

Population-based Birth Defects Surveillance Data from Selected States, 2000-2004

In this issue, 32 population-based birth defects surveillance programs provided data for the time period January 1, 2000 through December 31, 2004. Differences in surveillance methodology among states preclude the ability to provide rates for all programs combined; information on the programs' methodology is available in the state birth defects surveillance program directory on pages 815-873.

The Data Committee of the National Birth Defects Prevention Network (NBDPN) issued a data request to population-based birth defects programs for prevalence data on 45 specific birth defects as detailed in Appendix A on page 943. Programs were also asked to identify the occurrence of each specific defect for all live births, stillbirths and terminations (if collected), and to stratify the data by racial/ethnic group and, for certain defects (trisomy 13, 18 and 21), by maternal age. To calculate rates, programs were also asked to provide the number of live births for each calendar year submitted. Due to unstable numbers, the rate for the unknown/other category is not calculated.

An attempt was made to standardize both the request and presentation of state surveillance data, however, differences in the way programs collect and report birth defects data are listed in the footnotes of the accompanying tables and may be referenced in the program directories. Along with the inability of some programs to provide data for each of the years included in the report, others varied in their ability to report counts and rates by race/ethnicity, and still others were unable to provide data for each specific defect requested due to differences in the coding systems (i.e., ICD-9-CM vs. CDC/BPA) used to classify birth defects.

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LITERATURE CITED

- National Birth Defects Prevention Network (NBDPN). 1997. Congenital malformations surveillance report. *Teratology* 56(1/2):115-175.
- National Birth Defects Prevention Network (NBDPN). 2000. Congenital malformations surveillance report. *Teratology* 61(1):86-158
- National Birth Defects Prevention Network (NBDPN). 2001. Congenital malformations surveillance report. *Teratology* 64(supplement1):S117-S175.
- National Birth Defects Prevention Network (NBDPN). 2002. Congenital malformations surveillance report. *Teratology* 66(supplement1):S129-S219.
- National Birth Defects Prevention Network (NBDPN). 2003. Congenital malformations surveillance report. *Birth Defects Research (Part A)* 67:729-818.
- National Birth Defects Prevention Network (NBDPN). 2004. Congenital malformations surveillance report. *Birth Defects Research (Part A)* 70:677-771.
- National Birth Defects Prevention Network (NBDPN). 2004. Congenital malformations surveillance report. *Birth Defects Research (Part A)* 70:677-771.
- National Birth Defects Prevention Network (NBDPN). 2005. Congenital malformations surveillance report. *Birth Defects Research (Part A)* 73:758-853.
- National Birth Defects Prevention Network (NBDPN). 2006. Congenital malformations surveillance report. *Birth Defects Research (Part A)* 76:894-958.

Alabama
Birth Defects Counts and Rates 2000-2004
(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Amniotic bands	9 <i>1.86</i>	5 <i>1.56</i>	1 <i>4.46</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	15 <i>1.79</i>	
Anencephalus	15 <i>3.11</i>	5 <i>1.56</i>	1 <i>4.46</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	21 <i>2.51</i>	
Aniridia	1 <i>0.21</i>	2 <i>0.63</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	3 <i>0.36</i>	
Anophthalmia/ microphthalmia	11 <i>2.28</i>	8 <i>2.50</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>26.32</i>	0	20 <i>2.39</i>	
Anotia/microtia	6 <i>1.24</i>	1 <i>0.31</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	7 <i>0.84</i>	
Aortic valve stenosis	16 <i>3.32</i>	2 <i>0.63</i>	2 <i>8.91</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	20 <i>2.39</i>	
Atrial septal defect	76 <i>15.75</i>	49 <i>15.32</i>	4 <i>17.83</i>	2 <i>23.45</i>	1 <i>26.32</i>	0	132 <i>15.76</i>	+
Biliary atresia	2 <i>0.41</i>	2 <i>0.63</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	4 <i>0.48</i>	
Bladder exstrophy	2 <i>0.41</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	2 <i>0.24</i>	
Choanal atresia	3 <i>0.62</i>	3 <i>0.94</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	6 <i>0.72</i>	
Cleft lip with and without cleft palate	60 <i>12.43</i>	22 <i>6.88</i>	4 <i>17.83</i>	2 <i>23.45</i>	0 <i>0.00</i>	0	88 <i>10.50</i>	
Cleft palate without cleft lip	49 <i>10.15</i>	17 <i>5.31</i>	3 <i>13.37</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	69 <i>8.24</i>	
Coarctation of aorta	17 <i>3.52</i>	9 <i>2.81</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	26 <i>3.10</i>	
Common truncus	2 <i>0.41</i>	2 <i>0.63</i>	1 <i>4.46</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	5 <i>0.60</i>	
Congenital cataract	4 <i>0.83</i>	6 <i>1.88</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	10 <i>1.19</i>	
Congenital hip dislocation	6 <i>1.24</i>	3 <i>0.94</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	9 <i>1.07</i>	+
Diaphragmatic hernia	13 <i>2.69</i>	7 <i>2.19</i>	1 <i>4.46</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	21 <i>2.51</i>	
Down syndrome (Trisomy 21)	67 <i>13.88</i>	41 <i>12.82</i>	3 <i>13.37</i>	1 <i>11.72</i>	0 <i>0.00</i>	0	112 <i>13.37</i>	
Ebstein anomaly	3 <i>0.62</i>	2 <i>0.63</i>	1 <i>4.46</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	6 <i>0.72</i>	
Encephalocele	6 <i>1.24</i>	4 <i>1.25</i>	1 <i>4.46</i>	0 <i>0.00</i>	1 <i>26.32</i>	0	12 <i>1.43</i>	
Endocardial cushion defect	21 <i>4.35</i>	24 <i>7.50</i>	1 <i>4.46</i>	1 <i>11.72</i>	0 <i>0.00</i>	0	47 <i>5.61</i>	
Esophageal atresia/ tracheoesophageal fistula	12 <i>2.49</i>	5 <i>1.56</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	17 <i>2.03</i>	
Fetus or newborn affected by maternal alcohol use	1 <i>0.21</i>	4 <i>1.25</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	5 <i>0.60</i>	
Gastroschisis	13 <i>2.69</i>	4 <i>1.25</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	17 <i>2.03</i>	
Hirschsprung disease (congenital megacolon)	8 <i>1.66</i>	8 <i>2.50</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	16 <i>1.91</i>	
Hydrocephalus without Spina Bifida	33 <i>6.84</i>	29 <i>9.07</i>	2 <i>8.91</i>	0 <i>0.00</i>	2 <i>52.63</i>	0	66 <i>7.88</i>	
Hypoplastic left heart syndrome	7 <i>1.45</i>	4 <i>1.25</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	11 <i>1.31</i>	
Hypospadias and Epispadias	88 <i>18.23</i>	62 <i>19.38</i>	0 <i>0.00</i>	1 <i>11.72</i>	1 <i>26.32</i>	1	153 <i>18.26</i>	+
Microcephalus	35 <i>7.25</i>	32 <i>10.00</i>	2 <i>8.91</i>	2 <i>23.45</i>	0 <i>0.00</i>	0	71 <i>8.47</i>	
Obstructive genitourinary defect	101 <i>20.93</i>	52 <i>16.26</i>	1 <i>4.46</i>	1 <i>11.72</i>	6 <i>157.89</i>	0	161 <i>19.22</i>	

Alabama

Birth Defects Counts and Rates 2000-2004

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Omphalocele	8 1.66	10 3.13	1 4.46	0 0.00	0 0.00	0 0	19 2.27	
Pulmonary valve atresia and stenosis	13 2.69	11 3.44	2 8.91	0 0.00	0 0.00	0 0	26 3.10	
Pyloric stenosis	103 21.34	20 6.25	4 17.83	0 0.00	0 0.00	0 0	127 15.16	
Rectal and large intestinal atresia/stenosis	17 3.52	10 3.13	1 4.46	2 23.45	0 0.00	0 0	30 3.58	
Reduction deformity, lower limbs	8 1.66	7 2.19	0 0.00	0 0.00	0 0.00	0 0	15 1.79	
Reduction deformity, upper limbs	27 5.59	13 4.06	1 4.46	0 0.00	0 0.00	0 0	41 4.89	
Renal agenesis/hypoplasia	43 8.91	24 7.50	1 4.46	0 0.00	2 52.63	0 0	70 8.36	
Spina bifida without anencephalus	10 2.07	10 3.13	3 13.37	0 0.00	1 26.32	0 0	24 2.86	
Tetralogy of Fallot	14 2.90	15 4.69	1 4.46	0 0.00	0 0.00	0 0	30 3.58	
Transposition of great arteries	18 3.73	6 1.88	0 0.00	0 0.00	1 26.32	0 0	25 2.98	
Tricuspid valve atresia and stenosis	2 0.41	4 1.25	0 0.00	0 0.00	0 0.00	0 0	6 0.72	
Trisomy 13 (Patau syndrome)	12 2.49	4 1.25	0 0.00	0 0.00	0 0.00	0 0	16 1.91	
Trisomy 18 (Edwards syndrome)	16 3.32	10 3.13	0 0.00	0 0.00	0 0.00	0 0	26 3.10	
Ventricular septal defect	70 14.50	34 10.63	3 13.37	1 11.72	1 26.32	0 0	109 13.01	+
Total Live Births	48265	31989	2244	853	380		83779	

Alabama

Trisomy Counts and Rates by Maternal Age 2000-2004

(Rates per 10,000 Live Births)

Defect	Age		Total (**)
	<35	35 and >	
Down syndrome (Trisomy 21)	60 7.83	50 69.83	110 13.13
Trisomy 13 (Patau syndrome)	9 1.17	7 9.78	16 1.91
Trisomy 18 (Edwards syndrome)	11 1.44	13 18.16	24 2.86
Total Live Births	76603	7160	83779

(**) Total includes unknown age

(+)Notes:

- 1: 2000-2004, Ventricular septal defect: isolated cases not reported
- 2: 2000-2004, Atrial septal defect: isolated cases not reported
- 3: 2000-2004, Hypospadias and Epispadias: isolated 1st degree hypospadias not reported
- 4: 2000-2004, Congenital hip dislocation: isolated cases not reported

Alaska
Birth Defects Counts and Rates 2000-2004
 (Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Anencephalus	<6				<6		<6	+
Aniridia	<6				<6		<6	
Anophthalmia/ microphthalmia	6				14		22	
	1.89				11.30		4.37	
Anotia/microtia	<6				8		16	
					6.46		3.18	
Aortic valve stenosis	8				<6		12	
	2.52						2.38	
Atrial septal defect	233				222		555	
	73.40				179.19		110.23	
Biliary atresia	<6				7		10	
					5.65		1.99	
Bladder exstrophy	<6				<6		<6	
Choanal atresia	9				<6		17	
	2.84						3.38	
Cleft lip with and without cleft palate	32				34		75	
	10.08				27.44		14.90	
Cleft palate without cleft lip	47				41		104	
	14.81				33.09		20.66	
Coarctation of aorta	23				12		37	
	7.25				9.69		7.35	
Common truncus	<6				<6		7	
							1.39	
Congenital cataract	12				7		24	
	3.78				5.65		4.77	
Congenital hip dislocation	68				29		113	
	21.42				23.41		22.44	
Diaphragmatic hernia	10				14		28	
	3.15				11.30		5.56	
Down syndrome (Trisomy 21)	40				28		84	
	12.60				22.60		16.68	
Ebstein anomaly	<6				<6		<6	
Encephalocele	<6				<6		11	
							2.18	
Endocardial cushion defect	17				9		26	
	5.36				7.26		5.16	
Esophageal atresia/ tracheoesophageal fistula	9				<6		13	
	2.84						2.58	
Hirschsprung disease (congenital megacolon)	27				13		45	
	8.51				10.49		8.94	
Hydrocephalus without Spina Bifida	23				30		65	
	7.25				24.22		12.91	
Hypoplastic left heart syndrome	7				<6		11	
	2.21						2.18	
Hypospadias and Epispadias	99				45		184	
	31.19				36.32		36.54	
Microcephalus	52				50		115	
	16.38				40.36		22.84	
Obstructive genitourinary defect	109				41		174	
	34.34				33.09		34.56	
Patent ductus arteriosus	189				112		362	
	59.54				90.40		71.90	
Pulmonary valve atresia and stenosis	24				49		80	
	7.56				39.55		15.89	
Pyloric stenosis	66				53		131	
	20.79				42.78		26.02	

Alaska**Birth Defects Counts and Rates 2000-2004**

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
	24				19		46	
Rectal and large intestinal atresia/stenosis	7.56				15.34		9.14	
	14				7		22	
Reduction deformity, lower limbs	4.41				5.65		4.37	
	<6				<6		7	
Reduction deformity, upper limbs							1.39	
	8				7		19	
Renal agenesis/hypoplasia	2.52				5.65		3.77	
	11				<6		17	
Spina bifida without anencephalus	3.47						3.38	+
	14				17		35	
Tetralogy of Fallot	4.41				13.72		6.95	
	14				<6		23	
Transposition of great arteries	4.41						4.57	
	<6				<6		<6	
Tricuspid valve atresia and stenosis								
	<6				<6		7	
Trisomy 13 (Patau syndrome)							1.39	
	9				<6		11	
Trisomy 18 (Edwards syndrome)	2.84						2.18	
	172				217		438	
Ventricular septal defect	54.18				175.16		86.99	
Total Live Births	31746				12389		50350	

Alaska**Trisomy Counts and Rates by Maternal Age 2000-2004**

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total (**)
	59	25	84
Down syndrome (Trisomy 21)	13.58	36.36	16.68
	6	<6	7
Trisomy 13 (Patau syndrome)	1.38		1.39
	6	<6	11
Trisomy 18 (Edwards syndrome)	1.38		2.18
Total Live Births	43455	6875	50350

(**) Total includes unknown age

(+)Notes:

- 1: Alaska conducts surveillance for FAS using FASSNET methodology. Contact the program for data on FAS and FASD.
- 2: Cases included in this datatable are only those reported with the exact ICD-9 codes provided by the NBDPN for this analysis.
- 3: Live birth and birth defect counts of races other than white/non-Hispanic and Alaska Native are not high enough to report.
- 4: 2000-2004, Anencephalus, Live births only.
- 5: 2000-2004, Spina bifida without anencephalus, Live births only.

Arizona
Birth Defects Counts and Rates 2000
(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Amniotic bands	5	1	7	0	0	1	14	
	1.28	3.96	2.06	0.00	0.00		1.65	
Anencephalus	5	2	5	0	0	2	14	
	1.28	7.92	1.47	0.00	0.00		1.65	+
Aniridia	1	0	0	0	0	0	1	
	0.26	0.00	0.00	0.00	0.00		0.12	
Anophthalmia/ microphthalmia	7	0	11	0	0	4	22	
	1.79	0.00	3.24	0.00	0.00		2.59	
Anotia/microtia	5	0	9	0	0	4	18	
	1.28	0.00	2.65	0.00	0.00		2.12	
Aortic valve stenosis	22	0	9	1	0	1	33	
	5.64	0.00	2.65	5.33	0.00		3.89	
Atrial septal defect	42	4	55	4	0	9	114	
	10.77	15.84	16.20	21.31	0.00		13.43	
Biliary atresia	3	0	1	0	0	2	6	
	0.77	0.00	0.29	0.00	0.00		0.71	
Bladder exstrophy	0	0	2	0	0	0	2	
	0.00	0.00	0.59	0.00	0.00		0.24	
Choanal atresia	7	0	11	0	0	2	20	
	1.79	0.00	3.24	0.00	0.00		2.36	
Cleft lip with and without cleft palate	36	2	42	2	2	12	96	
	9.23	7.92	12.37	10.66	68.73		11.31	
Cleft palate without cleft lip	29	0	15	0	0	9	53	
	7.43	0.00	4.42	0.00	0.00		6.25	
Coarctation of aorta	19	1	13	2	0	2	37	
	4.87	3.96	3.83	10.66	0.00		4.36	
Common truncus	1	0	5	0	0	0	6	
	0.26	0.00	1.47	0.00	0.00		0.71	
Congenital cataract	4	1	7	0	0	1	13	
	1.03	3.96	2.06	0.00	0.00		1.53	
Congenital hip dislocation	28	0	24	2	0	6	60	
	7.18	0.00	7.07	10.66	0.00		7.07	
Diaphragmatic hernia	11	1	14	0	0	3	29	
	2.82	3.96	4.12	0.00	0.00		3.42	
Down syndrome (Trisomy 21)	54	2	47	1	1	5	110	
	13.84	7.92	13.85	5.33	34.36		12.96	
Ebstein anomaly	4	0	4	0	0	1	9	
	1.03	0.00	1.18	0.00	0.00		1.06	
Encephalocele	4	1	5	0	0	1	11	
	1.03	3.96	1.47	0.00	0.00		1.30	
Endocardial cushion defect	13	0	13	1	0	3	30	
	3.33	0.00	3.83	5.33	0.00		3.53	
Esophageal atresia/ tracheoesophageal fistula	9	0	8	0	0	1	18	
	2.31	0.00	2.36	0.00	0.00		2.12	
Fetus or newborn affected by maternal alcohol use	0	0	0	0	0	2	2	
	0.00	0.00	0.00	0.00	0.00		0.24	
Gastroschisis	21	2	15	0	0	7	45	
	5.38	7.92	4.42	0.00	0.00		5.30	
Hirschsprung disease (congenital megacolon)	5	0	4	2	0	1	12	
	1.28	0.00	1.18	10.66	0.00		1.41	
Hydrocephalus without Spina Bifida	28	3	13	0	1	2	47	
	7.18	11.88	3.83	0.00	34.36		5.54	
Hypoplastic left heart syndrome	7	1	6	0	0	1	15	
	1.79	3.96	1.77	0.00	0.00		1.77	
Hypospadias and Epispadias	144	4	54	9	0	9	220	
	36.92	15.84	15.91	47.95	0.00		25.92	
Microcephalus	28	5	34	1	1	11	80	
	7.18	19.80	10.02	5.33	34.36		9.43	
Obstructive genitourinary defect	69	6	61	1	1	13	151	
	17.69	23.76	17.97	5.33	34.36		17.79	

