

Table 8: Confirmed and Probable Counts and Rates of Targeted Conditions for 2006 - 2010 Births to Indiana Women by County (rates per 10,000 births)

County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
ADAMS	3224			ADAMS	3224		
All Defects	136	421.84		Hypospadias	12	37.22	
Anotia/microtia	*			Microcephalus	5	15.51	
Atrial septal defect	16	49.63		Obstructive genitourinary defect	7	21.71	
Atrioventricular septal defect	*			Patent ductus arteriosus	8	24.81	
Autism	10	31.02		Pulmonary valve atresia and stenosis	*		
Choanal atresia	*			Pyloric stenosis	9	27.92	
Cleft lip with and without cleft palate	*			Rectal and large intestinal atresia/stenosis	*		
Cleft palate without cleft lip	*			Reduction deformity, lower limbs	*		
Coarctation of aorta	*			Reduction deformity, upper limbs	*		
Common truncus	*			Renal agenesis/hypoplasia	*		
Congenital hip dislocation	*			Spina bifida without anencephalus	5	15.51	
Diaphragmatic hernia	*			Tetralogy of fallot	*		
Down syndrome	7	21.71		Transposition of great arteries	*		
Encephalocele	*			Trisomy 13 (Patau syndrome)	*		
Esophageal atresia/tracheoesophageal fistula	*			Trisomy 18 (Edwards syndrome)	*		
Fetus or newborn affected by maternal alcohol use	*			Ventricular septal defect	14	43.42	
Gastroschisis	*						
Hirschsprung's disease (congenital megacolon)	*						
Hydrocephalus without Spina Bifida	*						

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

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County	Live Births			County	Live Births		
Defect		Total	Rate	Defect	Total		Rate
ALLEN	26909			ALLEN	26909		
All Defects		1269	471.59	Hirschsprung's disease (congenital 8 megacolon)			2.97
Anencephalus		*		Hydrocephalus without Spina Bifida	20		7.43
Aniridia		*		Hypoplastic left heart syndrome	*		
Anotia/microtia		*		Hypospadias	107		39.76
Aortic valve stenosis		*		Microcephalus	52		19.32
Atrial septal defect		300	111.49	Obstructive genitourinary defect	52		19.32
Atrioventricular septal defect		18	6.69	Omphalocele	*		
Autism		53	19.7	Patent ductus arteriosus	88		32.7
Bladder exstrophy		*		Pulmonary valve atresia and stenosis	44		16.35
Choanal atresia		*		Pyloric stenosis	80		29.73
Cleft lip with and without cleft palate		22	8.18	Rectal and large intestinal atresia/stenosis	15		5.57
Cleft palate without cleft lip		20	7.43	Reduction deformity, lower limbs	6		2.23
Coarctation of aorta		24	8.92	Reduction deformity, upper limbs	12		4.46
Common truncus		*		Renal agenesis/hypoplasia	*		
Congenital cataract		*		Spina bifida without anencephalus	18		6.69
Congenital hip dislocation		14	5.2	Tetralogy of fallot	6		2.23
Diaphragmatic hernia		5	1.86	Total anomalous pulmonary venous connection	*		
Down syndrome		45	16.72	Transposition of great arteries	15		5.57
Ebstein anomaly		*		Tricuspid valve atresia and stenosis	*		
Encephalocele		*		Trisomy 18 (Edwards syndrome)	*		
Epispadias		*		Ventricular septal defect	153		56.86
Esophageal atresia/tracheoesophageal fistula		7	2.6				
Fetus or newborn affected by maternal alcohol use		44	16.35				
Gastroschisis		*					

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County	Live Births			County	Live Births		
Defect		Total	Rate	Defect		Total	Rate
BARTHOLOMEW	5076			BARTHOLOMEW	5076		
All Defects		138	271.87	Omphalocele		*	
Anencephalus		*		Patent ductus arteriosus		14	27.58
Aortic valve stenosis		*		Pulmonary valve atresia and stenosis		*	
Atrial septal defect		18	35.46	Pyloric stenosis		7	13.79
Atrioventricular septal defect		*		Rectal and large intestinal atresia/stenosis		*	
Autism		5	9.85	Reduction deformity, upper limbs		*	
Bladder exstrophy		*		Renal agenesis/hypoplasia		*	
Choanal atresia		*		Spina bifida without anencephalus		*	
Cleft lip with and without cleft palate		*		Tetralogy of fallot		*	
Cleft palate without cleft lip		*		Transposition of great arteries		*	
Coarctation of aorta		6	11.82	Tricuspid valve atresia and stenosis		*	
Common truncus		*		Trisomy 13 (Patau syndrome)		*	
Congenital hip dislocation		*		Trisomy 18 (Edwards syndrome)		*	
Diaphragmatic hernia		*		Ventricular septal defect		21	41.37
Down syndrome		5	9.85				
Ebstein anomaly		*					
Esophageal atresia/tracheoesophageal fistula		*					
Gastroschisis		*					
Hirschsprung's disease (congenital megacolon)		*					
Hydrocephalus without Spina Bifida		*					
Hypospadias		6	11.82				
Microcephalus		*					
Obstructive genitourinary defect		9	17.73				

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County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
BENTON	494			BLACKFORD	756		
All Defects	17	344.13		All Defects	35	462.96	
Atrial septal defect	*			Atrial septal defect	9	119.05	
Atrioventricular septal defect	*			Autism	*		
Cleft lip with and without cleft palate	*			Cleft lip with and without cleft palate	*		
Cleft palate without cleft lip	*			Congenital hip dislocation	*		
Congenital hip dislocation	*			Diaphragmatic hernia	*		
Obstructive genitourinary defect	*			Hypoplastic left heart syndrome	*		
Patent ductus arteriosus	*			Hypospadias	*		
Pulmonary valve atresia and stenosis	*			Obstructive genitourinary defect	5	66.14	
Pyloric stenosis	*			Pyloric stenosis	*		
Reduction deformity, upper limbs	*			Renal agenesis/hypoplasia	*		
Ventricular septal defect	*			Ventricular septal defect	9	119.05	

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County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
BOONE	3458			BOONE	3458		
All Defects	120	347.02		Total anomalous pulmonary venous connection	*		
Atrial septal defect	10	28.92		Ventricular septal defect	9	26.03	
Autism	9	26.03		BROWN	707		
Bladder exstrophy	*			All Defects	17	240.45	
Cleft lip with and without cleft palate	*			Anophthalmia/microphthalmia	*		
Cleft palate without cleft lip	*			Atrial septal defect	*		
Coarctation of aorta	*			Autism	*		
Congenital hip dislocation	8	23.13		Diaphragmatic hernia	*		
Down syndrome	*			Down syndrome	*		
Gastroschisis	*			Hirschsprung's disease (congenital megacolon)	*		
Hirschsprung's disease (congenital megacolon)	*			Obstructive genitourinary defect	*		
Hydrocephalus without Spina Bifida	*			Patent ductus arteriosus	*		
Hypoplastic left heart syndrome	*			Pyloric stenosis	*		
Hypospadias	21	60.73		Spina bifida without anencephalus	*		
Microcephalus	7	20.24		Ventricular septal defect	*		
Obstructive genitourinary defect	16	46.27					
Patent ductus arteriosus	*						
Pulmonary valve atresia and stenosis	5	14.46					
Pyloric stenosis	8	23.13					
Rectal and large intestinal atresia/stenosis	*						
Renal agenesis/hypoplasia	*						
Spina bifida without anencephalus	*						
Tetralogy of fallot	*						

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County	Live Births			County	Live Births	
Defect		Total	Rate	Defect	Total	Rate
CARROLL	1160					
All Defects		39	336.21			
Aortic valve stenosis		*				
Atrial septal defect		5	43.1			
Atrioventricular septal defect		*				
Autism		*				
Cleft lip with and without cleft palate		*				
Cleft palate without cleft lip		*				
Ebstein anomaly		*				
Fetus or newborn affected by maternal alcohol use		*				
Gastroschisis		*				
Hydrocephalus without Spina Bifida		*				
Hypospadias		*				
Obstructive genitourinary defect		*				
Patent ductus arteriosus		*				
Pyloric stenosis		*				
Rectal and large intestinal atresia/stenosis		*				
Spina bifida without anencephalus		*				
Tetralogy of fallot		*				
Transposition of great arteries		*				
Ventricular septal defect		6	51.72			

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County Defect	Live Births Total	Rate	County Defect	Live Births Total	Rate
CASS	2551		CASS	2551	
All Defects	114	446.88	Rectal and large intestinal atresia/stenosis	*	
Atrial septal defect	11	43.12	Reduction deformity, lower limbs	*	
Atrioventricular septal defect	*		Spina bifida without anencephalus	*	
Autism	*		Transposition of great arteries	*	
Choanal atresia	*		Ventricular septal defect	18	70.56
Cleft lip with and without cleft palate	*				
Cleft palate without cleft lip	*				
Coarctation of aorta	6	23.52			
Common truncus	*				
Congenital hip dislocation	6	23.52			
Diaphragmatic hernia	*				
Down syndrome	6	23.52			
Esophageal atresia/tracheoesophageal fistula	*				
Gastroschisis	*				
Hirschsprung's disease (congenital megacolon)	*				
Hydrocephalus without Spina Bifida	*				
Hypospadias	*				
Microcephalus	*				
Obstructive genitourinary defect	6	23.52			
Patent ductus arteriosus	9	35.28			
Pulmonary valve atresia and stenosis	*				
Pyloric stenosis	11	43.12			

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County	Live Births			County	Live Births		
Defect		Total	Rate	Defect		Total	Rate
CLARK	5854			CLAY	1563		
All Defects		74	126.41	All Defects		74	473.45
Aniridia		*		Atrial septal defect		8	51.18
Atrial septal defect		8	13.67	Autism		5	31.99
Autism		*		Biliary atresia		*	
Cleft lip with and without cleft palate		*		Cleft lip with and without cleft palate		5	31.99
Coarctation of aorta		*		Cleft palate without cleft lip		*	
Common truncus		*		Coarctation of aorta		*	
Congenital hip dislocation		*		Congenital hip dislocation		*	
Down syndrome		*		Down syndrome		*	
Esophageal atresia/tracheoesophageal fistula		*		Gastroschisis		*	
Fetus or newborn affected by maternal alcohol use		*		Hirschsprung's disease (congenital megacolon)		*	
Hypospadias		9	15.37	Hydrocephalus without Spina Bifida		*	
Microcephalus		*		Hypospadias		9	57.58
Obstructive genitourinary defect		*		Microcephalus		*	
Pulmonary valve atresia and stenosis		*		Patent ductus arteriosus		7	44.79
Rectal and large intestinal atresia/stenosis		*		Pulmonary valve atresia and stenosis		*	
Reduction deformity, upper limbs		*		Pyloric stenosis		10	63.98
Renal agenesis/hypoplasia		*		Rectal and large intestinal atresia/stenosis		*	
Transposition of great arteries		*		Renal agenesis/hypoplasia		*	
Ventricular septal defect		31	52.96	Spina bifida without anencephalus		*	
				Tetralogy of fallot		*	
				Ventricular septal defect		10	63.98

