Public Health
Prevent. Promote. Protect.
Frederick County Health Department

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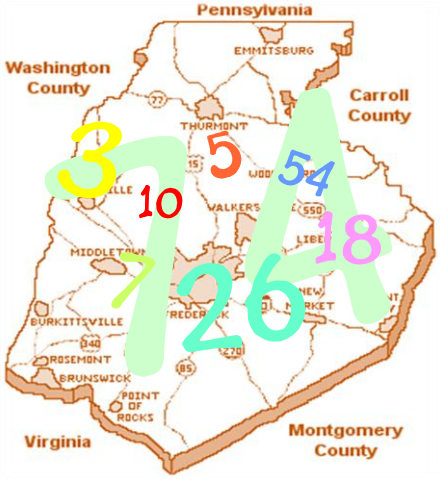
Frederick County MCH Health Indicator Data Review FY 2013

= POSITIVE TREND



= NEEDS IMPROVEMENT

Infant Mortality Frederick

Infant Mortality	Frederick 2010	Frederick 2011	Trend	MD S.H.I.P.	Healthy People 2020
ALL	3.2	3.6		6.6	6
WHITE	3	2.2			
BLACK	*	16.3^			
DISPARITY	*	7.4			

^Please note: The 5 year IMR disparity aggregate review of the last 6 years revealed an average Black to White racial disparity of 2.7

* Rates are not shown for areas with less than 5 infant deaths since rates are based on small numbers are statistically unreliable

Source: Maryland Vital Statistics Administration

Infant Mortality Frederick, Aggregate Review

INFANT MORTALITY AGGREGATE ANALYSIS	2002-2005	2007-2011	TREND
	5.2	4.6	

Source: Maryland Vital Statistics Administration, Infant Mortality in Maryland, 2011 Report

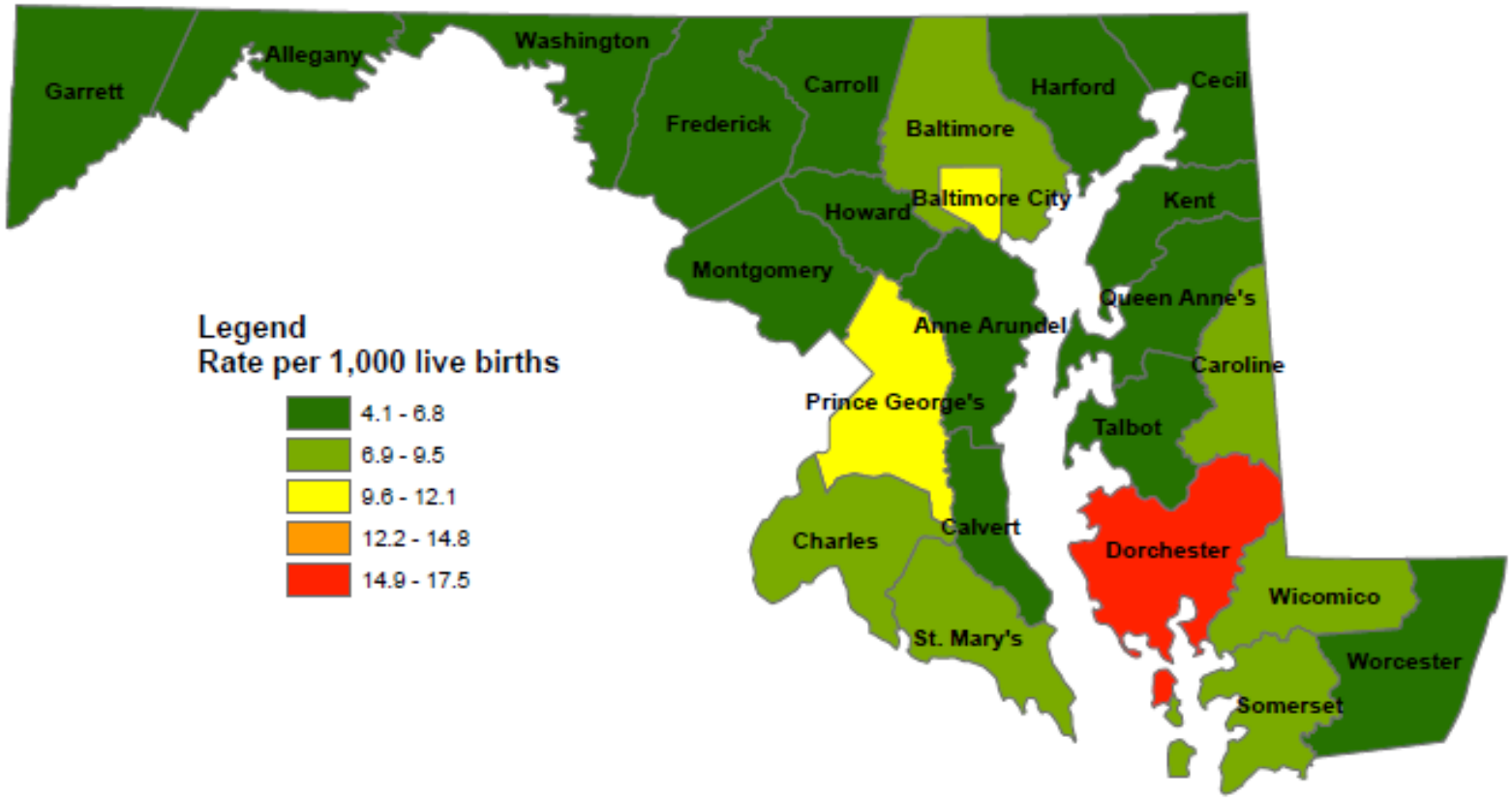
Infant Mortality Frederick, Neighboring Counties & Maryland