Arizona

Birth Defects Counts and Rates 2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
	14	0	3	0	0	2	19	
Omphalocele	3.59	0.00	0.88	0.00	0.00	0	2.24	
	0	0	0	0	0	0	0	
Patent ductus arteriosus	0.00	0.00	0.00	0.00	0.00	0	0.00	
	27	6	35	2	0	7	77	
Pulmonary valve atresia and stenosis	6.92	23.76	10.31	10.66	0.00	0	9.07	
	71	1	73	1	0	12	158	
Pyloric stenosis	18.20	3.96	21.51	5.33	0.00	0	18.62	
	8	2	14	0	1	1	26	
Rectal and large intestinal atresia/stenosis	2.05	7.92	4.12	0.00	34.36	0	3.06	
	7	0	13	0	1	1	22	
Reduction deformity, lower limbs	1.79	0.00	3.83	0.00	34.36	0	2.59	
	20	3	13	0	0	1	37	
Reduction deformity, upper limbs	5.13	11.88	3.83	0.00	0.00	0	4.36	
	13	4	17	0	1	1	36	
Renal agenesis/hypoplasia	3.33	15.84	5.01	0.00	34.36	0	4.24	
	13	0	13	0	2	0	28	
Spina bifida without anencephalus	3.33	0.00	3.83	0.00	68.73	0	3.30	+
	20	0	8	0	0	4	32	
Tetralogy of Fallot	5.13	0.00	2.36	0.00	0.00	0	3.77	
	15	0	19	2	1	3	40	
Transposition of great arteries	3.85	0.00	5.60	10.66	34.36	0	4.71	
	3	5	3	0	1	1	13	
Tricuspid valve atresia and stenosis	0.77	19.80	0.88	0.00	34.36	0	1.53	
	7	0	8	0	0	1	16	
Trisomy 13 (Patau syndrome)	1.79	0.00	2.36	0.00	0.00	0	1.89	
	13	2	6	1	1	2	25	
Trisomy 18 (Edwards syndrome)	3.33	7.92	1.77	5.33	34.36	0	2.95	
	76	6	67	2	2	22	175	
Ventricular septal defect	19.48	23.76	19.74	10.66	68.73	0	20.62	
Total Live Births	39005	2525	33945	1877	291	0	84867	

Arizona

Trisomy Counts and Rates by Maternal Age 2000

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total (**)
	69	41	110
Down syndrome (Trisomy 21)	9.19	41.97	12.96
	11	5	16
Trisomy 13 (Patau syndrome)	1.46	5.12	1.89
	18	7	25
Trisomy 18 (Edwards syndrome)	2.40	7.17	2.95
Total Live Births	75099	9768	84867

(**) Total includes unknown age

(+)Notes:

- 1: Erratum: In the December 2006 publication the footnote should list the number of 1999 Arizona resident live births as 80908. For this 2007 publication the comparable number of live births occurring in Arizona among Arizona residents is 84416. The data collection for 2001-2004 is not yet complete and data are not included in the data table. Diagnoses that are "possible" are not counted. However, diagnoses that included "consistent with", "compatible with", or "probably" were counted. If there was no gestational age and no weight recorded for a stillborn infant, the case was not counted.
- 2: Stillbirths and terminations ≥ 20 weeks OR ≥ 500 grams were included.
- 3: VSDs and ASDs were only included if there was an associated reportable defect, confirmation of diagnosis via surgery or cardiac catheterization, or presence of congestive heart failure.
- 4: 2000, Anencephalus, Spina bifida without anencephalus, Stillbirth refers to death of a fetus of at least 20 weeks gestational age or weighing at least 500 grams (Includes live birth and fetal death)

Arkansas
Birth Defects Counts and Rates 2000-2004
(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Amniotic bands	36 2.74	6 1.61	1 0.68	0 0.00	1 3.86	0	44 2.34	
Anencephalus	55 4.18	8 2.15	7 4.73	1 8.98	0 0.00	0	71 3.77	+
Aniridia	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0	0 0.00	
Anophthalmia/ microphthalmia	30 2.28	11 2.96	2 1.35	0 0.00	0 0.00	0	43 2.28	
Anotia/microtia	27 2.05	1 0.27	5 3.38	0 0.00	0 0.00	0	33 1.75	
Aortic valve stenosis	50 3.80	4 1.08	3 2.03	1 8.98	0 0.00	0	58 3.08	
Atrial septal defect	636 48.33	150 40.32	79 53.39	5 44.92	3 11.57	1	874 46.40	
Biliary atresia	7 0.53	5 1.34	1 0.68	2 17.97	0 0.00	0	15 0.80	
Bladder exstrophy	4 0.30	3 0.81	0 0.00	0 0.00	0 0.00	0	7 0.37	
Choanal atresia	9 0.68	1 0.27	1 0.68	0 0.00	0 0.00	0	11 0.58	
Cleft lip with and without cleft palate	176 13.37	19 5.11	16 10.81	0 0.00	2 7.72	0	213 11.31	
Cleft palate without cleft lip	98 7.45	13 3.49	3 2.03	1 8.98	1 3.86	0	116 6.16	
Coarctation of aorta	75 5.70	13 3.49	8 5.41	1 8.98	0 0.00	0	97 5.15	
Common truncus	8 0.61	2 0.54	0 0.00	0 0.00	0 0.00	0	10 0.53	
Congenital cataract	32 2.43	13 3.49	3 2.03	0 0.00	0 0.00	0	48 2.55	
Congenital hip dislocation	22 1.67	1 0.27	0 0.00	0 0.00	0 0.00	0	23 1.22	
Diaphragmatic hernia	47 3.57	9 2.42	4 2.70	0 0.00	1 3.86	0	61 3.24	
Down syndrome (Trisomy 21)	143 10.87	33 8.87	32 21.63	2 17.97	1 3.86	0	211 11.20	
Ebstein anomaly	9 0.68	1 0.27	4 2.70	0 0.00	1 3.86	0	15 0.80	
Encephalocele	14 1.06	3 0.81	2 1.35	1 8.98	0 0.00	0	20 1.06	
Endocardial cushion defect	37 2.81	13 3.49	4 2.70	1 8.98	0 0.00	0	55 2.92	
Esophageal atresia/ tracheoesophageal fistula	39 2.96	6 1.61	4 2.70	2 17.97	1 3.86	0	52 2.76	
Fetus or newborn affected by maternal alcohol use	2 0.15	3 0.81	0 0.00	0 0.00	0 0.00	0	5 0.27	
Gastroschisis	95 7.22	8 2.15	5 3.38	0 0.00	0 0.00	0	108 5.73	
Hirschsprung disease (congenital megacolon)	19 1.44	4 1.08	0 0.00	0 0.00	0 0.00	0	23 1.22	
Hydrocephalus without Spina Bifida	104 7.90	40 10.75	9 6.08	1 8.98	0 0.00	0	154 8.18	
Hypoplastic left heart syndrome	42 3.19	11 2.96	3 2.03	0 0.00	0 0.00	0	56 2.97	
Hypospadias and Epispadias	622 47.26	92 24.73	30 20.28	7 62.89	2 7.72	0	753 39.98	
Microcephalus	33 2.51	10 2.69	2 1.35	1 8.98	0 0.00	0	46 2.44	
Obstructive genitourinary defect	145 11.02	29 7.80	16 10.81	2 17.97	2 7.72	0	194 10.30	

Arkansas

Birth Defects Counts and Rates 2000-2004

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Omphalocele	48 3.65	11 2.96	6 4.06	0 0.00	0 0.00	0 0	65 3.45	
Patent ductus arteriosus	182 13.83	46 12.37	25 16.90	1 8.98	0 0.00	0 0	254 13.49	
Pulmonary valve atresia and stenosis	180 13.68	63 16.94	19 12.84	3 26.95	1 3.86	1 1	267 14.18	
Pyloric stenosis	130 9.88	9 2.42	9 6.08	0 0.00	1 3.86	1 1	150 7.96	
Rectal and large intestinal atresia/stenosis	64 4.86	22 5.91	6 4.06	0 0.00	0 0.00	0 0	92 4.88	
Reduction deformity, lower limbs	25 1.90	12 3.23	1 0.68	0 0.00	1 3.86	0 0	39 2.07	
Reduction deformity, upper limbs	43 3.27	9 2.42	5 3.38	0 0.00	0 0.00	0 0	57 3.03	
Renal agenesis/hypoplasia	57 4.33	14 3.76	2 1.35	0 0.00	0 0.00	0 0	73 3.88	
Spina bifida without anencephalus	58 4.41	13 3.49	5 3.38	1 8.98	0 0.00	0 0	77 4.09	+
Tetralogy of Fallot	42 3.19	16 4.30	3 2.03	0 0.00	0 0.00	2 2	63 3.34	
Transposition of great arteries	85 6.46	9 2.42	9 6.08	2 17.97	0 0.00	0 0	105 5.57	
Tricuspid valve atresia and stenosis	17 1.29	3 0.81	1 0.68	1 8.98	0 0.00	0 0	22 1.17	
Trisomy 13 (Patau syndrome)	14 1.06	3 0.81	1 0.68	0 0.00	0 0.00	0 0	18 0.96	
Trisomy 18 (Edwards syndrome)	27 2.05	9 2.42	4 2.70	2 17.97	0 0.00	0 0	42 2.23	
Ventricular septal defect	586 44.53	142 38.17	71 47.99	6 53.91	7 27.01	3 3	815 43.27	
Total Live Births	131604	37200	14796	1113	2592		188347	

Arkansas

Trisomy Counts and Rates by Maternal Age 2000-2004

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total (**)
Down syndrome (Trisomy 21)	137 7.85	73 52.96	211 11.20
Trisomy 13 (Patau syndrome)	12 0.69	6 4.35	18 0.96
Trisomy 18 (Edwards syndrome)	25 1.43	17 12.33	42 2.23
Total Live Births	174489	13785	188347

(**) Total includes unknown age

(+)Notes:

1: 2000-2004, Anencephalus, Includes live births stillbirths and terminations.

2: 2000-2004, Spina bifida without anencephalus, Includes live births stillbirths and terminations.

California
Birth Defects Counts and Rates 2000-2004
(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Amniotic bands	12 <i>1.31</i>	<5	25 <i>1.42</i>	5 <i>3.88</i>	0 <i>0.00</i>	<5	47 <i>1.54</i>	
Anencephalus	20 <i>2.19</i>	0 <i>0.00</i>	34 <i>1.93</i>	<5	<5	39	97 <i>3.18</i>	
Anophthalmia/ microphthalmia	15 <i>1.64</i>	<5	17 <i>0.97</i>	0 <i>0.00</i>	0 <i>0.00</i>	<5	36 <i>1.18</i>	
Anotia/microtia	12 <i>1.31</i>	0 <i>0.00</i>	65 <i>3.69</i>	6 <i>4.66</i>	0 <i>0.00</i>	<5	85 <i>2.79</i>	
Aortic valve stenosis	15 <i>1.64</i>	<5	33 <i>1.87</i>	<5	0 <i>0.00</i>	0	53 <i>1.74</i>	
Atrial septal defect	207 <i>22.67</i>	26 <i>18.78</i>	399 <i>22.66</i>	29 <i>22.52</i>	7 <i>33.25</i>	26	694 <i>22.75</i>	+
Biliary atresia	6 <i>0.66</i>	<5	8 <i>0.45</i>	0 <i>0.00</i>	0 <i>0.00</i>	<5	18 <i>0.59</i>	
Bladder exstrophy	5 <i>0.55</i>	<5	<5	<5	0 <i>0.00</i>	0	8 <i>0.26</i>	
Choanal atresia	<5	0 <i>0.00</i>	6 <i>0.34</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	10 <i>0.33</i>	
Cleft lip with and without cleft palate	94 <i>10.30</i>	10 <i>7.22</i>	158 <i>8.97</i>	8 <i>6.21</i>	<5	14	286 <i>9.37</i>	
Cleft palate without cleft lip	37 <i>4.05</i>	11 <i>7.94</i>	72 <i>4.09</i>	<5	<5	10	137 <i>4.49</i>	
Coarctation of aorta	35 <i>3.83</i>	6 <i>4.33</i>	65 <i>3.69</i>	<5	0 <i>0.00</i>	6	115 <i>3.77</i>	
Common truncus	5 <i>0.55</i>	0 <i>0.00</i>	7 <i>0.40</i>	<5	0 <i>0.00</i>	0	13 <i>0.43</i>	
Congenital cataract	9 <i>0.99</i>	<5	16 <i>0.91</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	29 <i>0.95</i>	
Diaphragmatic hernia	20 <i>2.19</i>	0 <i>0.00</i>	48 <i>2.73</i>	<5	0 <i>0.00</i>	<5	75 <i>2.46</i>	
Down syndrome (Trisomy 21)	89 <i>9.75</i>	12 <i>8.67</i>	239 <i>13.57</i>	12 <i>9.32</i>	<5	12	366 <i>12.00</i>	
Ebstein anomaly	<5	0 <i>0.00</i>	8 <i>0.45</i>	<5	0 <i>0.00</i>	0	10 <i>0.33</i>	
Encephalocele	<5	0 <i>0.00</i>	8 <i>0.45</i>	0 <i>0.00</i>	<5	<5	16 <i>0.52</i>	
Endocardial cushion defect	35 <i>3.83</i>	<5	60 <i>3.41</i>	7 <i>5.44</i>	<5	6	111 <i>3.64</i>	
Esophageal atresia/ tracheoesophageal fistula	16 <i>1.75</i>	<5	27 <i>1.53</i>	<5	<5	<5	48 <i>1.57</i>	
Fetus or newborn affected by maternal alcohol use	<5	<5	<5	0 <i>0.00</i>	0 <i>0.00</i>	0	<5	
Gastroschisis	42 <i>4.60</i>	<5	79 <i>4.49</i>	12 <i>9.32</i>	<5	5	143 <i>4.69</i>	
Hydrocephalus without Spina Bifida	25 <i>2.74</i>	<5	43 <i>2.44</i>	5 <i>3.88</i>	0 <i>0.00</i>	<5	79 <i>2.59</i>	
Hypoplastic left heart syndrome	31 <i>3.40</i>	<5	32 <i>1.82</i>	<5	0 <i>0.00</i>	<5	71 <i>2.33</i>	
Hypospadias and Epispadias	22 <i>2.41</i>	<5	36 <i>2.04</i>	<5	0 <i>0.00</i>	7	69 <i>2.26</i>	+
Omphalocele	15 <i>1.64</i>	<5	18 <i>1.02</i>	<5	<5	<5	40 <i>1.31</i>	
Pulmonary valve atresia and stenosis	26 <i>2.85</i>	<5	59 <i>3.35</i>	6 <i>4.66</i>	0 <i>0.00</i>	<5	94 <i>3.08</i>	+
Rectal and large intestinal atresia/stenosis	27 <i>2.96</i>	<5	71 <i>4.03</i>	9 <i>6.99</i>	0 <i>0.00</i>	<5	114 <i>3.74</i>	
Reduction deformity, lower limbs	11 <i>1.20</i>	<5	25 <i>1.42</i>	<5	0 <i>0.00</i>	5	44 <i>1.44</i>	
Reduction deformity, upper limbs	24 <i>2.63</i>	<5	70 <i>3.98</i>	<5	0 <i>0.00</i>	6	107 <i>3.51</i>	

California

Birth Defects Counts and Rates 2000-2004

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/ Other		
Renal agenesis/hypoplasia	6	0	18	<5	0	<5	29	
	0.66	0.00	1.02		0.00		0.95	
Spina bifida without anencephalus	36	6	67	<5	0	10	121	
	3.94	4.33	3.81		0.00		3.97	
Tetralogy of Fallot	26	7	71	6	<5	5	116	
	2.85	5.06	4.03	4.66			3.80	
Transposition of great arteries	40	6	67	6	<5	<5	124	
	4.38	4.33	3.81	4.66			4.06	
Tricuspid valve atresia and stenosis	5	<5	14	<5	0	<5	23	
	0.55		0.80		0.00		0.75	
Trisomy 13 (Patau syndrome)	<5	<5	14	<5	0	<5	24	
			0.80		0.00		0.79	
Trisomy 18 (Edwards syndrome)	11	<5	31	7	<5	7	59	
	1.20		1.76	5.44			1.93	
Ventricular septal defect	123	16	247	13	<5	11	413	
	13.47	11.55	14.03	10.10			13.54	+
Total Live Births	91295	13847	176071	12876	2105	8900	305094	

California

Trisomy Counts and Rates by Maternal Age 2000-2004

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total (**)
Down syndrome (Trisomy 21)	231	132	366
	8.48	40.57	12.00
Trisomy 13 (Patau syndrome)	15	8	24
	0.55	2.46	0.79
Trisomy 18 (Edwards syndrome)	34	22	59
	1.25	6.76	1.93
Total Live Births	272545	32536	305094

(**) Total includes unknown age

(+)Notes:

- 1: ASD: 1) only cases confirmed by physician review or echo or cath or surgery or autopsy or included; 2) if the ASD is a component of another major heart malformation, it is not counted.
- 2: Cardiovascular defects other than ASD and VSD were confirmed by physician review
- 3: Hypospadias and Epispadias: no epispadias in registry; 2nd and 3rd degree hypospadias only
- 4: Pulmonic stenosis was reported beginning with DOB 1/1/00
- 5: The only chromosomal abnormalities included in the dataset are trisomy 13, 18, and 21
- 6: Trisomy 13, trisomy 18 and trisomy 21 diagnosis confirmed by cytogenetics
- 7: VSD: 1) only cases confirmed by physician review or echo or cath or surgery or autopsy are included; 2) if the VSD is a component of another major heart malformation, it is not counted
- 8: Tricuspid valve stenosis is not reported
- 9: The California Birth Defects Monitoring Program does not report rates based on <5 cases.

