



FIRST THINGS FIRST

AGENDA ITEM: Discussion of Regional Data on Low Birth Weights and Pre-term Births

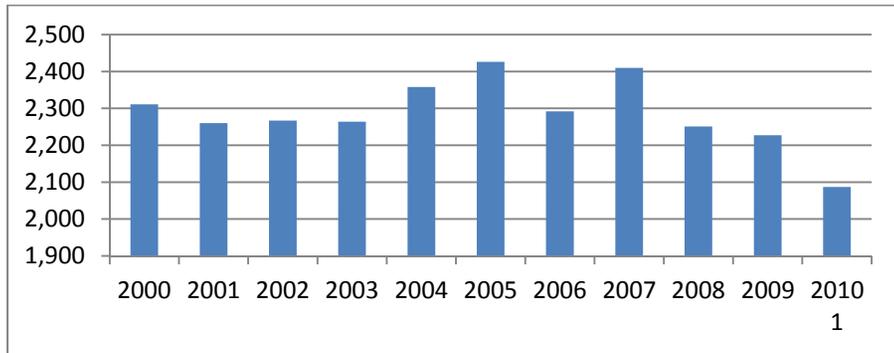
BACKGROUND: The following attachment contains Coconino County data on low birth weight babies and pre-term births for the Coconino Regional Partnership Council to consider. During the funding planning process last fall, the Regional Council directed FTF staff to investigate and bring back in depth data on Low birth weight babies born in the Coconino region.

RECOMMENDATION: The Regional Director submits this document as information only.

COCONINO REIGONAL DATA ON LOW BIRTH WEIGHTS AND PRE-TERM BIRTHS

BIRTHS BY COUNTY OF OCCURRENCE¹, ARIZONA, 2000-2010

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010 ¹
ARIZONA	85,476	85,749	87,921	91,054	93,843	96,487	103,171	103,803	100,088	93,331	88,100
Coconino	2,311	2,260	2,267	2,264	2,358	2,426	2,292	2,410	2,251	2,227	2,087



of Births Per Year by County - Coconino

2010 shows the lowest number of births (2,087) in Coconino County in 10 years.

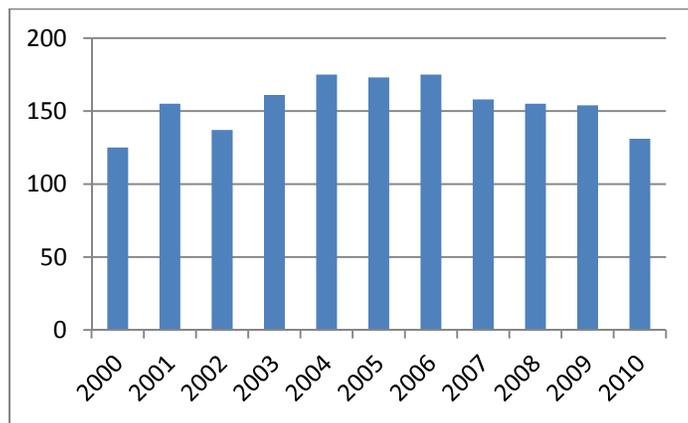
BIRTHS BY TRIMESTER OF PREGNANCY PRENATAL CARE BEGAN AND MOTHER'S COUNTY OF RESIDENCE, ARIZONA, 2010

	Total		No care		1st trimester		2nd trimester		3rd trimester		Unknown	
	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
Coconino	1,775	100.0	22	1.2	1,499	84.5	201	11.3	48	2.7	5	0.3

The majority of mothers (84.5%) giving birth in Coconino County began receiving prenatal care in the first trimester.