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County	Live Births			County	Live Births		
Defect		Total	Rate	Defect		Total	Rate
CLINTON	2382			CLINTON	2382		
All Defects		85	356.84	Tricuspid valve atresia and stenosis		*	
Atrial septal defect		13	54.58	Ventricular septal defect		11	46.18
Atrioventricular septal defect		*		CRAWFORD	523		
Autism		*		All Defects		8	152.96
Cleft lip with and without cleft palate		*		Atrial septal defect		*	
Coarctation of aorta		*		Autism		*	
Congenital hip dislocation		*		Common truncus		*	
Diaphragmatic hernia		*		Hydrocephalus without Spina Bifida		*	
Down syndrome		*		Obstructive genitourinary defect		*	
Esophageal atresia/tracheoesophageal fistula		*		Pyloric stenosis		*	
Gastroschisis		*		Ventricular septal defect		*	
Hydrocephalus without Spina Bifida		*					
Hypospadias		8	33.59				
Microcephalus		*					
Obstructive genitourinary defect		8	33.59				
Patent ductus arteriosus		8	33.59				
Pulmonary valve atresia and stenosis		*					
Pyloric stenosis		7	29.39				
Rectal and large intestinal atresia/stenosis		*					
Renal agenesis/hypoplasia		*					
Total anomalous pulmonary venous connection		*					
Transposition of great arteries		*					

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County	Live Births			County	Live Births		
Defect		Total	Rate	Defect	Total		Rate
DAVIESS	2347			DEARBORN	1937		
All Defects		74	315.3	All Defects	13		67.11
Atrial septal defect		8	34.09	Atrioventricular septal defect	*		
Atrioventricular septal defect		*		Cleft lip with and without cleft palate	*		
Autism		*		Congenital hip dislocation	*		
Cleft lip with and without cleft palate		*		Down syndrome	*		
Cleft palate without cleft lip		*		Hypospadias	7		36.14
Coarctation of aorta		*		Obstructive genitourinary defect	*		
Down syndrome		*		Ventricular septal defect	*		
Fetus or newborn affected by maternal alcohol use		*					
Hydrocephalus without Spina Bifida		*					
Hypoplastic left heart syndrome		*					
Hypospadias		8	34.09				
Microcephalus		*					
Obstructive genitourinary defect		9	38.35				
Patent ductus arteriosus		8	34.09				
Pyloric stenosis		*					
Rectal and large intestinal atresia/stenosis		*					
Renal agenesis/hypoplasia		*					
Transposition of great arteries		*					
Tricuspid valve atresia and stenosis		*					
Ventricular septal defect		10	42.61				

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County	Live Births			County	Live Births		
Defect		Total	Rate	Defect	Total		Rate
DECATUR	1624			DEKALB	2676		
All Defects		50	307.88	All Defects		81	302.69
Atrial septal defect		8	49.26	Anophthalmia/microphthalmia		*	
Atrioventricular septal defect		*		Atrial septal defect		16	59.79
Autism		*		Autism		7	26.16
Cleft lip with and without cleft palate		*		Bladder exstrophy		*	
Cleft palate without cleft lip		*		Choanal atresia		*	
Congenital hip dislocation		*		Coarctation of aorta		*	
Down syndrome		*		Down syndrome		6	22.42
Esophageal atresia/tracheoesophageal fistula		*		Esophageal atresia/tracheoesophageal fistula		*	
Gastroschisis		*		Fetus or newborn affected by maternal alcohol use		*	
Hydrocephalus without Spina Bifida		*		Hydrocephalus without Spina Bifida		*	
Hypospadias		5	30.79	Hypospadias		5	18.68
Obstructive genitourinary defect		*		Microcephalus		8	29.9
Patent ductus arteriosus		*		Obstructive genitourinary defect		7	26.16
Pyloric stenosis		*		Patent ductus arteriosus		*	
Rectal and large intestinal atresia/stenosis		*		Pulmonary valve atresia and stenosis		*	
Renal agenesis/hypoplasia		*		Pyloric stenosis		9	33.63
Ventricular septal defect		6	36.95	Rectal and large intestinal atresia/stenosis		*	
				Reduction deformity, upper limbs		*	
				Tricuspid valve atresia and stenosis		*	
				Trisomy 13 (Patau syndrome)		*	
				Ventricular septal defect		*	

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County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
DELAWARE	6280			DELAWARE	6280		
All Defects	295	469.75		Microcephalus	13	20.7	
Anencephalus	*			Obstructive genitourinary defect	34	54.14	
Atrial septal defect	59	93.95		Omphalocele	*		
Atrioventricular septal defect	*			Patent ductus arteriosus	13	20.7	
Autism	15	23.89		Pulmonary valve atresia and stenosis	*		
Biliary atresia	*			Pyloric stenosis	18	28.66	
Bladder exstrophy	*			Rectal and large intestinal atresia/stenosis	*		
Choanal atresia	*			Reduction deformity, lower limbs	*		
Cleft lip with and without cleft palate	5	7.96		Reduction deformity, upper limbs	*		
Cleft palate without cleft lip	6	9.55		Renal agenesis/hypoplasia	*		
Coarctation of aorta	5	7.96		Spina bifida without anencephalus	5	7.96	
Common truncus	*			Tetralogy of fallot	*		
Congenital hip dislocation	6	9.55		Total anomalous pulmonary venous connection	*		
Diaphragmatic hernia	*			Transposition of great arteries	*		
Down syndrome	9	14.33		Tricuspid valve atresia and stenosis	*		
Ebstein anomaly	*			Ventricular septal defect	40	63.69	
Epispadias	*						
Esophageal atresia/tracheoesophageal fistula	*						
Gastroschisis	*						
Hirschsprung's disease (congenital megacolon)	*						
Hydrocephalus without Spina Bifida	*						
Hypoplastic left heart syndrome	*						
Hypospadias	24	38.22					

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County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
DUBOIS	2605			DUBOIS	2605		
All Defects	70	268.71		Tetralogy of fallot	*		
Anotia/microtia	*			Transposition of great arteries	*		
Aortic valve stenosis	*			Ventricular septal defect	*		
Atrial septal defect	*						
Autism	*						
Cleft lip with and without cleft palate	*						
Cleft palate without cleft lip	*						
Coarctation of aorta	*						
Congenital hip dislocation	*						
Down syndrome	*						
Hirschsprung's disease (congenital megacolon)	*						
Hydrocephalus without Spina Bifida	*						
Hypoplastic left heart syndrome	*						
Hypospadias	6	23.03					
Microcephalus	*						
Obstructive genitourinary defect	7	26.87					
Patent ductus arteriosus	8	30.71					
Pyloric stenosis	*						
Rectal and large intestinal atresia/stenosis	*						
Reduction deformity, lower limbs	*						
Reduction deformity, upper limbs	*						
Renal agenesis/hypoplasia	*						
Spina bifida without anencephalus	*						

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County	Live Births			County	Live Births		
Defect		Total	Rate	Defect	Total		Rate
ELKHART	16290			ELKHART	16290		
All Defects		508	311.85	Hypoplastic left heart syndrome	*		
Anencephalus		*		Hypospadias	53		32.54
Aniridia		*		Microcephalus	20		12.28
Anotia/microtia		*		Obstructive genitourinary defect	19		11.66
Aortic valve stenosis		*		Omphalocele	*		
Atrial septal defect		59	36.22	Patent ductus arteriosus	40		24.55
Atrioventricular septal defect		8	4.91	Pulmonary valve atresia and stenosis	13		7.98
Autism		28	17.19	Pyloric stenosis	43		26.4
Choanal atresia		*		Rectal and large intestinal atresia/stenosis	*		
Cleft lip with and without cleft palate		16	9.82	Reduction deformity, lower limbs	*		
Cleft palate without cleft lip		15	9.21	Reduction deformity, upper limbs	*		
Coarctation of aorta		11	6.75	Renal agenesis/hypoplasia	9		5.52
Common truncus		*		Spina bifida without anencephalus	10		6.14
Congenital cataract		*		Tetralogy of fallot	6		3.68
Congenital hip dislocation		15	9.21	Total anomalous pulmonary venous connection	*		
Diaphragmatic hernia		7	4.3	Transposition of great arteries	5		3.07
Down syndrome		15	9.21	Tricuspid valve atresia and stenosis	*		
Encephalocele		*		Trisomy 13 (Patau syndrome)	*		
Esophageal atresia/tracheoesophageal fistula		*		Trisomy 18 (Edwards syndrome)	*		
Fetus or newborn affected by maternal alcohol use		5	3.07	Ventricular septal defect	47		28.85
Gastroschisis		9	5.52				
Hirschsprung's disease (congenital megacolon)			4.3				
Hydrocephalus without Spina Bifida		11	6.75				

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County	Live Births			County	Live Births		
Defect		Total	Rate	Defect		Total	Rate
FAYETTE	1263			FLOYD	3612		
All Defects		50	395.88	All Defects		46	127.35
Aortic valve stenosis		*		Atrial septal defect		6	16.61
Atrial septal defect		5	39.59	Autism		*	
Atrioventricular septal defect		*		Cleft lip with and without cleft palate		*	
Autism		*		Cleft palate without cleft lip		5	13.84
Cleft lip with and without cleft palate		*		Diaphragmatic hernia		*	
Coarctation of aorta		*		Down syndrome		*	
Congenital hip dislocation		*		Hypospadias		6	16.61
Diaphragmatic hernia		*		Obstructive genitourinary defect		*	
Down syndrome		*		Patent ductus arteriosus		*	
Esophageal atresia/tracheoesophageal fistula		*		Pulmonary valve atresia and stenosis		5	13.84
Gastroschisis		*		Rectal and large intestinal atresia/stenosis		*	
Hypospadias		9	71.26	Tetralogy of fallot		*	
Microcephalus		*		Ventricular septal defect		12	33.22
Obstructive genitourinary defect		*					
Patent ductus arteriosus		*					
Pulmonary valve atresia and stenosis		*					
Pyloric stenosis		8	63.34				
Rectal and large intestinal atresia/stenosis		*					
Reduction deformity, upper limbs		*					
Renal agenesis/hypoplasia		*					
Transposition of great arteries		*					
Ventricular septal defect		*					

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

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County	Live Births			County	Live Births		
Defect		Total	Rate	Defect		Total	Rate
FOUNTAIN	931			FRANKLIN	827		
All Defects		41	440.39	All Defects		23	278.11
Aortic valve stenosis		*		Atrial septal defect		*	
Atrial septal defect		7	75.19	Cleft lip with and without cleft palate		*	
Autism		*		Coarctation of aorta		*	
Cleft lip with and without cleft palate		*		Gastroschisis		*	
Cleft palate without cleft lip		*		Hypospadias		5	60.46
Fetus or newborn affected by maternal alcohol use		*		Obstructive genitourinary defect		*	
Hirschsprung's disease (congenital megacolon)		*		Patent ductus arteriosus		*	
Hydrocephalus without Spina Bifida		*		Pulmonary valve atresia and stenosis		*	
Hypoplastic left heart syndrome		*		Pyloric stenosis		*	
Hypospadias		*		Renal agenesis/hypoplasia		*	
Obstructive genitourinary defect		6	64.45	Transposition of great arteries		*	
Patent ductus arteriosus		*		Tricuspid valve atresia and stenosis		*	
Pulmonary valve atresia and stenosis		*		Ventricular septal defect		*	
Pyloric stenosis		*					
Rectal and large intestinal atresia/stenosis		*					
Ventricular septal defect		7	75.19				

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

Data compiled on 7/9/2013 3:43:31 PM

County	Live Births			County	Live Births		
Defect		Total	Rate	Defect	Total		Rate
FULTON	1319			FULTON	1319		
All Defects		51	386.66	Ventricular septal defect		*	
Anencephalus		*					
Atrial septal defect		6	45.49				
Autism		*					
Biliary atresia		*					
Cleft lip with and without cleft palate		*					
Coarctation of aorta		*					
Congenital hip dislocation		*					
Diaphragmatic hernia		*					
Down syndrome		*					
Fetus or newborn affected by maternal alcohol use		*					
Hydrocephalus without Spina Bifida		*					
Hypospadias		*					
Microcephalus		*					
Obstructive genitourinary defect		*					
Patent ductus arteriosus		5	37.91				
Pulmonary valve atresia and stenosis		*					
Pyloric stenosis		9	68.23				
Rectal and large intestinal atresia/stenosis		*					
Renal agenesis/hypoplasia		*					
Spina bifida without anencephalus		*					
Tetralogy of fallot		*					
Transposition of great arteries		*					