Colorado
Birth Defects Counts and Rates 2000-2004
(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Anencephalus	14 <i>0.67</i>	1 <i>0.71</i>	23 <i>2.25</i>	0 <i>0.00</i>	0 <i>0.00</i>	9 <i>0.00</i>	47 <i>1.39</i>	+
Aniridia	2 <i>0.10</i>	0 <i>0.00</i>	3 <i>0.29</i>	2 <i>1.81</i>	0 <i>0.00</i>	0 <i>0.00</i>	7 <i>0.21</i>	
Anophthalmia/ microphthalmia	28 <i>1.34</i>	4 <i>2.84</i>	21 <i>2.06</i>	0 <i>0.00</i>	2 <i>8.37</i>	3 <i>0.00</i>	58 <i>1.71</i>	
Anotia/microtia	35 <i>1.67</i>	1 <i>0.71</i>	42 <i>4.11</i>	2 <i>1.81</i>	0 <i>0.00</i>	0 <i>0.00</i>	80 <i>2.36</i>	
Aortic valve stenosis	78 <i>3.73</i>	4 <i>2.84</i>	44 <i>4.31</i>	2 <i>1.81</i>	0 <i>0.00</i>	4 <i>0.00</i>	132 <i>3.90</i>	
Atrial septal defect	1429 <i>68.38</i>	127 <i>90.14</i>	692 <i>67.78</i>	67 <i>60.79</i>	21 <i>87.87</i>	7 <i>0.00</i>	2343 <i>69.19</i>	
Biliary atresia	23 <i>1.10</i>	1 <i>0.71</i>	17 <i>1.67</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	41 <i>1.21</i>	
Bladder exstrophy	9 <i>0.43</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>4.18</i>	1 <i>0.00</i>	11 <i>0.32</i>	
Choanal atresia	38 <i>1.82</i>	1 <i>0.71</i>	16 <i>1.57</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>0.00</i>	57 <i>1.68</i>	
Cleft lip with and without cleft palate	235 <i>11.25</i>	15 <i>10.65</i>	139 <i>13.61</i>	12 <i>10.89</i>	5 <i>20.92</i>	7 <i>0.00</i>	413 <i>12.20</i>	
Cleft palate without cleft lip	205 <i>9.81</i>	13 <i>9.23</i>	77 <i>7.54</i>	10 <i>9.07</i>	3 <i>12.55</i>	2 <i>0.00</i>	310 <i>9.15</i>	
Coarctation of aorta	214 <i>10.24</i>	7 <i>4.97</i>	89 <i>8.72</i>	4 <i>3.63</i>	0 <i>0.00</i>	6 <i>0.00</i>	320 <i>9.45</i>	
Common truncus	21 <i>1.00</i>	2 <i>1.42</i>	9 <i>0.88</i>	1 <i>0.91</i>	1 <i>4.18</i>	1 <i>0.00</i>	35 <i>1.03</i>	
Congenital cataract	58 <i>2.78</i>	3 <i>2.13</i>	38 <i>3.72</i>	5 <i>4.54</i>	2 <i>8.37</i>	0 <i>0.00</i>	106 <i>3.13</i>	
Congenital hip dislocation	369 <i>17.66</i>	15 <i>10.65</i>	151 <i>14.79</i>	15 <i>13.61</i>	5 <i>20.92</i>	1 <i>0.00</i>	556 <i>16.42</i>	
Diaphragmatic hernia	79 <i>3.78</i>	7 <i>4.97</i>	44 <i>4.31</i>	1 <i>0.91</i>	1 <i>4.18</i>	7 <i>0.00</i>	139 <i>4.10</i>	
Down syndrome (Trisomy 21)	303 <i>14.50</i>	23 <i>16.32</i>	145 <i>14.20</i>	12 <i>10.89</i>	6 <i>25.10</i>	202 <i>0.00</i>	691 <i>20.41</i>	
Ebstein anomaly	21 <i>1.00</i>	0 <i>0.00</i>	12 <i>1.18</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	34 <i>1.00</i>	
Encephalocele	18 <i>0.86</i>	3 <i>2.13</i>	11 <i>1.08</i>	0 <i>0.00</i>	0 <i>0.00</i>	6 <i>0.00</i>	38 <i>1.12</i>	
Endocardial cushion defect	96 <i>4.59</i>	4 <i>2.84</i>	35 <i>3.43</i>	5 <i>4.54</i>	2 <i>8.37</i>	7 <i>0.00</i>	149 <i>4.40</i>	
Esophageal atresia/ tracheoesophageal fistula	109 <i>5.22</i>	7 <i>4.97</i>	44 <i>4.31</i>	6 <i>5.44</i>	0 <i>0.00</i>	3 <i>0.00</i>	169 <i>4.99</i>	
Gastroschisis	60 <i>2.87</i>	6 <i>4.26</i>	62 <i>6.07</i>	5 <i>4.54</i>	1 <i>4.18</i>	7 <i>0.00</i>	141 <i>4.16</i>	+
Hirschsprung disease (congenital megacolon)	50 <i>2.39</i>	6 <i>4.26</i>	15 <i>1.47</i>	1 <i>0.91</i>	0 <i>0.00</i>	0 <i>0.00</i>	72 <i>2.13</i>	
Hydrocephalus without Spina Bifida	177 <i>8.47</i>	12 <i>8.52</i>	72 <i>7.05</i>	10 <i>9.07</i>	4 <i>16.74</i>	20 <i>0.00</i>	295 <i>8.71</i>	
Hypoplastic left heart syndrome	62 <i>2.97</i>	4 <i>2.84</i>	33 <i>3.23</i>	1 <i>0.91</i>	0 <i>0.00</i>	7 <i>0.00</i>	107 <i>3.16</i>	
Hypospadias and Epispadias	1371 <i>65.61</i>	96 <i>68.14</i>	294 <i>28.80</i>	58 <i>52.62</i>	8 <i>33.47</i>	3 <i>0.00</i>	1830 <i>54.04</i>	
Microcephalus	90 <i>4.31</i>	14 <i>9.94</i>	74 <i>7.25</i>	10 <i>9.07</i>	3 <i>12.55</i>	3 <i>0.00</i>	194 <i>5.73</i>	
Obstructive genitourinary defect	652 <i>31.20</i>	44 <i>31.23</i>	334 <i>32.71</i>	49 <i>44.46</i>	7 <i>29.29</i>	7 <i>0.00</i>	1093 <i>32.28</i>	
Omphalocele	60 <i>2.87</i>	3 <i>2.13</i>	22 <i>2.15</i>	2 <i>1.81</i>	0 <i>0.00</i>	23 <i>0.00</i>	110 <i>3.25</i>	+
Patent ductus arteriosus	781 <i>37.37</i>	72 <i>51.10</i>	379 <i>37.12</i>	35 <i>31.75</i>	9 <i>37.66</i>	0 <i>0.00</i>	1276 <i>37.68</i>	+

Colorado

Birth Defects Counts and Rates 2000-2004

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/ Other		
Pulmonary valve atresia and stenosis	224 10.72	21 14.91	102 9.99	10 9.07	5 20.92	3	365 10.78	
Pyloric stenosis	360 17.23	7 4.97	192 18.81	5 4.54	3 12.55	0	567 16.74	
Rectal and large intestinal atresia/stenosis	136 6.51	5 3.55	53 5.19	5 4.54	0 0.00	5	204 6.02	
Reduction deformity, lower limbs	32 1.53	3 2.13	21 2.06	1 0.91	0 0.00	5	62 1.83	
Reduction deformity, upper limbs	77 3.68	5 3.55	34 3.33	0 0.00	0 0.00	9	125 3.69	
Renal agenesis/hypoplasia	96 4.59	8 5.68	51 5.00	4 3.63	1 4.18	11	171 5.05	
Spina bifida without anencephalus	61 2.92	0 0.00	39 3.82	0 0.00	0 0.00	16	116 3.43	+
Tetralogy of Fallot	75 3.59	5 3.55	32 3.13	6 5.44	2 8.37	1	121 3.57	
Transposition of great arteries	83 3.97	5 3.55	43 4.21	7 6.35	2 8.37	2	142 4.19	
Tricuspid valve atresia and stenosis	27 1.29	4 2.84	18 1.76	2 1.81	1 4.18	1	53 1.57	
Trisomy 13 (Patau syndrome)	28 1.34	3 2.13	12 1.18	2 1.81	2 8.37	33	80 2.36	
Trisomy 18 (Edwards syndrome)	55 2.63	7 4.97	21 2.06	5 4.54	1 4.18	80	169 4.99	
Ventricular septal defect	853 40.82	70 49.68	458 44.86	26 23.59	11 46.03	14	1432 42.29	+
Total Live Births	208970	14089	102095	11022	2390		338634	

Colorado

Trisomy Counts and Rates by Maternal Age 2000-2004

(Rates per 10,000 Live Births)

Defect	Age		Total (**)
	<35	35 and >	
Down syndrome (Trisomy 21)	338 11.66	353 72.64	691 20.41
Trisomy 13 (Patau syndrome)	48 1.66	31 6.38	80 2.36
Trisomy 18 (Edwards syndrome)	79 2.73	89 18.31	169 4.99
Total Live Births	289892	48596	338634

(**) Total includes unknown age

(+)Notes:

- 1: Contact State Program directly in regards to Fetal Alcohol Syndrome.
- 2: 2000-2004, Anencephalus: live births and fetal deaths-any gestational age
- 3: 2000-2004, Spina bifida without anencephalus: live births and fetal deaths-any gestational age
- 4: 2000-2004, Ventricular septal defect: includes probable cases
- 5: 2000-2004, Patent ductus arteriosus: cases w/birth weight of => 2500 grams
- 6: 2000-2004, Gastroschisis: medical record review
- 7: 2000-2004, Omphalocele: medical record review

Connecticut
Birth Defects Counts and Rates 2001-2004
(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Anencephalus	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>0.69</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>0.12</i>	
Aniridia	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	
Anophthalmia/ microphthalmia	7 <i>0.64</i>	0 <i>0.00</i>	2 <i>0.69</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	9 <i>0.53</i>	
Anotia/microtia	5 <i>0.46</i>	1 <i>0.52</i>	3 <i>1.04</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	9 <i>0.53</i>	
Aortic valve stenosis	15 <i>1.37</i>	1 <i>0.52</i>	1 <i>0.35</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	17 <i>1.00</i>	
Atrial septal defect	412 <i>37.70</i>	78 <i>40.67</i>	117 <i>40.41</i>	30 <i>40.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	638 <i>37.64</i>	
Biliary atresia	5 <i>0.46</i>	2 <i>1.04</i>	3 <i>1.04</i>	1 <i>1.33</i>	0 <i>0.00</i>	0 <i>0.00</i>	11 <i>0.65</i>	
Bladder exstrophy	5 <i>0.46</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	5 <i>0.30</i>	
Choanal atresia	16 <i>1.46</i>	0 <i>0.00</i>	6 <i>2.07</i>	3 <i>4.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	25 <i>1.48</i>	
Cleft lip with and without cleft palate	65 <i>5.95</i>	7 <i>3.65</i>	10 <i>3.45</i>	1 <i>1.33</i>	0 <i>0.00</i>	2 <i>0.00</i>	85 <i>5.02</i>	
Cleft palate without cleft lip	58 <i>5.31</i>	6 <i>3.13</i>	17 <i>5.87</i>	2 <i>2.67</i>	0 <i>0.00</i>	1 <i>0.00</i>	84 <i>4.96</i>	
Coarctation of aorta	29 <i>2.65</i>	6 <i>3.13</i>	4 <i>1.38</i>	3 <i>4.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	43 <i>2.54</i>	
Common truncus	5 <i>0.46</i>	1 <i>0.52</i>	2 <i>0.69</i>	1 <i>1.33</i>	0 <i>0.00</i>	0 <i>0.00</i>	9 <i>0.53</i>	
Congenital cataract	22 <i>2.01</i>	8 <i>4.17</i>	2 <i>0.69</i>	2 <i>2.67</i>	0 <i>0.00</i>	0 <i>0.00</i>	34 <i>2.01</i>	
Congenital hip dislocation	91 <i>8.33</i>	8 <i>4.17</i>	16 <i>5.53</i>	3 <i>4.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	118 <i>6.96</i>	
Diaphragmatic hernia	26 <i>2.38</i>	3 <i>1.56</i>	2 <i>0.69</i>	1 <i>1.33</i>	0 <i>0.00</i>	0 <i>0.00</i>	32 <i>1.89</i>	
Down syndrome (Trisomy 21)	117 <i>10.71</i>	24 <i>12.51</i>	32 <i>11.05</i>	6 <i>8.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	180 <i>10.62</i>	
Ebstein anomaly	2 <i>0.18</i>	0 <i>0.00</i>	3 <i>1.04</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	5 <i>0.30</i>	
Encephalocele	4 <i>0.37</i>	2 <i>1.04</i>	3 <i>1.04</i>	1 <i>1.33</i>	0 <i>0.00</i>	0 <i>0.00</i>	10 <i>0.59</i>	
Endocardial cushion defect	25 <i>2.29</i>	12 <i>6.26</i>	13 <i>4.49</i>	1 <i>1.33</i>	0 <i>0.00</i>	1 <i>0.00</i>	52 <i>3.07</i>	
Esophageal atresia/ tracheoesophageal fistula	31 <i>2.84</i>	4 <i>2.09</i>	5 <i>1.73</i>	1 <i>1.33</i>	0 <i>0.00</i>	0 <i>0.00</i>	41 <i>2.42</i>	
Fetus or newborn affected by maternal alcohol use	5 <i>0.46</i>	6 <i>3.13</i>	3 <i>1.04</i>	1 <i>1.33</i>	0 <i>0.00</i>	0 <i>0.00</i>	15 <i>0.89</i>	
Hirschsprung disease (congenital megacolon)	24 <i>2.20</i>	4 <i>2.09</i>	9 <i>3.11</i>	2 <i>2.67</i>	0 <i>0.00</i>	0 <i>0.00</i>	39 <i>2.30</i>	
Hydrocephalus without Spina Bifida	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	
Hypoplastic left heart syndrome	20 <i>1.83</i>	5 <i>2.61</i>	4 <i>1.38</i>	1 <i>1.33</i>	0 <i>0.00</i>	0 <i>0.00</i>	30 <i>1.77</i>	
Hypospadias and Epispadias	425 <i>38.89</i>	46 <i>23.99</i>	59 <i>20.38</i>	17 <i>22.67</i>	0 <i>0.00</i>	6 <i>0.00</i>	553 <i>32.63</i>	
Microcephalus	30 <i>2.74</i>	12 <i>6.26</i>	11 <i>3.80</i>	4 <i>5.33</i>	0 <i>0.00</i>	0 <i>0.00</i>	57 <i>3.36</i>	
Obstructive genitourinary defect	236 <i>21.59</i>	28 <i>14.60</i>	54 <i>18.65</i>	19 <i>25.33</i>	0 <i>0.00</i>	1 <i>0.00</i>	338 <i>19.94</i>	
Patent ductus arteriosus	216 <i>19.76</i>	60 <i>31.29</i>	63 <i>21.76</i>	17 <i>22.67</i>	0 <i>0.00</i>	1 <i>0.00</i>	357 <i>21.06</i>	
Pulmonary valve atresia and stenosis	40 <i>3.66</i>	19 <i>9.91</i>	8 <i>2.76</i>	5 <i>6.67</i>	0 <i>0.00</i>	0 <i>0.00</i>	72 <i>4.25</i>	

Connecticut**Birth Defects Counts and Rates 2001-2004**

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Pyloric stenosis	184 <i>16.84</i>	22 <i>11.47</i>	65 <i>22.45</i>	15 <i>20.00</i>	0 <i>0.00</i>	2 <i>0.00</i>	288 <i>16.99</i>	
Rectal and large intestinal atresia/stenosis	22 <i>2.01</i>	7 <i>3.65</i>	11 <i>3.80</i>	4 <i>5.33</i>	0 <i>0.00</i>	1 <i>0.00</i>	45 <i>2.66</i>	
Reduction deformity, lower limbs	3 <i>0.27</i>	2 <i>1.04</i>	1 <i>0.35</i>	1 <i>1.33</i>	0 <i>0.00</i>	1 <i>0.00</i>	8 <i>0.47</i>	
Reduction deformity, upper limbs	14 <i>1.28</i>	1 <i>0.52</i>	4 <i>1.38</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	20 <i>1.18</i>	
Renal agenesis/hypoplasia	35 <i>3.20</i>	2 <i>1.04</i>	4 <i>1.38</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	41 <i>2.42</i>	
Spina bifida without anencephalus	26 <i>2.38</i>	7 <i>3.65</i>	11 <i>3.80</i>	4 <i>5.33</i>	0 <i>0.00</i>	1 <i>0.00</i>	49 <i>2.89</i>	
Tetralogy of Fallot	50 <i>4.57</i>	4 <i>2.09</i>	13 <i>4.49</i>	2 <i>2.67</i>	0 <i>0.00</i>	0 <i>0.00</i>	69 <i>4.07</i>	
Transposition of great arteries	41 <i>3.75</i>	7 <i>3.65</i>	11 <i>3.80</i>	3 <i>4.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	62 <i>3.66</i>	
Tricuspid valve atresia and stenosis	7 <i>0.64</i>	1 <i>0.52</i>	3 <i>1.04</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	11 <i>0.65</i>	
Trisomy 13 (Patau syndrome)	5 <i>0.46</i>	1 <i>0.52</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	6 <i>0.35</i>	
Trisomy 18 (Edwards syndrome)	6 <i>0.55</i>	2 <i>1.04</i>	2 <i>0.69</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	10 <i>0.59</i>	
Ventricular septal defect	391 <i>35.78</i>	82 <i>42.76</i>	114 <i>39.37</i>	22 <i>29.33</i>	0 <i>0.00</i>	2 <i>0.00</i>	611 <i>36.05</i>	
Total Live Births	109294	19177	28956	7500	815		169486	

Connecticut**Trisomy Counts and Rates by Maternal Age 2001-2004**

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total (**)
Down syndrome (Trisomy 21)	106 <i>8.04</i>	124 <i>33.52</i>	230 <i>13.57</i>
Trisomy 13 (Patau syndrome)	7 <i>0.53</i>	3 <i>0.81</i>	10 <i>0.59</i>
Trisomy 18 (Edwards syndrome)	7 <i>0.53</i>	6 <i>1.62</i>	13 <i>0.77</i>
Total Live Births	131874	36998	169486