LOW-BIRTH WEIGHT BIRTHS (<2,500 grams or <5lb 8oz) BY COUNTY OF RESIDENCE, ARIZONA, 2000-2010

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Coconino	125	155	137	161	175	173	175	158	155	154	131



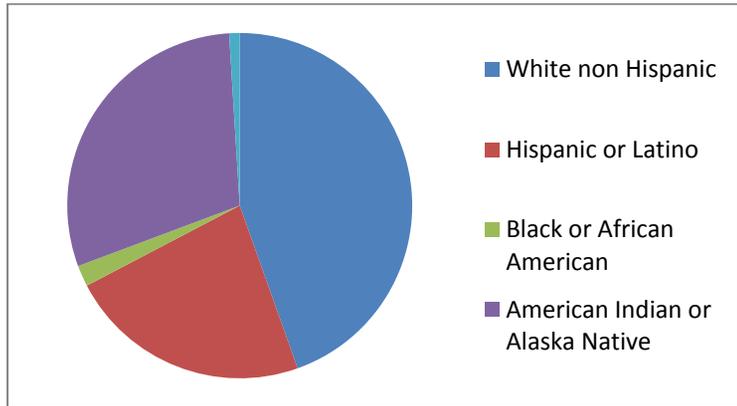
of Low Birth-weight Births by County - Coconino, 2000-2010

The number of low birth-weight babies born in Coconino County has remained fairly steady over the last 10 years. 2010 marked the second lowest number (131) of low birth-weight babies born in the County. The highest number of low birth-weight babies born in a year was in 2004 & 2006.

LOW-BIRTH WEIGHT BIRTHS BY MOTHER'S RACE/ETHNICITY AND COUNTY OF RESIDENCE, ARIZONA, 2010

	Total	Mother's race/ethnicity										
		White non Hispanic		Hispanic or Latino		Black or African American		American Indian or Alaska Native		Asian or Pacific Islander		Unknown
ARIZONA	6,155	2,579	42%	2,342	38%	492	8%	406	7%	280	5%	56
COCONINO	131	59	45%	30	23%	2	2%	39	30%	1	1%	0

	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Other
Race/Ethnicity of Coconino Regional Families (From Needs and Assets Report)	39.4%	24.6%		29.9%	6.1%

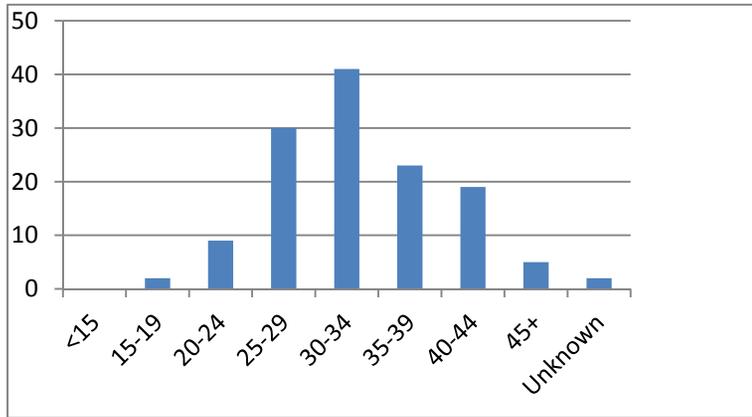


Low Birth-weight Births by Mother's Race/Ethnicity - Coconino, 2010

The highest percentage of low birth-weights births were born to White, non-Hispanic mothers, followed by Hispanic or Latino mothers. This race/ethnicity breakdown closely follows the percentages of families in the Coconino region.

LOW-BIRTHWEIGHT BIRTHS BY MOTHER'S AGE GROUP AND COUNTY OF RESIDENCE, ARIZONA, 2010

	Total	Mother's age group								
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Unknown
ARIZONA	6,155	15	245	495	1,508	1,568	1,332	764	197	31
Cochise	142	0	9	8	40	37	29	18	1	0
Coconino	131	0	2	9	30	41	23	19	5	2

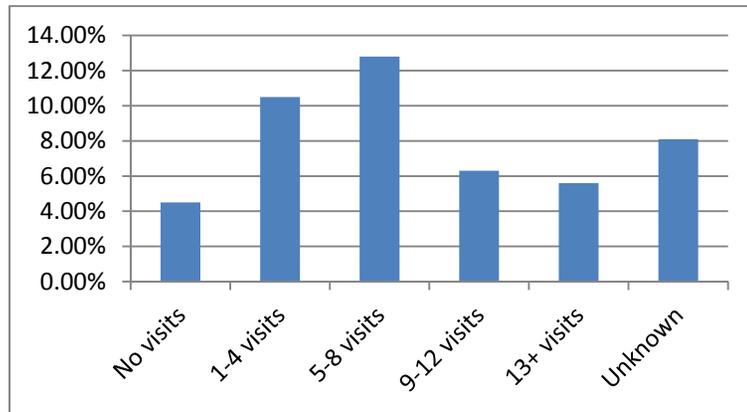


Low Birth-weight Births by Mother's Age Group – Coconino, 2010

The highest number of low birth-weight babies were born to mother's between 30-34 years old.