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

Data compiled on 7/9/2013 3:43:31 PM

County	Live Births			County	Live Births		
Defect		Total	Rate	Defect	Total		Rate
GIBSON	1894			GIBSON	1894		
All Defects		70	369.59	Spina bifida without anencephalus	*		
Anophthalmia/microphthalmia		*		Tetralogy of fallot	*		
Atrial septal defect		5	26.4	Transposition of great arteries	*		
Autism		*		Ventricular septal defect	6	31.68	
Bladder exstrophy		*					
Choanal atresia		*					
Cleft lip with and without cleft palate		6	31.68				
Cleft palate without cleft lip		*					
Coarctation of aorta		*					
Congenital hip dislocation		*					
Down syndrome		*					
Gastroschisis		*					
Hirschsprung's disease (congenital megacolon)		*					
Hypoplastic left heart syndrome		*					
Hypospadias		7	36.96				
Microcephalus		*					
Obstructive genitourinary defect		6	31.68				
Patent ductus arteriosus		5	26.4				
Pulmonary valve atresia and stenosis		*					
Pyloric stenosis		5	26.4				
Rectal and large intestinal atresia/stenosis		*					
Reduction deformity, upper limbs		*					
Renal agenesis/hypoplasia		*					

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

Data compiled on 7/9/2013 3:43:31 PM

County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
GRANT	4076			GRANT	4076		
All Defects	107	262.51		Reduction deformity, lower limbs	*		
Anophthalmia/microphthalmia	*			Spina bifida without anencephalus	*		
Aortic valve stenosis	*			Tetralogy of fallot	*		
Atrial septal defect	12	29.44		Total anomalous pulmonary venous connection	*		
Atrioventricular septal defect	*			Ventricular septal defect	10	24.53	
Autism	5	12.27					
Cleft lip with and without cleft palate	5	12.27		GREENE	1808		
Cleft palate without cleft lip	*			All Defects	42	232.3	
Coarctation of aorta	*			Atrial septal defect	*		
Diaphragmatic hernia	*			Atrioventricular septal defect	*		
Down syndrome	*			Autism	*		
Epispadias	*			Bladder exstrophy	*		
Esophageal atresia/tracheoesophageal fistula	*			Cleft lip with and without cleft palate	*		
Fetus or newborn affected by maternal alcohol use	5	12.27		Cleft palate without cleft lip	*		
Gastroschisis	*			Congenital hip dislocation	*		
Hypoplastic left heart syndrome	*			Hydrocephalus without Spina Bifida	*		
Hypospadias	11	26.99		Hypospadias	7	38.72	
Microcephalus	*			Microcephalus	*		
Obstructive genitourinary defect	*			Obstructive genitourinary defect	*		
Omphalocele	*			Patent ductus arteriosus	*		
Patent ductus arteriosus	11	26.99		Pyloric stenosis	5	27.65	
Pyloric stenosis	8	19.63		Rectal and large intestinal atresia/stenosis	*		
Rectal and large intestinal atresia/stenosis	*			Tetralogy of fallot	*		
				Ventricular septal defect	5	27.65	

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Data compiled on 7/9/2013 3:43:31 PM

County	Live Births			County	Live Births		
Defect		Total	Rate	Defect	Total		Rate
HAMILTON	19253			HAMILTON	19253		
All Defects		655	340.21	Hirschsprung's disease (congenital * megacolon)			
Anencephalus		*		Hydrocephalus without Spina Bifida	6		3.12
Aniridia		*		Hypoplastic left heart syndrome	7		3.64
Anophthalmia/microphthalmia		*		Hypospadias	88		45.71
Anotia/microtia		*		Microcephalus	17		8.83
Aortic valve stenosis		*		Obstructive genitourinary defect	83		43.11
Atrial septal defect		60	31.16	Omphalocele	*		
Atrioventricular septal defect		9	4.67	Patent ductus arteriosus	37		19.22
Autism		42	21.81	Pulmonary valve atresia and stenosis	8		4.16
Bladder exstrophy		*		Pyloric stenosis	33		17.14
Choanal atresia		*		Rectal and large intestinal atresia/stenosis	6		3.12
Cleft lip with and without cleft palate		19	9.87	Reduction deformity, lower limbs	5		2.6
Cleft palate without cleft lip		12	6.23	Reduction deformity, upper limbs	9		4.67
Coarctation of aorta		12	6.23	Renal agenesis/hypoplasia	7		3.64
Congenital cataract		*		Spina bifida without anencephalus	9		4.67
Congenital hip dislocation		39	20.26	Tetralogy of fallot	10		5.19
Diaphragmatic hernia		8	4.16	Transposition of great arteries	7		3.64
Down syndrome		28	14.54	Tricuspid valve atresia and stenosis	*		
Encephalocele		*		Trisomy 13 (Patau syndrome)	*		
Epispadias		*		Ventricular septal defect	61		31.68
Esophageal atresia/tracheoesophageal fistula		*					
Fetus or newborn affected by maternal alcohol use		*					
Gastroschisis		*					

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
HANCOCK	4157			HANCOCK	4157		
All Defects	139	334.38		Pulmonary valve atresia and stenosis	*		
Atrial septal defect	20	48.11		Pyloric stenosis	5	12.03	
Atrioventricular septal defect	*			Rectal and large intestinal atresia/stenosis	*		
Autism	*			Reduction deformity, upper limbs	*		
Biliary atresia	*			Renal agenesis/hypoplasia	*		
Choanal atresia	*			Spina bifida without anencephalus	*		
Cleft lip with and without cleft palate	*			Tetralogy of fallot	*		
Cleft palate without cleft lip	*			Total anomalous pulmonary venous connection	*		
Coarctation of aorta	*			Transposition of great arteries	*		
Congenital hip dislocation	*			Trisomy 18 (Edwards syndrome)	*		
Diaphragmatic hernia	*			Ventricular septal defect	16	38.49	
Down syndrome	8	19.24					
Ebstein anomaly	*			HARRISON	1767		
Encephalocele	*			All Defects	26	147.14	
Epispadias	*			Cleft lip with and without cleft palate	*		
Esophageal atresia/tracheoesophageal fistula	*			Down syndrome	*		
Fetus or newborn affected by maternal alcohol use	*			Epispadias	*		
Gastroschisis	*			Hypospadias	7	39.62	
Hydrocephalus without Spina Bifida	*			Microcephalus	*		
Hypospadias	6	14.43		Patent ductus arteriosus	*		
Microcephalus	*			Renal agenesis/hypoplasia	*		
Obstructive genitourinary defect	14	33.68		Ventricular septal defect	10	56.59	
Patent ductus arteriosus	14	33.68					

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County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
HENDRICKS	9283			HENDRICKS	9283		
All Defects	309	332.87		Pulmonary valve atresia and stenosis	9	9.7	
Anophthalmia/microphthalmia	*			Pyloric stenosis	24	25.85	
Aortic valve stenosis	*			Rectal and large intestinal atresia/stenosis	6	6.46	
Atrial septal defect	31	33.39		Reduction deformity, upper limbs	*		
Atrioventricular septal defect	*			Renal agenesis/hypoplasia	*		
Autism	18	19.39		Spina bifida without anencephalus	*		
Biliary atresia	*			Tetralogy of fallot	*		
Choanal atresia	*			Total anomalous pulmonary venous connection	*		
Cleft lip with and without cleft palate	5	5.39		Transposition of great arteries	5	5.39	
Cleft palate without cleft lip	*			Trisomy 18 (Edwards syndrome)	*		
Coarctation of aorta	*			Ventricular septal defect	39	42.01	
Common truncus	*						
Congenital hip dislocation	19	20.47					
Diaphragmatic hernia	*						
Down syndrome	15	16.16					
Ebstein anomaly	*						
Epispadias	*						
Gastroschisis	7	7.54					
Hirschsprung's disease (congenital megacolon)	*						
Hydrocephalus without Spina Bifida	7	7.54					
Hypospadias	30	32.32					
Microcephalus	7	7.54					
Obstructive genitourinary defect	26	28.01					
Patent ductus arteriosus	24	25.85					

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County Defect	Live Births Total	Rate	County Defect	Live Births Total	Rate
HENRY	2486				
All Defects	84	337.89			
Atrial septal defect	13	52.29			
Atrioventricular septal defect	*				
Autism	*				
Biliary atresia	*				
Choanal atresia	*				
Cleft lip with and without cleft palate	7	28.16			
Cleft palate without cleft lip	*				
Congenital hip dislocation	5	20.11			
Esophageal atresia/tracheoesophageal fistula	*				
Gastroschisis	*				
Hypospadias	11	44.25			
Microcephalus	*				
Obstructive genitourinary defect	6	24.14			
Patent ductus arteriosus	*				
Pulmonary valve atresia and stenosis	*				
Pyloric stenosis	6	24.14			
Rectal and large intestinal atresia/stenosis	*				
Spina bifida without anencephalus	*				
Tetralogy of fallot	*				
Transposition of great arteries	*				
Trisomy 18 (Edwards syndrome)	*				
Ventricular septal defect	13	52.29			

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

Data compiled on 7/9/2013 3:43:31 PM

County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
HOWARD	5254			HOWARD	5254		
All Defects	185	352.11		Hypospadias	22	41.87	
Anotia/microtia	*			Microcephalus	*		
Aortic valve stenosis	*			Obstructive genitourinary defect	9	17.13	
Atrial septal defect	28	53.29		Omphalocele	*		
Atrioventricular septal defect	*			Patent ductus arteriosus	10	19.03	
Autism	7	13.32		Pulmonary valve atresia and stenosis	*		
Bladder exstrophy	*			Pyloric stenosis	17	32.36	
Choanal atresia	*			Rectal and large intestinal atresia/stenosis	*		
Cleft lip with and without cleft palate	6	11.42		Reduction deformity, lower limbs	*		
Cleft palate without cleft lip	*			Spina bifida without anencephalus	7	13.32	
Coarctation of aorta	*			Tetralogy of fallot	*		
Common truncus	*			Transposition of great arteries	*		
Congenital hip dislocation	5	9.52		Ventricular septal defect	28	53.29	
Diaphragmatic hernia	5	9.52					
Down syndrome	6	11.42					
Encephalocele	*						
Epispadias	*						
Esophageal atresia/tracheoesophageal fistula	*						
Fetus or newborn affected by maternal alcohol use	5	9.52					
Gastroschisis	*						
Hirschsprung's disease (congenital megacolon)	*						
Hydrocephalus without Spina Bifida	*						
Hypoplastic left heart syndrome	*						

Note 1—* indicates < 5 in number occurred.