(**) Total includes unknown age

Delaware
Birth Defects Counts and Rates 2000-2004
(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Anencephalus	7 <i>2.10</i>	0 <i>0.00</i>	1 <i>1.58</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	8 <i>1.44</i>	
Aniridia	1 <i>0.30</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.18</i>	
Anophthalmia/ microphthalmia	39 <i>11.69</i>	29 <i>21.24</i>	4 <i>6.33</i>	0 <i>0.00</i>	1 <i>66.23</i>	3 <i>0.00</i>	76 <i>13.68</i>	
Anotia/microtia	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	
Aortic valve stenosis	6 <i>1.80</i>	1 <i>0.73</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	7 <i>1.26</i>	
Atrial septal defect	137 <i>41.08</i>	62 <i>45.42</i>	26 <i>41.15</i>	7 <i>34.91</i>	1 <i>66.23</i>	22 <i>0.00</i>	255 <i>45.89</i>	
Biliary atresia	1 <i>0.30</i>	1 <i>0.73</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>0.36</i>	
Bladder exstrophy	2 <i>0.60</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>0.36</i>	
Choanal atresia	9 <i>2.70</i>	2 <i>1.47</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	11 <i>1.98</i>	
Cleft lip with and without cleft palate	24 <i>7.20</i>	10 <i>7.33</i>	4 <i>6.33</i>	0 <i>0.00</i>	0 <i>0.00</i>	4 <i>0.00</i>	42 <i>7.56</i>	
Cleft palate without cleft lip	25 <i>7.50</i>	3 <i>2.20</i>	1 <i>1.58</i>	2 <i>9.98</i>	0 <i>0.00</i>	3 <i>0.00</i>	34 <i>6.12</i>	
Coarctation of aorta	23 <i>6.90</i>	6 <i>4.40</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	5 <i>0.00</i>	34 <i>6.12</i>	
Common truncus	5 <i>1.50</i>	3 <i>2.20</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	9 <i>1.62</i>	
Congenital cataract	1 <i>0.30</i>	1 <i>0.73</i>	1 <i>1.58</i>	1 <i>4.99</i>	0 <i>0.00</i>	0 <i>0.00</i>	4 <i>0.72</i>	
Congenital hip dislocation	54 <i>16.19</i>	8 <i>5.86</i>	6 <i>9.50</i>	3 <i>14.96</i>	1 <i>66.23</i>	3 <i>0.00</i>	75 <i>13.50</i>	
Diaphragmatic hernia	1 <i>0.30</i>	2 <i>1.47</i>	1 <i>1.58</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>0.00</i>	6 <i>1.08</i>	
Down syndrome (Trisomy 21)	42 <i>12.59</i>	9 <i>6.59</i>	13 <i>20.57</i>	1 <i>4.99</i>	2 <i>132.45</i>	8 <i>0.00</i>	75 <i>13.50</i>	
Ebstein anomaly	2 <i>0.60</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>4.99</i>	0 <i>0.00</i>	0 <i>0.00</i>	3 <i>0.54</i>	
Encephalocele	2 <i>0.60</i>	0 <i>0.00</i>	1 <i>1.58</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	3 <i>0.54</i>	
Endocardial cushion defect	14 <i>4.20</i>	6 <i>4.40</i>	1 <i>1.58</i>	1 <i>4.99</i>	0 <i>0.00</i>	3 <i>0.00</i>	25 <i>4.50</i>	
Esophageal atresia/ tracheoesophageal fistula	6 <i>1.80</i>	3 <i>2.20</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	5 <i>0.00</i>	14 <i>2.52</i>	
Fetus or newborn affected by maternal alcohol use	3 <i>0.90</i>	4 <i>2.93</i>	1 <i>1.58</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	8 <i>1.44</i>	+
Hirschsprung disease (congenital megacolon)	6 <i>1.80</i>	3 <i>2.20</i>	2 <i>3.17</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>0.00</i>	13 <i>2.34</i>	
Hydrocephalus without Spina Bifida	14 <i>4.20</i>	19 <i>13.92</i>	5 <i>7.91</i>	2 <i>9.98</i>	0 <i>0.00</i>	2 <i>0.00</i>	42 <i>7.56</i>	
Hypoplastic left heart syndrome	9 <i>2.70</i>	3 <i>2.20</i>	1 <i>1.58</i>	0 <i>0.00</i>	0 <i>0.00</i>	4 <i>0.00</i>	17 <i>3.06</i>	
Hypospadias and Epispadias	136 <i>40.78</i>	44 <i>32.23</i>	9 <i>14.24</i>	6 <i>29.93</i>	0 <i>0.00</i>	5 <i>0.00</i>	200 <i>35.99</i>	
Microcephalus	16 <i>4.80</i>	16 <i>11.72</i>	2 <i>3.17</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	34 <i>6.12</i>	
Obstructive genitourinary defect	132 <i>39.58</i>	38 <i>27.84</i>	30 <i>47.48</i>	4 <i>19.95</i>	1 <i>66.23</i>	8 <i>0.00</i>	213 <i>38.33</i>	
Patent ductus arteriosus	151 <i>45.27</i>	80 <i>58.60</i>	37 <i>58.55</i>	8 <i>39.90</i>	1 <i>66.23</i>	29 <i>0.00</i>	306 <i>55.06</i>	
Pulmonary valve atresia and stenosis	13 <i>3.90</i>	10 <i>7.33</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	5 <i>0.00</i>	28 <i>5.04</i>	

Delaware

Birth Defects Counts and Rates 2000-2004

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Pyloric stenosis	66 19.79	10 7.33	6 9.50	0 0.00	0 0.00	32	114	
Rectal and large intestinal atresia/stenosis	6 1.80	3 2.20	2 3.17	1 4.99	0 0.00	5	17	
Reduction deformity, lower limbs	5 1.50	5 3.66	0 0.00	0 0.00	0 0.00	1	11	
Reduction deformity, upper limbs	1 0.30	1 0.73	0 0.00	0 0.00	0 0.00	0	2	
Renal agenesis/hypoplasia	17 5.10	5 3.66	2 3.17	1 4.99	0 0.00	1	26	
Spina bifida without anencephalus	18 5.40	12 8.79	11 17.41	0 0.00	0 0.00	1	42	
Tetralogy of Fallot	19 5.70	0 0.00	1 1.58	1 4.99	0 0.00	2	23	
Transposition of great arteries	20 6.00	1 0.73	3 4.75	1 4.99	0 0.00	4	29	
Tricuspid valve atresia and stenosis	0 0.00	1 0.73	0 0.00	0 0.00	0 0.00	2	3	
Trisomy 13 (Patau syndrome)	0 0.00	1 0.73	0 0.00	0 0.00	0 0.00	0	1	
Trisomy 18 (Edwards syndrome)	2 0.60	3 2.20	0 0.00	0 0.00	0 0.00	1	6	
Ventricular septal defect	116 34.78	50 36.63	29 45.89	4 19.95	2 132.45	19	220	
Total Live Births	33353	13651	6319	2005	151		55571	

Delaware

Trisomy Counts and Rates by Maternal Age 2000-2004

(Rates per 10,000 Live Births)

Defect	Age		Total (**)
	<35	35 and >	
Down syndrome (Trisomy 21)	45 9.35	26 34.92	75 13.50
Trisomy 13 (Patau syndrome)	0 0.00	1 1.34	1 0.18
Trisomy 18 (Edwards syndrome)	3 0.62	3 4.03	6 1.08
Total Live Births	48126	7445	55571

(**) Total includes unknown age

(+)Notes:

- 1: Our submitted data come from both the birth and hospital discharge files. Y/N checkboxes on the birth certificates indicate if an infant was listed as having a specific anomaly, though the birth certificate captures only a portion of the birth defects listed in the NBDPN reports. In the hospital discharge file, ICD-9-CM codes were used to identify infants diagnosed with a birth defect in any of the diagnoses (we capture nine total diagnoses). Therefore the total counts for each anomaly were a combination of those infants identified on the birth certificate and those diagnosed on the hospital discharge files (file outputs were matched to ensure that the same infant was not counted more than once).
- 2: 2000, Fetus or newborn affected by maternal alcohol use, 215

Florida
Birth Defects Counts and Rates 2000-2003
(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Anencephalus	15 <i>0.36</i>	11 <i>0.60</i>	14 <i>0.69</i>	2 <i>0.95</i>	0 <i>0.00</i>	0 <i>0.00</i>	42 <i>0.51</i>	+
Aniridia	3 <i>0.07</i>	3 <i>0.16</i>	3 <i>0.15</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	9 <i>0.11</i>	
Anophthalmia/ microphthalmia	50 <i>1.21</i>	7 <i>0.38</i>	19 <i>0.94</i>	2 <i>0.95</i>	1 <i>3.58</i>	1 <i>0.97</i>	80 <i>0.97</i>	
Anotia/microtia	27 <i>0.65</i>	8 <i>0.44</i>	30 <i>1.49</i>	1 <i>0.47</i>	0 <i>0.00</i>	0 <i>0.00</i>	66 <i>0.80</i>	
Aortic valve stenosis	86 <i>2.08</i>	18 <i>0.98</i>	24 <i>1.19</i>	2 <i>0.95</i>	0 <i>0.00</i>	0 <i>0.00</i>	130 <i>1.58</i>	
Atrial septal defect	3990 <i>96.53</i>	2241 <i>122.57</i>	3075 <i>152.51</i>	174 <i>82.64</i>	23 <i>82.26</i>	20 <i>115.56</i>	9523 <i>115.56</i>	
Biliary atresia	43 <i>1.04</i>	32 <i>1.75</i>	12 <i>0.60</i>	1 <i>0.47</i>	0 <i>0.00</i>	0 <i>0.00</i>	88 <i>1.07</i>	
Bladder exstrophy	15 <i>0.36</i>	9 <i>0.49</i>	4 <i>0.20</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	28 <i>0.34</i>	
Choanal atresia	76 <i>1.84</i>	27 <i>1.48</i>	22 <i>1.09</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	125 <i>1.52</i>	
Cleft lip with and without cleft palate	353 <i>8.54</i>	98 <i>5.36</i>	145 <i>7.19</i>	19 <i>9.02</i>	1 <i>3.58</i>	0 <i>7.47</i>	616 <i>7.47</i>	
Cleft palate without cleft lip	282 <i>6.82</i>	82 <i>4.48</i>	88 <i>4.36</i>	7 <i>3.32</i>	2 <i>7.15</i>	2 <i>5.62</i>	463 <i>5.62</i>	
Coarctation of aorta	254 <i>6.14</i>	85 <i>4.65</i>	99 <i>4.91</i>	5 <i>2.37</i>	3 <i>10.73</i>	0 <i>5.41</i>	446 <i>5.41</i>	
Common truncus	44 <i>1.06</i>	22 <i>1.20</i>	14 <i>0.69</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	80 <i>0.97</i>	
Congenital cataract	56 <i>1.35</i>	32 <i>1.75</i>	31 <i>1.54</i>	1 <i>0.47</i>	1 <i>3.58</i>	0 <i>1.47</i>	121 <i>1.47</i>	
Congenital hip dislocation	478 <i>11.56</i>	97 <i>5.31</i>	250 <i>12.40</i>	25 <i>11.87</i>	6 <i>21.46</i>	2 <i>10.41</i>	858 <i>10.41</i>	
Diaphragmatic hernia	127 <i>3.07</i>	60 <i>3.28</i>	63 <i>3.12</i>	3 <i>1.42</i>	0 <i>0.00</i>	0 <i>3.07</i>	253 <i>3.07</i>	
Down syndrome (Trisomy 21)	548 <i>13.26</i>	221 <i>12.09</i>	286 <i>14.18</i>	20 <i>9.50</i>	3 <i>10.73</i>	1 <i>13.09</i>	1079 <i>13.09</i>	
Ebstein anomaly	24 <i>0.58</i>	5 <i>0.27</i>	11 <i>0.55</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.49</i>	40 <i>0.49</i>	
Encephalocele	29 <i>0.70</i>	19 <i>1.04</i>	14 <i>0.69</i>	1 <i>0.47</i>	1 <i>3.58</i>	0 <i>0.78</i>	64 <i>0.78</i>	
Endocardial cushion defect	192 <i>4.64</i>	87 <i>4.76</i>	65 <i>3.22</i>	8 <i>3.80</i>	2 <i>7.15</i>	1 <i>4.31</i>	355 <i>4.31</i>	
Esophageal atresia/ tracheoesophageal fistula	119 <i>2.88</i>	32 <i>1.75</i>	46 <i>2.28</i>	4 <i>1.90</i>	1 <i>3.58</i>	0 <i>2.45</i>	202 <i>2.45</i>	
Hirschsprung disease (congenital megacolon)	105 <i>2.54</i>	65 <i>3.56</i>	34 <i>1.69</i>	3 <i>1.42</i>	1 <i>3.58</i>	0 <i>2.52</i>	208 <i>2.52</i>	
Hydrocephalus without Spina Bifida	269 <i>6.51</i>	194 <i>10.61</i>	134 <i>6.65</i>	10 <i>4.75</i>	3 <i>10.73</i>	2 <i>7.43</i>	612 <i>7.43</i>	
Hypoplastic left heart syndrome	98 <i>2.37</i>	62 <i>3.39</i>	47 <i>2.33</i>	4 <i>1.90</i>	1 <i>3.58</i>	0 <i>2.57</i>	212 <i>2.57</i>	
Hypospadias and Epispadias	1833 <i>44.34</i>	550 <i>30.08</i>	498 <i>24.70</i>	53 <i>25.17</i>	4 <i>14.31</i>	4 <i>35.70</i>	2942 <i>35.70</i>	
Microcephalus	227 <i>5.49</i>	182 <i>9.95</i>	114 <i>5.65</i>	4 <i>1.90</i>	0 <i>0.00</i>	3 <i>6.43</i>	530 <i>6.43</i>	
Obstructive genitourinary defect	1131 <i>27.36</i>	346 <i>18.92</i>	558 <i>27.68</i>	58 <i>27.55</i>	6 <i>21.46</i>	2 <i>25.49</i>	2101 <i>25.49</i>	
Pulmonary valve atresia and stenosis	419 <i>10.14</i>	306 <i>16.74</i>	188 <i>9.32</i>	23 <i>10.92</i>	6 <i>21.46</i>	3 <i>11.47</i>	945 <i>11.47</i>	
Pyloric stenosis	1331 <i>32.20</i>	233 <i>12.74</i>	423 <i>20.98</i>	14 <i>6.65</i>	9 <i>32.19</i>	2 <i>24.41</i>	2012 <i>24.41</i>	
Rectal and large intestinal atresia/stenosis	167 <i>4.04</i>	75 <i>4.10</i>	79 <i>3.92</i>	8 <i>3.80</i>	3 <i>10.73</i>	0 <i>4.03</i>	332 <i>4.03</i>	

Florida**Birth Defects Counts and Rates 2000-2003**

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Reduction deformity, lower limbs	59 <i>1.43</i>	26 <i>1.42</i>	17 <i>0.84</i>	4 <i>1.90</i>	0 <i>0.00</i>	0	106 <i>1.29</i>	
Reduction deformity, upper limbs	83 <i>2.01</i>	35 <i>1.91</i>	37 <i>1.84</i>	3 <i>1.42</i>	0 <i>0.00</i>	0	158 <i>1.92</i>	
Renal agenesis/hypoplasia	147 <i>3.56</i>	56 <i>3.06</i>	79 <i>3.92</i>	10 <i>4.75</i>	1 <i>3.58</i>	1	294 <i>3.57</i>	
Spina bifida without anencephalus	131 <i>3.17</i>	64 <i>3.50</i>	66 <i>3.27</i>	5 <i>2.37</i>	0 <i>0.00</i>	2	268 <i>3.25</i>	+
Tetralogy of Fallot	242 <i>5.85</i>	89 <i>4.87</i>	101 <i>5.01</i>	6 <i>2.85</i>	1 <i>3.58</i>	1	440 <i>5.34</i>	
Transposition of great arteries	195 <i>4.72</i>	71 <i>3.88</i>	74 <i>3.67</i>	7 <i>3.32</i>	1 <i>3.58</i>	1	349 <i>4.23</i>	
Tricuspid valve atresia and stenosis	48 <i>1.16</i>	31 <i>1.70</i>	25 <i>1.24</i>	1 <i>0.47</i>	1 <i>3.58</i>	1	107 <i>1.30</i>	
Trisomy 13 (Patau syndrome)	46 <i>1.11</i>	31 <i>1.70</i>	20 <i>0.99</i>	1 <i>0.47</i>	0 <i>0.00</i>	0	98 <i>1.19</i>	
Trisomy 18 (Edwards syndrome)	55 <i>1.33</i>	51 <i>2.79</i>	32 <i>1.59</i>	5 <i>2.37</i>	0 <i>0.00</i>	2	145 <i>1.76</i>	
Ventricular septal defect	2172 <i>52.55</i>	818 <i>44.74</i>	1103 <i>54.71</i>	83 <i>39.42</i>	16 <i>57.22</i>	6	4198 <i>50.94</i>	+
Total Live Births	413353	182833	201625	21056	2796		824099	

Florida**Trisomy Counts and Rates by Maternal Age 2000-2003**

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total (**)
Down syndrome (Trisomy 21)	634 <i>8.99</i>	445 <i>37.56</i>	1079 <i>13.09</i>
Trisomy 13 (Patau syndrome)	69 <i>0.98</i>	29 <i>2.45</i>	98 <i>1.19</i>
Trisomy 18 (Edwards syndrome)	90 <i>1.28</i>	55 <i>4.64</i>	145 <i>1.76</i>
Total Live Births	705475	118487	824099

(**) Total includes unknown age

(+)Notes:

- 1: Contact State Program directly in regards to Fetal Alcohol Syndrome.
- 2: Our registry is built based on ICD-9 reported mainly by hospitals and outpatient encounters.
- 3: Therefore, Septal defects may include probable cases as well.
- 4: 2000-2003, Anencephalus, Live births only
- 5: 2000-2003, Spina bifida without anencephalus, Live births only
- 6: 2000-2003, Ventricular septal defect, Based on ICD-9 codes probable cases included.

