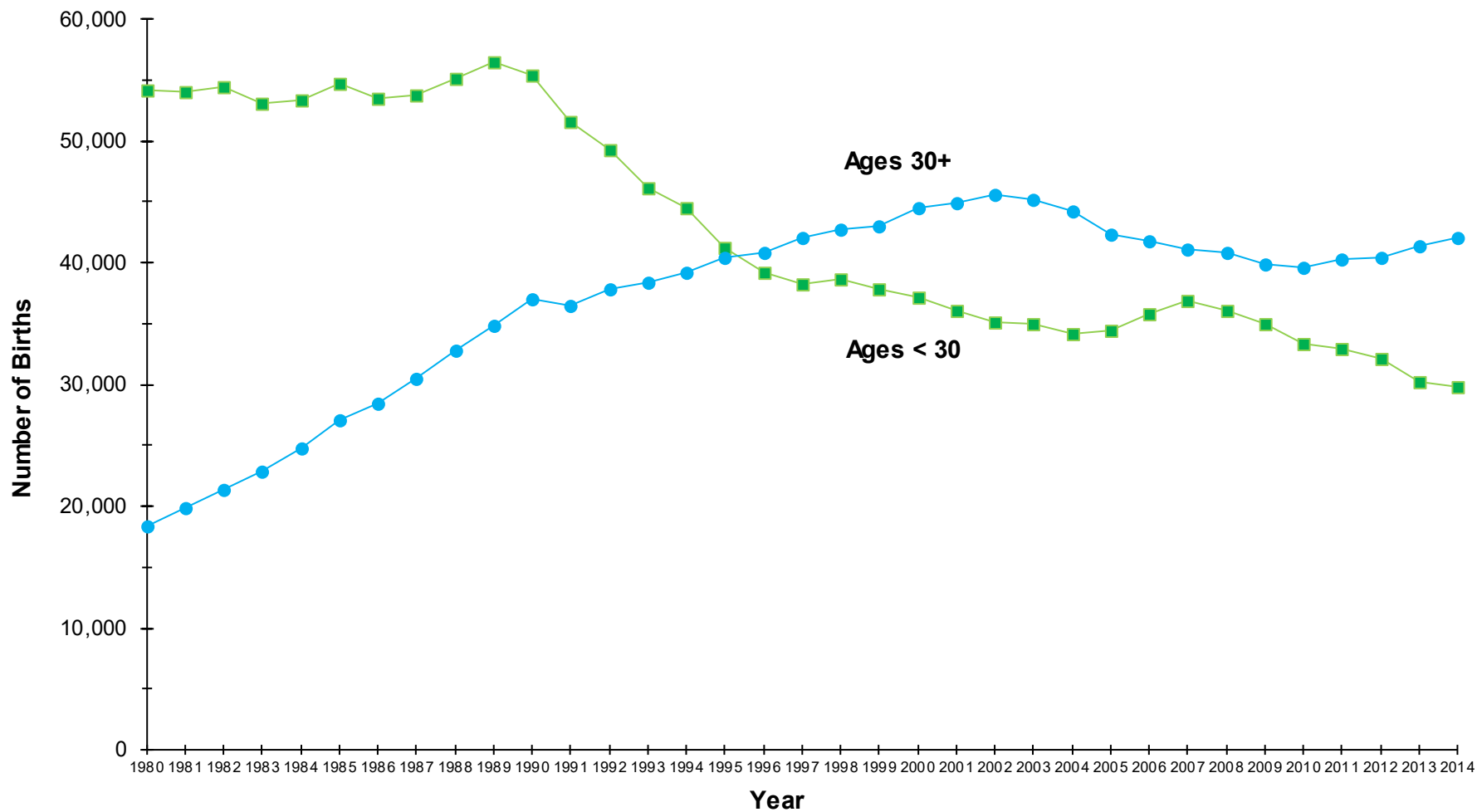


Table 4. Trends in Number and Percent Distribution of Births by Plurality and Maternal Age Massachusetts: 2000-2014

Singletons				Multiples ¹						Total births ²	
Age Group	Year	n	%	Twins		Triplets or more		Total Multiples			
				n	%	n	%	n	%	n	%
All Ages											
	2000	78,075	95.7	3,263	4.0	244	0.3	3,507	4.3	81,582	100.0
	2001	77,409	95.6	3,371	4.2	234	0.3	3,605	4.4	81,014	100.0
	2002	76,673	95.1	3,708	4.6	243	0.3	3,951	4.9	80,624	100.0
	2003	76,367	95.3	3,551	4.4	249	0.3	3,800	4.7	80,167	100.0
	2004	74,677	95.2	3,538	4.5	245	0.3	3,783	4.8	78,460	100.0
	2005	73,258	95.4	3,375	4.4	190	0.2	3,565	4.6	76,824	100.0
	2006	74,146	95.5	3,375	4.3	149	0.2	3,524	4.5	77,670	100.0
	2007	74,498	95.6	3,310	4.2	126	0.2	3,436	4.4	77,934	100.0
	2008	73,475	95.5	3,365	4.4	129	0.2	3,494	4.5	76,969	100.0
	2009	71,423	95.3	3,386	4.5	157	0.2	3,543	4.7	74,966	100.0
	2010	69,508	95.4	3,220	4.4	107	0.1	3,327	4.6	72,835	100.0
	2011	69,933	95.6	3,135	4.3	100	0.1	3,235	4.4	73,169	100.0
	2012	69,272	95.6	3,093	4.3	90	0.1	3,183	4.4	72,457	100.0
	2013	68,363	95.5	3,164	4.4	91	0.1	3,255	4.5	71,618	100.0
	2014	68,800	95.7	2,984	4.2	83	0.1	3,067	4.3	71,867	100.0
Ages <35											
	2000	61,659	96.4	2,205	3.4	130	0.2	2,335	3.6	63,994	100.0
	2001	60,704	96.3	2,211	3.5	134	0.2	2,345	3.7	63,049	100.0
	2002	59,736	96.0	2,379	3.8	127	0.2	2,506	4.0	62,242	100.0
	2003	59,347	95.9	2,389	3.9	118	0.2	2,507	4.1	61,854	100.0
	2004	57,618	96.0	2,229	3.7	142	0.2	2,371	4.0	59,989	100.0
	2005	56,380	96.3	2,086	3.6	102	0.2	2,188	3.7	58,569	100.0
	2006	57,237	96.3	2,116	3.6	89	0.1	2,205	3.7	59,442	100.0
	2007	57,977	96.3	2,144	3.6	87	0.1	2,231	3.7	60,208	100.0
	2008	57,080	96.3	2,111	3.6	78	0.1	2,189	3.7	59,269	100.0
	2009	55,906	96.1	2,202	3.8	80	0.1	2,282	3.9	58,188	100.0
	2010	54,369	96.3	2,018	3.6	58	0.1	2,076	3.7	56,445	100.0
	2011	54,837	96.4	2,014	3.5	59	0.1	2,073	3.6	56,910	100.0
	2012	54,069	96.4	1,961	3.5	57	0.1	2,018	3.6	56,089	100.0
	2013	52,995	96.2	2,025	3.7	54	0.1	2,079	3.8	55,074	100.0
	2014	53,166	96.5	1,890	3.4	50	0.1	1,940	3.5	55,106	100.0
Ages 35+											
	2000	16,412	93.3	1,058	6.0	114	0.6	1,172	6.7	17,584	100.0
	2001	16,703	93.0	1,160	6.5	100	0.6	1,260	7.0	17,963	100.0
	2002	16,936	92.1	1,329	7.2	116	0.6	1,445	7.9	18,381	100.0
	2003	17,015	92.9	1,162	6.3	131	0.7	1,293	7.1	18,308	100.0
	2004	17,055	92.4	1,309	7.1	103	0.6	1,412	7.6	18,467	100.0
	2005	16,874	92.5	1,289	7.1	88	0.5	1,377	7.5	18,251	100.0
	2006	16,901	92.8	1,257	6.9	60	0.3	1,317	7.2	18,218	100.0
	2007	16,519	93.2	1,166	6.6	39	0.2	1,205	6.8	17,724	100.0
	2008	16,392	92.6	1,254	7.1	51	0.3	1,305	7.4	17,697	100.0
	2009	15,513	92.5	1,184	7.1	77	0.5	1,261	7.5	16,774	100.0
	2010	15,136	92.4	1,200	7.3	49	0.3	1,249	7.6	16,385	100.0
	2011	15,092	92.8	1,121	6.9	41	0.3	1,162	7.1	16,255	100.0
	2012	15,202	92.9	1,132	6.9	33	0.2	1,165	7.1	16,367	100.0
	2013	15,367	92.9	1,139	6.9	37	0.2	1,176	7.1	16,543	100.0
	2014	15,634	93.3	1,094	6.5	33	0.2	1,127	6.7	16,761	100.0

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.

Table 5.a. Summary of Selected Teen Birth Characteristics, Massachusetts: 2014

	Ages 15-17		Ages 18-19		Combined Ages 15-19	
	N	% ¹	N	% ¹	N	% ¹
State total	600	25.0%	1,802	75.0%	2,402	100.0%
White non-Hispanic	167	28.5%	689	38.6%	856	36.1%
Black non-Hispanic	65	11.1%	241	13.5%	306	12.9%
Asian	17	2.9%	39	2.2%	56	2.4%
Hispanic	332	56.8%	807	45.2%	1,139	48.0%
Other	-- ⁶	-- ⁶	11	0.6%	15	0.6%
Birthplace						
US States / D.C.	434	72.3%	1,326	73.6%	1,760	73.3%
Puerto Rico / US Terr.	54	9.0%	150	8.3%	204	8.5%
Non-US-born	112	18.7%	326	18.1%	438	18.2%
Prenatal care funding						
Public	488	83.8%	1,417	80.2%	1,905	81.1%
Private, other	94	16.2%	349	19.8%	443	18.9%
Pregnancy-Related Factors						
Adequacy of Prenatal Care³						
Adequate Total ⁴	382	63.7%	1,262	70.0%	1,644	68.4%
Adequate Intensive	211	35.2%	682	37.8%	893	37.2%
Adequate Basic	171	28.5%	580	32.2%	751	31.3%
Intermediate	46	7.7%	149	8.3%	195	8.1%
Inadequate/None	145	24.2%	325	18.0%	470	19.6%
Unknown	27	4.5%	66	3.7%	93	3.9%
Parity⁵						
1	564	94.5%	1,526	84.7%	2,090	87.2%
2	33	5.5%	253	14.0%	286	11.9%
3+	0	0.0%	22	1.2%	22	0.9%
Smoking during Pregnancy						
Yes	41	7.3%	192	11.3%	233	10.3%
No	517	92.7%	1,511	88.7%	2,028	89.7%
Birth Outcomes						
Birthweight						
< 500 g	-- ⁶	-- ⁶	-- ⁶	-- ⁶	6	0.2%
500-1,499 g	7	1.2%	27	1.5%	34	1.4%
1,500-2,499 g	41	6.8%	115	6.4%	156	6.5%
LBW (<2,499 g)	50	8.3%	146	8.1%	196	8.2%
2,500-3,999 g	520	86.8%	1,537	85.3%	2,057	85.7%
4000+ g	29	4.8%	119	6.6%	148	6.2%
Gestational Age						
< 28 weeks	-- ⁶	-- ⁶	21	1.2%	25	1.0%
Preterm (< 37 weeks)	47	7.9%	123	6.9%	170	7.1%
37-42 weeks	547	91.5%	1,651	92.0%	2,198	91.9%
Plurality						
Singleton	589	98.2%	1,766	98.0%	2,355	98.0%
Multiple birth	11	1.8%	36	2.0%	47	2.0%

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. Percents are based on state total of the age group. 3. Based on Adequacy of Prenatal Care Utilization (APNCU) Index. Does not include data from Newton Wellesley, Saint Vincent, and Winchester hospitals because of reporting problems. 4. Adequate Total = Adequate Basic + Adequate Intensive. 5. Number of live births including the current birth. 6. Numbers and calculations based on 1-4 events are excluded.

Table 6.b. Number and Teen Birth Rates by Race/Hispanic Ethnicity for Selected Communities, Massachusetts: 2014

Municipality ¹	Teen Births		White non-Hispanic		Black non-Hispanic		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	2,402	10.6 (10.1, 11)	856	5.4 (5, 5.7)	306	15.4 (13.7, 17.1)	1,139	35.7 (33.6, 37.8)
Chelsea	59	49.3 (36.5, 64.0)	-- ⁴	-- ⁴	-- ⁴	-- ⁴	55	62.2 (47.7, 78.6)
Athol	17	46.2 (33.8, 60.4)	16	47.3 (34.8, 61.7)	0	0.0	-- ⁴	-- ⁴
Holyoke	60	39.8 (28.4, 53.1)	-- ⁴	-- ⁴	-- ⁴	-- ⁴	56	53 (39.7, 68.2)
Lawrence	121	35.6 (29.3, 42.0)	-- ⁴	-- ⁴	-- ⁴	-- ⁴	116	40.5 (33.2, 47.9)
Springfield	239	35 (30.5, 39.4)	16	8.4 (3.7, 14.9)	47	31.1 (21.2, 43.0)	173	53.9 (45.9, 62.0)
Southbridge	19	33.3 (22.9, 45.5)	7	21.3 (13.3, 31.3)	0	0.0	12	54.8 (41.3, 70.2)
New Bedford	101	33.3 (26.8, 39.7)	32	15.7 (9.0, 24.4)	14	57.6 (43.7, 73.4)	51	70.8 (55.3, 88.3)
Lynn	94	29.2 (19.6, 40.7)	15	13.3 (7.1, 21.3)	6	13.3 (7.2, 21.4)	62	46.3 (33.9, 60.6)
Fall River	79	28.4 (18.9, 39.8)	42	19.1 (11.5, 28.6)	12	77.4 (61.1, 95.6)	23	74.9 (58.9, 92.8)
Brockton	88	26.2 (17.2, 37.2)	17	12.4 (6.5, 20.2)	48	32.7 (22.4, 44.8)	21	51.5 (38.4, 66.5)
Pittsfield	32	23.9 (15.3, 34.4)	23	20.7 (12.8, 30.5)	5	55.6 (41.9, 71.1)	-- ⁴	-- ⁴
Fitchburg	41	23.1 (14.6, 33.4)	14	11.9 (6.2, 19.6)	-- ⁴	-- ⁴	23	49.3 (36.5, 63.9)
Haverhill	41	22.9 (14.5, 33.2)	19	14.4 (7.9, 22.7)	-- ⁴	-- ⁴	21	54.3 (40.8, 69.6)
Lowell	89	21.6 (13.5, 31.6)	27	14.2 (7.8, 22.5)	5	17.4 (10.2, 26.5)	34	34.4 (23.9, 46.9)
Revere	30	20.9 (12.9, 30.8)	6	8.3 (3.6, 14.8)	0	0.0	23	44 (32.0, 57.9)
Chicopee	35	18.6 (11.1, 28.0)	9	6.8 (2.7, 12.8)	-- ⁴	-- ⁴	23	52.5 (39.3, 67.6)
Worcester	126	16.3 (13.5, 19.2)	32	7.1 (2.9, 13.3)	14	18.3 (10.9, 27.5)	76	38.3 (27.1, 51.4)
Framingham	35	14.9 (8.3, 23.3)	-- ⁴	-- ⁴	-- ⁴	-- ⁴	29	67.9 (52.7, 85.0)
Leominster	18	13.8 (7.5, 21.9)	10	10.8 (5.4, 18.2)	0	0.0	8	28.3 (18.8, 39.6)
Attleboro	18	13.4 (7.2, 21.5)	13	11.7 (6.0, 19.2)	-- ⁴	-- ⁴	-- ⁴	-- ⁴
Everett	17	12.9 (6.8, 20.8)	6	9 (4.1, 15.8)	0	0.0	11	33.6 (23.2, 45.9)
Somerville	22	12.9 (6.8, 20.8)	6	5.9 (2.1, 11.5)	-- ⁴	-- ⁴	13	45.6 (33.3, 59.8)
Boston	276	10.6 (9.4, 11.9)	19	1.7 (0.1, 5.0)	95	14.6 (8.1, 22.9)	151	29.1 (24.4, 33.7)
Plymouth	17	10.4 (5.0, 17.6)	15	9.7 (4.6, 16.7)	-- ⁴	-- ⁴	-- ⁴	-- ⁴
Waltham	20	8.5 (3.8, 15.1)	-- ⁴	-- ⁴	0	0.0	18	57.5 (43.6, 73.3)

Note: The total number of Asian teen births in MA was 56 for a rate of 3.5/1,000 significantly lower than the state rate of 10.6. The only communities with more than 10 Asian teen births were Lynn and Lawrence. Asian teen birth rates in both of these communities were higher than the state.