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County	Live Births			County	Live Births		
Defect		Total	Rate	Defect	Total		Rate
HUNTINGTON	2215			HUNTINGTON	2215		
All Defects		117	528.22	Transposition of great arteries	*		
Atrial septal defect		26	117.38	Ventricular septal defect	9		40.63
Autism		5	22.57				
Biliary atresia		*					
Cleft lip with and without cleft palate		7	31.6				
Cleft palate without cleft lip		8	36.12				
Congenital hip dislocation		*					
Diaphragmatic hernia		*					
Down syndrome		*					
Fetus or newborn affected by maternal alcohol use		*					
Hydrocephalus without Spina Bifida		*					
Hypoplastic left heart syndrome		*					
Hypospadias		15	67.72				
Microcephalus		9	40.63				
Obstructive genitourinary defect		*					
Patent ductus arteriosus		7	31.6				
Pulmonary valve atresia and stenosis		5	22.57				
Pyloric stenosis		*					
Rectal and large intestinal atresia/stenosis		*					
Reduction deformity, upper limbs		*					
Renal agenesis/hypoplasia		*					
Spina bifida without anencephalus		*					
Tetralogy of fallot		*					

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

Data compiled on 7/9/2013 3:43:31 PM

County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
JACKSON	2795			JACKSON	2795		
All Defects	111	397.14		Total anomalous pulmonary venous connection	*		
Anotia/microtia	*			Transposition of great arteries	*		
Aortic valve stenosis	*			Tricuspid valve atresia and stenosis	*		
Atrial septal defect	20	71.56		Trisomy 18 (Edwards syndrome)	*		
Autism	*			Ventricular septal defect	11	39.36	
Choanal atresia	*						
Cleft lip with and without cleft palate	*						
Cleft palate without cleft lip	*						
Coarctation of aorta	*						
Congenital hip dislocation	*						
Epispadias	*						
Gastroschisis	*						
Hydrocephalus without Spina Bifida	*						
Hypospadias	7	25.04					
Microcephalus	*						
Obstructive genitourinary defect	16	57.25					
Patent ductus arteriosus	8	28.62					
Pulmonary valve atresia and stenosis	*						
Pyloric stenosis	15	53.67					
Rectal and large intestinal atresia/stenosis	*						
Reduction deformity, lower limbs	*						
Renal agenesis/hypoplasia	*						
Tetralogy of fallot	*						

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

County	Live Births			County	Live Births		
Defect		Total	Rate	Defect		Total	Rate
JASPER	1984			JAY	1458		
All Defects		76	383.06	All Defects		42	288.07
Atrial septal defect		8	40.32	Atrial septal defect		10	68.59
Atrioventricular septal defect		*		Atrioventricular septal defect		*	
Autism		*		Autism		*	
Cleft lip with and without cleft palate		*		Cleft palate without cleft lip		*	
Cleft palate without cleft lip		*		Down syndrome		*	
Congenital hip dislocation		*		Ebstein anomaly		*	
Diaphragmatic hernia		*		Hirschsprung's disease (congenital megacolon)		*	
Down syndrome		7	35.28	Hypospadias		*	
Encephalocele		*		Microcephalus		*	
Fetus or newborn affected by maternal alcohol use		*		Obstructive genitourinary defect		*	
Gastroschisis		*		Patent ductus arteriosus		*	
Hydrocephalus without Spina Bifida		*		Pulmonary valve atresia and stenosis		*	
Hypospadias		11	55.44	Pyloric stenosis		6	41.15
Obstructive genitourinary defect		*		Transposition of great arteries		*	
Patent ductus arteriosus		6	30.24	Ventricular septal defect		*	
Pulmonary valve atresia and stenosis		*					
Pyloric stenosis		6	30.24				
Rectal and large intestinal atresia/stenosis		*					
Reduction deformity, lower limbs		*					
Renal agenesis/hypoplasia		*					
Transposition of great arteries		*					
Ventricular septal defect		10	50.4				

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

Data compiled on 7/9/2013 3:43:31 PM

County	Live Births			County	Live Births	
Defect	Total	Rate	Defect	Total	Rate	
JEFFERSON	1767					
All Defects	34	192.42				
Atrial septal defect	*					
Autism	*					
Cleft lip with and without cleft palate	*					
Cleft palate without cleft lip	*					
Congenital hip dislocation	*					
Down syndrome	*					
Encephalocele	*					
Gastroschisis	*					
Hypoplastic left heart syndrome	*					
Hypospadias	9	50.93				
Microcephalus	*					
Obstructive genitourinary defect	*					
Patent ductus arteriosus	*					
Pulmonary valve atresia and stenosis	*					
Pyloric stenosis	*					
Reduction deformity, upper limbs	*					
Renal agenesis/hypoplasia	*					
Ventricular septal defect	*					

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

Data compiled on 7/9/2013 3:43:31 PM

County	Live Births			County	Live Births		
Defect		Total	Rate	Defect		Total	Rate
JENNINGS	1849			JENNINGS	1849		
All Defects		68	367.77	Total anomalous pulmonary venous connection		*	
Anophthalmia/microphthalmia		*		Transposition of great arteries		*	
Aortic valve stenosis		*		Ventricular septal defect	7		37.86
Atrial septal defect		8	43.27				
Atrioventricular septal defect		5	27.04				
Autism		*					
Cleft lip with and without cleft palate		*					
Coarctation of aorta		*					
Congenital hip dislocation		*					
Down syndrome		*					
Ebstein anomaly		*					
Esophageal atresia/tracheoesophageal fistula		*					
Gastroschisis		*					
Hydrocephalus without Spina Bifida		*					
Hypospadias		*					
Microcephalus		*					
Obstructive genitourinary defect		8	43.27				
Patent ductus arteriosus		*					
Pulmonary valve atresia and stenosis		*					
Pyloric stenosis		7	37.86				
Rectal and large intestinal atresia/stenosis		*					
Renal agenesis/hypoplasia		*					

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

Data compiled on 7/9/2013 3:43:31 PM

County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
JOHNSON	9190			JOHNSON	9190		
All Defects	310	337.32		Hypospadias	15	16.32	
Anophthalmia/microphthalmia	*			Microcephalus	6	6.53	
Anotia/microtia	*			Obstructive genitourinary defect	29	31.56	
Aortic valve stenosis	*			Patent ductus arteriosus	18	19.59	
Atrial septal defect	50	54.41		Pulmonary valve atresia and stenosis	*		
Atrioventricular septal defect	*			Pyloric stenosis	32	34.82	
Autism	20	21.76		Rectal and large intestinal atresia/stenosis	5	5.44	
Bladder exstrophy	*			Reduction deformity, upper limbs	*		
Choanal atresia	*			Renal agenesis/hypoplasia	5	5.44	
Cleft lip with and without cleft palate	8	8.71		Spina bifida without anencephalus	*		
Cleft palate without cleft lip	6	6.53		Tetralogy of fallot	*		
Coarctation of aorta	10	10.88		Total anomalous pulmonary venous connection	*		
Common truncus	*			Transposition of great arteries	*		
Congenital hip dislocation	6	6.53		Tricuspid valve atresia and stenosis	*		
Diaphragmatic hernia	*			Trisomy 13 (Patau syndrome)	*		
Down syndrome	12	13.06		Trisomy 18 (Edwards syndrome)	*		
Encephalocele	*			Ventricular septal defect	36	39.17	
Epispadias	*						
Fetus or newborn affected by maternal alcohol use	*						
Gastroschisis	5	5.44					
Hirschsprung's disease (congenital megacolon)	*						
Hydrocephalus without Spina Bifida	*						
Hypoplastic left heart syndrome	*						

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

Data compiled on 7/9/2013 3:43:31 PM

County	Live Births			County	Live Births	
Defect		Total	Rate	Defect	Total	Rate
KNOX	2322					
All Defects		71	305.77			
Anophthalmia/microphthalmia		*				
Atrial septal defect		13	55.99			
Atrioventricular septal defect		*				
Autism		*				
Cleft lip with and without cleft palate		*				
Coarctation of aorta		*				
Congenital cataract		*				
Congenital hip dislocation		*				
Down syndrome		*				
Gastroschisis		*				
Hypospadias		*				
Microcephalus		*				
Obstructive genitourinary defect		*				
Patent ductus arteriosus		*				
Pulmonary valve atresia and stenosis		*				
Pyloric stenosis		13	55.99			
Rectal and large intestinal atresia/stenosis		*				
Spina bifida without anencephalus		*				
Transposition of great arteries		*				
Tricuspid valve atresia and stenosis		*				
Ventricular septal defect		12	51.68			

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

Data compiled on 7/9/2013 3:43:31 PM

County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
KOSCIUSKO	5345			KOSCIUSKO	5345		
All Defects	175	327.41		Rectal and large intestinal atresia/stenosis	*		
Atrial septal defect	31	58		Reduction deformity, lower limbs	*		
Atrioventricular septal defect	*			Reduction deformity, upper limbs	*		
Autism	8	14.97		Renal agenesis/hypoplasia	*		
Cleft lip with and without cleft palate	6	11.23		Spina bifida without anencephalus	*		
Cleft palate without cleft lip	*			Tetralogy of fallot	*		
Coarctation of aorta	*			Transposition of great arteries	*		
Congenital hip dislocation	*			Trisomy 13 (Patau syndrome)	*		
Down syndrome	9	16.84		Ventricular septal defect	26	48.64	
Epispadias	*						
Esophageal atresia/tracheoesophageal fistula	*						
Fetus or newborn affected by maternal alcohol use	*						
Gastroschisis	*						
Hirschsprung's disease (congenital megacolon)	*						
Hydrocephalus without Spina Bifida	*						
Hypoplastic left heart syndrome	*						
Hypospadias	21	39.29					
Microcephalus	5	9.35					
Obstructive genitourinary defect	*						
Patent ductus arteriosus	5	9.35					
Pulmonary valve atresia and stenosis	5	9.35					
Pyloric stenosis	21	39.29					

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

Data compiled on 7/9/2013 3:43:31 PM

County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
LAGRANGE	3657			LAGRANGE	3657		
All Defects	79	216.02		Tricuspid valve atresia and stenosis	*		
Atrial septal defect	11	30.08		Ventricular septal defect	9	24.61	
Atrioventricular septal defect	*						
Autism	*						
Biliary atresia	*						
Bladder exstrophy	*						
Choanal atresia	*						
Cleft palate without cleft lip	*						
Diaphragmatic hernia	*						
Down syndrome	*						
Epispadias	*						
Fetus or newborn affected by maternal alcohol use	*						
Gastroschisis	*						
Hydrocephalus without Spina Bifida	*						
Hypoplastic left heart syndrome	*						
Hypospadias	10	27.34					
Microcephalus	6	16.41					
Obstructive genitourinary defect	*						
Patent ductus arteriosus	6	16.41					
Pyloric stenosis	7	19.14					
Reduction deformity, lower limbs	*						
Renal agenesis/hypoplasia	*						
Spina bifida without anencephalus	*						
Transposition of great arteries	*						

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
LAKE	31146			LAKE	31146		
All Defects	831	266.81		Hydrocephalus without Spina Bifida	18	5.78	
Anencephalus	*			Hypoplastic left heart syndrome	5	1.61	
Aniridia	*			Hypospadias	90	28.9	
Anophthalmia/microphthalmia	*			Microcephalus	24	7.71	
Anotia/microtia	6	1.93		Obstructive genitourinary defect	77	24.72	
Aortic valve stenosis	*			Omphalocele	*		
Atrial septal defect	79	25.36		Patent ductus arteriosus	69	22.15	
Atrioventricular septal defect	14	4.49		Pulmonary valve atresia and stenosis	10	3.21	
Autism	45	14.45		Pyloric stenosis	71	22.8	
Choanal atresia	*			Rectal and large intestinal atresia/stenosis	7	2.25	
Cleft lip with and without cleft palate	32	10.27		Reduction deformity, lower limbs	6	1.93	
Cleft palate without cleft lip	13	4.17		Reduction deformity, upper limbs	8	2.57	
Coarctation of aorta	11	3.53		Renal agenesis/hypoplasia	*		
Common truncus	*			Spina bifida without anencephalus	8	2.57	
Congenital cataract	*			Tetralogy of fallot	7	2.25	
Congenital hip dislocation	6	1.93		Transposition of great arteries	6	1.93	
Diaphragmatic hernia	7	2.25		Tricuspid valve atresia and stenosis	*		
Down syndrome	46	14.77		Trisomy 13 (Patau syndrome)	*		
Epispadias	*			Trisomy 18 (Edwards syndrome)	*		
Esophageal atresia/tracheoesophageal fistula	*			Ventricular septal defect	114	36.6	
Fetus or newborn affected by maternal alcohol use	8	2.57					
Gastroschisis	10	3.21					
Hirschsprung's disease (congenital 5 megacolon)		1.61					