Georgia
Birth Defects Counts and Rates 2000-2004
 (Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Amniotic bands	11	23	13	0	0	0	47	
	1.17	2.38	2.73	0.00	0.00		1.84	
Anencephalus	23	19	11	3	0	6	62	+
	2.45	1.97	2.31	2.11	0.00		2.43	
Aniridia	4	1	0	1	0	0	6	
	0.43	0.10	0.00	0.70	0.00		0.24	
Anophthalmia/ microphthalmia	35	24	11	1	0	0	71	
	3.72	2.49	2.31	0.70	0.00		2.79	
Anotia/microtia	14	10	17	4	0	1	46	
	1.49	1.04	3.57	2.81	0.00		1.81	
Aortic valve stenosis	28	19	9	2	0	0	58	
	2.98	1.97	1.89	1.40	0.00		2.28	
Atrial septal defect	265	316	150	37	0	11	779	
	28.20	32.72	31.51	25.98	0.00		30.57	
Biliary atresia	2	9	2	2	0	0	15	
	0.21	0.93	0.42	1.40	0.00		0.59	
Bladder exstrophy	2	1	0	0	0	0	3	
	0.21	0.10	0.00	0.00	0.00		0.12	
Choanal atresia	17	9	2	0	0	0	28	
	1.81	0.93	0.42	0.00	0.00		1.10	
Cleft lip with and without cleft palate	100	57	54	9	0	3	223	
	10.64	5.90	11.34	6.32	0.00		8.75	
Cleft palate without cleft lip	86	45	29	5	0	3	168	
	9.15	4.66	6.09	3.51	0.00		6.59	
Coarctation of aorta	58	54	22	4	0	5	143	
	6.17	5.59	4.62	2.81	0.00		5.61	
Common truncus	9	5	4	1	0	0	19	
	0.96	0.52	0.84	0.70	0.00		0.75	
Congenital cataract	26	21	10	1	0	0	58	
	2.77	2.17	2.10	0.70	0.00		2.28	
Congenital hip dislocation	98	15	44	6	0	4	167	
	10.43	1.55	9.24	4.21	0.00		6.55	
Diaphragmatic hernia	33	21	13	2	0	1	70	
	3.51	2.17	2.73	1.40	0.00		2.75	
Down syndrome (Trisomy 21)	144	120	68	16	1	6	355	
	15.32	12.43	14.29	11.24	22.03		13.93	
Ebstein anomaly	5	4	4	1	0	0	14	
	0.53	0.41	0.84	0.70	0.00		0.55	
Encephalocele	7	18	6	1	0	0	32	+
	0.74	1.86	1.26	0.70	0.00		1.26	
Endocardial cushion defect	35	55	14	6	0	2	112	
	3.72	5.70	2.94	4.21	0.00		4.40	
Esophageal atresia/ tracheoesophageal fistula	31	10	10	1	0	0	52	
	3.30	1.04	2.10	0.70	0.00		2.04	
Fetus or newborn affected by maternal alcohol use	5	12	1	0	0	0	18	
	0.53	1.24	0.21	0.00	0.00		0.71	
Gastroschisis	25	28	25	3	0	0	81	
	2.66	2.90	5.25	2.11	0.00		3.18	
Hirschsprung disease (congenital megacolon)	21	29	8	1	0	0	59	
	2.23	3.00	1.68	0.70	0.00		2.32	
Hydrocephalus without Spina Bifida	56	93	31	8	0	2	190	
	5.96	9.63	6.51	5.62	0.00		7.46	
Hypoplastic left heart syndrome	20	27	11	2	0	0	60	
	2.13	2.80	2.31	1.40	0.00		2.35	
Hypospadias and Epispadias	380	304	62	30	1	9	786	
	40.44	31.48	13.02	21.07	22.03		30.85	
Microcephalus	34	75	29	13	0	0	151	
	3.62	7.77	6.09	9.13	0.00		5.93	
Obstructive genitourinary defect	230	198	123	31	0	5	587	
	24.48	20.50	25.84	21.77	0.00		23.04	

Georgia

Birth Defects Counts and Rates 2000-2004

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Omphalocele	19 2.02	21 2.17	6 1.26	1 0.70	0 0.00	2 1.92	49 1.92	
Patent ductus arteriosus	292 31.07	263 27.23	153 32.14	36 25.28	0 0.00	15 29.79	759 29.79	
Pulmonary valve atresia and stenosis	65 6.92	66 6.83	33 6.93	14 9.83	0 0.00	0 6.99	178 6.99	
Pyloric stenosis	166 17.67	56 5.80	67 14.08	12 8.43	0 0.00	2 11.89	303 11.89	
Rectal and large intestinal atresia/stenosis	25 2.66	35 3.62	16 3.36	7 4.92	1 22.03	2 3.38	86 3.38	
Reduction deformity, lower limbs	6 0.64	17 1.76	6 1.26	2 1.40	0 0.00	0 1.22	31 1.22	
Reduction deformity, upper limbs	36 3.83	39 4.04	16 3.36	1 0.70	0 0.00	2 3.69	94 3.69	
Renal agenesis/hypoplasia	51 5.43	45 4.66	14 2.94	5 3.51	0 0.00	0 4.51	115 4.51	
Spina bifida without anencephalus	26 2.77	27 2.80	31 6.51	2 1.40	0 0.00	5 3.57	91 3.57	+
Tetralogy of Fallot	39 4.15	45 4.66	15 3.15	8 5.62	0 0.00	0 4.20	107 4.20	
Transposition of great arteries	50 5.32	52 5.38	30 6.30	10 7.02	0 0.00	1 5.61	143 5.61	
Tricuspid valve atresia and stenosis	16 1.70	18 1.86	9 1.89	0 0.00	0 0.00	0 1.69	43 1.69	
Trisomy 13 (Patau syndrome)	13 1.38	7 0.72	9 1.89	2 1.40	0 0.00	0 1.22	31 1.22	
Trisomy 18 (Edwards syndrome)	16 1.70	35 3.62	10 2.10	2 1.40	0 0.00	0 2.47	63 2.47	
Ventricular septal defect	518 55.12	346 35.83	258 54.20	43 30.19	0 0.00	18 46.43	1183 46.43	
Total Live Births	93970	96574	47601	14241	454	254792		

Georgia

Trisomy Counts and Rates by Maternal Age 2000-2004

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total (**)
Down syndrome (Trisomy 21)	173 8.09	181 44.25	355 13.93
Trisomy 13 (Patau syndrome)	22 1.03	9 2.20	31 1.22
Trisomy 18 (Edwards syndrome)	34 1.59	29 7.09	63 2.47
Total Live Births	213830	40908	254792

(**) Total includes unknown age

(+)Notes:

- 1: 2000-2004, Anencephalus, Includes Terminations
- 2: 2000-2004, Spina bifida without anencephalus, Includes Terminations
- 3: 2000-2004, Encephalocele, Includes Terminations

Hawaii

Birth Defects Counts and Rates 2000-2004

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Amniotic bands	2	1	0	7	0	0	10	
	1.10	4.05		1.15			1.13	
Anencephalus	9	0	0	16	0	3	28	+
	4.93	0.00		2.64			3.16	
Aniridia	0	0	0	0	0	0	0	
	0.00	0.00		0.00			0.00	
Anophthalmia/ microphthalmia	4	0	0	12	0	0	16	
	2.19	0.00		1.98			1.80	
Anotia/microtia	2	0	3	35	0	1	41	
	1.10	0.00		5.77			4.62	
Aortic valve stenosis	0	0	0	6	0	0	6	
	0.00	0.00		0.99			0.68	
Atrial septal defect	38	3	7	185	3	8	244	
	20.83	12.15		30.51			27.51	
Biliary atresia	0	0	0	7	0	0	7	
	0.00	0.00		1.15			0.79	
Bladder exstrophy	0	0	0	0	0	0	0	
	0.00	0.00		0.00			0.00	
Choanal atresia	3	0	0	5	0	0	8	+
	1.64	0.00		0.82			0.90	
Cleft lip with and without cleft palate	11	1	3	67	0	2	84	
	6.03	4.05		11.05			9.47	
Cleft palate without cleft lip	9	1	2	39	0	1	52	
	4.93	4.05		6.43			5.86	
Coarctation of aorta	8	0	0	16	0	2	26	
	4.38	0.00		2.64			2.93	
Common truncus	0	0	0	1	0	0	1	
	0.00	0.00		0.16			0.11	
Congenital cataract	3	0	0	3	0	0	6	
	1.64	0.00		0.49			0.68	
Congenital hip dislocation	7	0	1	29	1	1	39	
	3.84	0.00		4.78			4.40	
Diaphragmatic hernia	2	1	0	8	0	0	11	
	1.10	4.05		1.32			1.24	
Down syndrome (Trisomy 21)	22	4	4	71	2	18	121	
	12.06	16.20		11.71			13.64	
Ebstein anomaly	0	0	0	4	0	2	6	
	0.00	0.00		0.66			0.68	
Encephalocele	3	1	0	7	0	0	11	
	1.64	4.05		1.15			1.24	
Endocardial cushion defect	3	1	1	13	1	0	19	
	1.64	4.05		2.14			2.14	
Esophageal atresia/ tracheoesophageal fistula	4	1	0	7	0	1	13	
	2.19	4.05		1.15			1.47	+
Fetus or newborn affected by maternal alcohol use	0	0	0	4	0	0	4	
	0.00	0.00		0.66			0.45	
Gastroschisis	9	0	1	22	0	2	34	
	4.93	0.00		3.63			3.83	
Hirschsprung disease (congenital megacolon)	1	0	1	11	0	1	14	
	0.55	0.00		1.81			1.58	
Hydrocephalus without Spina Bifida	15	3	1	62	0	1	82	
	8.22	12.15		10.22			9.24	
Hypoplastic left heart syndrome	0	0	1	6	0	0	7	
	0.00	0.00		0.99			0.79	
Hypospadias and Epispadias	56	11	7	152	1	3	230	
	30.69	44.55		25.07			25.93	
Microcephalus	15	2	0	50	1	3	71	
	8.22	8.10		8.25			8.00	
Obstructive genitourinary defect	41	6	7	97	0	10	161	
	22.47	24.30		16.00			18.15	

Hawaii**Birth Defects Counts and Rates 2000-2004**

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
	6	0	0	9	0	3	18	
Omphalocele	3.29	0.00		1.48			2.03	
	135	18	24	675	7	30	889	
Patent ductus arteriosus	73.99	72.90		111.32			100.21	
	2	0	1	24	0	0	27	
Pulmonary valve atresia and stenosis	1.10	0.00		3.96			3.04	
	18	4	3	24	0	2	51	
Pyloric stenosis	9.87	16.20		3.96			5.75	
	10	2	1	29	0	2	44	
Rectal and large intestinal atresia/stenosis	5.48	8.10		4.78			4.96	
	1	1	0	11	0	1	14	
Reduction deformity, lower limbs	0.55	4.05		1.81			1.58	
	3	1	0	17	0	2	23	
Reduction deformity, upper limbs	1.64	4.05		2.80			2.59	
	6	4	0	25	0	3	38	
Renal agenesis/hypoplasia	3.29	16.20		4.12			4.28	
	8	0	2	14	0	2	26	
Spina bifida without anencephalus	4.38	0.00		2.31			2.93	
	5	1	2	22	0	0	30	
Tetralogy of Fallot	2.74	4.05		3.63			3.38	
	11	0	1	28	0	1	41	
Transposition of great arteries	6.03	0.00		4.62			4.62	
	1	0	0	14	0	0	15	
Tricuspid valve atresia and stenosis	0.55	0.00		2.31			1.69	
	3	0	1	7	0	2	13	
Trisomy 13 (Patau syndrome)	1.64	0.00		1.15			1.47	
	9	0	1	15	0	5	30	
Trisomy 18 (Edwards syndrome)	4.93	0.00		2.47			3.38	
	64	7	7	261	3	16	358	
Ventricular septal defect	35.08	28.35		43.04			40.36	
Total Live Births	18245	2469		60637			88711	+

Hawaii**Trisomy Counts and Rates by Maternal Age 2000-2004**

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total (**)
	48	73	121
Down syndrome (Trisomy 21)	6.52	48.50	13.64
	7	6	13
Trisomy 13 (Patau syndrome)	0.95	3.99	1.47
	12	18	30
Trisomy 18 (Edwards syndrome)	1.63	11.96	3.38
Total Live Births	73658	15052	88711

(**) Total includes unknown age

(+)Notes:

1: 2000-2004, All birth defects diagnoses include stillbirths/terminations

2: 2003-2004, Total Live Births, Due to a change in Hawaii Department of Health policy the Hawaii Birth Defects Program could not get denominators for many of the racial/ethnic groups

Illinois
Birth Defects Counts and Rates 2000-2004
 (Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Amniotic bands	24 <i>0.81</i>	8 <i>0.86</i>	10 <i>0.79</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	42 <i>0.77</i>	+
Anencephalus	80 <i>1.60</i>	26 <i>1.62</i>	44 <i>2.13</i>	4 <i>0.94</i>	4 <i>33.90</i>	0 <i>1.73</i>	158 <i>1.73</i>	
Aniridia	3 <i>0.06</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	3 <i>0.03</i>	
Anophthalmia/ microphthalmia	74 <i>1.48</i>	16 <i>1.00</i>	23 <i>1.12</i>	2 <i>0.47</i>	0 <i>0.00</i>	1 <i>1.27</i>	116 <i>1.27</i>	
Anotia/microtia	38 <i>0.76</i>	6 <i>0.37</i>	31 <i>1.50</i>	5 <i>1.18</i>	0 <i>0.00</i>	0 <i>0.88</i>	80 <i>0.88</i>	
Aortic valve stenosis	65 <i>1.30</i>	4 <i>0.25</i>	8 <i>0.39</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.85</i>	78 <i>0.85</i>	
Atrial septal defect	2489 <i>49.64</i>	724 <i>45.11</i>	777 <i>37.68</i>	175 <i>41.25</i>	6 <i>50.85</i>	18 <i>45.90</i>	4189 <i>45.90</i>	
Biliary atresia	9 <i>0.18</i>	4 <i>0.25</i>	8 <i>0.39</i>	2 <i>0.47</i>	0 <i>0.00</i>	0 <i>0.25</i>	23 <i>0.25</i>	
Bladder exstrophy	22 <i>0.44</i>	1 <i>0.06</i>	1 <i>0.05</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.26</i>	24 <i>0.26</i>	
Choanal atresia	77 <i>1.54</i>	15 <i>0.93</i>	26 <i>1.26</i>	4 <i>0.94</i>	1 <i>8.47</i>	0 <i>1.35</i>	123 <i>1.35</i>	
Cleft lip with and without cleft palate	400 <i>7.98</i>	83 <i>5.17</i>	147 <i>7.13</i>	26 <i>6.13</i>	1 <i>8.47</i>	0 <i>7.20</i>	657 <i>7.20</i>	
Cleft palate without cleft lip	275 <i>5.48</i>	56 <i>3.49</i>	69 <i>3.35</i>	15 <i>3.54</i>	0 <i>0.00</i>	1 <i>4.56</i>	416 <i>4.56</i>	
Coarctation of aorta	157 <i>3.13</i>	32 <i>1.99</i>	60 <i>2.91</i>	10 <i>2.36</i>	0 <i>0.00</i>	0 <i>2.84</i>	259 <i>2.84</i>	
Common truncus	25 <i>0.50</i>	17 <i>1.06</i>	11 <i>0.53</i>	3 <i>0.71</i>	0 <i>0.00</i>	0 <i>0.61</i>	56 <i>0.61</i>	
Congenital cataract	36 <i>0.72</i>	11 <i>0.69</i>	14 <i>0.68</i>	1 <i>0.24</i>	0 <i>0.00</i>	0 <i>0.68</i>	62 <i>0.68</i>	
Congenital hip dislocation	231 <i>4.61</i>	27 <i>1.68</i>	85 <i>4.12</i>	18 <i>4.24</i>	0 <i>0.00</i>	0 <i>3.96</i>	361 <i>3.96</i>	
Diaphragmatic hernia	144 <i>2.87</i>	36 <i>2.24</i>	56 <i>2.72</i>	9 <i>2.12</i>	0 <i>0.00</i>	2 <i>2.71</i>	247 <i>2.71</i>	
Down syndrome (Trisomy 21)	631 <i>12.58</i>	167 <i>10.40</i>	303 <i>14.70</i>	55 <i>12.96</i>	2 <i>16.95</i>	8 <i>12.78</i>	1166 <i>12.78</i>	
Ebstein anomaly	30 <i>0.60</i>	7 <i>0.44</i>	16 <i>0.78</i>	2 <i>0.47</i>	0 <i>0.00</i>	0 <i>0.60</i>	55 <i>0.60</i>	
Encephalocele	31 <i>0.62</i>	12 <i>0.75</i>	11 <i>0.53</i>	3 <i>0.71</i>	1 <i>8.47</i>	0 <i>0.64</i>	58 <i>0.64</i>	
Endocardial cushion defect	169 <i>3.37</i>	53 <i>3.30</i>	40 <i>1.94</i>	6 <i>1.41</i>	0 <i>0.00</i>	0 <i>2.94</i>	268 <i>2.94</i>	
Esophageal atresia/ tracheoesophageal fistula	130 <i>2.59</i>	33 <i>2.06</i>	32 <i>1.55</i>	12 <i>2.83</i>	1 <i>8.47</i>	0 <i>2.28</i>	208 <i>2.28</i>	
Fetus or newborn affected by maternal alcohol use	50 <i>1.00</i>	108 <i>6.73</i>	5 <i>0.24</i>	1 <i>0.24</i>	0 <i>0.00</i>	0 <i>1.80</i>	164 <i>1.80</i>	
Gastroschisis	69 <i>2.33</i>	19 <i>2.03</i>	50 <i>3.97</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>2.54</i>	138 <i>2.54</i>	+
Hirschsprung disease (congenital megacolon)	74 <i>1.48</i>	56 <i>3.49</i>	24 <i>1.16</i>	5 <i>1.18</i>	0 <i>0.00</i>	0 <i>1.74</i>	159 <i>1.74</i>	
Hydrocephalus without Spina Bifida	293 <i>5.84</i>	178 <i>11.09</i>	122 <i>5.92</i>	17 <i>4.01</i>	4 <i>33.90</i>	1 <i>6.74</i>	615 <i>6.74</i>	
Hypoplastic left heart syndrome	99 <i>1.97</i>	26 <i>1.62</i>	38 <i>1.84</i>	5 <i>1.18</i>	1 <i>8.47</i>	0 <i>1.85</i>	169 <i>1.85</i>	
Hypospadias and Epispadias	1171 <i>23.35</i>	242 <i>15.08</i>	178 <i>8.63</i>	47 <i>11.08</i>	4 <i>33.90</i>	1 <i>18.00</i>	1643 <i>18.00</i>	
Lung agenesis/ hypoplasia	203 <i>4.05</i>	70 <i>4.36</i>	82 <i>3.98</i>	4 <i>0.94</i>	2 <i>16.95</i>	0 <i>3.96</i>	361 <i>3.96</i>	
Microcephalus	158 <i>3.15</i>	170 <i>10.59</i>	78 <i>3.78</i>	12 <i>2.83</i>	0 <i>0.00</i>	2 <i>4.60</i>	420 <i>4.60</i>	