FREDERICK 2011	WASHINGTON 2011	CARROLL 2011	MARYLAND 2011
3.6	*	*	**6.7**

* Rates are not shown for areas with less than 5 infant deaths since rates are based on small numbers are statistically unreliable

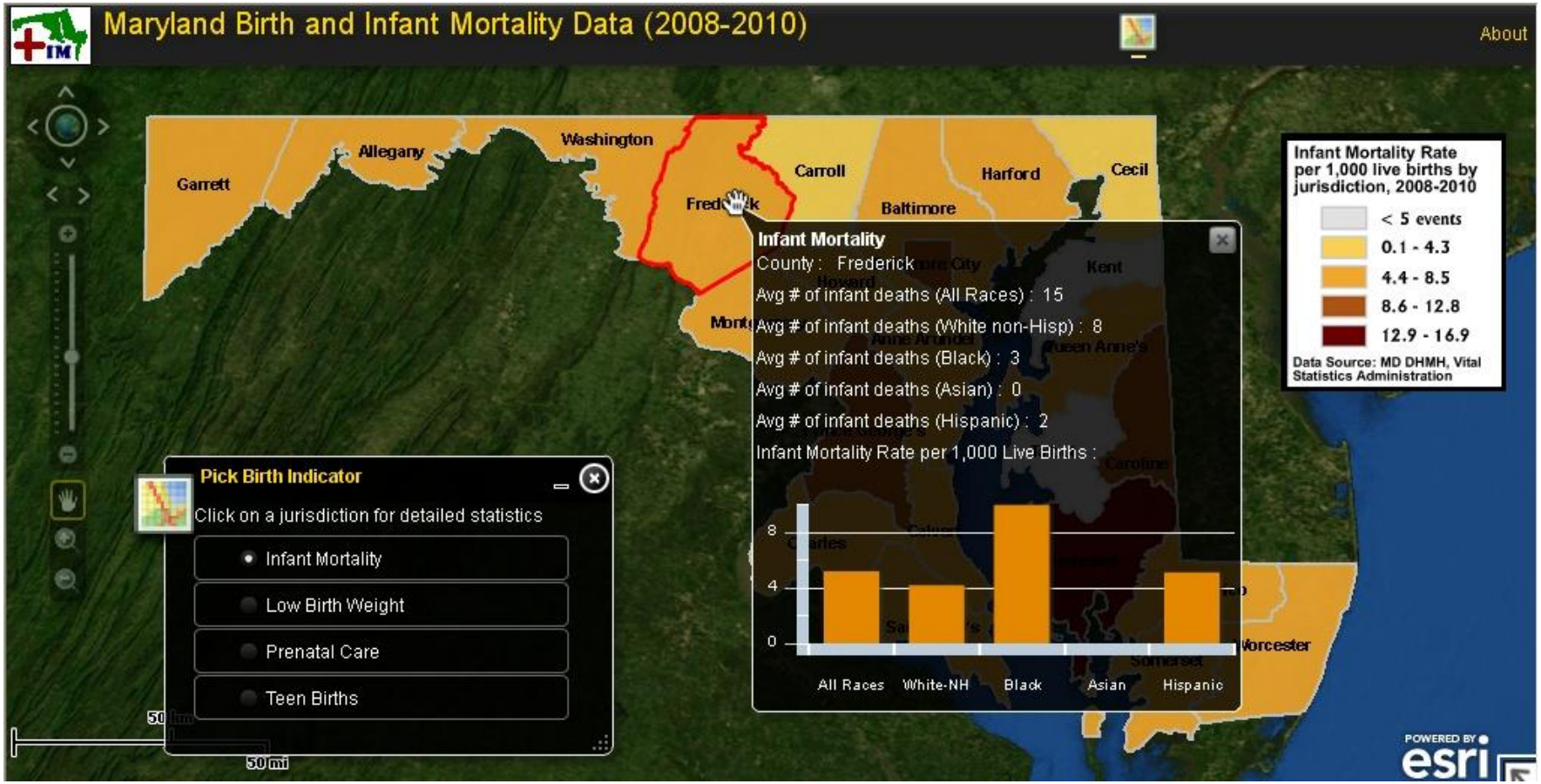
Source: Maryland Vital Statistics Administration, Infant Mortality in Maryland, 2011 Report