**DISTRIBUTION OF LOW-BIRTHWEIGHT (LBW) BIRTHS AND LBW RISK BY
NUMBER OF PRENATAL VISITS AND COUNTY OF RESIDENCE, ARIZONA, 2010**

		Prenatal visits							Total
		No visits	1-4 visits	5-8 visits	9-12 visits	13+ visits	Unknown		
Coconino	Births <2,500 grams (LBW)	Count	1	9	37	54	27	3	131
		Share of LBW births*	0.80%	6.90%	28.20%	41.20%	20.60%	2.30%	100.00%
		LBW risk	4.50%	10.50%	12.80%	6.30%	5.60%	8.10%	7.40%
	Total births	Count	22	86	290	857	483	37	1,775



Distribution of Low Birth-weight Births by Number of Prenatal Visits - Coconino – 2010

The highest number of low birth-weight births by # of prenatal visits was in the range of 5-8 prenatal visits.

BIRTHS BY GESTATIONAL AGE AND BIRTHWEIGHT BY MOTHER'S COUNTY OF RESIDENCE, ARIZONA, 2010

	All Groups				Gestational age							
	Total	Gestational age			Preterm, <37 weeks				37 weeks or more			
		Preterm, <37 weeks	37 weeks or more	Un-known	Total	<2,500 grams	2,500+ grams	Un-known	Total	<2,500 grams	2,500+ grams	Un-known
ARIZONA	87,053	8,374	78,649	30	8,374	4,318	4,053	3	78,649	1,834	76,809	6
Cochise	1,781	168	1,609	4	168	95	73	0	1,609	46	1,563	0
Coconino	1,775	176	1,597	2	176	95	81	0	1,597	36	1,561	0

Out of 1,775 births in 2010 in Coconino County, 176 babies were born at less than 37 weeks, and 1,597 babies were born at 37 weeks or more. Out of 176 babies born at less than 37 weeks, 95 were considered to be at a low birth-weight and 81 were born at a normal birth-weight. Out of 1,597 babies born at 37 weeks or more, 36 were considered to be at a low birth-weight and 1,561 were considered to be at a normal birth weight.