1. Selected communities include the 25 Massachusetts cities and towns with the greatest number of teen births. 2. Rates are per 1,000 females ages 15-19 per city/town. 3. Birth rates for cities and towns were calculated using the Massachusetts Department of Public Health Race Allocated Census 2010 Estimates file (MRACE 2010), which is the most up-to-date information available on the number of persons by age, race, and sex at the sub-state level. **Please note:** If the population in your community increased from 2010 to 2014, the rates listed may overestimate the actual rate. If the population in your community declined from 2010 to 2014, the rates given in the publication may underestimate the actual rate. 4. Counts and rates based on counts of 1-4 births are not presented.

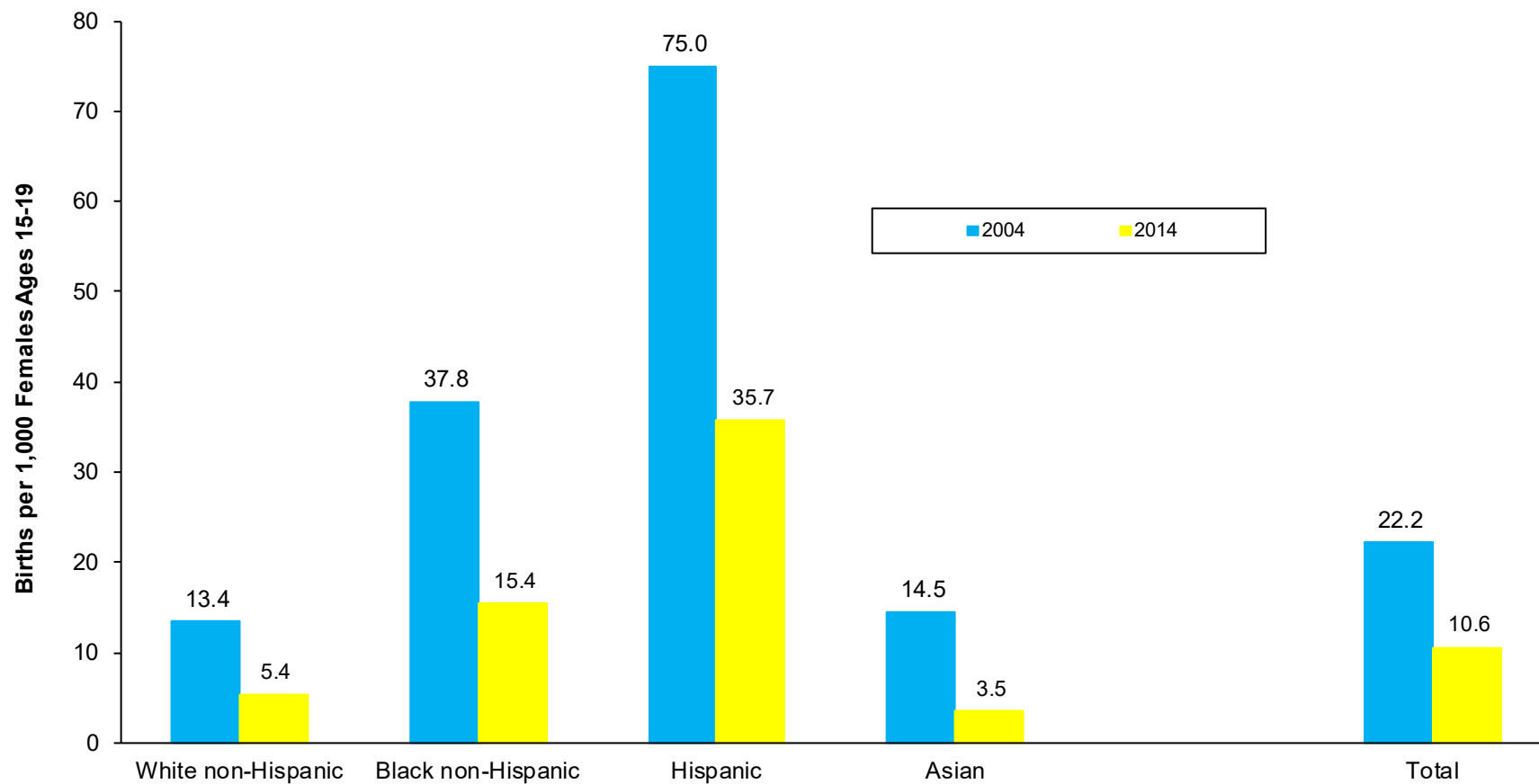
Table 7. Trends in Teen Birth Rates for Selected Communities, Ranked by 2014 Teen Birth Rate, Massachusetts: 2004, 2013-2014

2014 Rank	Municipality ¹	2004		2013		2014	
		Number of Teen Births	Teen Birth Rate ²	Number of Teen Births	Teen Birth Rate ^{2,3}	Number of Teen Births	Teen Birth Rate ^{2,3}
	State Total	4,559	22.2	2,732	12.0	2,402	10.6
1	Chelsea	73	74.3	55	45.9	59	49.3
2	Athol	15	35.3	9	24.5	17	46.2
3	Holyoke	115	79.0	70	46.4	60	39.8
4	Lawrence	226	77.1	139	40.9	121	35.6
5	Springfield	428	72.6	289	42.3	239	35.0
6	Southbridge	38	69.4	25	43.8	19	33.3
7	New Bedford	183	63.3	126	41.5	101	33.3
8	Lynn	135	44.9	106	32.9	94	29.2
9	Fall River	171	61.4	89	32.0	79	28.4
10	Brockton	161	45.6	96	28.6	88	26.2
11	Pittsfield	59	46.7	37	27.6	32	23.9
12	Fitchburg	70	45.8	38	21.4	41	23.1
13	Haverhill	56	30.0	40	22.3	41	22.9
14	Lowell	194	49.3	106	25.7	89	21.6
15	Revere	42	39.9	37	25.8	30	20.9
16	Chicopee	64	37.3	44	23.4	35	18.6
17	Worcester	250	36.2	179	23.2	126	16.3
18	Framingham	44	22.7	32	13.6	35	14.9
19	Leominster	26	21.1	30	22.9	18	13.8
20	Attleboro	37	33.2	16	11.9	18	13.4
21	Everett	34	32.4	25	19.0	17	12.9
22	Somerville	36	16.8	16	9.4	22	12.9
23	Boston	578	29.3	318	12.2	276	10.6
24	Plymouth	27	16.6	16	9.8	17	10.4
25	Waltham	18	7.8	16	6.8	20	8.5

1. Selected communities include the 25 Massachusetts cities and towns with the greatest number of teen births in 2014. Ranking is by 2014 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. **Please note:** If the population in your community increased from 2010 to 2014, the rates listed may **overestimate** the actual rate. If the population in your community declined from 2010 to 2014, the rates given in the publication may **underestimate** the actual rate.

Figure 2. Teen Birth Rates among Females Ages 15-19 Years by Mother's Race/Hispanic Ethnicity, Massachusetts: 2004 and 2014



Note: Teen birth rate is number of births to females ages 15-19 per 1,000 females ages 15-19. Birth rates are based upon the 2010 Census population and the [National Center for Health Statistics. Postcensal estimates of the resident population of the United States for July 1, 2010-July 1, 2014, by year, county, single-year of age \(0, 1, 2, ..., 85 years and over\), bridged race, Hispanic origin, and sex \(Vintage 2014\).](#)

Table 8. Births by Birthweight, Race/Hispanic Ethnicity, Massachusetts: 2014

Birthweight (in grams)	Total		White non-Hispanic		Black non-Hispanic		Hispanic		Asian		Other		Unknown race/ethnicity	
	n	% ¹	n	% ¹	n	% ¹	n	% ¹	n	% ¹	n	% ¹	n	% ¹
State Total	71,867	100.0	44,128	100.0	7,071	100.0	12,670	100.0	6,426	100.0	624	100.0	948	100.0
<500	114	0.2	56	0.1	20	0.3	24	0.2	9	0.1	0	0.0	5	0.6
500-999	299	0.4	141	0.3	62	0.9	70	0.6	16	0.2	3	-- ²	7	0.9
1,000-1,499	481	0.7	281	0.6	68	1.0	90	0.7	32	0.5	4	-- ²	6	0.7
1,500-1,999	1,107	1.5	652	1.5	135	1.9	204	1.6	88	1.4	7	1.1	21	2.6
2,000-2,499	3,393	4.7	1,909	4.3	436	6.2	645	5.1	347	5.4	23	3.7	33	4.0
2,500-2,999	11,859	16.5	6,361	14.4	1,401	19.8	2,373	18.7	1,451	22.6	132	21.2	141	17.2
3,000-3,499	26,883	37.5	15,871	36.0	2,752	38.9	5,026	39.7	2,708	42.1	233	37.4	293	35.8
3,500-3,999	20,593	28.7	13,769	31.3	1,672	23.7	3,338	26.4	1,419	22.1	169	27.1	226	27.6
4,000-4,499	5,941	8.3	4,308	9.8	450	6.4	756	6.0	312	4.9	44	7.1	71	8.7
4,500-4,999	934	1.3	686	1.6	65	0.9	121	1.0	42	0.7	7	1.1	13	1.6
>=5,000	101	0.1	76	0.2	6	0.1	13	0.1	2	-- ²	1	-- ²	3	-- ²
Unknown birthweight	162	0.2	18	0.0	4	-- ²	10	0.1	0	0.0	1	-- ²	129	13.6
VLBW³ (0-1,499 g)	894	1.2	478	1.1	150	2.1	184	1.5	57	0.9	7	1.1	18	2.2
LBW⁴ (0-2,499 g)	5,394	7.5	3,039	6.9	721	10.2	1,033	8.2	492	7.7	37	5.9	72	8.8

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 Maternal Age, Massachusetts: 2004-2014

Maternal Age Group (years)	Year	Singleton				Twin				Multiples				Total Multiples				Total Births			
		VLBW ¹		LBW ²		VLBW ¹		LBW ²		VLBW ¹		LBW ²		VLBW ¹		LBW ²		VLBW ¹		LBW ²	
		n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
		n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
All Ages	2004	740	1.0	4,015	5.4	324	9.2	1,879	53.2	84	34.4	231	94.7	408	10.8	2,110	55.9	1,148	1.5	6,125	7.8
	2005	701	1.0	4,126	5.6	322	9.5	1,765	52.3	75	39.5	181	95.3	397	11.1	1,946	54.6	1,098	1.4	6,072	7.9
	2006	687	0.9	4,264	5.8	308	9.1	1,746	51.8	46	31.1	140	94.6	354	10.1	1,886	53.6	1,041	1.3	6,150	7.9
	2007	693	0.9	4,258	5.7	306	9.2	1,772	53.6	54	42.9	117	92.9	360	10.5	1,889	55.0	1,053	1.4	6,147	7.9
	2008	627	0.9	4,039	5.5	324	9.7	1,803	53.8	55	42.6	113	87.6	379	10.9	1,916	55.1	1,006	1.3	5,955	7.8
	2009	677	1.0	3,886	5.5	276	8.2	1,771	52.7	61	38.9	147	93.6	337	9.6	1,918	54.5	1,014	1.4	5,804	7.8
	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
	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	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
Ages < 35	2004	565	1.0	3,128	5.4	207	9.3	1,224	55.0	56	39.7	133	94.3	263	11.1	1,357	57.3	828	1.4	4,485	7.5
	2005	552	1.0	3,198	5.7	215	10.3	1,149	55.1	47	46.1	100	98.0	262	12.0	1,249	57.1	814	1.4	4,447	7.6
	2006	534	0.9	3,342	5.8	217	10.3	1,157	54.8	28	31.5	83	93.3	245	11.1	1,240	56.3	779	1.3	4,582	7.7
	2007	533	0.9	3,317	5.7	223	10.4	1,191	55.6	45	51.7	85	97.7	268	12.0	1,276	57.2	801	1.3	4,593	7.6
	2008	492	0.9	3,134	5.5	218	10.4	1,181	56.2	34	43.6	70	89.7	252	11.6	1,251	57.4	744	1.3	4,385	7.4
	2009	525	0.9	3,093	5.6	174	7.9	1,187	54.2	36	45.0	76	95.0	210	9.2	1,263	55.6	735	1.3	4,356	7.5
	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	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	14	28	48	96	207	7.9	1,173	44.7	660	1.2	3,952	7.2
Ages 35+	2004	174	1.0	886	5.2	117	9.0	655	50.2	28	27.2	98	95.1	145	10.3	753	53.5	319	1.7	1,639	8.9
	2005	149	0.9	927	5.5	107	8.3	616	47.8	28	31.8	81	92.0	135	9.8	697	50.6	284	1.6	1,624	8.9
	2006	151	0.9	919	5.4	89	7.1	587	46.8	18	30.5	57	96.6	107	8.1	644	49.0	258	1.4	1,563	8.6
	2007	160	1.0	941	5.7	83	7.1	581	49.8	9	23.1	32	82.1	92	7.6	613	50.9	252	1.4	1,554	8.8
	2008	135	0.8	905	5.6	106	8.5	622	49.8	21	41.2	43	84.3	127	9.8	665	51.2	262	1.5	1,570	8.9
	2009	152	1.0	792	5.1	102	8.7	584	49.9	25	32.5	71	92.2	127	10.2	655	52.5	279	1.7	1,447	8.7
	2010	154	1.0	810	5.4	82	6.8	609	50.8	8	16.3	49	100.0	90	7.2	658	52.8	244	1.5	1,468	9.0
	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

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.).