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
LAPORTE	6719			LAPORTE	6719		
All Defects	189	281.29		Pulmonary valve atresia and stenosis	6	8.93	
Anophthalmia/microphthalmia	*			Pyloric stenosis	18	26.79	
Anotia/microtia	*			Rectal and large intestinal atresia/stenosis	*		
Aortic valve stenosis	*			Reduction deformity, lower limbs	*		
Atrial septal defect	24	35.72		Reduction deformity, upper limbs	*		
Autism	7	10.42		Renal agenesis/hypoplasia	*		
Bladder exstrophy	*			Spina bifida without anencephalus	*		
Choanal atresia	*			Tetralogy of fallot	*		
Cleft lip with and without cleft palate	*			Transposition of great arteries	*		
Cleft palate without cleft lip	5	7.44		Trisomy 13 (Patau syndrome)	*		
Coarctation of aorta	*			Trisomy 18 (Edwards syndrome)	*		
Congenital hip dislocation	*			Ventricular septal defect	25	37.21	
Down syndrome	5	7.44					
Encephalocele	*						
Esophageal atresia/tracheoesophageal fistula	*						
Fetus or newborn affected by maternal alcohol use	*						
Gastroschisis	*						
Hirschsprung's disease (congenital megacolon)	*						
Hydrocephalus without Spina Bifida	*						
Hypospadias	17	25.3					
Microcephalus	5	7.44					
Obstructive genitourinary defect	15	22.32					
Patent ductus arteriosus	21	31.25					

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

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County	Live Births			County	Live Births		
Defect		Total	Rate	Defect	Total		Rate
LAWRENCE	2548						
All Defects		87	341.44				
Aortic valve stenosis		*					
Atrial septal defect		12	47.1				
Autism		5	19.62				
Cleft palate without cleft lip		*					
Coarctation of aorta		*					
Congenital hip dislocation		*					
Ebstein anomaly		*					
Hydrocephalus without Spina Bifida		*					
Hypospadias		19	74.57				
Microcephalus		*					
Obstructive genitourinary defect		11	43.17				
Patent ductus arteriosus		*					
Pulmonary valve atresia and stenosis		*					
Pyloric stenosis		*					
Spina bifida without anencephalus		*					
Tetralogy of fallot		*					
Transposition of great arteries		*					
Trisomy 18 (Edwards syndrome)		*					
Ventricular septal defect		11	43.17				

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

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County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
MADISON	7988			MADISON	7988		
All Defects	260	325.49		Pulmonary valve atresia and stenosis	7	8.76	
Atrial septal defect	26	32.55		Pyloric stenosis	22	27.54	
Atrioventricular septal defect	*			Rectal and large intestinal atresia/stenosis	5	6.26	
Autism	13	16.27		Reduction deformity, lower limbs	*		
Cleft lip with and without cleft palate	8	10.02		Renal agenesis/hypoplasia	*		
Cleft palate without cleft lip	*			Spina bifida without anencephalus	*		
Coarctation of aorta	*			Tetralogy of fallot	*		
Congenital cataract	*			Total anomalous pulmonary venous connection	*		
Congenital hip dislocation	*			Tricuspid valve atresia and stenosis	*		
Diaphragmatic hernia	5	6.26		Ventricular septal defect	26	32.55	
Down syndrome	12	15.02					
Ebstein anomaly	*						
Esophageal atresia/tracheoesophageal fistula	*						
Fetus or newborn affected by maternal alcohol use	*						
Gastroschisis	*						
Hirschsprung's disease (congenital megacolon)	*						
Hydrocephalus without Spina Bifida	*						
Hypoplastic left heart syndrome	*						
Hypospadias	32	40.06					
Microcephalus	11	13.77					
Obstructive genitourinary defect	25	31.3					
Patent ductus arteriosus	29	36.3					

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

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County	Live Births			County	Live Births		
Defect		Total	Rate	Defect	Total		Rate
MARION	74720			MARION	74720		
All Defects		2412	322.81	Fetus or newborn affected by maternal alcohol use	18		2.41
Anencephalus		*		Gastroschisis	35		4.68
Aniridia		*		Hirschsprung's disease (congenital megacolon)	16		2.14
Anophthalmia/microphthalmia		*		Hydrocephalus without Spina Bifida	32		4.28
Anotia/microtia		7	.94	Hypoplastic left heart syndrome	15		2.01
Aortic valve stenosis		14	1.87	Hypospadias	208		27.84
Atrial septal defect		327	43.76	Microcephalus	72		9.64
Atrioventricular septal defect		34	4.55	Obstructive genitourinary defect	196		26.23
Autism		135	18.07	Omphalocele	*		
Biliary atresia		10	1.34	Patent ductus arteriosus	222		29.71
Bladder exstrophy		*		Pulmonary valve atresia and stenosis	55		7.36
Choanal atresia		13	1.74	Pyloric stenosis	173		23.15
Cleft lip with and without cleft palate		64	8.57	Rectal and large intestinal atresia/stenosis	34		4.55
Cleft palate without cleft lip		35	4.68	Reduction deformity, lower limbs	7		.94
Coarctation of aorta		48	6.42	Reduction deformity, upper limbs	16		2.14
Common truncus		*		Renal agenesis/hypoplasia	25		3.35
Congenital cataract		7	.94	Spina bifida without anencephalus	24		3.21
Congenital hip dislocation		53	7.09	Tetralogy of fallot	22		2.94
Diaphragmatic hernia		26	3.48	Total anomalous pulmonary venous connection	7		.94
Down syndrome		82	10.97	Transposition of great arteries	37		4.95
Ebstein anomaly		*		Tricuspid valve atresia and stenosis	7		.94
Encephalocele		5	.67				
Epispadias		11	1.47				
Esophageal atresia/tracheoesophageal fistula		26	3.48				

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
MARION	74720						
Trisomy 13 (Patau syndrome)	7	.94					
Trisomy 18 (Edwards syndrome)	14	1.87					
Ventricular septal defect	248	33.19					

Note 1—* indicates < 5 in number occurred.

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County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
MARSHALL	3054			MARSHALL	3054		
All Defects	113	370.01		Pulmonary valve atresia and stenosis	*		
Anophthalmia/microphthalmia	*			Pyloric stenosis	10	32.74	
Atrial septal defect	5	16.37		Rectal and large intestinal atresia/stenosis	*		
Atrioventricular septal defect	*			Spina bifida without anencephalus	*		
Autism	11	36.02		Tetralogy of fallot	*		
Cleft lip with and without cleft palate	*			Transposition of great arteries	5	16.37	
Coarctation of aorta	*			Trisomy 13 (Patau syndrome)	*		
Congenital cataract	*			Trisomy 18 (Edwards syndrome)	*		
Congenital hip dislocation	*			Ventricular septal defect	10	32.74	
Diaphragmatic hernia	*						
Down syndrome	*						
Ebstein anomaly	*						
Epispadias	*						
Esophageal atresia/tracheoesophageal fistula	*						
Fetus or newborn affected by maternal alcohol use	*						
Gastroschisis	*						
Hirschsprung's disease (congenital megacolon)	*						
Hydrocephalus without Spina Bifida	5	16.37					
Hypospadias	10	32.74					
Microcephalus	*						
Obstructive genitourinary defect	*						
Omphalocele	*						
Patent ductus arteriosus	12	39.29					

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

County Defect	Live Births Total	Rate	County Defect	Live Births Total	Rate
MARTIN	842				
All Defects	21	249.41			
Aortic valve stenosis	*				
Cleft lip with and without cleft palate	*				
Coarctation of aorta	*				
Congenital cataract	*				
Congenital hip dislocation	*				
Gastroschisis	*				
Hirschsprung's disease (congenital megacolon)	*				
Hypospadias	*				
Obstructive genitourinary defect	*				
Patent ductus arteriosus	*				
Pyloric stenosis	*				
Rectal and large intestinal atresia/stenosis	*				
Spina bifida without anencephalus	*				
Ventricular septal defect	*				

Note 1—* indicates < 5 in number occurred.

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County Defect	Live Births Total	Rate	County Defect	Live Births Total	Rate
MIAMI	2045				
All Defects	68	332.52			
Aniridia	*				
Atrial septal defect	13	63.57			
Autism	*				
Cleft lip with and without cleft palate	*				
Cleft palate without cleft lip	*				
Coarctation of aorta	*				
Down syndrome	*				
Fetus or newborn affected by maternal alcohol use	*				
Gastroschisis	*				
Hydrocephalus without Spina Bifida	*				
Hypoplastic left heart syndrome	*				
Hypospadias	5	24.45			
Microcephalus	*				
Obstructive genitourinary defect	*				
Patent ductus arteriosus	*				
Pulmonary valve atresia and stenosis	*				
Pyloric stenosis	7	34.23			
Spina bifida without anencephalus	*				
Tetralogy of fallot	*				
Total anomalous pulmonary venous connection	*				
Transposition of great arteries	*				
Ventricular septal defect	6	29.34			

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
MONROE	6536			MONROE	6536		
All Defects	241	368.73		Patent ductus arteriosus	18	27.54	
Aniridia	*			Pulmonary valve atresia and stenosis	*		
Anophthalmia/microphthalmia	*			Pyloric stenosis	15	22.95	
Anotia/microtia	*			Rectal and large intestinal atresia/stenosis	*		
Atrial septal defect	35	53.55		Renal agenesis/hypoplasia	*		
Atrioventricular septal defect	*			Spina bifida without anencephalus	*		
Autism	8	12.24		Tetralogy of fallot	*		
Cleft lip with and without cleft palate	10	15.3		Total anomalous pulmonary venous connection	*		
Cleft palate without cleft lip	9	13.77		Transposition of great arteries	*		
Coarctation of aorta	6	9.18		Trisomy 18 (Edwards syndrome)	*		
Congenital hip dislocation	9	13.77		Ventricular septal defect	31	47.43	
Diaphragmatic hernia	*						
Down syndrome	11	16.83					
Ebstein anomaly	*						
Encephalocele	*						
Esophageal atresia/tracheoesophageal fistula	*						
Gastroschisis	*						
Hirschsprung's disease (congenital megacolon)	*						
Hydrocephalus without Spina Bifida	*						
Hypoplastic left heart syndrome	*						
Hypospadias	23	35.19					
Microcephalus	6	9.18					
Obstructive genitourinary defect	26	39.78					