Infant Mortality Rate by Jurisdiction, Maryland, 2006-2010



Data Source: MD DHMH, Vital Statistics Administration

Frederick County Snapshot



Source:
http://ideha.dhmh.maryland.gov/apps/InfantMortality/default.htm

Pre Term Births [2]

FREDERICK 2011	MARCH OF DIMES GOAL 2020	HEALTHY PEOPLE 2020
9.3%	9.6%	11.4%

2. Preterm Births are defined as live births occurring between 20 and 36 weeks gestation.

Sources:
•http://dhmh.maryland.gov/vsa/SitePages/reports.aspx
•http://www.marchofdimes.com/peristats/pdflib/998/MD.pdf
•http://www.healthypeople.gov/2020/topicsobjectives2020/objectiveslist.aspx?topicId=26

Pre Term Births
Neighboring Counties & Maryland

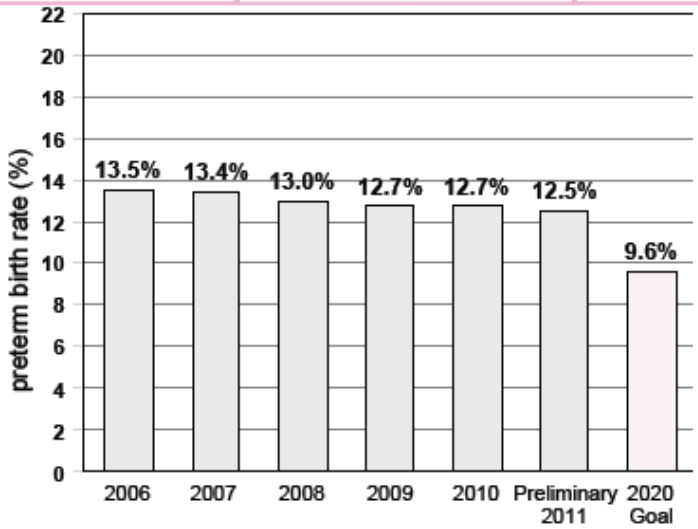
FREDERICK 2011	CARROLL 2011	WASHINGTON 2011	MARYLAND 2011
9.3%	9.1%	8.3%	12.5%

March of Dimes 2012 Premature Birth Report Card

The March of Dimes grades states by comparing each state's rate of preterm birth to the March of Dimes 2020 goal of 9.6 percent. Preterm birth is the leading cause of newborn death in the United States. We don't yet understand all the factors that contribute to preterm birth. The nation must continue to make progress in research to identify causes and prevention strategies, and on interventions and quality improvement initiatives to improve outcomes.