Table 10. Births by Gestational Age, Race/Hispanic Ethnicity, Massachusetts: 2014

Gestational Age ¹ (weeks completed)	Total		White non-Hispanic		Black non-Hispanic		Hispanic		Asian		Other ³		Unknown
	n	% ²	n	% ²	n	% ²	n	% ²	n	% ²	n	% ²	n
State Total	71,867	100.0	44,128	100.0	7,071	100.0	12,670	100.0	6,426	100.0	624	100.0	948
<20	22	0.03	7	0.02	-- ⁴	-- ⁴	9	0.07	-- ⁴	-- ⁴	0	0.0	0
20-23	132	0.18	65	0.1	21	0.3	31	0.2	9	0.1	0	0.0	6
24-27	275	0.35	134	0.3	53	0.8	64	0.5	17	0.3	2	-- ⁴	5
28-31	590	0.76	342	0.8	86	1.2	107	0.8	34	0.5	6	1.0	15
32-33	748	0.95	478	1.1	94	1.3	120	0.9	42	0.7	5	0.8	9
34-36	4,394	5.35	2,699	6.1	445	6.3	791	6.3	373	5.8	37	6.0	49
37-38	15,503	19.95	8,888	20.2	1,645	23.4	3,040	24.1	1,635	25.5	123	19.8	172
39	23,439	18.36	14,334	32.5	2,177	30.9	4,202	33.3	2,223	34.7	230	37.1	273
40	17,989	15.03	11,364	25.8	1,739	24.7	3,009	23.8	1,554	24.2	140	22.6	183
41	8,014	5.30	5,403	12.3	731	10.4	1,218	9.6	502	7.8	67	10.8	93
42	449	0.31	336	0.8	38	0.5	42	0.3	18	0.3	10	1.6	5
43	8	0.01	5	0.0	1	-- ⁴	2	-- ⁴	0	0.0	0	0.0	0
44+	3	-- ⁴	1	-- ⁴	1	-- ⁴	1	-- ⁴	0	0.0	0	0.0	0
Preterm⁵ (<37)	6,161	8.6	3,725	8.5	703	10.0	1,122	8.9	477	7.4	50	8.1	84
Very Early ⁶ (<28)	429	0.6	206	0.5	78	1.1	104	0.8	28	0.4	2	-- ⁴	11
(28-33)	1,338	1.9	820	1.9	180	2.6	227	1.8	76	1.2	11	1.8	24
Late (34-36)	4,394	6.1	2,699	6.1	445	6.3	791	6.3	373	5.8	37	6.0	49
Term (≥37)	65,405	91.4	40,331	91.5	6,332	90.0	11,514	91.1	5,932	92.6	570	91.9	726
Early Term (37-38)	15,503	21.7	8,888	20.2	1,645	23.4	3,040	24.1	1,635	25.5	123	19.8	172
(39-41)	49,442	68.8	31,101	70.6	4,647	66.1	8,429	66.7	4,279	66.8	437	70.5	549
(≥42)	460	0.6	342	0.8	40	0.6	45	0.4	18	0.3	10	1.6	5
Unknown ⁷	301		72		36		34		17		4		138

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

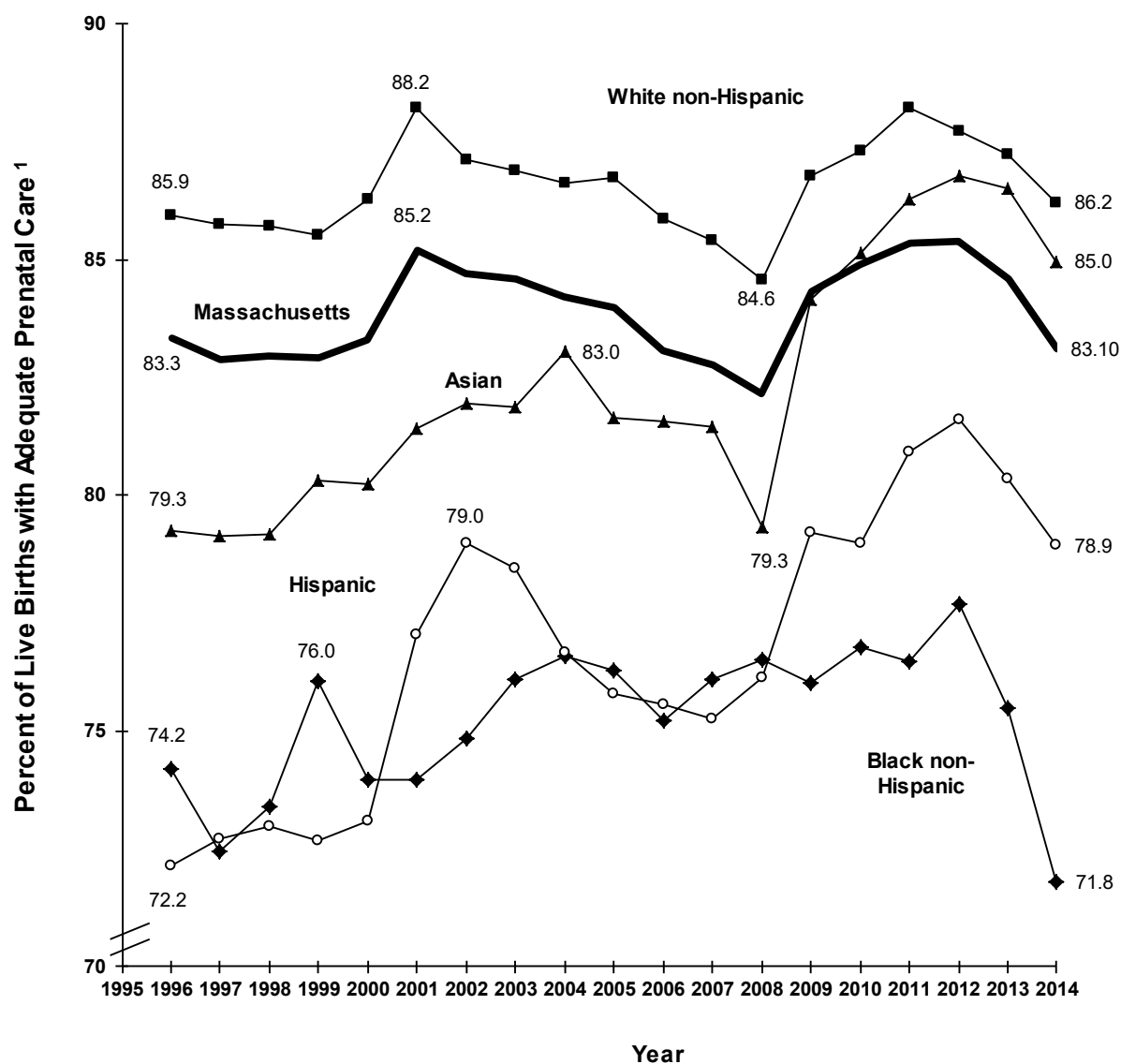
1. A clinical estimate of the number of weeks of pregnancy completed; as estimated by the attendant at birth or the postnatal physician. 2. Percentages are based on column total. 3. Other races include American Indian and others not specified. 4. Calculations based on values of 1-4 are excluded. 5. Also known as early gestational age, premature delivery, or preterm delivery. 6. Also known as extremely premature delivery, or extremely preterm delivery. 7. Estimate of gestational age not provided and excluded from percentage calculations.

Table 9b. Percent Preterm and Term Births by Gestational Age Category, Massachusetts: 1999-2014

	Preterm ¹			Term 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)
1999	0.6	1.9	5.2	17.1	92.4
2000	0.6	2.0	5.7	18.7	91.7
2001	0.6	1.9	5.5	18.8	92.0
2002	0.6	1.9	5.9	20.0	91.5
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	1.8	6.2	21.5	91.4
2013	0.6	1.9	6.3	21.0	91.2
2014	0.6	1.9	6.1	21.7	91.4

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 by Race and Hispanic Ethnicity, Massachusetts: 1996-2014

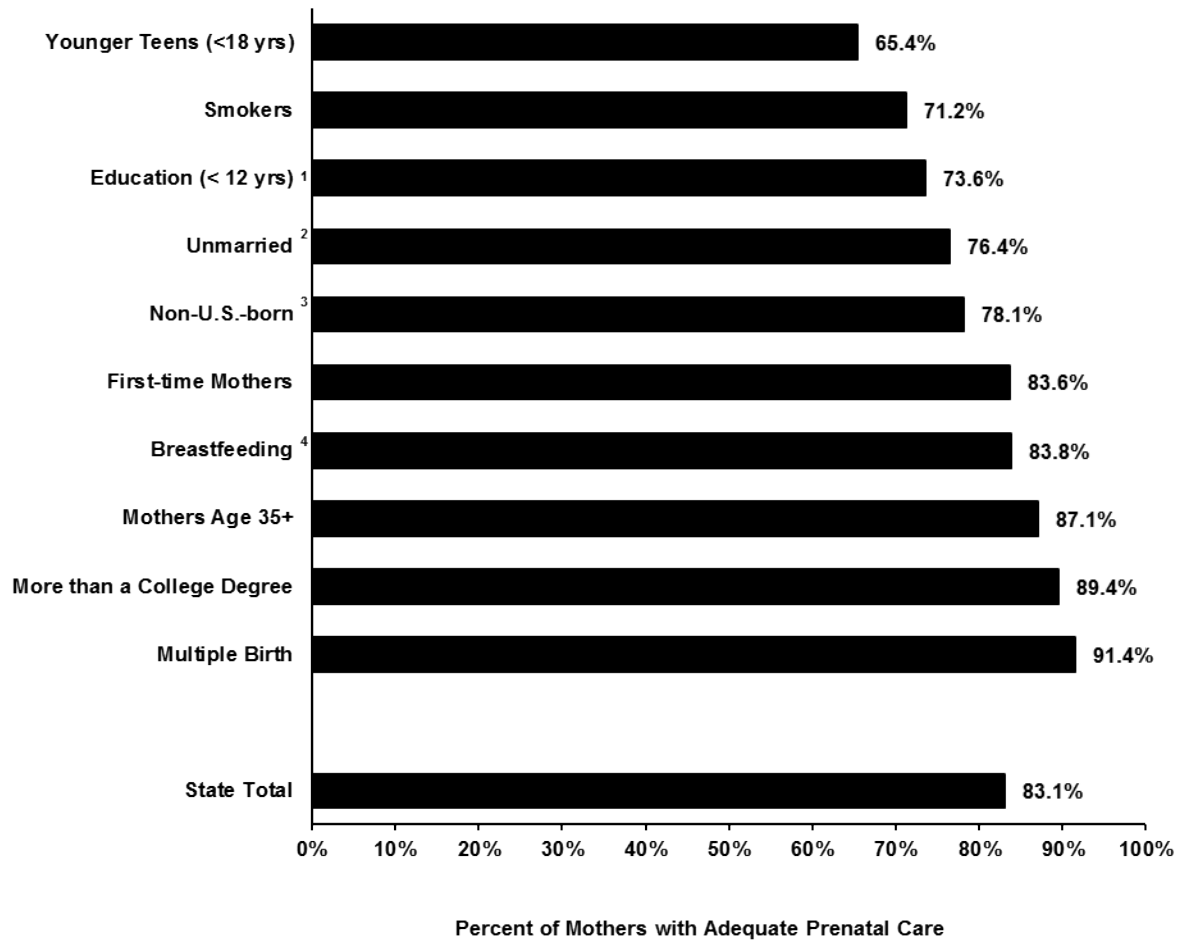


PLEASE NOTE THAT FOR PURPOSES OF VISUAL REPRESENTATION THE VERTICAL SCALE OF GRAPH REPRESENTS A SMALL INTERVAL (from 70% to 90%).

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

Please note that the 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. Years 2011 and 2012 not include data from MetroWest, Newton Wellesley, Saint Vincent and Winchester hospitals because of reporting problems. Years 2013 and 2014 do not include data from Newton Wellesley, Saint Vincent and Winchester hospitals because of reporting problems

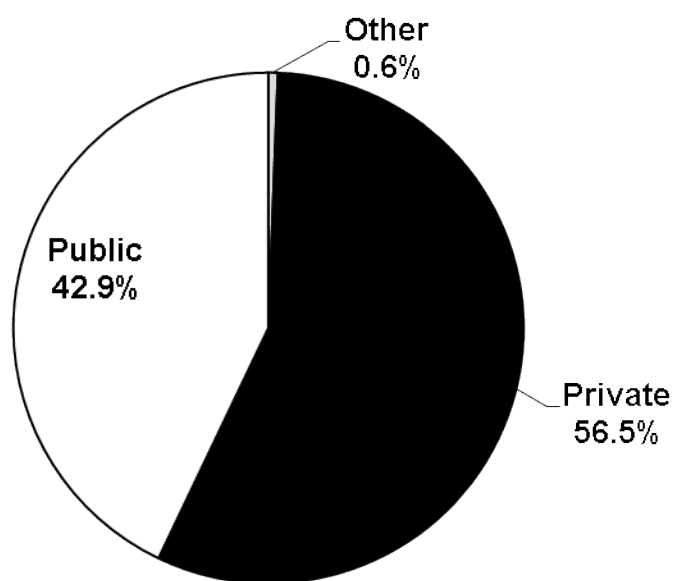
Figure 4. Adequacy of Prenatal Care by Selected Maternal Characteristics, Massachusetts: 2014



NOTE: All percentages are calculated based on the Adequacy of Prenatal Care Utilization (APNCU) Index. Does not include data from Newton Wellesley, Saint Vincent and Winchester hospitals because of reporting problems. Characteristics of interest are not mutually exclusive, except as noted.

1. Women 20 years of age and older. 2. Marital status at time of birth. 3. Non-US-born includes women 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 at time of discharge.