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
MONTGOMERY	2303			MONTGOMERY	2303		
All Defects	101	438.56		Transposition of great arteries	*		
Anotia/microtia	*			Tricuspid valve atresia and stenosis	*		
Atrial septal defect	16	69.47		Trisomy 18 (Edwards syndrome)	*		
Atrioventricular septal defect	*			Ventricular septal defect	16	69.47	
Autism	*						
Cleft lip with and without cleft palate	*						
Cleft palate without cleft lip	*						
Coarctation of aorta	*						
Congenital hip dislocation	*						
Down syndrome	*						
Ebstein anomaly	*						
Fetus or newborn affected by maternal alcohol use	*						
Gastroschisis	*						
Hypoplastic left heart syndrome	*						
Hypospadias	9	39.08					
Microcephalus	*						
Obstructive genitourinary defect	5	21.71					
Patent ductus arteriosus	10	43.42					
Pulmonary valve atresia and stenosis	*						
Pyloric stenosis	8	34.74					
Reduction deformity, upper limbs	*						
Renal agenesis/hypoplasia	*						
Total anomalous pulmonary venous connection	*						

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

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County	Live Births			County	Live Births		
Defect		Total	Rate	Defect	Total		Rate
MORGAN	4140			MORGAN	4140		
All Defects		156	376.81	Obstructive genitourinary defect	17		41.06
Aortic valve stenosis		*		Patent ductus arteriosus	7		16.91
Atrial septal defect		25	60.39	Pulmonary valve atresia and stenosis	*		
Atrioventricular septal defect		*		Pyloric stenosis	22		53.14
Autism		9	21.74	Rectal and large intestinal atresia/stenosis	*		
Biliary atresia		*		Renal agenesis/hypoplasia	*		
Bladder exstrophy		*		Spina bifida without anencephalus	*		
Choanal atresia		*		Tetralogy of fallot	*		
Cleft lip with and without cleft palate		*		Transposition of great arteries	*		
Cleft palate without cleft lip		*		Tricuspid valve atresia and stenosis	*		
Coarctation of aorta		6	14.49	Ventricular septal defect	12		28.99
Congenital hip dislocation		*					
Diaphragmatic hernia		*					
Down syndrome		*					
Encephalocele		*					
Epispadias		*					
Esophageal atresia/tracheoesophageal fistula		*					
Fetus or newborn affected by maternal alcohol use		*					
Gastroschisis		*					
Hirschsprung's disease (congenital megacolon)		*					
Hydrocephalus without Spina Bifida		5	12.08				
Hypospadias		12	28.99				
Microcephalus		*					

Note 1—* indicates < 5 in number occurred.

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County	Live Births			County	Live Births	
Defect		Total	Rate	Defect	Total	Rate
NEWTON	741					
All Defects		21	283.4			
Anotia/microtia		*				
Atrial septal defect		*				
Autism		*				
Biliary atresia		*				
Choanal atresia		*				
Cleft palate without cleft lip		*				
Down syndrome		*				
Gastroschisis		*				
Hydrocephalus without Spina Bifida		*				
Hypospadias		*				
Obstructive genitourinary defect		*				
Patent ductus arteriosus		*				
Pyloric stenosis		*				
Ventricular septal defect		*				

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

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County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
NOBLE	3253			NOBLE	3253		
All Defects	129	396.56		Reduction deformity, lower limbs	*		
Aortic valve stenosis	*			Reduction deformity, upper limbs	*		
Atrial septal defect	30	92.22		Renal agenesis/hypoplasia	*		
Atrioventricular septal defect	*			Spina bifida without anencephalus	*		
Autism	6	18.44		Transposition of great arteries	*		
Choanal atresia	*			Trisomy 18 (Edwards syndrome)	*		
Cleft lip with and without cleft palate	*			Ventricular septal defect	14	43.04	
Cleft palate without cleft lip	*			OHIO	275		
Coarctation of aorta	5	15.37		All Defects	*		
Congenital hip dislocation	*			Cleft palate without cleft lip	*		
Down syndrome	*						
Ebstein anomaly	*						
Fetus or newborn affected by maternal alcohol use	*						
Gastroschisis	*						
Hirschsprung's disease (congenital megacolon)	*						
Hydrocephalus without Spina Bifida	*						
Hypoplastic left heart syndrome	*						
Hypospadias	6	18.44					
Microcephalus	5	15.37					
Obstructive genitourinary defect	8	24.59					
Patent ductus arteriosus	5	15.37					
Pulmonary valve atresia and stenosis	*						
Pyloric stenosis	11	33.81					

Note 1—* indicates < 5 in number occurred.

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Data compiled on 7/9/2013 3:43:31 PM

County	Live Births			County	Live Births		
Defect		Total	Rate	Defect	Total		Rate
ORANGE	1170			OWEN	1093		
All Defects		43	367.52	All Defects		46	420.86
Atrial septal defect		6	51.28	Anotia/microtia		*	
Autism		*		Atrial septal defect		9	82.34
Choanal atresia		*		Atrioventricular septal defect		*	
Cleft lip with and without cleft palate		*		Autism		*	
Cleft palate without cleft lip		*		Choanal atresia		*	
Coarctation of aorta		*		Cleft lip with and without cleft palate		*	
Diaphragmatic hernia		*		Cleft palate without cleft lip		*	
Down syndrome		*		Congenital hip dislocation		*	
Esophageal atresia/tracheoesophageal fistula		*		Diaphragmatic hernia		*	
Hirschsprung's disease (congenital megacolon)		*		Down syndrome		*	
Hypospadias		*		Hypospadias		6	54.89
Obstructive genitourinary defect		*		Obstructive genitourinary defect		*	
Patent ductus arteriosus		*		Patent ductus arteriosus		*	
Pyloric stenosis		*		Pyloric stenosis		*	
Rectal and large intestinal atresia/stenosis		*		Spina bifida without anencephalus		5	45.75
Tetralogy of fallot		*		Transposition of great arteries		*	
Transposition of great arteries		*		Ventricular septal defect		*	
Ventricular septal defect		6	51.28				

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County	Live Births			County	Live Births		
Defect		Total	Rate	Defect	Total		Rate
PARKE	903			PERRY	993		
All Defects		32	354.37	All Defects		19	191.34
Atrial septal defect		5	55.37	Choanal atresia		*	
Atrioventricular septal defect		*		Down syndrome		*	
Autism		*		Hypospadias		*	
Choanal atresia		*		Microcephalus		*	
Cleft palate without cleft lip		*		Obstructive genitourinary defect		5	50.35
Esophageal atresia/tracheoesophageal fistula		*		Patent ductus arteriosus		*	
Hypospadias		*		Pyloric stenosis		*	
Microcephalus		*		Rectal and large intestinal atresia/stenosis		*	
Obstructive genitourinary defect		*		Trisomy 18 (Edwards syndrome)		*	
Patent ductus arteriosus		*					
Pulmonary valve atresia and stenosis		*		PIKE	709		
Pyloric stenosis		*		All Defects		27	380.82
Spina bifida without anencephalus		*		Atrial septal defect		*	
Tetralogy of fallot		*		Encephalocele		*	
Ventricular septal defect		*		Esophageal atresia/tracheoesophageal fistula		*	
				Gastroschisis		*	
				Hypospadias		*	
				Microcephalus		*	
				Obstructive genitourinary defect		*	
				Patent ductus arteriosus		*	
				Pyloric stenosis		7	98.73
				Reduction deformity, upper limbs		*	
				Transposition of great arteries		*	
				Ventricular septal defect		*	

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

County	Live Births			County	Live Births		
Defect		Total	Rate	Defect	Total		Rate
PORTER	9057			PORTER	9057		
All Defects		232	256.16	Hypospadias	16		17.67
Aniridia		*		Microcephalus	7		7.73
Anophthalmia/microphthalmia		*		Obstructive genitourinary defect	24		26.5
Aortic valve stenosis		*		Omphalocele	*		
Atrial septal defect		22	24.29	Patent ductus arteriosus	11		12.15
Atrioventricular septal defect		*		Pulmonary valve atresia and stenosis	5		5.52
Autism		10	11.04	Pyloric stenosis	25		27.6
Biliary atresia		*		Rectal and large intestinal atresia/stenosis	*		
Cleft lip with and without cleft palate		5	5.52	Reduction deformity, lower limbs	*		
Cleft palate without cleft lip		9	9.94	Reduction deformity, upper limbs	10		11.04
Coarctation of aorta		*		Renal agenesis/hypoplasia	*		
Congenital cataract		*		Spina bifida without anencephalus	*		
Congenital hip dislocation		*		Tetralogy of fallot	*		
Diaphragmatic hernia		*		Total anomalous pulmonary venous connection	*		
Down syndrome		19	20.98	Transposition of great arteries	*		
Encephalocele		*		Trisomy 18 (Edwards syndrome)	*		
Epispadias		*		Ventricular septal defect	25		27.6
Esophageal atresia/tracheoesophageal fistula		*					
Fetus or newborn affected by maternal alcohol use		*					
Gastroschisis		*					
Hirschsprung's disease (congenital megacolon)		*					
Hydrocephalus without Spina Bifida		*					
Hypoplastic left heart syndrome		*					

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

Data compiled on 7/9/2013 3:43:31 PM

County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
POSEY	1347			PULASKI	779		
All Defects	35	259.84		All Defects	33	423.62	
Atrial septal defect	*			Aortic valve stenosis	*		
Autism	*			Atrial septal defect	*		
Cleft lip with and without cleft palate	*			Autism	*		
Coarctation of aorta	*			Cleft lip with and without cleft palate	*		
Ebstein anomaly	*			Cleft palate without cleft lip	*		
Hypospadias	6	44.54		Congenital hip dislocation	*		
Obstructive genitourinary defect	*			Hydrocephalus without Spina Bifida	*		
Patent ductus arteriosus	*			Hypospadias	5	64.18	
Pulmonary valve atresia and stenosis	*			Obstructive genitourinary defect	*		
Pyloric stenosis	8	59.39		Patent ductus arteriosus	*		
Renal agenesis/hypoplasia	*			Pyloric stenosis	12	154.04	
Tetralogy of fallot	*			Rectal and large intestinal atresia/stenosis	*		
Ventricular septal defect	*			Reduction deformity, lower limbs	*		
				Ventricular septal defect	*		

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

Data compiled on 7/9/2013 3:43:31 PM

County Defect	Live Births Total	Rate	County Defect	Live Births Total	Rate
PUTNAM	1910				
All Defects	65	340.31			
Anotia/microtia	*				
Atrial septal defect	12	62.83			
Atrioventricular septal defect	*				
Autism	*				
Biliary atresia	*				
Choanal atresia	*				
Cleft palate without cleft lip	*				
Down syndrome	*				
Esophageal atresia/tracheoesophageal fistula	*				
Gastroschisis	*				
Hirschsprung's disease (congenital megacolon)	*				
Hydrocephalus without Spina Bifida	*				
Hypospadias	*				
Microcephalus	*				
Obstructive genitourinary defect	*				
Patent ductus arteriosus	*				
Pyloric stenosis	7	36.65			
Reduction deformity, upper limbs	5	26.18			
Renal agenesis/hypoplasia	*				
Spina bifida without anencephalus	*				
Tetralogy of fallot	*				
Transposition of great arteries	*				
Ventricular septal defect	8	41.88			