Maryland

Goal	Rate	Grade
9.6%	12.5%	C



Source:
http://www.marchofdimes.com/peristats/pdflib/998/MD.pdf

March of Dimes 2012 Premature Birth Report Card

Grading Methodology

A grade was assigned based on how many standard deviations each jurisdiction's rate was from the goal. The grade ranges were established in 2011 using the following formula: (2009 preliminary preterm birth rate — 9.6) / standard deviation of preliminary 2009 state and D.C. preterm birth rates. Scores were rounded to one decimal place. All grade calculations conducted by the March of Dimes Perinatal Data Center.

Grade	Preterm birth rate range/Scoring criteria
A	Preterm birth rate less than or equal to 9.6 percent (Score less than or equal to 0)
B	Preterm birth rate greater than 9.6 percent, but less than 11.3 percent (Score greater than 0, but less than 1)
C	Preterm birth rate greater than or equal to 11.3 percent, but less than 12.9 percent (Score greater than or equal to 1, but less than 2)
D	Preterm birth rate greater than or equal to 12.9 percent, but less than 14.6 percent (Score greater than or equal to 2, but less than 3)
F	Preterm birth rate greater than or equal to 14.6 percent (Score greater than or equal to 3)

Source:
http://www.marchofdimes.com/peristats/pdflib/998/MD.pdf

march of dimes
peristats

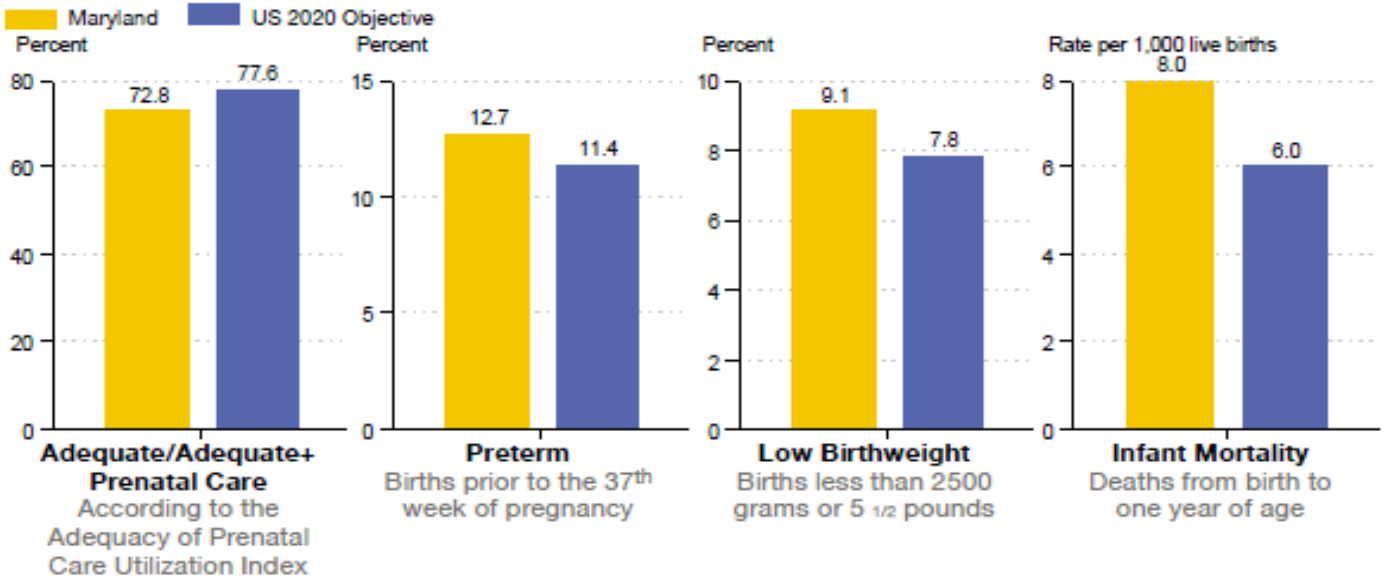
PERINATAL DATA SNAPSHOTS:

Maryland
Maternal and Infant Health Overview

In an Average Week in Maryland[1, 2]

1,443 babies are born	118 babies are born to teen mothers (ages 15-19)	480 babies delivered by cesarean section	184 babies are born preterm	131 babies are born low birthweight	12 babies die before their first birthday