Figure 5. Distribution of Prenatal Care Payment Source, Massachusetts: 2014



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 11. Resident Birth Characteristics, 30 Largest Municipalities, Massachusetts: 2014

Municipality ¹	Rank (by pop. size)	Population	Crude Birth Rate ²	Mother's Race and Ethnicity				Birth weight		Gestational Diabetes
				White non- Hispanic % ³	Black non- Hispanic % ³	Hispanic % ³	Asian or Other ⁴ % ³	Very Low (<1500 g) %	Low (2500- 3999 g) %	
STATE TOTAL		6,745,408	11.0	61.4	9.8	17.6	9.8	1.2	7.5	5.4
Arlington	30	42839	13.4	71.2	1.2	3.8	22.2	1.1	8.2	4.9
Attleboro	29	43585	11.1	80.5	5.6	7.7	5.8	1.7	5.8	3.5
Barnstable	27	45185	9.1	71.9	9.8	12.7	4.9	1.0	7.6	2.2
Boston	1	617594	12.5	39.1	25.3	23.7	10.3	1.5	8.9	4.0
Brockton	7	93802	15.6	23.6	59.5	12.9	3.1	2.0	8.3	5.9
Brookline	18	58730	11.1	63.2	1.8	6.6	26.8	0.3	7.4	3.5
Cambridge	5	105157	12.0	54.8	11.0	7.2	25.3	0.5	7.2	4.0
Chicopee	22	55295	10.9	62.7	4.5	29.2	3.7	2.2	7.2	8.5
Fall River	10	88844	12.1	69.0	8.7	17.4	4.6	1.2	8.5	7.0
Framingham	14	68314	13.1	48.1	7.6	28.1	14.2	1.2	6.9	6.3
Haverhill	15	60876	12.6	64.4	5.1	25.8	3.1	1.2	9.9	4.4
Lawrence	12	76368	17.6	9.7	2.3	85.8	2.0	1.4	9.1	4.5
Lowell	4	106517	14.3	38.9	9.4	23.8	27.4	1.3	8.1	7.6
Lynn	9	90328	16.6	25.2	13.1	50.0	8.1	1.7	8.1	5.1
Malden	17	59447	14.8	30.6	18.2	14.2	35.5	0.9	7.5	7.1
Medford	20	56171	12.6	63.0	9.9	7.9	18.2	1.0	6.8	5.2
Methuen	26	47252	11.2	58.6	3.0	32.2	5.8	1.1	7.0	3.0
New Bedford	6	95071	13.2	53.1	12.0	29.1	4.1	2.1	8.3	6.5
Newton	11	85142	9.4	68.0	2.5	7.7	20.5	0.4	4.1	4.6
Peabody	25	51253	10.3	69.7	5.3	15.0	4.0	0.9	8.7	6.3
Pittsfield	28	44728	10.8	78.1	9.1	7.6	3.5	1.7	7.5	2.9
Plymouth	19	56455	9.3	88.0	3.4	5.1	2.7	0.4	5.7	5.7
Quincy	8	92275	13.1	48.6	6.9	5.7	37.9	1.4	8.9	7.0
Revere	24	51744	14.6	40.7	6.4	41.1	10.3	1.2	9.1	5.2
Somerville	13	75748	12.9	60.5	6.4	19.4	12.4	0.9	7.6	3.5
Springfield	3	153057	14.1	20.8	20.4	55.3	3.4	2.0	9.2	7.4
Taunton	21	55869	11.5	75.7	10.3	8.6	2.8	1.6	10.1	5.3
Waltham	16	60621	13.7	49.1	8.4	25.0	17.0	0.8	6.8	4.2
Weymouth	23	53736	12.3	74.7	8.9	5.6	10.3	0.6	7.9	9.2
Worcester	2	181041	13.5	44.6	18.6	28.1	7.3	1.4	8.4	6.6

Table 10 (cont'd). Resident Birth Characteristics, 30 Largest Municipalities, Massachusetts: 2014

Municipality ¹	Adequate Prenatal Care ⁶	Public Payment ⁷ for Prenatal Care	Unmarried	Teen Mothers 15-19 years ⁸	
	%	%	%	n	Rate
STATE TOTAL	83.1	39.5	33.3	2,402	10.6
Arlington	93.6	9.8	9.1	-- ⁵	-- ⁵
Attleboro	71.5	25.0	29.4	18	13.4
Barnstable	65.4	60.9	38.0	10	7.8
Boston	82.1	44.0	39.2	276	10.6
Brockton	74.3	70.5	56.8	88	26.2
Brookline	89.0	9.4	6.9	0	0
Cambridge	86.2	15.6	11.4	7	2.0
Chicopee	86.6	59.7	52.6	35	18.6
Fall River	79.9	74.9	62.8	79	28.4
Framingham	88.0	44.8	30.4	35	14.9
Haverhill	82.5	48.6	45.3	41	22.9
Lawrence	74.8	79.1	66.7	121	35.6
Lowell	75.4	59.6	53.0	89	21.6
Lynn	73.5	71.0	52.1	94	29.2
Malden	81.0	45.8	24.5	14	9.0
Medford	87.9	22.5	16.1	-- ⁵	-- ⁵
Methuen	80.1	43.7	37.1	15	9.2
New Bedford	78.2	69.6	63.4	101	33.3
Newton	92.1	9.7	8.5	8	1.9
Peabody	86.7	37.9	32.0	13	9.3
Pittsfield	77.8	47.2	52.2	32	23.9
Plymouth	88.0	30.3	31.7	17	10.4
Quincy	86.7	36.0	22.7	16	8.1
Revere	79.4	57.2	38.7	30	20.9
Somerville	86.6	28.4	21.7	22	12.9
Springfield	80.4	78.8	71.3	239	35.0
Taunton	77.4	53.6	45.6	17	9.7
Waltham	87.5	31.4	23.6	20	8.5
Weymouth	87.2	30.3	25.5	10	6.9
Worcester	76.1	62.8	47.4	126	16.3

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. For the category of Mother's Race and Ethnicity, percentages are calculated based on the state total of resident births, including births for which mother's race/Hispanic ethnicity is unknown. 4. Mothers who designated themselves as Asian, American Indian, or Other. 5. Counts and calculations based on 1-4 events are excluded. 6. Based on the Adequacy of Prenatal Care Utilization (APNCU) Index. For the states total, does not include data from, Newton Wellesley, Saint Vincent and Winchester hospitals because of reporting problems. 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 MDPH population estimates for 2010.

Table 12. Birth Characteristics by Facility/Location, Massachusetts: 2014

Facility ⁽¹⁾	Location	(2) Occurrence Births (n)	(3) Low Birth weight (%)	(4) Public Pay for PNC (%)	(5) Adequate Prenatal Care (%)	(6) Early Term (%)	(7) Late preterm (%)
State Total		72,474	7.4	38.8	82.5	21.7	6.1
Anna Jaques Hospital	Newburyport	733	5.0	33.7	88.6	19.1	5.6
Baystate Franklin Medical Center	Greenfield	479	2.1	55.0	81.8	16.1	2.7
Baystate Medical Center	Springfield	4,189	10.7	59.4	83.4	20.2	7.5
Berkshire Medical Center	Pittsfield	800	5.1	45.5	74.0	13.4	3.6
Beth Israel Deaconess Hospital - Plymouth	Plymouth	701	4.9	35.1	85.7	20.3	5.1
Beth Israel Deaconess Medical Center	Boston	5,027	11.0	21.3	93.6	24.1	8.1
Beverly Hospital	Beverly	2,274	4.6	36.0	85.8	21.3	5.0
Boston Medical Center	Boston	2,624	9.5	83.8	55.7	24.1	6.4
Brigham and Women's Hospital	Boston	6,547	10.7	29.0	91.7	22.5	8.1
Brockton Hospital	Brockton	978	6.0	66.8	81.4	23.6	5.3
Cambridge Birth Center	Cambridge	127	-- ⁸	17.3	88.2	13.4	-- ⁸
Cambridge Hospital	Cambridge	1,063	3.1	60.5	82.7	20.3	2.1
Cape Cod Hospital	Barnstable	763	4.8	60.8	59.0	20.8	7.3
Charlton Memorial Hospital	Fall River	1,546	5.7	61.6	83.0	15.5	4.7
Cooley Dickinson Hospital	Northampton	676	2.1	36.4	90.1	14.3	2.4
Emerson Hospital	Concord	1,181	3.6	13.6	87.0	19.6	4.4
Fairview Hospital	Great Barrington	130	-- ⁸	34.1	84.5	16.2	-- ⁸
Falmouth Hospital	Falmouth	457	2.8	47.0	73.3	21.1	4.4
Good Samaritan Medical Center	Brockton	995	4.1	72.2	63.3	23.6	4.1
Harrington Memorial Hospital	Southbridge	269	-- ⁸	67.3	93.7	19.0	1.9
Healthalliance Hospital	Leominster	927	5.0	57.7	86.6	23.3	4.0
Heywood Hospital	Gardner	415	5.3	46.9	80.6	20.0	4.6
Holy Family Hospital and Medical Center	Methuen	973	5.4	44.9	80.9	20.0	5.1
Holyoke Medical Center	Holyoke	437	4.6	61.9	66.1	25.4	4.6
Lawrence General Hospital	Lawrence	1,538	7.0	66.2	75.9	23.5	6.3
Lowell General Hospital	Lowell	2,284	6.3	47.6	74.7	22.6	5.8
Martha's Vineyard Hospital	Oak Bluffs	131	-- ⁸	58.0	91.7	14.5	-- ⁸
Massachusetts General Hospital	Boston	3,899	9.9	23.1	86.0	21.9	7.6
Melrose-Wakefield Hospital	Melrose	960	3.5	37.8	88.0	23.4	5.0
Mercy Medical Center	Springfield	1,210	2.8	56.0	88.5	19.4	4.4
Metro West Medical Center	Framingham	802	6.0	61.8	88.7	22.5	6.0
Milford Regional Medical Center	Milford	973	3.3	35.3	91.1	22.4	3.9
Morton Hospital	Taunton	379	5.5	60.7	77.1	23.7	5.2
Mt. Auburn Hospital	Cambridge	2,787	3.7	17.2	89.1	18.4	3.6
Nantucket Cottage Hospital	Nantucket	127	-- ⁸	55.9	91.3	15.0	-- ⁸
Newton-Wellesley Hospital	Newton	4,610	4.5	4.5	81.0 ⁹	24.0	5.6
North Adams Regional Hospital	North Adams	52	-- ⁸	57.7	88.5	25.0	-- ⁸
North Shore Birth Center	Beverly	107	-- ⁸	23.4	96.3	17.8	-- ⁸
North Shore Medical Center - Salem Hospital	Salem	1,312	6.4	62.4	76.9	22.8	5.0
Norwood Hospital	Norwood	488	3.1	26.7	74.0 ⁹	20.1	3.3
Saint Vincent Hospital	Worcester	2,035	4.7	37.0	79.0	22.4	5.1
South Shore Hospital	Weymouth	3,476	7.0	23.9	90.5	20.7	6.9
St. Elizabeth's Medical Center	Boston	954	15.7	34.5	82.9	24.5	10.1

Table 12. Birth Characteristics by Facility/Location, Massachusetts: 2014

Facility ⁽¹⁾	Location	(2) Occurrence Births (n)	(3) Low Birth weight (%)	(4) Public Pay for PNC (%)	(5) Adequate Prenatal Care (%)	(6) Early Term (%)	(7) Late preterm (%)
St. Luke's Hospital	New Bedford	1,397	6.2	64.2	79.3	25.9	4.4
Sturdy Memorial Hospital	Attleboro	713	4.2	17.0	55.9	14.7	3.5
Tobey Hospital	Wareham	471	3.2	46.3	86.3	13.0	1.9
Tufts Medical Center	Boston	1,156	24.7	44.8	85.4	24.1	12.7
Umass Memorial Medical Center	Worcester	3,968	12.4	47.0	79.3	22.8	9.1
Winchester Hospital	Winchester	1,888	5.1	13.8	72.8 ⁹	21.3	4.7
Other Hospitals		11	-- ⁸	71.4	100.0	-- ⁸	-- ⁸
Home, Enroute & Dr. Off.		435	4.5	20.2	63.3	19.9	1.5

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

1. A licensed maternity facility is a medical unit licensed by the Commonwealth for the care of women during pregnancy and childbirth.
2. Occurrence births are births that occurred at the facility, regardless of where the mother 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. 9. Percent should be interpreted with caution, as this is a facility that was identified as having reporting problems for prenatal care.

Table 13. Resident Teen Birth Characteristics, 30 Largest Municipalities, Massachusetts: 2014

Municipality ¹	Total Population Rank	Female Population, ages 15-19	Number of Teen Births (Ages 15-19)	Teen Birth Rate ²	Mother's Race and Hispanic Ethnicity (% of teen births)			
					White non-Hispanic	Black non-Hispanic	Hispanic	Asian or Other ³
State Total		227,268	2,402	10.6	36.1	12.9	48.0	3.0
Arlington	30	867	-- ⁴	-- ⁴	-- ⁴	-- ⁴	-- ⁴	-- ⁴
Attleboro	29	1,344	18	13.4	72.2	-- ⁴	-- ⁴	-- ⁴
Barnstable	27	1,278	10	7.8	50.0	0.0	-- ⁴	-- ⁴
Boston	1	25,988	276	10.6	7.0	35.1	55.7	2.2
Brockton	7	3,354	88	26.2	19.5	55.2	24.1	-- ⁴
Brookline	18	1,469	0	0.0	0.0	0.0	0.0	0.0
Cambridge	5	3,550	7	2.0	-- ⁴	-- ⁴	-- ⁴	-- ⁴
Chicopee	22	1,881	35	18.6	25.7	-- ⁴	65.7	0.0
Fall River	10	2,781	79	28.4	53.2	15.2	29.1	-- ⁴
Framingham	14	2,351	35	14.9	-- ⁴	-- ⁴	87.9	0.0
Haverhill	15	1,791	41	22.9	46.3	-- ⁴	51.2	0.0
Lawrence	12	3,395	121	35.6	-- ⁴	-- ⁴	95.9	0.0
Lowell	4	4,118	89	21.6	30.3	5.6	38.2	25.8
Lynn	9	3,223	94	29.2	16.9	6.7	69.7	6.7
Malden	17	1,548	14	9.0	-- ⁴	-- ⁴	38.5	-- ⁴
Medford	20	1,683	-- ⁴	-- ⁴	-- ⁴	-- ⁴	-- ⁴	-- ⁴
Methuen	26	1,624	15	-- ⁴	-- ⁴	-- ⁴	66.7	0.0
New Bedford	6	3,037	101	33.3	32.7	14.3	52.0	-- ⁴
Newton	11	4,195	8	-- ⁴	-- ⁴	-- ⁴	-- ⁴	-- ⁴
Peabody	25	1,405	13	-- ⁴	-- ⁴	-- ⁴	58.3	0.0
Pittsfield	28	1,339	32	23.9	71.9	15.6	-- ⁴	0.0
Plymouth	19	1,641	17	10.4	88.2	-- ⁴	-- ⁴	0.0
Quincy	8	1,984	16	8.1	68.8	-- ⁴	-- ⁴	-- ⁴
Revere	24	1,434	30	20.9	20.0	0.0	76.7	-- ⁴
Somerville	13	1,711	22	12.9	28.6	-- ⁴	61.9	-- ⁴
Springfield	3	6,836	239	35.0	6.7	19.7	72.4	-- ⁴
Taunton	21	1,744	17	9.7	81.3	-- ⁴	-- ⁴	0.0
Waltham	16	2,356	20	8.5	-- ⁴	0.0	90.0	0.0
Weymouth	23	1,444	10	6.9	80.0	-- ⁴	-- ⁴	0.0
Worcester	2	7,726	126	16.3	25.4	11.1	60.3	-- ⁴

Table 12 (cont'd). Resident Teen Birth Characteristics, 30 Largest Municipalities, Massachusetts: 2014

Municipality ¹	Public Payment for Prenatal Care ⁵ (%)	Unmarried (%)	Low Birthweight ⁶ (%)	Preterm ⁷ (%)	Adequacy of Prenatal Care ⁸			
					Adequate Intensive	Adequate Basic	Intermediate	Inadequate ⁹
State Total	81.1	92.9	8.2	8.1	38.7	32.5	8.4	20.4
Arlington	0.0	-- ⁴	-- ⁴	-- ⁴	-- ⁴	-- ⁴	0.0	0.0
Attleboro	37.5	94.1	5.6	5.6	33.3	-- ⁴	-- ⁴	44.4
Barnstable	100.0	90.0	-- ⁴	-- ⁴	-- ⁴	-- ⁴	-- ⁴	-- ⁴
Boston	82.8	94.6	12.0	9.7	34.4	37.8	10.8	17.0
Brockton	86.2	95.4	10.2	10.2	40.0	32.9	10.6	16.5
Brookline	0	0	0	0	0	0	0	0
Cambridge	-- ⁴	85.7	-- ⁴	-- ⁴	-- ⁴	-- ⁴	-- ⁴	-- ⁴
Chicopee	88.6	94.3	-- ⁴	-- ⁴	51.4	31.4	-- ⁴	-- ⁴
Fall River	93.2	98.7	8.9	8.9	64.5	9.2	0.0	26.3
Framingham	88.2	94.3	-- ⁴	-- ⁴	41.9	41.9	-- ⁴	-- ⁴
Haverhill	85.4	92.7	12.2	-- ⁴	22.0	46.3	17.1	14.6
Lawrence	88.3	93.4	9.9	10.7	27.3	37.2	14.0	21.5
Lowell	87.2	96.6	5.6	6.7	44.2	19.8	3.5	32.6
Lynn	93.5	85.1	-- ⁴	6.4	31.1	25.6	8.9	34.4
Malden	84.6	85.7	0.0	0.0	46.2	-- ⁴	0.0	-- ⁴
Medford	-- ⁴	-- ⁴	0.0	0.0	0.0	-- ⁴	0.0	-- ⁴
Methuen	86.7	93.3	-- ⁴	-- ⁴	-- ⁴	33.3	0.0	46.7
New Bedford	79.4	93.8	7.9	-- ⁴	37.4	31.3	12.1	19.2
Newton	-- ⁴	100.0	0.0	-- ⁴	-- ⁴	-- ⁴	-- ⁴	-- ⁴
Peabody	61.5	92.3	-- ⁴	-- ⁴	-- ⁴	60.0	0.0	0.0
Pittsfield	71.9	96.9	0.0	-- ⁴	-- ⁴	59.4	21.9	15.6
Plymouth	82.4	94.1	0.0	0.0	64.7	-- ⁴	-- ⁴	0.0
Quincy	75.0	93.8	0.0	-- ⁴	40.0	-- ⁴	-- ⁴	-- ⁴
Revere	78.6	76.7	-- ⁴	-- ⁴	57.1	-- ⁴	-- ⁴	17.9
Somerville	71.4	90.9	-- ⁴	-- ⁴	42.9	28.6	-- ⁴	23.8
Springfield	93.6	94.5	9.6	9.6	38.0	37.2	5.6	19.2
Taunton	81.3	87.5	-- ⁴	-- ⁴	-- ⁴	46.7	0.0	-- ⁴
Waltham	95.0	80.0	0.0	0.0	50.0	35.0	0.0	-- ⁴
Weymouth	50.0	100.0	0.0	0.0	-- ⁴	-- ⁴	-- ⁴	-- ⁴
Worcester	92.1	87.3	10.3	8.7	38.2	27.6	14.6	19.5

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 MDPH population estimates for 2010. 3. Mothers who designated themselves as 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. State total does not include data from Newton Wellesley, Saint Vincent and Winchester hospitals because of reporting problems. 9. Inadequate includes those mothers with no prenatal care.