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

Data compiled on 7/9/2013 3:43:31 PM

County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
RANDOLPH	1487			RANDOLPH	1487		
All Defects	75	504.37		Reduction deformity, upper limbs	*		
Anophthalmia/microphthalmia	*			Renal agenesis/hypoplasia	*		
Aortic valve stenosis	*			Tetralogy of fallot	*		
Atrial septal defect	12	80.7		Transposition of great arteries	*		
Atrioventricular septal defect	*			Ventricular septal defect	10	67.25	
Autism	*						
Choanal atresia	*			RIPLEY	1686		
Cleft lip with and without cleft palate	*			All Defects	28	166.07	
Cleft palate without cleft lip	*			Aniridia	*		
Coarctation of aorta	*			Cleft lip with and without cleft palate	*		
Congenital hip dislocation	*			Cleft palate without cleft lip	*		
Diaphragmatic hernia	*			Congenital hip dislocation	*		
Down syndrome	*			Esophageal atresia/tracheoesophageal fistula	*		
Esophageal atresia/tracheoesophageal fistula	*			Gastroschisis	*		
Gastroschisis	*			Hypospadias	8	47.45	
Hydrocephalus without Spina Bifida	*			Microcephalus	*		
Hypospadias	8	53.8		Obstructive genitourinary defect	*		
Microcephalus	*			Pulmonary valve atresia and stenosis	*		
Obstructive genitourinary defect	7	47.07		Pyloric stenosis	*		
Patent ductus arteriosus	*			Reduction deformity, lower limbs	*		
Pulmonary valve atresia and stenosis	*			Renal agenesis/hypoplasia	*		
Pyloric stenosis	6	40.35		Spina bifida without anencephalus	*		
Rectal and large intestinal atresia/stenosis	*						

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

Data compiled on 7/9/2013 3:43:31 PM

County Defect	Live Births Total	Rate	County Defect	Live Births Total	Rate
RUSH	947				
All Defects	37	390.71			
Atrial septal defect	*				
Atrioventricular septal defect	*				
Cleft palate without cleft lip	*				
Coarctation of aorta	*				
Down syndrome	*				
Hirschsprung's disease (congenital megacolon)	*				
Hydrocephalus without Spina Bifida	*				
Hypospadias	6	63.36			
Microcephalus	*				
Obstructive genitourinary defect	5	52.8			
Patent ductus arteriosus	*				
Pyloric stenosis	7	73.92			
Rectal and large intestinal atresia/stenosis	*				
Ventricular septal defect	*				

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

Data compiled on 7/9/2013 3:43:31 PM

County	Live Births			County	Live Births		
Defect		Total	Rate	Defect		Total	Rate
ST. JOSEPH	18120			ST. JOSEPH	18120		
All Defects		530	292.49	Hydrocephalus without Spina Bifida		19	10.49
Aniridia		*		Hypoplastic left heart syndrome		5	2.76
Anophthalmia/microphthalmia		*		Hypospadias		41	22.63
Anotia/microtia		*		Microcephalus		17	9.38
Aortic valve stenosis		*		Obstructive genitourinary defect		32	17.66
Atrial septal defect		46	25.39	Patent ductus arteriosus		42	23.18
Atrioventricular septal defect		7	3.86	Pulmonary valve atresia and stenosis		13	7.17
Autism		38	20.97	Pyloric stenosis		43	23.73
Biliary atresia		*		Rectal and large intestinal atresia/stenosis		7	3.86
Choanal atresia		*		Reduction deformity, lower limbs		*	
Cleft lip with and without cleft palate		19	10.49	Reduction deformity, upper limbs		6	3.31
Cleft palate without cleft lip		12	6.62	Renal agenesis/hypoplasia		11	6.07
Coarctation of aorta		7	3.86	Spina bifida without anencephalus		7	3.86
Common truncus		*		Tetralogy of fallot		*	
Congenital cataract		*		Total anomalous pulmonary venous connection		*	
Congenital hip dislocation		8	4.42	Transposition of great arteries		*	
Diaphragmatic hernia		*		Tricuspid valve atresia and stenosis		*	
Down syndrome		27	14.9	Trisomy 13 (Patau syndrome)		*	
Encephalocele		*		Trisomy 18 (Edwards syndrome)		*	
Esophageal atresia/tracheoesophageal fistula		*		Ventricular septal defect		62	34.22
Fetus or newborn affected by maternal alcohol use		8	4.42				
Gastroschisis		11	6.07				
Hirschsprung's disease (congenital megacolon)		*					

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

County	Live Births			County	Live Births	
Defect		Total	Rate	Defect	Total	Rate
SCOTT	1417					
All Defects		10	70.57			
Atrial septal defect		*				
Hypospadias		*				
Microcephalus		*				
Obstructive genitourinary defect		*				
Pulmonary valve atresia and stenosis		*				
Spina bifida without anencephalus		*				
Transposition of great arteries		*				
Ventricular septal defect		*				

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

Data compiled on 7/9/2013 3:43:31 PM

County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
SHELBY	2661			SHELBY	2661		
All Defects	126	473.51		Obstructive genitourinary defect	11	41.34	
Anophthalmia/microphthalmia	*			Patent ductus arteriosus	7	26.31	
Anotia/microtia	*			Pulmonary valve atresia and stenosis	*		
Aortic valve stenosis	*			Pyloric stenosis	6	22.55	
Atrial septal defect	16	60.13		Rectal and large intestinal atresia/stenosis	*		
Atrioventricular septal defect	*			Reduction deformity, upper limbs	8	30.06	
Autism	*			Renal agenesis/hypoplasia	*		
Choanal atresia	*			Spina bifida without anencephalus	*		
Cleft lip with and without cleft palate	6	22.55		Total anomalous pulmonary venous connection	*		
Cleft palate without cleft lip	*			Transposition of great arteries	*		
Coarctation of aorta	*			Ventricular septal defect	14	52.61	
Congenital hip dislocation	*						
Diaphragmatic hernia	*						
Down syndrome	*						
Ebstein anomaly	*						
Encephalocele	*						
Esophageal atresia/tracheoesophageal fistula	*						
Gastroschisis	*						
Hirschsprung's disease (congenital megacolon)	*						
Hydrocephalus without Spina Bifida	*						
Hypoplastic left heart syndrome	*						
Hypospadias	9	33.82					
Microcephalus	5	18.79					

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

Data compiled on 7/9/2013 3:43:31 PM

County	Live Births			County	Live Births		
Defect		Total	Rate	Defect		Total	Rate
SPENCER	1015			STARKE	1441		
All Defects		30	295.57	All Defects		36	249.83
Anotia/microtia		*		Atrial septal defect		*	
Atrial septal defect		*		Autism		*	
Atrioventricular septal defect		*		Cleft lip with and without cleft palate		*	
Autism		*		Cleft palate without cleft lip		*	
Congenital hip dislocation		*		Encephalocele		*	
Diaphragmatic hernia		*		Fetus or newborn affected by maternal alcohol use		*	
Down syndrome		*		Hypoplastic left heart syndrome		*	
Encephalocele		*		Hypospadias		6	41.64
Epispadias		*		Microcephalus		*	
Hydrocephalus without Spina Bifida		*		Obstructive genitourinary defect		*	
Hypospadias		*		Patent ductus arteriosus		*	
Obstructive genitourinary defect		*		Pyloric stenosis		*	
Patent ductus arteriosus		*		Tetralogy of fallot		*	
Pulmonary valve atresia and stenosis		*		Trisomy 18 (Edwards syndrome)		*	
Pyloric stenosis		*		Ventricular septal defect		*	
Reduction deformity, upper limbs		*					
Ventricular septal defect		*					

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

County	Live Births			County	Live Births		
Defect		Total	Rate	Defect		Total	Rate
STEUBEN	1804			STEUBEN	1804		
All Defects		73	404.66	Ventricular septal defect		12	66.52
Anotia/microtia		*					
Aortic valve stenosis		*		SULLIVAN	1060		
Atrial septal defect		10	55.43	All Defects		36	339.62
Autism		*		Atrial septal defect		5	47.17
Cleft lip with and without cleft palate		*		Autism		*	
Cleft palate without cleft lip		*		Cleft lip with and without cleft palate		*	
Coarctation of aorta		*		Down syndrome		*	
Congenital hip dislocation		*		Gastroschisis		*	
Diaphragmatic hernia		*		Hypoplastic left heart syndrome		*	
Down syndrome		6	33.26	Hypospadias		*	
Esophageal atresia/tracheoesophageal fistula		*		Microcephalus		*	
Fetus or newborn affected by maternal alcohol use		*		Obstructive genitourinary defect		*	
Gastroschisis		*		Patent ductus arteriosus		*	
Hydrocephalus without Spina Bifida		*		Pulmonary valve atresia and stenosis		*	
Hypospadias		11	60.98	Pyloric stenosis		*	
Obstructive genitourinary defect		*		Rectal and large intestinal atresia/stenosis		*	
Patent ductus arteriosus		*		Reduction deformity, upper limbs		*	
Pulmonary valve atresia and stenosis		*		Renal agenesis/hypoplasia		*	
Pyloric stenosis		9	49.89	Spina bifida without anencephalus		*	
Rectal and large intestinal atresia/stenosis		*		Total anomalous pulmonary venous connection		*	
Transposition of great arteries		*		Ventricular septal defect		*	

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

County	Live Births			County	Live Births		
Defect		Total	Rate	Defect	Total	Rate	
SWITZERLAND	587						
All Defects		*					
Down syndrome		*					
Hypospadias		*					
Ventricular septal defect		*					

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

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County	Live Births			County	Live Births		
Defect		Total	Rate	Defect	Total		Rate
TIPPECANOE	11024			TIPPECANOE	11024		
All Defects		460	417.27	Obstructive genitourinary defect	47		42.63
Anotia/microtia		*		Patent ductus arteriosus	30		27.21
Aortic valve stenosis		*		Pulmonary valve atresia and stenosis	12		10.89
Atrial septal defect		68	61.68	Pyloric stenosis	26		23.58
Atrioventricular septal defect		6	5.44	Rectal and large intestinal atresia/stenosis	11		9.98
Autism		24	21.77	Reduction deformity, upper limbs	*		
Biliary atresia		*		Renal agenesis/hypoplasia	*		
Choanal atresia		*		Spina bifida without anencephalus	*		
Cleft lip with and without cleft palate		6	5.44	Total anomalous pulmonary venous connection	*		
Cleft palate without cleft lip		7	6.35	Transposition of great arteries	5		4.54
Coarctation of aorta		8	7.26	Trisomy 13 (Patau syndrome)	*		
Congenital cataract		7	6.35	Ventricular septal defect	75		68.03
Congenital hip dislocation		15	13.61				
Down syndrome		18	16.33				
Epispadias		*					
Esophageal atresia/tracheoesophageal fistula		5	4.54				
Fetus or newborn affected by maternal alcohol use		*					
Gastroschisis		6	5.44				
Hirschsprung's disease (congenital megacolon)		*					
Hydrocephalus without Spina Bifida		*					
Hypoplastic left heart syndrome		*					
Hypospadias		35	31.75				
Microcephalus		15	13.61				

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

County Defect	Live Births Total	Rate	County Defect	Live Births Total	Rate
TIPTON	802				
All Defects	39	486.28			
Anotia/microtia	*				
Aortic valve stenosis	*				
Atrial septal defect	*				
Autism	*				
Choanal atresia	*				
Cleft lip with and without cleft palate	*				
Coarctation of aorta	*				
Congenital cataract	*				
Congenital hip dislocation	*				
Down syndrome	*				
Gastroschisis	*				
Hypospadias	7	87.28			
Obstructive genitourinary defect	*				
Patent ductus arteriosus	*				
Pulmonary valve atresia and stenosis	*				
Pyloric stenosis	*				
Reduction deformity, upper limbs	*				
Spina bifida without anencephalus	*				
Ventricular septal defect	*				
UNION	197				
All Defects	*				
Autism	*				