Illinois

Birth Defects Counts and Rates 2000-2004

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
	1326	212	385	97	4	0	2024	
Obstructive genitourinary defect	26.45	13.21	18.67	22.86	33.90		22.18	
Omphalocele	53	18	16	3	0	1	90	+
	1.79	1.92	1.27	1.44	0.00		1.66	
Patent ductus arteriosus	1917	557	672	142	6	1	3295	
	38.23	34.70	32.59	33.47	50.85		36.10	+
Pulmonary artery anomalies	958	360	264	57	2	3	1644	
	19.11	22.43	12.80	13.44	16.95		18.01	
Pulmonary valve atresia and stenosis	395	136	92	17	1	2	643	
	7.88	8.47	4.46	4.01	8.47		7.05	
Pyloric stenosis	43	26	34	2	0	8	113	
	0.86	1.62	1.65	0.47	0.00		1.24	
Rectal and large intestinal atresia/stenosis	171	51	68	17	0	1	308	
	3.41	3.18	3.30	4.01	0.00		3.37	
Reduction deformity, lower limbs	68	29	22	6	0	0	125	
	1.36	1.81	1.07	1.41	0.00		1.37	
Reduction deformity, upper limbs	149	59	48	14	2	2	273	
	2.97	3.68	2.33	3.30	16.95		2.99	
Renal agenesis/hypoplasia	148	40	63	7	0	0	258	
	2.95	2.49	3.06	1.65	0.00		2.83	
Spina bifida without anencephalus	137	47	65	6	1	0	256	
	2.73	2.93	3.15	1.41	8.47		2.81	
Tetralogy of Fallot	135	66	42	12	1	6	262	
	2.69	4.11	2.04	2.83	8.47		2.87	
Transposition of great arteries	182	49	57	15	0	2	305	
	3.63	3.05	2.76	3.54	0.00		3.34	
Tricuspid valve atresia and stenosis	29	6	16	0	0	0	51	
	0.58	0.37	0.78	0.00	0.00		0.56	
Trisomy 13 (Patau syndrome)	59	19	12	1	1	2	94	
	1.18	1.18	0.58	0.24	8.47		1.03	
Trisomy 18 (Edwards syndrome)	136	38	53	4	2	2	235	
	2.71	2.37	2.57	0.94	16.95		2.57	
Ventricular septal defect	1470	400	574	116	3	17	2580	
	29.32	24.92	27.84	27.34	25.42		28.27	+
Total Live Births	501396	160506	206184	42425	1180		912638	

Illinois

Trisomy Counts and Rates by Maternal Age 2000-2004

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total (**)
	645	519	1164
Down syndrome (Trisomy 21)	8.29	39.13	12.78
	66	27	93
Trisomy 13 (Patau syndrome)	0.85	2.04	1.02
	122	112	234
Trisomy 18 (Edwards syndrome)	1.57	8.44	2.57
Total Live Births	777919	132644	910643

(**) Total includes unknown age

(+)Notes:

1: a) In each of these years, some active case finding was undertaken. APORS staff reviewed hospital charts to identify children with major birth defects. The targeted hospitals and conditions varied from year to year. Birth defects identified through these projects may not have been diagnosed during the newborn period. b) From 2000 onwards, APORS staff matched records to birth certificate information. Facilities

were asked to provide birth defect information about very low birth-weight children previously unreported to APORS. c) In 2000 and 2001, APORS staff matched some hospital discharge records with APORS records to obtain more complete case ascertainment. The facilities that provided most of the hospital discharge records were Level III facilities. d) In 2000, APORS staff undertook a reabstraction study. For a sample of reported cases, hospital charts were reviewed to determine the accuracy of hospital reporting.

2. From 2000-2001, ICD-9 codes were used to define the birth defect groups. From 2002 onwards BPA coding was used, except for 760.71: Fetus or newborn affected by maternal alcohol use

3: Illinois used primarily passive newborn reporting during 2000 and 2001. However, a number of projects were undertaken to enhance case identification during this time period:

4: In 2002, there was a major change in data collection methods. Illinois began active verification of the newborn reports received from facilities. Abstractors review each of the charts of live-born children believed likely to have a birth defect, markedly increasing the number of birth defects identified.

5: Probable/possible diagnoses are included in Illinois cases prior to 2002. From 2002 onwards, possible diagnoses are not included.

6: The data include fetal deaths > 20 weeks, or if death certificate was issued. It does not include terminations.

7: 2000-2004, Ventricular septal defect, Includes probable cases

8: 2000-2004, Patent ductus arteriosus, Birth weight => 2500g

9: Data for amniotic bands, gastroschisis, and omphalocele are only available for 2002-2004.

Indiana Birth Defects Counts and Rates 2003-2004

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Anencephalus	5 <i>0.37</i>	1 <i>0.53</i>	2 <i>1.46</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	8 <i>0.46</i>	
Aniridia	0 <i>0.00</i>	1 <i>0.53</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.06</i>	
Anophthalmia/ microphthalmia	8 <i>0.59</i>	1 <i>0.53</i>	1 <i>0.73</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>0.00</i>	12 <i>0.69</i>	
Anotia/microtia	4 <i>0.29</i>	0 <i>0.00</i>	3 <i>2.19</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	8 <i>0.46</i>	
Aortic valve stenosis	34 <i>2.49</i>	1 <i>0.53</i>	1 <i>0.73</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	36 <i>2.08</i>	
Atrial septal defect	552 <i>40.38</i>	72 <i>38.41</i>	36 <i>26.34</i>	1 <i>12.67</i>	0 <i>0.00</i>	6 <i>0.00</i>	667 <i>38.45</i>	
Biliary atresia	9 <i>0.66</i>	1 <i>0.53</i>	2 <i>1.46</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	13 <i>0.75</i>	
Bladder exstrophy	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>12.67</i>	0 <i>0.00</i>	1 <i>0.00</i>	2 <i>0.12</i>	
Choanal atresia	16 <i>1.17</i>	3 <i>1.60</i>	2 <i>1.46</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	21 <i>1.21</i>	
Cleft lip with and without cleft palate	169 <i>12.36</i>	7 <i>3.73</i>	16 <i>11.71</i>	0 <i>0.00</i>	0 <i>0.00</i>	5 <i>0.00</i>	197 <i>11.36</i>	
Cleft palate without cleft lip	97 <i>7.10</i>	8 <i>4.27</i>	6 <i>4.39</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>0.00</i>	113 <i>6.51</i>	
Coarctation of aorta	88 <i>6.44</i>	9 <i>4.80</i>	8 <i>5.85</i>	1 <i>12.67</i>	0 <i>0.00</i>	2 <i>0.00</i>	108 <i>6.23</i>	
Common truncus	8 <i>0.59</i>	2 <i>1.07</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	10 <i>0.58</i>	
Congenital cataract	16 <i>1.17</i>	3 <i>1.60</i>	3 <i>2.19</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	22 <i>1.27</i>	
Congenital hip dislocation	90 <i>6.58</i>	4 <i>2.13</i>	12 <i>8.78</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	107 <i>6.17</i>	
Diaphragmatic hernia	38 <i>2.78</i>	3 <i>1.60</i>	4 <i>2.93</i>	1 <i>12.67</i>	0 <i>0.00</i>	0 <i>0.00</i>	46 <i>2.65</i>	
Down syndrome (Trisomy 21)	161 <i>11.78</i>	16 <i>8.54</i>	8 <i>5.85</i>	1 <i>12.67</i>	0 <i>0.00</i>	0 <i>0.00</i>	189 <i>10.90</i>	
Ebstein anomaly	8 <i>0.59</i>	1 <i>0.53</i>	2 <i>1.46</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	11 <i>0.63</i>	
Encephalocele	9 <i>0.66</i>	1 <i>0.53</i>	2 <i>1.46</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	12 <i>0.69</i>	
Endocardial cushion defect	79 <i>5.78</i>	8 <i>4.27</i>	3 <i>2.19</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	91 <i>5.25</i>	
Esophageal atresia/ tracheoesophageal fistula	26 <i>1.90</i>	2 <i>1.07</i>	1 <i>0.73</i>	1 <i>12.67</i>	0 <i>0.00</i>	0 <i>0.00</i>	30 <i>1.73</i>	
Fetus or newborn affected by maternal alcohol use	27 <i>1.97</i>	6 <i>3.20</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	3 <i>0.00</i>	36 <i>2.08</i>	
Gastroschisis	34 <i>2.49</i>	2 <i>1.07</i>	4 <i>2.93</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	40 <i>2.31</i>	
Hirschsprung disease (congenital megacolon)	29 <i>2.12</i>	4 <i>2.13</i>	0 <i>0.00</i>	1 <i>12.67</i>	0 <i>0.00</i>	1 <i>0.00</i>	35 <i>2.02</i>	
Hydrocephalus without Spina Bifida	78 <i>5.71</i>	12 <i>6.40</i>	6 <i>4.39</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>0.00</i>	98 <i>5.65</i>	
Hypoplastic left heart syndrome	29 <i>2.12</i>	4 <i>2.13</i>	0 <i>0.00</i>	1 <i>12.67</i>	0 <i>0.00</i>	0 <i>0.00</i>	34 <i>1.96</i>	
Hypospadias and Epispadias	405 <i>29.62</i>	49 <i>26.14</i>	12 <i>8.78</i>	2 <i>25.35</i>	0 <i>0.00</i>	7 <i>0.00</i>	475 <i>27.38</i>	
Microcephalus	109 <i>7.97</i>	20 <i>10.67</i>	11 <i>8.05</i>	0 <i>0.00</i>	0 <i>0.00</i>	3 <i>0.00</i>	143 <i>8.24</i>	
Obstructive genitourinary defect	341 <i>24.94</i>	33 <i>17.61</i>	19 <i>13.90</i>	2 <i>25.35</i>	2 <i>96.15</i>	7 <i>0.00</i>	404 <i>23.29</i>	
Omphalocele	6 <i>0.44</i>	0 <i>0.00</i>	2 <i>1.46</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	8 <i>0.46</i>	

Indiana**Birth Defects Counts and Rates 2003-2004**

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Patent ductus arteriosus	305 22.31	51 27.21	24 17.56	2 25.35	0 0.00	3	385 22.19	
Pulmonary valve atresia and stenosis	141 10.31	18 9.60	9 6.58	2 25.35	0 0.00	5	175 10.09	
Pyloric stenosis	329 24.06	19 10.14	29 21.22	1 12.67	0 0.00	1	379 21.85	
Rectal and large intestinal atresia/stenosis	40 2.93	4 2.13	1 0.73	1 12.67	0 0.00	1	47 2.71	
Reduction deformity, lower limbs	17 1.24	2 1.07	0 0.00	0 0.00	0 0.00	0	19 1.10	
Reduction deformity, upper limbs	35 2.56	2 1.07	3 2.19	0 0.00	0 0.00	0	40 2.31	
Renal agenesis/hypoplasia	28 2.05	4 2.13	3 2.19	1 12.67	1 48.08	0	37 2.13	
Spina bifida without anencephalus	56 4.10	3 1.60	10 7.32	1 12.67	0 0.00	1	71 4.09	
Tetralogy of Fallot	41 3.00	11 5.87	2 1.46	0 0.00	0 0.00	3	57 3.29	
Transposition of great arteries	67 4.90	6 3.20	5 3.66	1 12.67	0 0.00	1	80 4.61	
Tricuspid valve atresia and stenosis	16 1.17	0 0.00	0 0.00	0 0.00	0 0.00	1	17 0.98	
Trisomy 13 (Patau syndrome)	10 0.73	1 0.53	5 3.66	0 0.00	0 0.00	1	17 0.98	
Trisomy 18 (Edwards syndrome)	10 0.73	1 0.53	2 1.46	1 12.67	1 48.08	0	15 0.86	
Ventricular septal defect	497 36.35	44 23.47	48 35.12	3 38.02	3 144.23	13	608 35.05	
Total Live Births	136714	18744	13668	789	208		173474	

Indiana**Trisomy Counts and Rates by Maternal Age 2003-2004**

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total (**)
Down syndrome (Trisomy 21)	114 7.32	75 42.19	189 10.90
Trisomy 13 (Patau syndrome)	11 0.71	6 3.37	17 0.98
Trisomy 18 (Edwards syndrome)	7 0.45	8 4.50	15 0.86
Total Live Births	155696	17778	173474

(**) Total includes unknown age

Iowa
Birth Defects Counts and Rates 2000-2004
(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Amniotic bands	24 <i>1.45</i>	2 <i>3.14</i>	1 <i>0.78</i>	2 <i>4.47</i>	0 <i>0.00</i>	0	29 <i>1.53</i>	
Anencephalus	49 <i>2.97</i>	1 <i>1.57</i>	7 <i>5.48</i>	1 <i>2.23</i>	0 <i>0.00</i>	3	61 <i>3.21</i>	
Aniridia	2 <i>0.12</i>	1 <i>1.57</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	2	5 <i>0.26</i>	
Anophthalmia/ microphthalmia	42 <i>2.55</i>	2 <i>3.14</i>	5 <i>3.92</i>	0 <i>0.00</i>	0 <i>0.00</i>	1	50 <i>2.63</i>	
Anotia/microtia	52 <i>3.15</i>	2 <i>3.14</i>	11 <i>8.61</i>	1 <i>2.23</i>	0 <i>0.00</i>	0	66 <i>3.48</i>	
Aortic valve stenosis	70 <i>4.24</i>	1 <i>1.57</i>	2 <i>1.57</i>	0 <i>0.00</i>	0 <i>0.00</i>	1	74 <i>3.90</i>	
Atrial septal defect	453 <i>27.45</i>	24 <i>37.70</i>	31 <i>24.28</i>	13 <i>29.03</i>	1 <i>9.67</i>	11	533 <i>28.06</i>	
Biliary atresia	12 <i>0.73</i>	0 <i>0.00</i>	1 <i>0.78</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	13 <i>0.68</i>	
Bladder exstrophy	7 <i>0.42</i>	0 <i>0.00</i>	1 <i>0.78</i>	0 <i>0.00</i>	0 <i>0.00</i>	1	9 <i>0.47</i>	
Choanal atresia	40 <i>2.42</i>	1 <i>1.57</i>	1 <i>0.78</i>	0 <i>0.00</i>	0 <i>0.00</i>	2	44 <i>2.32</i>	
Cleft lip with and without cleft palate	213 <i>12.91</i>	3 <i>4.71</i>	16 <i>12.53</i>	5 <i>11.17</i>	1 <i>9.67</i>	3	241 <i>12.69</i>	
Cleft palate without cleft lip	144 <i>8.73</i>	6 <i>9.43</i>	9 <i>7.05</i>	1 <i>2.23</i>	0 <i>0.00</i>	5	165 <i>8.69</i>	
Coarctation of aorta	97 <i>5.88</i>	2 <i>3.14</i>	3 <i>2.35</i>	0 <i>0.00</i>	0 <i>0.00</i>	2	104 <i>5.48</i>	
Common truncus	21 <i>1.27</i>	0 <i>0.00</i>	2 <i>1.57</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	23 <i>1.21</i>	
Congenital cataract	36 <i>2.18</i>	4 <i>6.28</i>	3 <i>2.35</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	43 <i>2.26</i>	
Congenital hip dislocation	142 <i>8.61</i>	2 <i>3.14</i>	13 <i>10.18</i>	2 <i>4.47</i>	0 <i>0.00</i>	2	161 <i>8.48</i>	
Diaphragmatic hernia	22 <i>1.33</i>	1 <i>1.57</i>	0 <i>0.00</i>	1 <i>2.23</i>	0 <i>0.00</i>	0	24 <i>1.26</i>	
Down syndrome (Trisomy 21)	262 <i>15.88</i>	6 <i>9.43</i>	18 <i>14.10</i>	7 <i>15.63</i>	0 <i>0.00</i>	8	301 <i>15.85</i>	
Ebstein anomaly	22 <i>1.33</i>	0 <i>0.00</i>	1 <i>0.78</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	23 <i>1.21</i>	
Encephalocele	9 <i>0.55</i>	2 <i>3.14</i>	4 <i>3.13</i>	0 <i>0.00</i>	0 <i>0.00</i>	1	16 <i>0.84</i>	
Endocardial cushion defect	102 <i>6.18</i>	4 <i>6.28</i>	6 <i>4.70</i>	3 <i>6.70</i>	1 <i>9.67</i>	5	121 <i>6.37</i>	
Esophageal atresia/ tracheoesophageal fistula	47 <i>2.85</i>	1 <i>1.57</i>	1 <i>0.78</i>	2 <i>4.47</i>	0 <i>0.00</i>	1	52 <i>2.74</i>	
Fetus or newborn affected by maternal alcohol use	4 <i>0.24</i>	0 <i>0.00</i>	1 <i>0.78</i>	0 <i>0.00</i>	0 <i>0.00</i>	1	6 <i>0.32</i>	
Gastroschisis	82 <i>4.97</i>	3 <i>4.71</i>	10 <i>7.83</i>	4 <i>8.93</i>	0 <i>0.00</i>	0	99 <i>5.21</i>	
Hirschsprung disease (congenital megacolon)	41 <i>2.48</i>	1 <i>1.57</i>	2 <i>1.57</i>	2 <i>4.47</i>	0 <i>0.00</i>	0	46 <i>2.42</i>	
Hydrocephalus without Spina Bifida	171 <i>10.36</i>	8 <i>12.57</i>	12 <i>9.40</i>	9 <i>20.10</i>	0 <i>0.00</i>	2	202 <i>10.64</i>	
Hypoplastic left heart syndrome	52 <i>3.15</i>	0 <i>0.00</i>	1 <i>0.78</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	53 <i>2.79</i>	
Hypospadias and Epispadias	112 <i>6.79</i>	3 <i>4.71</i>	6 <i>4.70</i>	5 <i>11.17</i>	0 <i>0.00</i>	8	134 <i>7.06</i>	+
Microcephalus	139 <i>8.42</i>	12 <i>18.85</i>	14 <i>10.96</i>	2 <i>4.47</i>	1 <i>9.67</i>	4	172 <i>9.06</i>	
Obstructive genitourinary defect	455 <i>27.57</i>	12 <i>18.85</i>	33 <i>25.84</i>	10 <i>22.33</i>	1 <i>9.67</i>	16	527 <i>27.75</i>	