Table 14. Adequacy of Prenatal Care Utilization: Summary and Component Indices, Massachusetts: 2014

	Adequate Total ¹		Adequate Intensive		Adequate Basic		Intermediate		Inadequate		Unknown
	n	%	n	%	n	%	n	%	n	%	n
<u>Summary Index</u>											
Adequacy of Prenatal Care Utilization	50,186	83.1	26,614	44.1	23,572	39.0	3,450	5.7	6,767	11.2	3,059
<u>Component Indices</u>											
Adequacy of Initiation	36,682	88.8	13,748	33.3	22,934	55.5	2,362	5.7	2,242	5.4	22,176
Adequacy of Received Services (Visits)	37,614	91.1	19,869	48.1	17,745	43.0	2,862	6.9	810	2.0	22,176

NOTE: All percentages are calculated based on the Adequacy of Prenatal Care Utilization (APNCU) Index. **Does not include data from Newton Wellesley, Saint Vincent and Winchester hospitals because of reporting problems.**

1. Adequate Total is the sum of Adequate Intensive and Adequate Basic categories.

Table 15. Birth Characteristics by Race/Hispanic Ethnicity and Source of Prenatal Care Payment, Massachusetts: 2014

Race/Ethnicity and Payment Source	Births ¹		Teen Births				Birthweight			
	n	%	<18 Years		<20 Years		Very Low ²		Low ³	
	n	%	n	%	n	%	n	%	n	%
STATE TOTAL⁴	71,867	100.0	617	0.9	2,419	3.4	894	1.2	5,394	7.5
Public	27,690	39.3	504	1.8	1,921	6.9	374	1.4	2,257	8.2
Medicaid ⁵	23,592	33.5	465	2.0	1,767	7.5	328	1.4	1,954	8.3
Other Public ⁶	4,098	5.8	39	1.0	154	3.8	46	1.1	303	7.4
Private ⁷	41,985	59.6	92	0.2	433	1.0	417	1.0	2,828	6.7
White non-Hispanic	44,128	100.0	169	0.4	858	1.9	478	1.1	3,039	6.9
Public	11,500	26.7	116	1.0	569	4.9	134	1.2	865	7.5
Medicaid ⁵	9,567	22.2	111	1.2	526	5.5	112	1.2	719	7.5
Other Public ⁶	1,933	4.5	5	0.3	43	2.2	22	1.1	146	7.6
Private ⁷	31,181	72.4	47	0.2	256	0.8	276	0.9	1,965	6.3
Black non-Hispanic	7,071	100.0	67	0.9	308	4.4	150	2.1	721	10.2
Public	4,659	66.5	61	1.3	257	5.5	91	2.0	465	10.0
Medicaid ⁵	3,966	56.6	56	1.4	228	5.7	79	2.0	390	9.8
Other Public ⁶	693	9.9	5	0.7	29	4.2	12	1.7	75	10.8
Private ⁷	2,213	31.6	5	0.2	47	2.1	49	2.2	228	10.3
Hispanic	12,670	100.0	344	2.7	1,151	9.1	184	1.5	1,033	8.2
Public	9,199	73.2	303	3.3	1,020	11.1	128	1.4	750	8.2
Medicaid ⁵	8,023	63.9	275	3.4	943	11.8	118	1.5	682	8.5
Other Public ⁶	1,176	9.4	28	2.4	77	6.5	10	0.9	68	5.8
Private ⁷	3,253	25.9	30	0.9	107	3.3	43	1.3	243	7.5
Asian	6,426	100.0	17	0.3	56	0.9	57	0.9	492	7.7
Public	1,730	27.1	13	0.8	45	2.6	16	0.9	141	8.2
Medicaid ⁵	1,525	23.9	13	0.9	42	2.8	14	0.9	129	8.5
Other Public ⁶	205	3.2	0	0.0	-- ⁸	-- ⁸	-- ⁸	-- ⁸	12	5.9
Private ⁷	4,582	71.9	-- ⁸	-- ⁸	10	0.2	37	0.8	336	7.3
Other⁹	624	100.0	--⁸	--⁸	15	2.4	7	1.1	37	5.9
Public	298	50.3	-- ⁸	-- ⁸	12	4.0	-- ⁸	-- ⁸	15	5.0
Medicaid ⁵	249	42.0	-- ⁸	-- ⁸	12	4.8	-- ⁸	-- ⁸	14	5.6
Other Public ⁶	49	8.3	0	0.0	0	0.0	0	0.0	-- ⁸	-- ⁸
Private ⁷	284	47.9	0	0.0	-- ⁸	-- ⁸	-- ⁸	-- ⁸	17	6.0

Table 14 (cont'd). Birth Characteristics by Race/Hispanic Ethnicity and Source of Prenatal Care Payment, Massachusetts: 2014

Race/Ethnicity and Payment Source	Prenatal Care									
	Adequate ¹⁰		Began 1st Trimester		Cesarean Delivery		Breastfeeding ¹¹		Smoking ¹²	
	n	%	n	%	n	%	n	%	n	%
STATE TOTAL⁴	50,186	83.1	38,536	74.8	22,691	31.6	60,422	86.5	4,457	6.4
Public	19,281	76.1	13,212	66.5	8,526	30.8	21,975	80.1	3,312	12.5
Medicaid ⁵	16,484	76.3	11,073	65.9	7,244	30.7	18,536	79.3	2,909	12.9
Other Public ⁶	2,797	75.0	2,139	70.2	1,282	31.3	3,439	84.5	403	10.2
Private ⁷	29,861	89.4	24,620	81.4	13,559	32.3	37,845	90.9	1,010	2.5
White non-Hispanic	31,270	86.2	24,945	78.2	14,058	31.9	36,541	85.6	3,529	8.2
Public	8,178	78.4	5,700	68.0	3,621	31.5	8,374	73.6	2,519	22.7
Medicaid ⁵	6,842	78.8	4,657	67.0	3,012	31.5	6,823	72.1	2,211	24.0
Other Public ⁶	1,336	76.7	1,043	72.6	609	31.5	1,551	80.9	308	16.5
Private ⁷	22,208	90.2	18,658	82.9	10,011	32.1	27,907	90.2	901	2.9
Black non-Hispanic	4,546	71.8	3,195	63.4	2,442	34.5	6,100	87.4	254	3.7
Public	2,893	67.5	1,992	60.0	1,570	33.7	3,961	85.6	219	4.8
Medicaid ⁵	2,471	67.7	1,659	59.2	1,333	33.6	3,353	85.2	187	4.9
Other Public ⁶	422	66.6	333	63.9	237	34.2	608	88.0	32	4.7
Private ⁷	1,622	85.4	1,185	74.9	817	36.9	2,000	91.4	28	1.3
Hispanic	9,011	78.9	6,223	69.4	3,805	30.0	10,786	86.3	534	4.4
Public	6,554	77.0	4,382	67.6	2,675	29.1	7,729	84.8	467	5.3
Medicaid ⁵	5,724	77.1	3,781	67.3	2,333	29.1	6,703	84.3	415	5.4
Other Public ⁶	830	76.4	601	69.5	342	29.1	1,026	87.8	52	4.6
Private ⁷	2,400	87.0	1,799	76.6	1,067	32.8	2,944	91.3	54	1.7
Asian	4,411	85.0	3,484	75.9	1,914	29.8	5,781	91.2	77	1.2
Public	1,284	80.0	869	69.7	468	27.1	1,420	82.9	56	3.3
Medicaid ⁵	1,140	80.1	759	69.2	403	26.4	1,244	82.4	55	3.7
Other Public ⁶	144	79.1	110	73.8	65	31.7	176	86.3	-- ⁸	-- ⁸
Private ⁷	3,083	88.1	2,586	79.1	1,413	30.8	4,297	94.4	19	0.4
Other⁹	410	77.2	301	69.0	193	31.0	520	88.4	57	9.7
Public	189	71.9	139	63.5	92	30.9	244	82.4	45	16.1
Medicaid ⁵	159	73.3	114	63.7	75	30.1	204	82.3	37	16.0
Other Public ⁶	30	65.2	25	62.5	17	34.7	40	83.3	8	16.7
Private ⁷	198	85.0	142	75.9	88	31.0	267	95.0	8	3.0

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

1. In the "Births" column, percentages are based on race/ethnicity category totals (in column). For all other characteristics, percentages are based on the total number of births for the race/ethnicity by payment source for the row. 2. 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. 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. 5. Medicaid/MassHealth. 6. Other Public: CommonHealth, Healthy Start, Medicare, other government programs, and free care. 7. Private: commercial indemnity plans or commercial managed care organizations (HMO, PPO, IPP, or IPA). It does not include Self-Paid/Other. 8. Calculations based on values of 1-4 are excluded. 9. Other: Mothers who designated their race as American Indian or "Other." 10. Based on the Adequacy of Prenatal Care Utilization (APNCU) Index. Does not include data from Newton Wellesley, Saint Vincent and Winchester hospitals because of reporting problems. 11. Infant was being breastfed at time of discharge. 12. Mother reported smoking during pregnancy. Note: Teen births include births to females less than 20, not just those 15-19

**Table 16. Birth Characteristics: Occurrence and Resident Births,
Massachusetts Municipalities: 2014**

Community	Occurrence Births ¹	Resident Births ²			
		Number of births	Low Birthweight (Less than 2,500 grams (5.5 lbs.))	Preterm (<37 weeks gestation)	Teen Births (15-19 years)
STATE TOTAL	72,474	71,867	5,394	6,161	2,402
Abington	0	184	12	13	--
Acton	2	172	17	16	0
Acushnet	0	69	--	--	--
Adams	0	69	--	--	5
Agawam	0	277	15	16	9
Alford	0	2	0	--	0
Amesbury	1	197	24	29	6
Amherst	5	144	--	6	--
Andover	1	268	19	17	--
Arlington	5	572	47	56	--
Ashburnham	1	48	--	7	--
Ashby	0	21	0	--	0
Ashfield	3	9	0	--	0
Ashland	1	208	10	12	--
Athol	4	115	5	5	17
Attleboro	716	482	28	33	18
Auburn	1	161	11	13	--
Avon	0	51	--	--	--
Ayer	0	100	8	7	--
Barnstable	766	409	31	50	10
Barre	0	58	--	6	5
Becket	1	7	--	--	0
Bedford	3	148	11	17	0
Belchertown	3	128	--	5	--
Bellingham	4	166	9	12	--
Belmont	2	294	16	20	--
Berkley	0	59	6	5	--
Berlin	0	22	0	0	0
Bernardston	0	21	--	--	--
Beverly	2,385	423	27	36	7
Billerica	0	421	28	30	--
Blackstone	0	100	5	--	--
Blandford	1	8	0	0	--
Bolton	0	53	5	5	--
Boston	20,262	7,740	686	721	276
Bourne	0	155	11	16	--
Boxborough	0	26	--	--	0
Boxford	0	64	7	9	0
Boylston	0	33	--	5	--
Braintree	0	379	20	30	6
Brewster	0	50	--	--	--
Bridgewater	0	240	11	14	--
Brimfield	2	35	0	0	0
Brockton	1,979	1,468	122	130	88
Brookfield	0	33	--	6	--
Brookline	6	653	48	55	0
Buckland	0	14	0	0	0
Burlington	2	280	26	31	--

**Table 16. Birth Characteristics: Occurrence and Resident Births,
Massachusetts Municipalities: 2014**

Community	Occurrence Births ¹	Resident Births ²			
		Number of births	Low Birthweight (Less than 2,500 grams (5.5 lbs.))	Preterm (<37 weeks gestation)	Teen Births (15-19 years)
Cambridge	3,989	1,262	91	88	7
Canton	0	256	15	17	--
Carlisle	1	20	--	--	0
Carver	0	95	7	6	--
Charlemont	0	9	0	0	0
Charlton	0	129	13	12	--
Chatham	0	28	0	--	0
Chelmsford	1	316	22	26	--
Chelsea	3	707	53	62	59
Cheshire	1	24	--	--	--
Chester	2	13	0	--	--
Chesterfield	0	6	0	0	0
Chicopee	1	600	43	53	35
Chilmark	1	7	0	--	0
Clarksburg	0	5	--	--	0
Clinton	0	182	14	18	6
Cohasset	0	61	0	--	0
Colrain	1	17	--	--	0
Concord	1,183	100	7	12	0
Conway	1	13	0	0	0
Cummington	0	8	--	0	--
Dalton	0	49	--	--	--
Danvers	1	247	9	15	5
Dartmouth	1	228	21	17	7
Dedham	2	297	32	32	7
Deerfield	1	28	--	--	--
Dennis	0	99	7	6	6
Dighton	0	66	5	6	--
Douglas	0	71	--	--	--
Dover	0	38	5	8	--
Dracut	1	326	20	29	--
Dudley	0	93	8	10	--
Dunstable	0	23	--	--	--
Duxbury	1	93	--	7	--
East Bridgewater	0	139	10	12	--
East Brookfield	1	22	--	--	0
East Longmeadow	0	139	5	8	0
Eastham	1	25	--	--	0
Easthampton	4	165	6	12	6
Easton	2	184	9	12	--
Edgartown	1	50	--	--	0
Egremont	1	7	--	--	0
Erving	0	23	--	--	--
Essex	2	34	0	0	--
Everett	1	668	49	63	17
Fairhaven	1	108	--	5	--
Fall River	1,550	1,077	92	86	79
Falmouth	461	225	17	24	5
Fitchburg	1	504	39	46	41
Florida	0	2	0	0	0
Foxborough	0	171	9	16	0