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
VANDERBURGH	11863			VANDERBURGH	11863		
All Defects	384	323.7		Hypoplastic left heart syndrome	*		
Anophthalmia/microphthalmia	*			Hypospadias	42	35.4	
Anotia/microtia	*			Microcephalus	7	5.9	
Atrial septal defect	31	26.13		Obstructive genitourinary defect	34	28.66	
Atrioventricular septal defect	6	5.06		Patent ductus arteriosus	25	21.07	
Autism	13	10.96		Pulmonary valve atresia and stenosis	14	11.8	
Biliary atresia	*			Pyloric stenosis	44	37.09	
Bladder exstrophy	*			Rectal and large intestinal atresia/stenosis	*		
Cleft lip with and without cleft palate	8	6.74		Reduction deformity, lower limbs	*		
Cleft palate without cleft lip	7	5.9		Reduction deformity, upper limbs	5	4.21	
Coarctation of aorta	6	5.06		Renal agenesis/hypoplasia	9	7.59	
Common truncus	*			Spina bifida without anencephalus	6	5.06	
Congenital hip dislocation	*			Tetralogy of fallot	6	5.06	
Diaphragmatic hernia	5	4.21		Total anomalous pulmonary venous connection	*		
Down syndrome	6	5.06		Transposition of great arteries	13	10.96	
Ebstein anomaly	*			Tricuspid valve atresia and stenosis	*		
Encephalocele	*			Trisomy 18 (Edwards syndrome)	*		
Epispadias	*			Ventricular septal defect	51	42.99	
Esophageal atresia/tracheoesophageal fistula	*						
Fetus or newborn affected by maternal alcohol use	*						
Gastroschisis	5	4.21					
Hirschsprung's disease (congenital megacolon)	*						
Hydrocephalus without Spina Bifida	6	5.06					

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

County Defect	Live Births Total	Rate	County Defect	Live Births Total	Rate
VERMILLION	774				
All Defects	28	361.76			
Atrial septal defect	6	77.52			
Autism	*				
Cleft lip with and without cleft palate	*				
Cleft palate without cleft lip	*				
Gastroschisis	*				
Hydrocephalus without Spina Bifida	*				
Hypospadias	*				
Microcephalus	*				
Obstructive genitourinary defect	*				
Patent ductus arteriosus	*				
Pulmonary valve atresia and stenosis	*				
Pyloric stenosis	*				
Tetralogy of fallot	*				

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

Data compiled on 7/9/2013 3:43:31 PM

County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
VIGO	6483			VIGO	6483		
All Defects	259	399.51		Pulmonary valve atresia and stenosis	9	13.88	
Aortic valve stenosis	*			Pyloric stenosis	21	32.39	
Atrial septal defect	29	44.73		Rectal and large intestinal atresia/stenosis	6	9.25	
Atrioventricular septal defect	*			Reduction deformity, lower limbs	*		
Autism	26	40.1		Reduction deformity, upper limbs	13	20.05	
Cleft lip with and without cleft palate	7	10.8		Renal agenesis/hypoplasia	*		
Cleft palate without cleft lip	5	7.71		Spina bifida without anencephalus	*		
Coarctation of aorta	*			Tetralogy of fallot	*		
Congenital cataract	*			Transposition of great arteries	*		
Congenital hip dislocation	8	12.34		Ventricular septal defect	32	49.36	
Diaphragmatic hernia	*						
Down syndrome	8	12.34					
Ebstein anomaly	*						
Epispadias	*						
Esophageal atresia/tracheoesophageal fistula	*						
Fetus or newborn affected by maternal alcohol use	*						
Hirschsprung's disease (congenital megacolon)	*						
Hydrocephalus without Spina Bifida	6	9.25					
Hypoplastic left heart syndrome	*						
Hypospadias	14	21.59					
Microcephalus	14	21.59					
Obstructive genitourinary defect	11	16.97					
Patent ductus arteriosus	18	27.76					

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

Data compiled on 7/9/2013 3:43:31 PM

County	Live Births			County	Live Births		
Defect		Total	Rate	Defect	Total		Rate
WABASH	1859			WARREN	453		
All Defects		78	419.58	All Defects	15		331.13
Atrial septal defect		10	53.79	Atrial septal defect	*		
Autism		7	37.65	Autism	*		
Cleft palate without cleft lip		*		Congenital hip dislocation	*		
Congenital hip dislocation		*		Down syndrome	*		
Diaphragmatic hernia		*		Hypospadias	*		
Fetus or newborn affected by maternal alcohol use		6	32.28	Obstructive genitourinary defect	*		
Hirschsprung's disease (congenital megacolon)		*		Patent ductus arteriosus	*		
Hypospadias		10	53.79	Pyloric stenosis	*		
Microcephalus		7	37.65	Spina bifida without anencephalus	*		
Obstructive genitourinary defect		*		Ventricular septal defect	*		
Patent ductus arteriosus		5	26.9				
Pulmonary valve atresia and stenosis		*					
Pyloric stenosis		9	48.41				
Reduction deformity, upper limbs		*					
Spina bifida without anencephalus		*					
Transposition of great arteries		*					
Trisomy 18 (Edwards syndrome)		*					
Ventricular septal defect		8	43.03				

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

Data compiled on 7/9/2013 3:43:31 PM

County	Live Births			County	Live Births		
Defect	Total	Rate		Defect	Total	Rate	
WARRICK	3410			WARRICK	3410		
All Defects	103	302.05		Trisomy 18 (Edwards syndrome)	*		
Anophthalmia/microphthalmia	*			Ventricular septal defect	22	64.52	
Atrial septal defect	7	20.53		WASHINGTON	1475		
Autism	*			All Defects	21	142.37	
Cleft lip with and without cleft palate	*			Atrial septal defect	*		
Cleft palate without cleft lip	*			Cleft lip with and without cleft palate	*		
Coarctation of aorta	*			Cleft palate without cleft lip	*		
Congenital hip dislocation	*			Hypospadias	*		
Diaphragmatic hernia	*			Obstructive genitourinary defect	*		
Down syndrome	*			Patent ductus arteriosus	*		
Encephalocele	*			Rectal and large intestinal atresia/stenosis	*		
Fetus or newborn affected by maternal alcohol use	*			Reduction deformity, upper limbs	*		
Gastroschisis	*			Ventricular septal defect	8	54.24	
Hydrocephalus without Spina Bifida	*						
Hypospadias	17	49.85					
Obstructive genitourinary defect	5	14.66					
Patent ductus arteriosus	6	17.6					
Pulmonary valve atresia and stenosis	*						
Pyloric stenosis	10	29.33					
Renal agenesis/hypoplasia	*						
Spina bifida without anencephalus	7	20.53					
Tetralogy of fallot	*						
Transposition of great arteries	*						

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

Data compiled on 7/9/2013 3:43:31 PM

County	Live Births			County	Live Births		
Defect		Total	Rate	Defect		Total	Rate
WAYNE	4165			WAYNE	4165		
All Defects		106	254.5	Tetralogy of fallot		*	
Anotia/microtia		*		Transposition of great arteries		*	
Atrial septal defect		14	33.61	Trisomy 18 (Edwards syndrome)		*	
Autism		7	16.81	Ventricular septal defect	13		31.21
Cleft lip with and without cleft palate		*					
Cleft palate without cleft lip		*					
Coarctation of aorta		*					
Congenital hip dislocation		*					
Down syndrome		*					
Epispadias		*					
Esophageal atresia/tracheoesophageal fistula		*					
Fetus or newborn affected by maternal alcohol use		*					
Gastroschisis		*					
Hydrocephalus without Spina Bifida		*					
Hypoplastic left heart syndrome		*					
Hypospadias		8	19.21				
Microcephalus		5	12				
Obstructive genitourinary defect		6	14.41				
Patent ductus arteriosus		6	14.41				
Pulmonary valve atresia and stenosis		*					
Pyloric stenosis		10	24.01				
Reduction deformity, upper limbs		*					
Renal agenesis/hypoplasia		*					

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

County	Live Births			County	Live Births		
Defect		Total	Rate	Defect		Total	Rate
WELLS	1669			WHITE	1490		
All Defects		93	557.22	All Defects		55	369.13
Atrial septal defect		17	101.86	Atrial septal defect		5	33.56
Atrioventricular septal defect		*		Atrioventricular septal defect		*	
Autism		*		Autism		*	
Cleft lip with and without cleft palate		*		Cleft palate without cleft lip		*	
Cleft palate without cleft lip		*		Coarctation of aorta		*	
Coarctation of aorta		*		Congenital hip dislocation		*	
Congenital hip dislocation		*		Down syndrome		*	
Down syndrome		6	35.95	Hydrocephalus without Spina Bifida		*	
Epispadias		*		Hypospadias		*	
Fetus or newborn affected by maternal alcohol use		*		Microcephalus		*	
Hypospadias		12	71.9	Obstructive genitourinary defect		5	33.56
Microcephalus		*		Patent ductus arteriosus		*	
Obstructive genitourinary defect		*		Pulmonary valve atresia and stenosis		*	
Patent ductus arteriosus		6	35.95	Pyloric stenosis		8	53.69
Pulmonary valve atresia and stenosis		*		Reduction deformity, lower limbs		*	
Pyloric stenosis		*		Tetralogy of fallot		*	
Rectal and large intestinal atresia/stenosis		*		Ventricular septal defect		8	53.69
Tetralogy of fallot		*					
Transposition of great arteries		*					
Ventricular septal defect		18	107.85				

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

County	Live Births			County	Live Births	
Defect		Total	Rate	Defect	Total	Rate
WHITLEY	1997					
All Defects		69	345.52			
Atrial septal defect		16	80.12			
Atrioventricular septal defect		*				
Autism		8	40.06			
Coarctation of aorta		*				
Congenital hip dislocation		*				
Down syndrome		5	25.04			
Epispadias		*				
Fetus or newborn affected by maternal alcohol use		*				
Gastroschisis		*				
Hydrocephalus without Spina Bifida		*				
Hypospadias		7	35.05			
Obstructive genitourinary defect		7	35.05			
Patent ductus arteriosus		5	25.04			
Pulmonary valve atresia and stenosis		*				
Pyloric stenosis		*				
Rectal and large intestinal atresia/stenosis		*				
Reduction deformity, upper limbs		*				
Ventricular septal defect		6	30.05			

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

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County Defect	Live Births Total	Rate	County Defect	Live Births Total	Rate
UNKNOWN	8242		UNKNOWN	8242	
All Defects	217	263.29	Pyloric stenosis	19	23.05
Aortic valve stenosis	*		Rectal and large intestinal atresia/stenosis	6	7.28
Atrial septal defect	19	23.05	Reduction deformity, lower limbs	*	
Atrioventricular septal defect	*		Reduction deformity, upper limbs	5	6.07
Autism	20	24.27	Renal agenesis/hypoplasia	*	
Choanal atresia	*		Spina bifida without anencephalus	*	
Cleft lip with and without cleft palate	*		Tetralogy of fallot	*	
Cleft palate without cleft lip	*		Transposition of great arteries	*	
Coarctation of aorta	9	10.92	Tricuspid valve atresia and stenosis	*	
Congenital hip dislocation	6	7.28	Trisomy 18 (Edwards syndrome)	*	
Diaphragmatic hernia	*		Ventricular septal defect	22	26.69
Down syndrome	6	7.28			
Ebstein anomaly	*				
Encephalocele	*				
Fetus or newborn affected by maternal alcohol use	*				
Hirschsprung's disease (congenital megacolon)	*				
Hydrocephalus without Spina Bifida	5	6.07			
Hypoplastic left heart syndrome	*				
Hypospadias	20	24.27			
Microcephalus	10	12.13			
Obstructive genitourinary defect	16	19.41			
Patent ductus arteriosus	10	12.13			
Pulmonary valve atresia and stenosis	7	8.49			

Note 1—* indicates < 5 in number occurred.

Note 2—Rates based on fewer than 20 cases are unstable and are not comparable.

Data compiled on 7/9/2013 3:43:31 PM