Iowa**Birth Defects Counts and Rates 2000-2004**

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Omphalocele	45 2.73	0 0.00	2 1.57	0 0.00	1 9.67	1 2.58	49 2.58	
Patent ductus arteriosus	472 28.60	23 36.13	28 21.93	10 22.33	0 0.00	3 28.22	536 28.22	
Pulmonary valve atresia and stenosis	182 11.03	7 11.00	12 9.40	3 6.70	0 0.00	6 11.06	210 11.06	
Pyloric stenosis	560 33.94	8 12.57	43 33.67	2 4.47	2 19.34	12 33.01	627 33.01	
Rectal and large intestinal atresia/stenosis	77 4.67	4 6.28	10 7.83	1 2.23	0 0.00	1 4.90	93 4.90	
Reduction deformity, lower limbs	46 2.79	5 7.85	1 0.78	1 2.23	0 0.00	1 2.84	54 2.84	
Reduction deformity, upper limbs	92 5.58	7 11.00	2 1.57	4 8.93	0 0.00	1 5.58	106 5.58	
Renal agenesis/hypoplasia	118 7.15	5 7.85	8 6.26	3 6.70	0 0.00	6 7.37	140 7.37	
Spina bifida without anencephalus	93 5.64	1 1.57	4 3.13	2 4.47	0 0.00	3 5.42	103 5.42	
Tetralogy of Fallot	53 3.21	4 6.28	1 0.78	3 6.70	1 9.67	2 3.37	64 3.37	
Transposition of great arteries	96 5.82	3 4.71	3 2.35	2 4.47	0 0.00	2 5.58	106 5.58	
Tricuspid valve atresia and stenosis	16 0.97	0 0.00	2 1.57	0 0.00	0 0.00	2 1.05	20 1.05	
Trisomy 13 (Patau syndrome)	18 1.09	0 0.00	2 1.57	0 0.00	1 9.67	1 1.16	22 1.16	
Trisomy 18 (Edwards syndrome)	37 2.24	2 3.14	6 4.70	3 6.70	0 0.00	3 2.69	51 2.69	
Ventricular septal defect	747 45.27	30 47.13	60 46.99	13 29.03	1 9.67	17 45.70	868 45.70	
Total Live Births	165020	6366	12770	4478	1034	189922		

Iowa**Trisomy Counts and Rates by Maternal Age 2000-2004**

(Rates per 10,000 Live Births)

Defect	Age		Total (**)
	<35	35 and >	
Down syndrome (Trisomy 21)	180 10.63	120 58.38	301 15.85
Trisomy 13 (Patau syndrome)	13 0.77	9 4.38	22 1.16
Trisomy 18 (Edwards syndrome)	27 1.59	24 11.68	51 2.69
Total Live Births	169345	20556	189922

(**) Total includes unknown age

(+) Notes:

1. Includes epispadias and/or second or third degree hypospadias. Excludes hypospadias NOS and first degree hypospadias

Maryland
Birth Defects Counts and Rates 2000-2003
 (Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Anencephalus	[Redacted]							
Cleft lip with and without cleft palate	[Redacted]							
Cleft palate without cleft lip	[Redacted]							
Congenital hip dislocation	[Redacted]							
Down syndrome (Trisomy 21)	[Redacted]							
Esophageal atresia/ tracheoesophageal fistula	[Redacted]							
Hydrocephalus without Spina Bifida	[Redacted]							
Hypospadias and Epispadias	[Redacted]							
Rectal and large intestinal atresia/stenosis	[Redacted]							
Reduction deformity, lower limbs	[Redacted]							
Reduction deformity, upper limbs	[Redacted]							
Spina bifida without anencephalus	[Redacted]							
Total Live Births	[Redacted]							

Maryland
Trisomy Counts and Rates by Maternal Age 2000-2004
 (Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total (**)
Down syndrome (Trisomy 21)	[Redacted]		
Total Live Births	[Redacted]		

(**) Total includes unknown age

Massachusetts Birth Defects Counts and Rates 2000-2004

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/ Other		
Amniotic bands	17 <i>0.59</i>	3 <i>1.02</i>	3 <i>0.63</i>	3 <i>1.18</i>	0 <i>0.00</i>	0 <i>0.00</i>	26 <i>0.65</i>	
Anencephalus	12 <i>0.41</i>	1 <i>0.34</i>	4 <i>0.84</i>	1 <i>0.39</i>	0 <i>0.00</i>	1 <i>0.00</i>	19 <i>0.47</i>	
Aniridia	11 <i>0.38</i>	1 <i>0.34</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	12 <i>0.30</i>	
Anophthalmia/ microphthalmia	25 <i>0.86</i>	4 <i>1.36</i>	5 <i>1.05</i>	4 <i>1.57</i>	0 <i>0.00</i>	2 <i>0.00</i>	40 <i>1.00</i>	
Anotia/microtia	33 <i>1.14</i>	3 <i>1.02</i>	13 <i>2.72</i>	4 <i>1.57</i>	0 <i>0.00</i>	1 <i>0.00</i>	54 <i>1.34</i>	
Aortic valve stenosis	43 <i>1.48</i>	7 <i>2.37</i>	8 <i>1.67</i>	2 <i>0.79</i>	0 <i>0.00</i>	0 <i>0.00</i>	60 <i>1.49</i>	
Atrial septal defect	518 <i>17.85</i>	93 <i>31.50</i>	92 <i>19.26</i>	38 <i>14.94</i>	1 <i>13.57</i>	14 <i>13.57</i>	756 <i>18.81</i>	
Biliary atresia	11 <i>0.38</i>	3 <i>1.02</i>	4 <i>0.84</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	18 <i>0.45</i>	
Bladder exstrophy	13 <i>0.45</i>	2 <i>0.68</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	15 <i>0.37</i>	
Choanal atresia	16 <i>0.55</i>	0 <i>0.00</i>	1 <i>0.21</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	17 <i>0.42</i>	
Cleft lip with and without cleft palate	205 <i>7.06</i>	17 <i>5.76</i>	44 <i>9.21</i>	24 <i>9.44</i>	0 <i>0.00</i>	6 <i>0.00</i>	296 <i>7.37</i>	
Cleft palate without cleft lip	169 <i>5.82</i>	8 <i>2.71</i>	34 <i>7.12</i>	19 <i>7.47</i>	0 <i>0.00</i>	6 <i>0.00</i>	236 <i>5.87</i>	
Coarctation of aorta	130 <i>4.48</i>	14 <i>4.74</i>	19 <i>3.98</i>	7 <i>2.75</i>	1 <i>13.57</i>	8 <i>13.57</i>	179 <i>4.45</i>	
Common truncus	12 <i>0.41</i>	2 <i>0.68</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	14 <i>0.35</i>	
Congenital cataract	31 <i>1.07</i>	3 <i>1.02</i>	8 <i>1.67</i>	2 <i>0.79</i>	0 <i>0.00</i>	0 <i>0.00</i>	44 <i>1.09</i>	
Diaphragmatic hernia	66 <i>2.27</i>	5 <i>1.69</i>	16 <i>3.35</i>	7 <i>2.75</i>	0 <i>0.00</i>	0 <i>0.00</i>	94 <i>2.34</i>	
Down syndrome (Trisomy 21)	352 <i>12.13</i>	37 <i>12.53</i>	63 <i>13.19</i>	15 <i>5.90</i>	0 <i>0.00</i>	10 <i>0.00</i>	477 <i>11.87</i>	
Ebstein anomaly	12 <i>0.41</i>	2 <i>0.68</i>	5 <i>1.05</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	19 <i>0.47</i>	
Encephalocele	8 <i>0.28</i>	5 <i>1.69</i>	1 <i>0.21</i>	1 <i>0.39</i>	0 <i>0.00</i>	1 <i>0.00</i>	16 <i>0.40</i>	
Endocardial cushion defect	131 <i>4.51</i>	25 <i>8.47</i>	23 <i>4.82</i>	6 <i>2.36</i>	0 <i>0.00</i>	3 <i>0.00</i>	188 <i>4.68</i>	
Esophageal atresia/ tracheoesophageal fistula	69 <i>2.38</i>	5 <i>1.69</i>	11 <i>2.30</i>	3 <i>1.18</i>	0 <i>0.00</i>	3 <i>0.00</i>	91 <i>2.26</i>	
Gastroschisis	60 <i>2.07</i>	4 <i>1.36</i>	26 <i>5.44</i>	3 <i>1.18</i>	1 <i>13.57</i>	1 <i>13.57</i>	95 <i>2.36</i>	
Hirschsprung disease (congenital megacolon)	42 <i>1.45</i>	3 <i>1.02</i>	8 <i>1.67</i>	3 <i>1.18</i>	0 <i>0.00</i>	1 <i>0.00</i>	57 <i>1.42</i>	
Hydrocephalus without spina bifida	76 <i>2.62</i>	15 <i>5.08</i>	19 <i>3.98</i>	9 <i>3.54</i>	1 <i>13.57</i>	4 <i>13.57</i>	124 <i>3.09</i>	
Hypoplastic left heart syndrome	40 <i>1.38</i>	7 <i>2.37</i>	5 <i>1.05</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>0.00</i>	54 <i>1.34</i>	
Hypospadias and Epispadias	313 <i>10.78</i>	27 <i>9.15</i>	42 <i>8.79</i>	20 <i>7.87</i>	2 <i>27.14</i>	5 <i>27.14</i>	409 <i>10.18</i>	+
Microcephalus	54 <i>1.86</i>	7 <i>2.37</i>	17 <i>3.56</i>	8 <i>3.15</i>	0 <i>0.00</i>	3 <i>0.00</i>	89 <i>2.21</i>	+
Obstructive genitourinary defect	261 <i>8.99</i>	27 <i>9.15</i>	47 <i>9.84</i>	17 <i>6.69</i>	0 <i>0.00</i>	4 <i>0.00</i>	356 <i>8.86</i>	+
Omphalocele	41 <i>1.41</i>	10 <i>3.39</i>	9 <i>1.88</i>	1 <i>0.39</i>	0 <i>0.00</i>	0 <i>0.00</i>	61 <i>1.52</i>	

Massachusetts**Birth Defects Counts and Rates 2000-2004**

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/ Other		
Patent ductus arteriosus	466 16.06	84 28.46	83 17.38	36 14.16	1 13.57	13	683 17.00	+
Pulmonary valve atresia and stenosis	194 6.68	32 10.84	32 6.70	7 2.75	0 0.00	7	272 6.77	
Rectal and large intestinal atresia/stenosis	109 3.76	13 4.40	25 5.23	5 1.97	0 0.00	4	156 3.88	
Reduction deformity, lower limbs	35 1.21	3 1.02	7 1.47	2 0.79	0 0.00	3	50 1.24	
Reduction deformity, upper limbs	86 2.96	8 2.71	16 3.35	6 2.36	0 0.00	3	119 2.96	
Renal agenesis/hypoplasia	5 0.17	2 0.68	1 0.21	0 0.00	0 0.00	2	10 0.25	+
Spina bifida without anencephalus	51 1.76	7 2.37	9 1.88	4 1.57	0 0.00	1	72 1.79	
Tetralogy of Fallot	128 4.41	14 4.74	29 6.07	14 5.51	0 0.00	2	187 4.65	
Transposition of great arteries	107 3.69	15 5.08	15 3.14	9 3.54	0 0.00	3	149 3.71	
Tricuspid valve atresia and stenosis	18 0.62	6 2.03	4 0.84	0 0.00	0 0.00	1	29 0.72	
Trisomy 13 (Patau syndrome)	16 0.55	3 1.02	1 0.21	2 0.79	0 0.00	3	25 0.62	
Trisomy 18 (Edwards syndrome)	31 1.07	7 2.37	6 1.26	3 1.18	0 0.00	0	47 1.17	
Ventricular septal defect	467 16.09	65 22.02	103 21.57	41 16.12	1 13.57	14	691 17.20	+
Total Live Births	290228	29520	47762	25429	737		401847	

Massachusetts**Trisomy Counts and Rates by Maternal Age 2000-2004**

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total (**)
Down syndrome (Trisomy 21)	222 7.14	255 28.11	477 11.87
Trisomy 13 (Patau syndrome)	14 0.45	11 1.21	25 0.62
Trisomy 18 (Edwards syndrome)	21 0.67	26 2.87	47 1.17
Total Live Births	311128	90703	401847

(**) Total includes unknown age

(+)Notes:

1. Stillbirths are included. Terminations are not included.
2. Coding system is CDC/BPA.
3. Possible/probable cases are excluded.
4. Differences in numbers of birth defects from previous publications are the result of updated files.
- 5: 2000-2004, Microcephalus, Defined as head circumference 2 std below normal.
- 6: 2000-2003, Ventricular septal defect, Excludes isolated muscular VSDs.
- 7: 2000-2003, Patent ductus arteriosus, Excludes GA <36 weeks. For 1999-2000: >35 weeks and persists 5 days. For 2001: If >35 weeks: ligated surgically catheter assoc with codable defect.
- 8: 2004, Patent ductus arteriosus, Defined as head circumference 2 std below normal.
- 9: 2000-2004, Renal agenesis/hypoplasia, Excludes isolated unil renal agenesis/hypoplasia.
- 10: 2000-2004, Obstructive genitourinary defect, Excludes isolated diagnosis without surgical intervention and secondary diagnosis without postnatal confirmation.
- 11: 2000-2004, Hypospadias and Epispadias, Excludes 1st degree hypospadias and epispadias.

Michigan
Birth Defects Counts and Rates 2000-2004
(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Anencephalus	54 <i>1.12</i>	11 <i>0.96</i>	4 <i>1.11</i>	1 <i>0.47</i>	0 <i>0.00</i>	18	88 <i>1.33</i>	
Aniridia	14 <i>0.29</i>	2 <i>0.17</i>	2 <i>0.56</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	18 <i>0.27</i>	
Anophthalmia/ microphthalmia	89 <i>1.85</i>	19 <i>1.66</i>	9 <i>2.50</i>	3 <i>1.42</i>	0 <i>0.00</i>	6	126 <i>1.90</i>	
Anotia/microtia	58 <i>1.21</i>	6 <i>0.52</i>	7 <i>1.94</i>	8 <i>3.78</i>	2 <i>6.00</i>	1	82 <i>1.24</i>	
Aortic valve stenosis	134 <i>2.79</i>	13 <i>1.14</i>	7 <i>1.94</i>	6 <i>2.84</i>	1 <i>3.00</i>	6	167 <i>2.52</i>	
Atrial septal defect	3190 <i>66.36</i>	832 <i>72.73</i>	267 <i>74.11</i>	108 <i>51.08</i>	18 <i>54.02</i>	150	4565 <i>68.91</i>	
Biliary atresia	43 <i>0.89</i>	25 <i>2.19</i>	1 <i>0.28</i>	1 <i>0.47</i>	0 <i>0.00</i>	3	73 <i>1.10</i>	
Bladder exstrophy	21 <i>0.44</i>	6 <i>0.52</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	27 <i>0.41</i>	
Choanal atresia	86 <i>1.79</i>	16 <i>1.40</i>	9 <i>2.50</i>	1 <i>0.47</i>	0 <i>0.00</i>	2	114 <i>1.72</i>	
Cleft lip with and without cleft palate	523 <i>10.88</i>	70 <i>6.12</i>	45 <i>12.49</i>	19 <i>8.99</i>	6 <i>18.01</i>	22	685 <i>10.34</i>	
Cleft palate without cleft lip	258 <i>5.37</i>	52 <i>4.55</i>	15 <i>4.16</i>	8 <i>3.78</i>	2 <i>6.00</i>	17	352 <i>5.31</i>	
Coarctation of aorta	288 <i>5.99</i>	58 <i>5.07</i>	22 <i>6.11</i>	11 <i>5.20</i>	2 <i>6.00</i>	8	389 <i>5.87</i>	
Common truncus	58 <i>1.21</i>	8 <i>0.70</i>	1 <i>0.28</i>	1 <i>0.47</i>	1 <i>3.00</i>	9	78 <i>1.18</i>	
Congenital cataract	115 <i>2.39</i>	29 <i>2.54</i>	6 <i>1.67</i>	3 <i>1.42</i>	2 <i>6.00</i>	5	160 <i>2.42</i>	
Congenital hip dislocation	747 <i>15.54</i>	62 <i>5.42</i>	46 <i>12.77</i>	37 <i>17.50</i>	1 <i>3.00</i>	26	919 <i>13.87</i>	
Diaphragmatic hernia	147 <i>3.06</i>	24 <i>2.10</i>	14 <i>3.89</i>	8 <i>3.78</i>	1 <i>3.00</i>	14	208 <i>3.14</i>	
Down syndrome (Trisomy 21)	613 <i>12.75</i>	101 <i>8.83</i>	47 <i>13.05</i>	27 <i>12.77</i>	2 <i>6.00</i>	32	822 <i>12.41</i>	
Ebstein anomaly	123 <i>2.56</i>	15 <i>1.31</i>	2 <i>0.56</i>	3 <i>1.42</i>	1 <i>3.00</i>	7	151 <i>2.28</i>	
Encephalocele	38 <i>0.79</i>	17 <i>1.49</i>	6 <i>1.67</i>	0 <i>0.00</i>	0 <i>0.00</i>	4	65 <i>0.98</i>	
Endocardial cushion defect	227 <i>4.72</i>	42 <i>3.67</i>	8 <i>2.22</i>	11 <i>5.20</i>	1 <i>3.00</i>	14	303 <i>4.57</i>	
Esophageal atresia/ tracheoesophageal fistula	155 <i>3.22</i>	30 <i>2.62</i>	10 <i>2.78</i>	3 <i>1.42</i>	2 <i>6.00</i>	9	209 <i>3.15</i>	
Fetus or newborn affected by maternal alcohol use	56 <i>1.16</i>	34 <i>2.97</i>	5 <i>1.39</i>	1 <i>0.47</i>	1 <i>3.00</i>	1	98 <i>1.48</i>	
Hirschsprung disease (congenital megacolon)	144 <i>3.00</i>	39 <i>3.41</i>	11 <i>3.05</i>	7 <i>3.31</i>	0 <i>0.00</i>	6	207 <i>3.12</i>	
Hydrocephalus without Spina Bifida	420 <i>8.74</i>	140 <i>12.24</i>	29 <i>8.05</i>	13 <i>6.15</i>	2 <i>6.00</i>	27	631 <i>9.52</i>	
Hypoplastic left heart syndrome	188 <i>3.91</i>	44 <i>3.85</i>	12 <i>3.33</i>	10 <i>4.73</i>	1 <i>3.00</i>	18	273 <i>4.12</i>	
Hypospadias and Epispadias	1543 <i>32.10</i>	294 <i>25.70</i>	69 <i>19.15</i>	37 <i>17.50</i>	7 <i>21.01</i>	63	2013 <i>30.39</i>	
Microcephalus	389 <i>8.09</i>	150 <i>13.11</i>	37 <i>10.27</i>	23 <i>10.88</i>	2 <i>6.00</i>	18	619 <i>9.34</i>	
Obstructive genitourinary defect	1072 <i>22.30</i>	191 <i>16.70</i>	110 <i>30.53</i>	41 <i>19.39</i>	4 <i>12.00</i>	36	1454 <i>21.95</i>	
Patent ductus arteriosus	1335 <i>27.77</i>	338 <i>29.55</i>	88 <i>24.43</i>	50 <i>23.65</i>	8 <i>24.01</i>	3	1822 <i>27.50</i>	
Pulmonary valve atresia and stenosis	454 <i>9.44</i>	166 <i>14.51</i>	26 <i>7.22</i>	26 <i>12.30</i>	1 <i>3.00</i>	31	704 <i>10.63</i>	