**Table 16. Birth Characteristics: Occurrence and Resident Births,
Massachusetts Municipalities: 2014**

Community	Occurrence Births ¹	Resident Births ²			
		Number of births	Low Birthweight (Less than 2,500 grams (5.5 lbs.))	Preterm (<37 weeks gestation)	Teen Births (15-19 years)
Framingham	805	896	62	72	35
Franklin	2	271	17	26	--
Freetown	0	78	7	5	--
Gardner	416	203	17	18	14
Gay Head	0	2	0	0	0
Georgetown	0	73	--	--	0
Gill	0	10	0	--	0
Gloucester	2	254	17	25	9
Goshen	0	9	--	--	--
Gosnold	0	1	0	0	0
Grafton	2	202	11	12	6
Granby	1	44	--	--	0
Granville	0	11	--	--	0
Great Barrington	131	52	--	--	--
Greenfield	487	199	12	14	11
Groton	1	68	--	--	0
Groveland	0	47	--	--	0
Hadley	2	31	--	--	--
Halifax	1	59	--	10	0
Hamilton	1	86	--	--	0
Hampden	0	32	--	--	--
Hancock	0	4	0	0	--
Hanover	1	127	7	7	--
Hanson	0	80	6	7	--
Hardwick	0	22	0	0	0
Harvard	0	33	--	--	0
Harwich	0	71	5	13	0
Hatfield	1	21	5	5	0
Haverhill	2	766	76	77	41
Hawley	0	2	0	0	0
Heath	1	4	0	0	0
Hingham	1	203	14	23	0
Hinsdale	0	15	--	--	0
Holbrook	0	130	16	16	--
Holden	1	149	10	13	--
Holland	0	18	--	--	--
Holliston	3	119	6	6	--
Holyoke	442	596	47	51	60
Hopedale	0	55	--	--	--
Hopkinton	0	133	5	9	0
Hubbardston	0	38	--	5	0
Hudson	2	237	13	19	5
Hull	1	73	5	5	--
Huntington	0	19	--	--	0
Ipswich	0	88	--	--	0
Kingston	1	111	5	10	--
Lakeville	0	81	5	9	--
Lancaster	0	58	6	7	0
Lanesborough	0	26	--	0	0
Lawrence	1,543	1,347	123	129	121
Lee	1	52	6	8	0

**Table 16. Birth Characteristics: Occurrence and Resident Births,
Massachusetts Municipalities: 2014**

Community	Occurrence Births ¹	Resident Births ²			
		Number of births	Low Birthweight (Less than 2,500 grams (5.5 lbs.))	Preterm (<37 weeks gestation)	Teen Births (15-19 years)
Leicester	0	82	7	7	--
Lenox	0	20	--	--	0
Leominster	933	454	41	45	18
Leverett	0	10	0	0	0
Lexington	2	218	16	21	--
Leyden	0	3	0	0	0
Lincoln	2	84	7	10	0
Littleton	0	82	7	9	--
Longmeadow	0	95	10	11	--
Lowell	2,291	1,520	123	123	89
Ludlow	0	147	7	--	--
Lunenburg	0	88	7	10	--
Lynn	4	1500	121	117	94
Lynnfield	1	125	14	16	0
Malden	2	880	66	61	14
Manchester	0	30	0	--	--
Mansfield	0	204	17	17	--
Marblehead	3	146	9	8	0
Marion	0	29	0	--	--
Marlborough	5	508	29	39	16
Marshfield	2	213	14	15	--
Mashpee	1	109	7	9	6
Mattapoissett	1	35	--	--	0
Maynard	2	122	8	9	--
Medfield	0	100	8	8	0
Medford	7	708	48	68	--
Medway	0	116	--	12	--
Melrose	961	380	18	16	--
Mendon	0	41	--	--	0
Merrimac	1	52	6	7	0
Methuen	974	531	37	45	15
Middleborough	1	217	6	12	6
Middlefield	0	3	0	0	--
Middleton	0	64	--	--	0
Milford	973	354	28	39	12
Millbury	1	131	13	14	--
Millis	0	71	5	8	--
Millville	2	26	0	--	--
Milton	1	324	25	35	--
Monroe	0	0	0	0	0
Monson	0	63	5	--	--
Montague	3	81	--	7	--
Monterey	0	4	0	0	0
Montgomery	0	3	0	--	0
Mount Washington	0	0	0	0	0
Nahant	0	30	8	5	0
Nantucket	127	135	5	7	--
Natick	2	463	31	38	--
Needham	1	262	8	11	--
New Ashford	0	3	0	0	0
New Bedford	1,399	1,257	104	108	101

**Table 16. Birth Characteristics: Occurrence and Resident Births,
Massachusetts Municipalities: 2014**

Community	Occurrence Births ¹	Resident Births ²			
		Number of births	Low Birthweight (Less than 2,500 grams (5.5 lbs.))	Preterm (<37 weeks gestation)	Teen Births (15-19 years)
New Braintree	0	4	0	0	0
New Marlborough	0	7	--	--	0
New Salem	0	8	--	--	0
Newbury	1	40	0	--	0
Newburyport	733	135	--	5	--
Newton	4,616	797	33	53	8
Norfolk	2	92	13	13	0
North Adams	54	142	8	7	13
North Andover	0	264	21	26	--
North Attleborough	2	263	19	22	--
North Brookfield	0	39	--	--	--
North Reading	1	164	11	13	--
Northampton	686	183	10	9	5
Northborough	2	125	7	7	--
Northbridge	1	207	21	24	11
Northfield	2	19	--	--	--
Norton	0	170	10	15	--
Norwell	2	100	9	9	--
Norwood	488	403	37	36	7
Oak Bluffs	131	40	--	--	0
Oakham	0	14	0	--	0
Orange	2	74	--	--	8
Orleans	0	23	--	5	0
Otis	1	9	0	0	0
Oxford	1	117	11	10	--
Palmer	0	113	6	5	--
Paxton	0	29	--	--	0
Peabody	2	528	46	56	13
Pelham	0	6	0	0	0
Pembroke	2	162	8	8	--
Pepperell	0	102	7	13	--
Peru	0	2	0	--	0
Petersham	0	5	0	0	0
Phillipston	0	12	0	--	0
Pittsfield	803	484	36	33	32
Plainfield	1	2	0	0	0
Plainville	1	73	8	8	--
Plymouth	711	525	30	37	17
Plympton	1	31	--	--	0
Princeton	0	27	--	--	0
Provincetown	0	11	--	0	0
Quincy	2	1,207	107	118	16
Randolph	1	396	25	33	7
Raynham	2	143	6	--	5
Reading	1	248	17	18	--
Rehoboth	1	91	12	11	--
Revere	1	755	69	70	30
Richmond	0	4	0	0	0
Rochester	0	37	--	--	0
Rockland	1	209	12	18	5
Rockport	0	38	--	--	--

**Table 16. Birth Characteristics: Occurrence and Resident Births,
Massachusetts Municipalities: 2014**

Community	Occurrence Births ¹	Resident Births ²			
		Number of births	Low Birthweight (Less than 2,500 grams (5.5 lbs.))	Preterm (<37 weeks gestation)	Teen Births (15-19 years)
Rowe	0	2	0	0	0
Rowley	0	53	--	--	0
Royalston	2	11	--	0	0
Russell	0	9	0	0	0
Rutland	0	76	--	--	0
Salem	1,316	489	52	44	13
Salisbury	0	68	7	9	--
Sandisfield	0	7	0	0	0
Sandwich	1	131	10	10	--
Saugus	0	221	22	31	6
Savoy	0	3	0	0	0
Scituate	1	160	11	17	0
Seekonk	1	91	--	--	0
Sharon	2	143	9	12	0
Sheffield	0	23	--	--	--
Shelburne	0	5	0	0	0
Sherborn	0	31	0	--	0
Shirley	0	69	5	5	--
Shrewsbury	2	346	26	27	--
Shutesbury	3	15	0	0	0
Somerset	0	115	14	13	--
Somerville	8	974	74	84	22
South Hadley	1	129	16	20	--
Southampton	0	50	0	--	--
Southborough	0	80	8	7	--
Southbridge	269	240	29	34	19
Southwick	0	68	5	5	0
Spencer	1	115	7	14	--
Springfield	5,409	2,164	198	240	239
Sterling	0	45	--	7	--
Stockbridge	0	12	0	--	--
Stoneham	0	235	23	20	--
Stoughton	2	315	20	34	--
Stow	0	55	--	--	0
Sturbridge	2	89	8	8	--
Sudbury	1	132	--	8	0
Sunderland	1	25	--	0	--
Sutton	3	88	9	6	--
Swampscott	0	133	8	9	0
Swansea	0	133	13	12	5
Taunton	381	643	65	71	17
Templeton	0	72	--	5	7
Tewksbury	2	295	28	41	--
Tisbury	0	35	--	--	0
Tolland	0	4	--	--	0
Topsfield	1	44	0	--	0
Townsend	2	80	--	--	--
Truro	0	6	0	0	--
Tyngsborough	0	123	10	11	--
Tyringham	0	1	0	0	0
Upton	0	50	5	5	--

**Table 16. Birth Characteristics: Occurrence and Resident Births,
Massachusetts Municipalities: 2014**

Community	Occurrence Births ¹	Resident Births ²			
		Number of births	Low Birthweight (Less than 2,500 grams (5.5 lbs.))	Preterm (<37 weeks gestation)	Teen Births (15-19 years)
Uxbridge	1	134	9	12	--
Wakefield	0	286	24	19	--
Wales	0	18	--	--	0
Walpole	0	264	16	17	--
Waltham	4	831	56	77	20
Ware	0	83	7	7	--
Wareham	473	218	14	11	7
Warren	1	41	5	7	--
Warwick	0	3	0	0	0
Washington	0	5	0	--	0
Watertown	1	466	22	26	--
Wayland	0	123	6	12	--
Webster	0	212	14	16	12
Wellesley	3	220	17	26	0
Wellfleet	0	15	--	--	0
Wendell	0	6	0	0	--
Wenham	0	24	--	--	0
West Boylston	0	49	--	--	0
West Bridgewater	0	77	5	9	--
West Brookfield	0	24	--	--	0
West Newbury	0	31	--	--	0
West Springfield	0	325	23	27	8
West Stockbridge	0	11	--	--	0
West Tisbury	1	24	--	--	0
Westborough	1	205	19	17	--
Westfield	0	391	31	42	16
Westford	1	183	9	15	--
Westhampton	1	7	0	--	--
Westminster	0	55	--	6	0
Weston	0	55	--	--	0
Westport	1	114	6	--	5
Westwood	0	115	5	7	0
Weymouth	3,479	663	52	55	10
Whately	0	11	--	0	0
Whitman	0	188	13	16	9
Wilbraham	0	98	6	9	0
Williamsburg	1	14	--	--	0
Williamstown	1	32	0	0	0
Wilmington	0	233	8	15	--
Winchendon	1	106	13	12	7
Winchester	1,890	206	14	14	0
Windsor	0	3	0	0	0
Winthrop	0	179	17	21	--
Woburn	2	506	30	36	7
Worcester	6,013	2,441	203	210	126
Worthington	0	11	--	--	0
Wrentham	2	80	--	--	0
Yarmouth	4	174	10	12	--

1. Births occurring in a geographical place (state, city/town) regardless of the residency of the mother. 2. Births to mothers who report their usual place of residence as a particular geographical place (state, or city/town).

-- Due to small numbers (n=1-4), exact count not provided.

Table 17. Birth Characteristics: Occurrence and Resident Births, by County, Massachusetts: 2014

County	Occurrence Births ¹	Number	Resident Births ²		
			Low Birthweight ³	Preterm ⁴	Teen Births (15-19 years)
STATE TOTAL	72,474	71,867	5,394	6,161	2,402
BARNSTABLE	1,234	1,531	111	156	39
BERKSHIRE	994	1,086	76	75	57
BRISTOL	4,057	5,575	443	450	256
DUKES	134	159	8	10	0
ESSEX	6,974	8,440	678	740	341
FRANKLIN	505	611	31	39	31
HAMPDEN	5,857	5,227	413	491	381
HAMPSHIRE	706	1,063	63	74	30
MIDDLESEX	15,805	17,569	1,190	1,410	297
NANTUCKET	127	135	5	7	-- ⁵
NORFOLK	3,998	7,317	534	653	80
PLYMOUTH	3,180	5,154	337	412	163
SUFFOLK	20,266	9,381	825	874	369
WORCESTER	8,636	8,618	680	770	355

1. Births occurring in a geographical place (state, city/town) regardless of the residency of the mother. 2. Births to mothers who report their usual place of residence as a particular geographical place (state, or city/town). See Glossary 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 18. Birth Characteristics: Occurrence and Resident Births, Massachusetts Community Health Network Areas (CHNAs), Massachusetts: 2014

Community Health Network Area	Occurrence Births ¹	Number	LBW ³	Resident Births ²	
				Preterm ⁴	Teen Births (15-19 years)
STATE TOTAL	72,474	71,867	5,394	6,161	2,402
1. Community Health Network of Berkshire County	994	1,086	76	75	57
2. Upper Valley Health Web (Franklin County)	511	754	37	45	48
3. Partnership for Health in Hampshire County (Northampton)	706	1,044	61	72	30
4. The Community Health Connection (Springfield)	5,410	3,409	279	332	265
5. Community Health Network of Southern Worcester County	277	1,225	111	129	52
6. Community Partners for Health (Milford)	986	1,679	113	151	41
7. Community Health Network of Greater Metro West (Framingham)	829	4,288	271	333	77
8. Community Wellness Coalition (Worcester)	6,020	3,623	288	305	143
9. Fitchburg/Gardner Community Health Network	1,355	2,602	188	239	113
10. Greater Lowell Community Health Network	2,296	3,207	244	278	108
11. Greater Lawrence Community Health Network	2,518	2,474	203	220	138
12. Greater Haverhill Community Health Network	738	1,526	132	148	52
13. Community Health Network North (Beverly/Gloucester)	2,391	1,021	54	71	20
14. North Shore Community Health Network	1,327	3,419	289	301	131
15. Greater Woburn/Concord/Littleton Community Health Network	3,087	2,075	148	185	13
16. North Suburban Health Alliance (Medford/Malden/Melrose)	973	3,569	256	278	39
17. Greater Cambridge/Somerville Community Health Network	4,005	3,568	250	274	35
18. West Suburban Health Network (Newton/Waltham)	4,626	2,615	159	217	38
19. Alliance for Community Health (Boston/Chelsea/Revere/Winthrop)	20,272	10,034	873	929	369
20. Blue Hills Community Health Alliance (Greater Quincy)	3,978	4,368	329	392	54
21. Four (For) Communities (Holyoke, Chicopee, Ludlow, Westfield)	445	1,766	130	154	115
22. Greater Brockton Community Health Network	1,983	2,976	220	258	114
23. South Shore Community Partners in Prevention (Plymouth)	721	1,705	95	126	37
24. Greater Attleboro-Taunton Health & Education Response	1,102	2,510	183	207	57
25. Partners for a Healthier Community (Fall River)	1,551	1,439	125	114	90
26. Greater New Bedford Health & Human Services Coalition	1,875	2,059	156	155	124
27. Cape and Islands Community Health Network	1,495	1,825	124	173	42