NEWBORNS ADMITTED TO NEWBORN INTENSIVE CARE UNITS BY GESTATIONAL AGE, BIRTHWEIGHT AND MOTHER'S

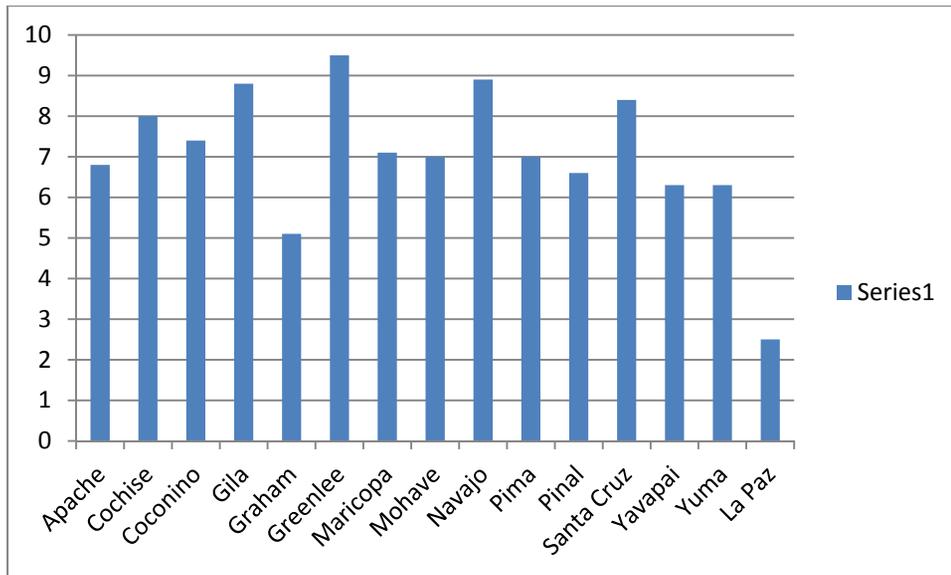
COUNTY OF RESIDENCE, ARIZONA, 2010

	Total	Gestational age			Weight at birth		
		Preterm, <37 weeks	Not Preterm	Unknown	<2,500 grams	2,500+ grams	Unknown
ARIZONA	5,354	3,106	2,245	3	2,524	2,827	3
Cochise	79	61	17	1	50	29	0
Coconino	53	27	26	0	23	30	0

In 2010, the number of pre-term newborns admitted to the Neonatal care units was 27 and the number of normal term newborns admitted was 26. 23 of those newborns were at a low birth-weight and 30 were at a normal birth weight.

**RATES OF OCCURRENCE FOR SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH
BY COUNTY OF RESIDENCE, ARIZONA, 2010**

Characteristics	Total	Apache	Cochise	Coconino	Gila	Graham	Greenlee	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	La Paz
Births with complications of labor and/or delivery reported	29	28.2	32.4	17.6	34.8	51.5	49.5	28.5	11.5	31.5	34.2	23.7	38.1	44.9	26.4	11.5
Births with medical risk factors reported	34.6	38.3	43.5	20.6	30.4	29.1	34.3	34	10.7	37.9	48	31.6	60.9	39.4	10.3	12.5
Preterm births (gestational age <37 weeks)	9.6	9.6	9.4	9.9	10.6	9.2	11.4	9.9	9.6	9.6	9	10.3	9.4	7.8	7.2	7.5
Births with abnormal conditions reported	7.8	8	8.6	2.5	6.4	20.4	22.9	6	9.9	13.4	13.5	9.1	8.2	12.6	7.4	17.5
Low birthweight births (<2,500 grams)	7.1	6.8	8	7.4	8.8	5.1	9.5	7.1	7	8.9	7	6.6	8.4	6.3	6.3	2.5
Very low birthweight births (<1,500 grams)	1.1	1.1	1.6	0.9	0.9	1.5	1	1.1	1	1.2	1.1	1	1.4	0.9	1.3	0
Births with congenital anomalies reported	0.6	1	1.2	0.4	1.8	0.6	1	0.5	0.5	1.3	0.9	0.6	0.9	0.3	0.5	1
Tobacco use during pregnancy	4.7	3.4	8	2.8	11.6	7.7	20	4.1	13	5.2	4.5	5.8	1.2	11.9	0.8	2.5
Alcohol use during pregnancy	0.5	1.8	0.3	0.8	2.4	0.6	1	0.4	0.8	1.9	0.6	0.3	0.1	0.6	0.3	2
Primary and repeat cesarean deliveries	27.6	16.1	28.1	21.6	24.2	27.4	36.2	28.3	26.3	22.5	26.2	29.3	30.6	30	27.5	21
Infants admitted to newborn intensive care units	6.2	4	4.4	3	6.4	4.3	5.7	6.3	3.4	4.9	6.2	6	6.9	4.5	10.5	3
Women giving birth who received prenatal care in the 1st trimester	81.9	62.3	78.8	84.5	66.4	74.5	71.4	85.9	76.9	67.9	75.3	86.5	69.7	79	61.5	70
Public sources of payment for birth ²	55.3	85.5	45	64.7	79.9	60.8	52.4	53.6	56.4	82.7	53.4	47.9	66.7	64.6	62.2	69.5
Births to unmarried mothers	44.7	72.4	36.9	49.9	62.1	46.6	46.7	43.4	48.2	61	45	40.6	49.9	45	44.9	58
1 Per 100 births.																



Comparison of # of low birth-weight babies by county (X 100)

Compared with Coconino County, there were 5 counties with higher numbers of low birth-weight babies born in 2010.

Coconino County data above shows that birth related data is in the average range overall compared to all other counties. The Coconino county data point that does stand out is for women giving birth who received prenatal care in the first trimester at 84.5 %. Only two other counties are higher for this percentage.