Maryland and US Year 2020 Objectives[1, 2]



Source:
http://www.marchofdimes.com/Peristats/pdflib/999/pds_24_all.pdf

Indicators, Maryland

	Number	Rate		Number	Rate
Births[1]	75,059	63.8	Preterm[1]	9,550	12.7%
Adequate/Adequate+ PNC[1]	50,417	72.8%	Very Preterm[1]	1,694	2.3%
Early Prenatal Care[1]	57,177	82.0%	Late Preterm[1]	6,627	8.8%
Uninsured Women (15-44 yrs)[3]	NA	16.1%	Low Birthweight[1]	6,836	9.1%
Uninsured Children(<19 yrs)[3]	NA	7.3%	Very Low Birthweight[1]	1,339	1.8%
C Section[1]	24,942	33.5%	Infant Mortality[2]	615	8.0

Footnotes

- Adequate/Adequate+ prenatal care (PNC) is measured using the Adequacy of Prenatal Care Utilization Index and takes into account timing of prenatal care, number of visits, and infant's gestational age.
- For more information on U.S. 2020 objectives, visit http://www.healthypeople.gov/2020.
- Birth rate is live births per 1,000 women aged 15-44 years.
- Early prenatal care is pregnancy-related care beginning in the first trimester (1-3 months).
- NA = Not Available.
- Very preterm is less than 32 completed weeks of pregnancy. Late preterm is between 34-36 weeks of pregnancy.
- Very low birthweight is less than 1500 grams (3 1/3 pounds).

Sources

1 National Center for Health Statistics, final natality data (2009).
2 National Center for Health Statistics, period linked birth/infant death data (2008).
3 US Census Bureau. Data prepared for the March of Dimes using the Current Population Survey Annual Social and Economic Supplements (2008-2010 Average).

Additional perinatal statistics available at marchofdimes.com/peristats

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Source:
http://www.marchofdimes.com/Peristats/pdflib/999/pds_24_all.pdf

LOW BIRTH WEIGHT [3]

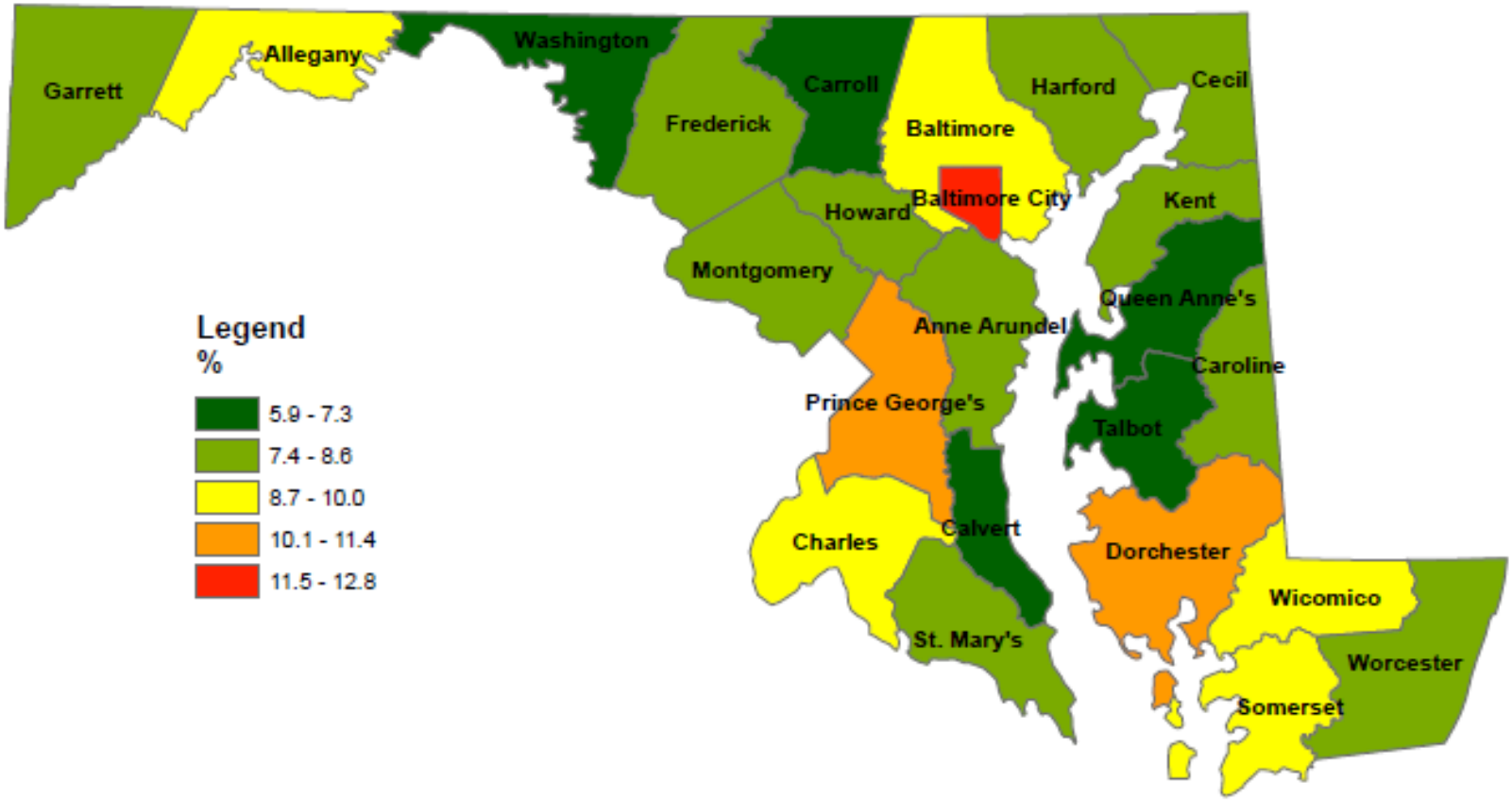
FREDERICK 2010	FREDERICK 2011	MARYLAND S.H.I.P. 2014	HEALTHY PEOPLE 2020
8.5%	7.5%	8.5%	7.8%