Births occurring in a geographical place (state, city/town) regardless of the residency of the mother. 2. Births to mothers who report their usual place of residence as a particular geographical place (state, city/town). 3. Less than 2,500 grams (5.5 lbs.). 4. Less than 37 weeks gestation

Figure 6. Percent of Infants whose Mother Smoked During Pregnancy, Massachusetts: 1990 - 2014

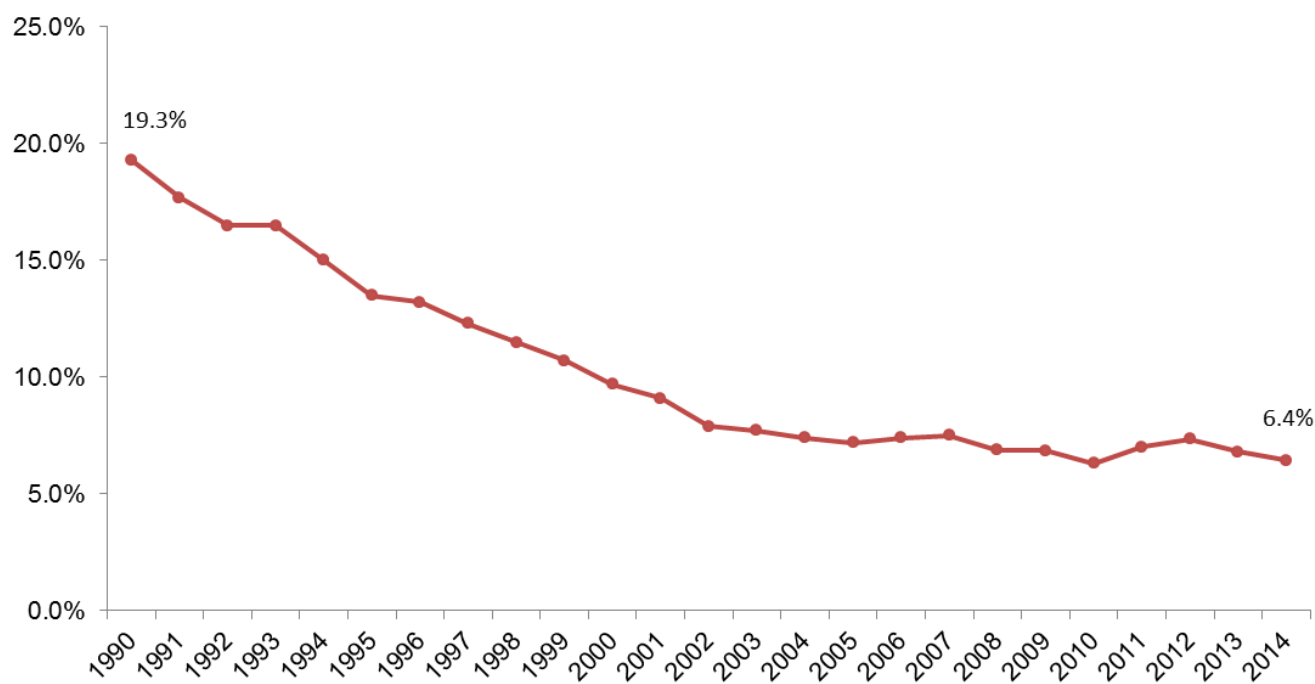


Table 19. Cesarean Deliveries and Vaginal Births after Cesarean (VBACs) by Licensed Maternity Facility, All Mothers, Massachusetts: 2014

Facility ¹	Occurrence Births ²	Total Cesareans		Primary Cesareans ²		Repeat Cesareans ²		VBACs ²	
		N	% ³	N	%	N	%	N	%
State Total	70,910	21,820	30.8	12,246	20.5	9,574	85.9	1,572	14.1
Anna Jaques Hospital	722	216	29.9	131	21.5	85	75.2	28	24.8
Baystate Franklin Medical Center	476	128	26.9	78	18.9	50	79.4	13	20.6
Baystate Medical Center	4,076	1,253	30.7	689	20.4	564	80.7	135	19.3
Berkshire Medical Center	787	197	25.0	111	16.3	86	81.1	20	18.9
Beth Israel Deaconess Hospital - Plymouth	689	201	29.2	110	19.1	91	81.3	21	18.8
Beth Israel Deaconess Medical Center	4,855	1,500	30.9	920	22.1	580	83.0	119	17.0
Beverly Hospital	2,238	586	26.2	316	16.4	270	86.3	43	13.7
Boston Medical Center	2,585	786	30.4	514	22.7	272	84.5	50	15.5
Brigham and Women's Hospital	6,293	1,926	30.6	1,129	21.5	797	75.9	253	24.1
Brockton Hospital	968	340	35.1	160	20.8	180	90.5	19	9.5
Cambridge Hospital	1,057	247	23.4	140	15.1	107	84.3	20	15.7
Cape Cod Hospital	753	231	30.7	121	19.2	110	89.4	13	10.6
Charlton Memorial Hospital	1,532	516	33.7	276	21.4	240	99.6	1	-- ⁴
Cooley Dickinson Hospital	673	220	32.7	143	24.4	77	87.5	11	12.5
Emerson Hospital	1,162	366	31.5	175	18.6	191	85.7	32	14.3
Fairview Hospital	129	31	24.0	18	15.5	13	100.0	0	0.0
Falmouth Hospital	453	169	37.3	94	25.0	75	97.4	2	-- ⁴
Good Samaritan Medical Center	987	383	38.8	216	26.6	167	96.0	7	4.0
Harrington Memorial Hospital	268	60	22.4	26	11.1	34	100.0	0	0.0
Healthalliance Hospital	916	246	26.9	126	15.9	120	95.2	6	4.8
Heywood Hospital	412	81	19.7	53	14.1	28	75.7	9	24.3
Holy Family Hospital and Medical Center	962	449	46.7	257	33.6	192	98.0	4	-- ⁴
Holyoke Medical Center	432	100	23.1	51	14.3	49	65.3	26	34.7
Lawrence General Hospital	1,510	527	34.9	237	19.7	290	93.9	19	6.1
Lowell General Hospital	2,249	696	30.9	374	19.8	322	88.7	41	11.3
Martha's Vineyard Hospital	130	35	26.9	20	17.5	15	93.8	1	-- ⁴
Massachusetts General Hospital	3,772	1,069	28.3	642	19.8	427	80.3	105	19.7
Melrose-Wakefield Hospital	951	319	33.5	171	21.3	148	100.0	0	0.0
Mercy Medical Center	1,198	339	28.3	192	18.6	147	89.1	18	10.9
Metro West Medical Center	791	295	37.3	145	23.1	150	91.5	14	8.5
Milford Regional Medical Center	966	298	30.9	146	18.3	152	91.0	15	9.0
Morton Hospital	376	136	36.2	81	25.3	55	98.2	1	-- ⁴
Mt. Auburn Hospital	2,744	613	22.3	391	16.1	222	70.7	92	29.3

Table 19. Cesarean Deliveries and Vaginal Births after Cesarean (VBACs) by Licensed Maternity Facility, All Mothers, Massachusetts: 2014

Facility ¹	Occurrence Births ²	Total Cesareans		Primary Cesareans ²		Repeat Cesareans ²		VBACs ²	
		N	% ³	N	%	N	%	N	%
Nantucket Cottage Hospital	127	41	32.3	21	19.6	20	100.0	0	0.0
Newton-Wellesley Hospital	4,514	1,401	31.0	746	19.5	655	94.2	40	5.8
North Adams Regional Hospital	51	12	23.5	6	13.3	6	100.0	0	0.0
North Shore Medical Center - Salem Hospital	1,293	407	31.5	206	19.1	201	93.5	14	6.5
Norwood Hospital	485	154	31.8	80	20.0	74	88.1	10	11.9
Saint Vincent Hospital	2,005	624	31.1	367	21.7	257	82.4	55	17.6
South Shore Hospital	3,394	1,239	36.5	679	24.6	560	88.5	73	11.5
St. Elizabeth's Medical Center	919	332	36.1	197	25.7	135	88.8	17	11.2
St. Luke' Hospital	1,374	458	33.3	218	19.2	240	100.0	0	0.0
Sturdy Memorial Hospital	709	260	36.7	140	24.3	120	90.2	13	9.8
Tobey Hospital	469	98	20.9	53	12.5	45	100.0	0	0.0
Tufts Medical Center	1,089	435	39.9	278	31.0	157	81.8	35	18.2
Umass Memorial Medical Center	3,839	1,103	28.7	619	19.2	484	79.2	127	20.8
Winchester Hospital	1,850	696	37.6	382	25.4	314	90.0	35	10.0

NOTE: For the first time, this table is based on mothers and not births. All percentages are calculated based on only those mothers with known values for the characteristic(s) of interest

1. A licensed maternity facility is a medical unit licensed by the Commonwealth for the care of women during pregnancy and childbirth.

2. The percentages provided in this table are based on occurrence births, and may differ from data that are based on resident births presented elsewhere in this book. 3. The percentage of Cesarean births reported is not adjusted for risk factors such as mother's 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. 4. Calculations based on values of 1-4 are excluded.

Figure 7. Maternal Body Mass Index (BMI) Prior to Pregnancy, Massachusetts: 2014

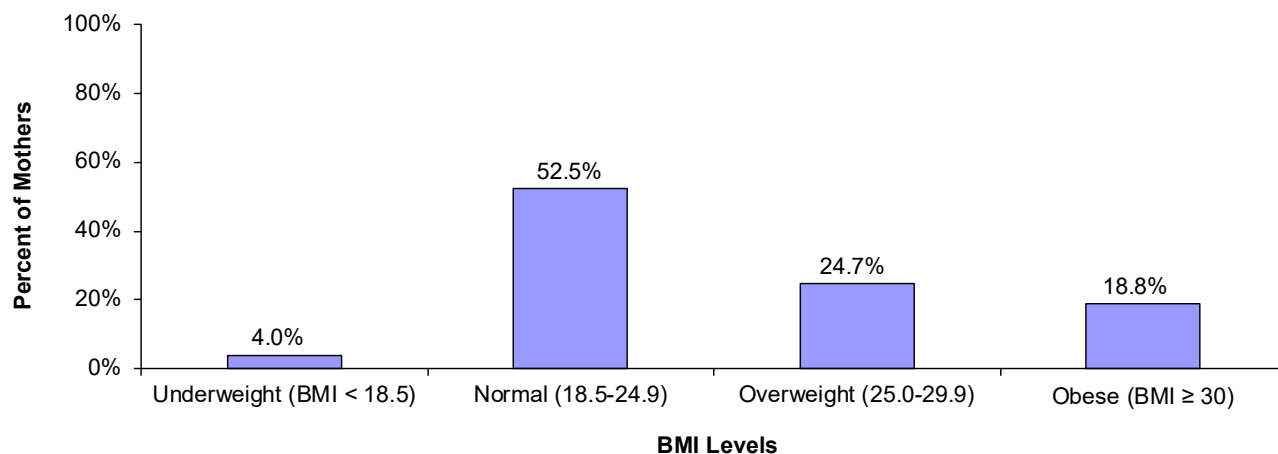
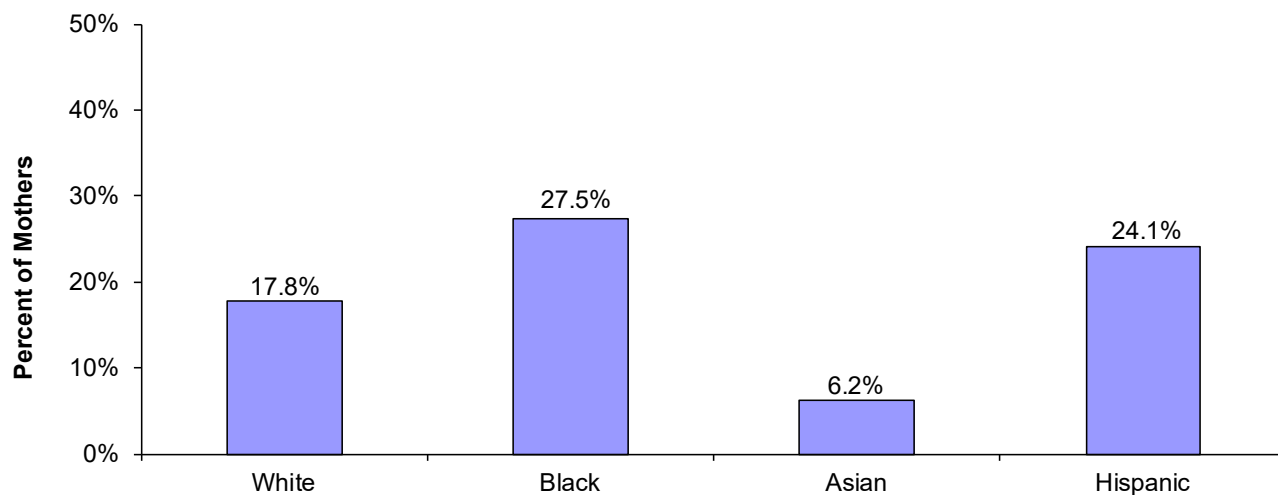


Figure 8. Obesity Prior to Pregnancy by Race and Hispanic Ethnicity, Massachusetts: 2014



Note: These figures are based on mothers and not births

Figure 9. Mothers who Reported Having Their Teeth Cleaned During Pregnancy by Race /Hispanic Ethnicity, Massachusetts: 2014

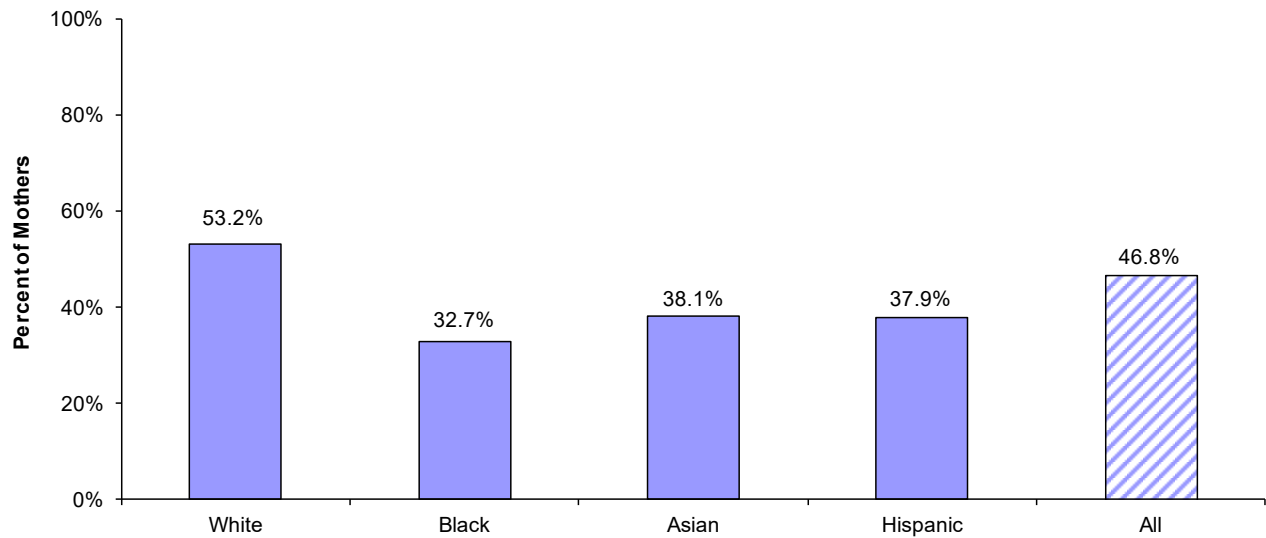
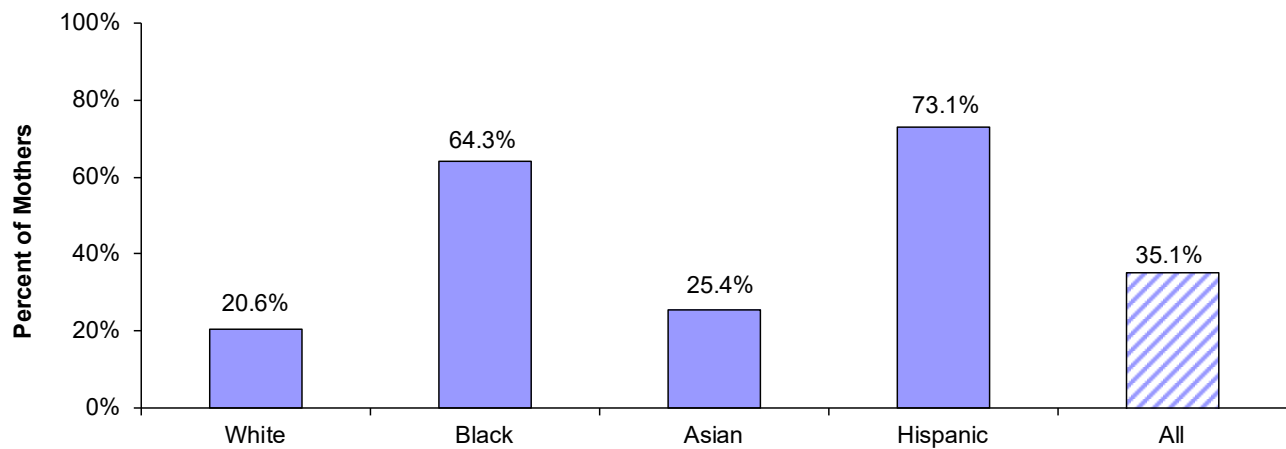
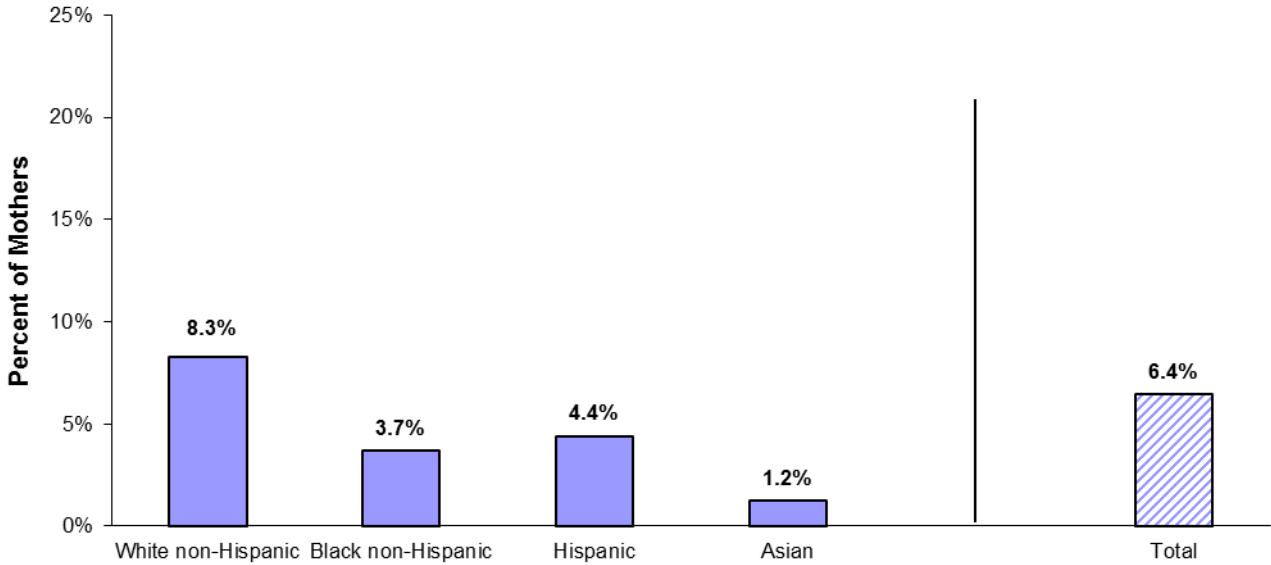


Figure 10. Mothers who Reported Having Received WIC Food During Pregnancy by Race/ Hispanic Ethnicity, Massachusetts: 2014



Note: These figures are based on mothers and not births

Figure 11. Mothers who Reported Smoking During Pregnancy by Race/Hispanic Ethnicity, Massachusetts: 2014



Note: This figure is based on mothers and not births

Table 20. Mothers¹ Who Used Infertility Treatments, Massachusetts: 2014

	Assisted Reproductive Technology (ART) with or without Artificial Insemination and/or Fertility Drugs ²		Artificial Insemination with or without Fertility Drugs ³		Fertility Enhancing Drugs Only ⁴	
	N	% ⁵	N	% ⁵	N	% ⁵
State total	2084	68.6%	465	15.3%	490	16.1%
Maternal Demographics						
Race/Hispanic Ethnicity	N	% ⁶	N	% ⁶	N	% ⁶
White non-Hispanic	1637	79.5%	382	82.9%	366	69.7%
Black non-Hispanic	79	3.8%	12	2.6%	20	3.8%
Asian	221	10.7%	49	10.6%	59	11.2%
Hispanic	112	5.4%	17	3.7%	79	15.0%
Other	11	0.5%	-- ¹⁰	-- ¹⁰	-- ¹⁰	-- ¹⁰
Birthplace						
US States / D.C./US Terr.	1613	77.4%	384	82.6%	368	75.1%
Non-US-born	471	22.6%	81	17.4%	122	24.9%
Prenatal care funding						
Public	106	5.1%	50	10.8%	-- ¹⁰	-- ¹⁰
Private, other	1971	94.9%	415	89.2%	63	98.4%
Age						
20-29	144	6.9%	54	11.6%	98	20.0%
30-34	684	32.8%	201	43.2%	218	44.6%
35-39	799	38.3%	165	35.5%	138	28.2%
40+	457	21.9%	45	9.7%	35	7.2%
Pregnancy-Related Factors						
Adequacy of Prenatal Care⁷	1166	92.6%	257	92.1%	252	91.3%
Adequate Total ⁸	769	61.1%	150	53.8%	152	55.1%
Adequate Intensive	397	31.5%	107	38.4%	100	36.2%
Adequate Basic	36	2.9%	7	2.5%	-- ¹⁰	-- ¹⁰
Intermediate	57	4.5%	15	5.4%	20	7.2%
Inadequate/None	1166	92.6%	257	92.1%	252	91.3%
Parity⁹						
1	1357	65.1%	342	73.7%	288	58.8%
2	560	26.9%	98	21.1%	167	34.1%
3+	167	8.0%	24	5.2%	35	7.1%
Birth Outcomes						
Gestational age						
< 28 weeks (extremely preterm)	34	1.63%	5	1.08%	-- ¹⁰	-- ¹⁰
< 37 weeks (preterm) ¹¹	448	21.50%	56	12.04%	68	13.88%
37+	1636	78.50%	409	87.96%	422	86.12%
Plurality						
Singleton	1622	77.83%	425	91.40%	436	88.98%
Multiple birth	462	22.17%	40	8.60%	54	11.02%

NOTE: In 2014, questions about fertility assistance were asked on both the hospital and mother's worksheets. This table shows combined data from both sources. While asking mothers 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 mothers with known values for the characteristic(s) of interest, unless otherwise stated. Often women use more than one method of treatment, and the categories presented are mutually exclusive.

1. The unit of analysis for this table is unique mothers, not births. 2. This category includes all women who used ART (typically IVF) and those who used any additional treatments. 3. This category includes women who used artificial insemination (including intrauterine insemination) and those who used fertility drugs in addition. 4. This category includes women who only used fertility drugs. 5. For state total row, percentages are based on total births where infertility treatment was present. 6. Percent is based on state total of the treatment methods. 7. Based on Adequacy of Prenatal Care Utilization (APNCU) Index. Does not include data from Newton Wellesley, Saint Vincent and Winchester hospitals because of reporting problems. 8. Adequate Total = Adequate Basic + Adequate Intensive. 9. Number of live births including the current birth. 10. Numbers and calculations based on 1-4 events are excluded. 11. 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, 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 maternal 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 minority 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 mother’s race and ancestry.

2003 revision

Mother/Parent Race

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

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

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

<input type="checkbox"/> African (specify): _____ <input type="checkbox"/> African-American <input type="checkbox"/> American <input type="checkbox"/> Asian Indian <input type="checkbox"/> Brazilian <input type="checkbox"/> Cambodian <input type="checkbox"/> Cape Verdean <input type="checkbox"/> Caribbean Islander (specify): _____ <input type="checkbox"/> Chinese <input type="checkbox"/> Colombian <input type="checkbox"/> Cuban <input type="checkbox"/> Dominican <input type="checkbox"/> European (specify): _____ <input type="checkbox"/> Filipino <input type="checkbox"/> Guatemalan <input type="checkbox"/> Haitian <input type="checkbox"/> Honduran	<input type="checkbox"/> Japanese <input type="checkbox"/> Korean <input type="checkbox"/> Laotian <input type="checkbox"/> Mexican, Mexican American, Chicano <input type="checkbox"/> Middle Eastern (specify): _____ <input type="checkbox"/> Native American (specify tribal nation(s)): _____ <input type="checkbox"/> Portuguese <input type="checkbox"/> Puerto Rican <input type="checkbox"/> Russian <input type="checkbox"/> Salvadoran <input type="checkbox"/> Vietnamese <input type="checkbox"/> Other Asian (specify): _____ <input type="checkbox"/> Other Central American (specify): _____ <input type="checkbox"/> Other Pacific Islander (specify): _____ <input type="checkbox"/> Other Portuguese (specify): _____ <input type="checkbox"/> Other South American (specify): _____ <input type="checkbox"/> 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 *one* category that *best describes* the mother's ancestry of ethnic heritage:

HISPANIC/LATINA

- 1 ☐ Puerto Rican 7 ☐ Other Central American (specify)
2 ☐ Dominican
3 ☐ Mexican 8 ☐ Other South American (specify)
4 ☐ Cuban
5 ☐ Colombian 9 ☐ Other Hispanic/Latina (specify):
6 ☐ Salvadoran

ASIAN/PACIFIC ISLANDER

- 10 ☐ Chinese 17 ☐ Laotian
11 ☐ Vietnamese 18 ☐ Pakistani
12 ☐ Cambodian 19 ☐ Thai
13 ☐ Asian Indian 20 ☐ Hawaiian
14 ☐ Korean 21 ☐ Other Asian/Pacific Islander(specify)
15 ☐ Filipino
16 ☐ Japanese

PORTUGUESE SPEAKING

- 22 ☐ Cape Verdean 24 ☐ Other Portuguese (specify):
23 ☐ Brazilian

WEST INDIAN/CARIBBEAN ISLANDER

- 25 ☐ Haitian 28 ☐ Other West Indian/Caribbean
Islander (specify):
26 ☐ Jamaican
27 ☐ Barbadian

AFRICAN/AFRICAN AMERICAN

- 29 ☐ African-American/ Afro-American
30 ☐ Nigerian
31 ☐ Other African (specify):

MIDDLE EASTERN

- 32 ☐ Lebanese
33 ☐ Iranian
34 ☐ Israeli
35 ☐ Other Middle Eastern (specify):

AMERICAN ANCESTRY

- 36 ☐ Native American/ American Indian
(specify tribe/affiliation):
37 ☐ American

EUROPEAN and OTHER ancestries

- 38 ☐ European (specify):
39 ☐ Other (specify):

Table A1. 2014 Massachusetts Population Estimates by Age Group, Gender, Race/Hispanic Ethnicity (mutually exclusive)

Age Group	Total ¹	White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian Non-Hispanic	Hispanic ²
Female						
0 to 4	178,744	112,585	17,110	453	13,848	34,748
5 to 9	183,986	120,691	17,369	453	13,562	31,911
10 to 14	194,908	133,907	17,103	486	13,399	30,013
15 to 19	227,268	158,872	19,877	567	16,065	31,887
20 to 24	245,340	167,635	22,093	640	20,271	34,701
25 to 29	242,373	166,924	19,668	569	23,493	31,719
30 to 34	226,091	154,367	18,258	505	22,360	30,601
35 to 39	206,180	141,269	17,131	422	19,668	27,690
40 to 44	221,950	161,174	16,762	451	18,539	25,024
45 to 49	243,447	188,136	17,037	570	15,080	22,624
50+	1,304,297	1,112,185	69,102	2,580	52,046	68,384
All Females	3,474,584	2,617,745	251,510	7,696	228,331	369,302
Male						
0 to 4	187,311	117,923	18,276	456	14,282	36,374
5 to 9	192,336	126,131	18,483	475	14,070	33,177
10 to 14	203,255	140,372	17,965	509	13,279	31,130
15 to 19	229,928	161,591	19,811	571	14,623	33,332
20 to 24	246,052	167,256	22,577	704	19,078	36,437
25 to 29	240,357	166,104	19,667	612	20,461	33,513
30 to 34	221,581	152,762	17,054	477	20,024	31,264
35 to 39	198,769	137,611	16,028	368	17,570	27,192
40 to 44	210,833	154,625	15,309	471	17,276	23,152
45 to 49	231,766	180,770	15,795	547	13,902	20,752
50+	1,108,636	949,540	55,884	2,390	45,241	55,581
All Males	3,270,824	2,454,685	236,849	7,580	209,806	361,904
0 to 4	366,055	230,508	35,386	909	28,130	71,122
5 to 9	376,322	246,822	35,852	928	27,632	65,088
10 to 14	398,163	274,279	35,068	995	26,678	61,143
15 to 19	457,196	320,463	39,688	1,138	30,688	65,219
20 to 24	491,392	334,891	44,670	1,344	39,349	71,138
25 to 29	482,730	333,028	39,335	1,181	43,954	65,232
30 to 34	447,672	307,129	35,312	982	42,384	61,865
35 to 39	404,949	278,880	33,159	790	37,238	54,882
40 to 44	432,783	315,799	32,071	922	35,815	48,176
45 to 49	475,213	368,906	32,832	1,117	28,982	43,376
50+	2,412,933	2,061,725	124,986	4,970	97,287	123,965
State Total	6,745,408	5,072,430	488,359	15,276	438,137	731,206

1. National Center for Health Statistics. Postcensal estimates of the resident population of the United States for July 1, 2010-July 1, 2014, by year, county, single-year of age (0, 1, 2, ..., 85 years and over), bridged race, Hispanic origin, and sex (Vintage 2013). Prepared under a collaborative arrangement with the U.S. Census Bureau. Available from: http://www.cdc.gov/nchs/nvss/bridged_race.htm as of July 2015, following release by the U.S. Census Bureau of the unbridged Vintage 2014 postcensal estimates by 5-year age.

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.