3. Low birth weight is defined as a weight of less than 2500 grams at birth

LOW BIRTH WEIGHT
Neighboring Counties & Maryland

FREDERICK 2011	CARROLL 2011	WASHINGTON 2011	MARYLAND 2011
7.5%	5.8%	7.7%	8.9%

Percent of Births that were Low Birth Weight (<2500g) by Jurisdiction, Maryland, 2007-2009



Data Source: MD DHMH, Vital Statistics Administration

EARLY ENTRY INTO PRENATAL CARE [4]

FREDERICK 2010	FREDERICK 2011	MARYLAND S.H.I.P. 2014	HEALTHY PEOPLE 2020
69.6%	72.4%	84.2%	77.9%

Source: http://dhmh.maryland.gov/vsa/SitePages/reports.aspx

4. Early entry into prenatal care is defined as prenatal care beginning in the 1st trimester of pregnancy

Early Entry into Prenatal Care Frederick, Neighboring Counties & Maryland

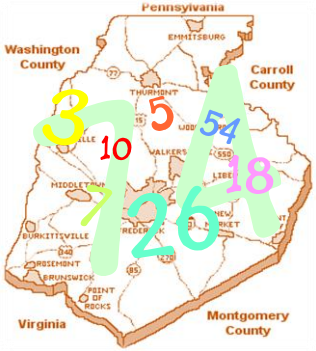
FREDERICK 2011	CARROLL 2011	WASHINGTON 2011	MARYLAND 2011
72.4%	71.8%	66.9%	62.4%

Early Entry into Prenatal Care Frederick, County and State Medical Assistance

FREDERICK 2011	FREDERICK MEDICAL ASSISTANCE FY 2012	MARYLAND MEDICAL ASSISTANCE FY 2012
72.4%	52.7%	60.3%

Sources:

- http://dhmh.maryland.gov/vsa/SitePages/reports.aspx
- Frederick FY12 Summary Report ALL Prenatal Risk Assessments PDF

HEALTH INDICATOR	CALCULATION
Infant Mortality	# Infant Deaths/ Total live births * 1000
Low birth Weight	# Births less than 2500 grams/ total live births * 100
Preterm Births	# Births between 20 and 36 weeks gestation/ Total live births * 100
Disparity	The quotient of Racial Group A's IMR/ Racial Group B's IMR
Early Prenatal Care	# women accessing Prenatal Care in 1st Trimester/ Total # live births

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