Michigan

Birth Defects Counts and Rates 2000-2004

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Pyloric stenosis	963 20.03	108 9.44	64 17.76	12 5.68	4 12.00	27	1178 17.78	
Rectal and large intestinal atresia/stenosis	211 4.39	58 5.07	19 5.27	10 4.73	0 0.00	18	316 4.77	
Reduction deformity, lower limbs	77 1.60	27 2.36	4 1.11	3 1.42	0 0.00	3	114 1.72	
Reduction deformity, upper limbs	106 2.20	29 2.54	8 2.22	6 2.84	1 3.00	7	157 2.37	
Renal agenesis/hypoplasia	271 5.64	48 4.20	24 6.66	9 4.26	2 6.00	23	377 5.69	
Spina bifida without anencephalus	193 4.01	45 3.93	9 2.50	8 3.78	2 6.00	14	271 4.09	
Tetralogy of Fallot	246 5.12	47 4.11	20 5.55	8 3.78	0 0.00	13	334 5.04	
Transposition of great arteries	229 4.76	39 3.41	14 3.89	12 5.68	0 0.00	17	311 4.69	
Tricuspid valve atresia and stenosis	63 1.31	17 1.49	8 2.22	3 1.42	0 0.00	6	97 1.46	
Trisomy 13 (Patau syndrome)	35 0.73	9 0.79	3 0.83	5 2.36	0 0.00	10	62 0.94	
Trisomy 18 (Edwards syndrome)	58 1.21	19 1.66	4 1.11	4 1.89	0 0.00	13	98 1.48	
Ventricular septal defect	1879 39.09	320 27.97	150 41.64	96 45.41	9 27.01	89	2543 38.39	
Total Live Births	480732	114389	36026	21142	3332		662470	+

Michigan

Trisomy Counts and Rates by Maternal Age 2000-2004

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total (**)
Down syndrome (Trisomy 21)	462 8.04	333 38.83	822 12.41
Trisomy 13 (Patau syndrome)	39 0.68	13 1.52	62 0.94
Trisomy 18 (Edwards syndrome)	58 1.01	28 3.26	98 1.48
Total Live Births	574341	85767	662470 (+)

(**) Total includes unknown age

(+)Notes:

- 1: 2000-2004, Total Live Births, Includes Hispanics in Asian/NorthAmerican
- 2: 2000-2004, Total Live Births, Revised to Birth Master File Figures

Mississippi Birth Defects Counts and Rates 2000-2003

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Anencephalus	6 <i>0.67</i>	6 <i>0.80</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	13 <i>0.76</i>	+
Aniridia	1 <i>0.11</i>	1 <i>0.13</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>0.12</i>	
Anophthalmia/ microphthalmia	11 <i>1.23</i>	10 <i>1.33</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	21 <i>1.23</i>	
Anotia/microtia	5 <i>0.56</i>	5 <i>0.66</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>18.83</i>	0 <i>0.00</i>	12 <i>0.71</i>	
Aortic valve stenosis	5 <i>0.56</i>	1 <i>0.13</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	6 <i>0.35</i>	
Atrial septal defect	188 <i>21.09</i>	281 <i>37.28</i>	4 <i>13.45</i>	5 <i>30.34</i>	2 <i>18.83</i>	1 <i>0.00</i>	481 <i>28.26</i>	
Biliary atresia	4 <i>0.45</i>	8 <i>1.06</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	12 <i>0.71</i>	
Bladder exstrophy	2 <i>0.22</i>	2 <i>0.27</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	4 <i>0.24</i>	
Choanal atresia	5 <i>0.56</i>	5 <i>0.66</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	10 <i>0.59</i>	
Cleft lip with and without cleft palate	67 <i>7.52</i>	57 <i>7.56</i>	0 <i>0.00</i>	1 <i>6.07</i>	2 <i>18.83</i>	0 <i>0.00</i>	127 <i>7.46</i>	
Cleft palate without cleft lip	59 <i>6.62</i>	33 <i>4.38</i>	2 <i>6.72</i>	0 <i>0.00</i>	4 <i>37.66</i>	2 <i>0.00</i>	100 <i>5.88</i>	
Coarctation of aorta	25 <i>2.80</i>	28 <i>3.72</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>9.42</i>	2 <i>0.00</i>	56 <i>3.29</i>	
Common truncus	6 <i>0.67</i>	6 <i>0.80</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	12 <i>0.71</i>	
Congenital cataract	12 <i>1.35</i>	8 <i>1.06</i>	0 <i>0.00</i>	1 <i>6.07</i>	0 <i>0.00</i>	0 <i>0.00</i>	21 <i>1.23</i>	
Congenital hip dislocation	48 <i>5.39</i>	19 <i>2.52</i>	1 <i>3.36</i>	3 <i>18.20</i>	1 <i>9.42</i>	1 <i>0.00</i>	73 <i>4.29</i>	
Diaphragmatic hernia	15 <i>1.68</i>	30 <i>3.98</i>	2 <i>6.72</i>	0 <i>0.00</i>	1 <i>9.42</i>	1 <i>0.00</i>	49 <i>2.88</i>	
Down syndrome (Trisomy 21)	81 <i>9.09</i>	56 <i>7.43</i>	1 <i>3.36</i>	4 <i>24.27</i>	1 <i>9.42</i>	3 <i>0.00</i>	146 <i>8.58</i>	
Ebstein anomaly	3 <i>0.34</i>	3 <i>0.40</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	6 <i>0.35</i>	
Encephalocele	9 <i>1.01</i>	7 <i>0.93</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	16 <i>0.94</i>	
Endocardial cushion defect	18 <i>2.02</i>	23 <i>3.05</i>	0 <i>0.00</i>	2 <i>12.14</i>	0 <i>0.00</i>	1 <i>0.00</i>	44 <i>2.59</i>	
Esophageal atresia/ tracheoesophageal fistula	12 <i>1.35</i>	18 <i>2.39</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	30 <i>1.76</i>	
Fetus or newborn affected by maternal alcohol use	5 <i>0.56</i>	5 <i>0.66</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>18.83</i>	0 <i>0.00</i>	12 <i>0.71</i>	
Hirschsprung disease (congenital megacolon)	13 <i>1.46</i>	21 <i>2.79</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	35 <i>2.06</i>	
Hydrocephalus without Spina Bifida	44 <i>4.94</i>	72 <i>9.55</i>	1 <i>3.36</i>	0 <i>0.00</i>	1 <i>9.42</i>	1 <i>0.00</i>	119 <i>6.99</i>	
Hypoplastic left heart syndrome	16 <i>1.80</i>	17 <i>2.26</i>	1 <i>3.36</i>	1 <i>6.07</i>	1 <i>9.42</i>	3 <i>0.00</i>	39 <i>2.29</i>	
Hypospadias and Epispadias	161 <i>18.06</i>	134 <i>17.78</i>	0 <i>0.00</i>	0 <i>0.00</i>	3 <i>28.25</i>	2 <i>0.00</i>	300 <i>17.63</i>	
Microcephalus	45 <i>5.05</i>	92 <i>12.21</i>	1 <i>3.36</i>	2 <i>12.14</i>	3 <i>28.25</i>	3 <i>0.00</i>	146 <i>8.58</i>	
Obstructive genitourinary defect	115 <i>12.90</i>	82 <i>10.88</i>	0 <i>0.00</i>	1 <i>6.07</i>	2 <i>18.83</i>	3 <i>0.00</i>	203 <i>11.93</i>	
Patent ductus arteriosus	145 <i>16.27</i>	165 <i>21.89</i>	5 <i>16.81</i>	0 <i>0.00</i>	2 <i>18.83</i>	0 <i>0.00</i>	317 <i>18.63</i>	+
Pulmonary valve atresia and stenosis	38 <i>4.26</i>	66 <i>8.76</i>	0 <i>0.00</i>	1 <i>6.07</i>	1 <i>9.42</i>	1 <i>0.00</i>	107 <i>6.29</i>	

Mississippi

Birth Defects Counts and Rates 2000-2003

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Pyloric stenosis	159 17.84	42 5.57	1 3.36	0 0.00	1 9.42	1	204 11.99	
Rectal and large intestinal atresia/stenosis	18 2.02	21 2.79	0 0.00	0 0.00	0 0.00	1	40 2.35	
Reduction deformity, lower limbs	5 0.56	11 1.46	0 0.00	0 0.00	0 0.00	1	17 1.00	
Reduction deformity, upper limbs	14 1.57	15 1.99	0 0.00	0 0.00	1 9.42	1	31 1.82	
Renal agenesis/hypoplasia	29 3.25	28 3.72	0 0.00	0 0.00	0 0.00	1	58 3.41	
Spina bifida without anencephalus	33 3.70	26 3.45	2 6.72	0 0.00	1 9.42	1	63 3.70	
Tetralogy of Fallot	25 2.80	26 3.45	0 0.00	0 0.00	0 0.00	1	52 3.06	
Transposition of great arteries	38 4.26	30 3.98	0 0.00	0 0.00	1 9.42	1	70 4.11	
Tricuspid valve atresia and stenosis	2 0.22	7 0.93	0 0.00	0 0.00	0 0.00	0	9 0.53	
Trisomy 13 (Patau syndrome)	3 0.34	8 1.06	0 0.00	0 0.00	0 0.00	0	11 0.65	
Trisomy 18 (Edwards syndrome)	8 0.90	12 1.59	0 0.00	0 0.00	0 0.00	0	20 1.18	
Ventricular septal defect	257 28.83	243 32.24	2 6.72	8 48.54	6 56.50	6	522 30.67	+
Total Live Births	89129	75366	2974	1648	1062		170184	

Mississippi

Trisomy Counts and Rates by Maternal Age 2000-2003

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total (**)
Down syndrome (Trisomy 21)	100 6.35	46 36.38	146 8.58
Trisomy 13 (Patau syndrome)	10 0.63	1 0.79	11 0.65
Trisomy 18 (Edwards syndrome)	11 0.70	9 7.12	20 1.18
Total Live Births	157516	12644	170184

(**) Total includes unknown age

(+)Notes:

- 1: 2000-2003, Anencephalus, Only live births are included in this entire report.
- 2: 2000-2003, Ventricular septal defect, MSDH does not indicate probable causes.
- 3: 2000-2003, Patent ductus arteriosus, Only cases with > 2500g Birth Weights are included.

Montana
Birth Defects Counts and Rates 2004
(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Anencephalus	1 <i>1.06</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.87</i>	+
Aniridia	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	
Anophthalmia/ microphthalmia	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	
Anotia/microtia	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	1 <i>0.87</i>	
Aortic valve stenosis	1 <i>1.06</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.87</i>	
Atrial septal defect	12 <i>12.73</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	4 <i>26.81</i>	30 <i>0.00</i>	46 <i>39.95</i>	
Biliary atresia	1 <i>1.06</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.87</i>	
Bladder exstrophy	1 <i>1.06</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.87</i>	
Choanal atresia	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>0.00</i>	2 <i>1.74</i>	
Cleft lip with and without cleft palate	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	
Cleft palate without cleft lip	3 <i>3.18</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>6.70</i>	1 <i>0.00</i>	5 <i>4.34</i>	
Coarctation of aorta	1 <i>1.06</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	3 <i>0.00</i>	4 <i>3.47</i>	
Common truncus	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	
Congenital cataract	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>6.70</i>	0 <i>0.00</i>	1 <i>0.87</i>	
Congenital hip dislocation	2 <i>2.12</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	4 <i>0.00</i>	6 <i>5.21</i>	
Diaphragmatic hernia	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	
Down syndrome (Trisomy 21)	4 <i>4.24</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	5 <i>0.00</i>	9 <i>7.82</i>	
Ebstein anomaly	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>6.70</i>	0 <i>0.00</i>	1 <i>0.87</i>	
Encephalocele	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	1 <i>0.87</i>	
Endocardial cushion defect	2 <i>2.12</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>0.00</i>	4 <i>3.47</i>	
Esophageal atresia/ tracheoesophageal fistula	1 <i>1.06</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.87</i>	
Gastroschisis	1 <i>1.06</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>6.70</i>	1 <i>0.00</i>	3 <i>2.61</i>	+
Hirschsprung disease (congenital megacolon)	1 <i>1.06</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	3 <i>0.00</i>	4 <i>3.47</i>	
Hydrocephalus without Spina Bifida	1 <i>1.06</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.87</i>	
Hypoplastic left heart syndrome	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	
Hypospadias and Epispadias	1 <i>1.06</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>6.70</i>	13 <i>0.00</i>	15 <i>13.03</i>	
Microcephalus	5 <i>5.31</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	4 <i>0.00</i>	9 <i>7.82</i>	
Obstructive genitourinary defect	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	1 <i>0.87</i>	
Omphalocele	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	+
Patent ductus arteriosus	14 <i>14.86</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>6.70</i>	46 <i>0.00</i>	61 <i>52.98</i>	

Montana

Birth Defects Counts and Rates 2004

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Pulmonary valve atresia and stenosis	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	4	4	
Pyloric stenosis	1 <i>1.06</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>6.70</i>	14	16	
Rectal and large intestinal atresia/stenosis	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1	1	
Reduction deformity, lower limbs	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	0	
Reduction deformity, upper limbs	4 <i>4.24</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1	5	
Renal agenesis/hypoplasia	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>6.70</i>	2	3	
Spina bifida without anencephalus	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	0	
Tetralogy of Fallot	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	3	3	
Transposition of great arteries	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>6.70</i>	0	1	
Tricuspid valve atresia and stenosis	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	0	
Trisomy 13 (Patau syndrome)	1 <i>1.06</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	1	
Trisomy 18 (Edwards syndrome)	1 <i>1.06</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1	2	
Ventricular septal defect	16 <i>16.98</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	3 <i>20.11</i>	34	53	+
Total Live Births	9424	48	372	93	1492		11514	

Montana

Trisomy Counts and Rates by Maternal Age 2004

(Rates per 10,000 Live Births)

Defect	Age		Total (**)
	<35	35 and >	
Down syndrome (Trisomy 21)	2 <i>1.97</i>	5 <i>37.68</i>	9 <i>7.82</i>
Trisomy 13 (Patau syndrome)	1 <i>0.98</i>	0 <i>0.00</i>	1 <i>0.87</i>
Trisomy 18 (Edwards syndrome)	1 <i>0.98</i>	1 <i>7.54</i>	2 <i>1.74</i>
Total Live Births	10157	1327	11514

(**) Total includes unknown age

(+)Notes:

- 1: 2004, Anencephalus, One live birth died DOB
- 2: 2004, Ventricular septal defect, No probable cause
- 3: 2004, Gastroschisis, Medical chart reviews
- 4: 2004, Omphalocele, Medical chart reviews

New Hampshire Birth Defects Counts and Rates 2003-2004

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Amniotic bands	1 <i>0.38</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	2 <i>0.69</i>	
Anencephalus	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	
Aniridia	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	1 <i>0.35</i>	
Anophthalmia/ microphthalmia	1 <i>0.38</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.35</i>	
Anotia/microtia	2 <i>0.76</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>0.00</i>	4 <i>1.38</i>	
Aortic valve stenosis	3 <i>1.14</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	7 <i>0.00</i>	10 <i>3.45</i>	
Atrial septal defect	8 <i>3.04</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	15 <i>0.00</i>	23 <i>7.95</i>	
Biliary atresia	1 <i>0.38</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.35</i>	
Bladder exstrophy	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	
Choanal atresia	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	
Cleft lip with and without cleft palate	7 <i>2.66</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	12 <i>0.00</i>	19 <i>6.56</i>	
Cleft palate without cleft lip	9 <i>3.42</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	14 <i>0.00</i>	23 <i>7.95</i>	
Coarctation of aorta	4 <i>1.52</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	6 <i>0.00</i>	10 <i>3.45</i>	
Common truncus	1 <i>0.38</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>0.00</i>	3 <i>1.04</i>	
Congenital cataract	1 <i>0.38</i>	1 <i>27.78</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	3 <i>1.04</i>	
Congenital hip dislocation	10 <i>3.80</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	6 <i>0.00</i>	16 <i>5.53</i>	
Diaphragmatic hernia	1 <i>0.38</i>	1 <i>27.78</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	3 <i>1.04</i>	
Down syndrome (Trisomy 21)	18 <i>6.84</i>	1 <i>27.78</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	22 <i>0.00</i>	41 <i>14.16</i>	
Ebstein anomaly	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>0.00</i>	2 <i>0.69</i>	
Encephalocele	2 <i>0.76</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>0.69</i>	
Endocardial cushion defect	4 <i>1.52</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	7 <i>0.00</i>	11 <i>3.80</i>	
Esophageal atresia/ tracheoesophageal fistula	3 <i>1.14</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	4 <i>1.38</i>	
Fetus or newborn affected by maternal alcohol use	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	
Gastroschisis	1 <i>0.38</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	4 <i>0.00</i>	5 <i>1.73</i>	+
Hirschsprung disease (congenital megacolon)	1 <i>0.38</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.35</i>	
Hydrocephalus without Spina Bifida	4 <i>1.52</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	5 <i>1.73</i>	
Hypoplastic left heart syndrome	2 <i>0.76</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	6 <i>0.00</i>	8 <i>2.76</i>	
Hypospadias and Epispadias	48 <i>18.24</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>10.78</i>	0 <i>0.00</i>	36 <i>0.00</i>	85 <i>29.36</i>	
Microcephalus	8 <i>3.04</i>	1 <i>27.78</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	6 <i>0.00</i>	15 <i>5.18</i>	
Obstructive genitourinary defect	11 <i>4.18</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	10 <i>0.00</i>	21 <i>7.25</i>	

New Hampshire

Birth Defects Counts and Rates 2003-2004

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Omphalocele	2 0.76	0 0.00	0 0.00	0 0.00	0 0.00	2 0.00	4 1.38	+
Patent ductus arteriosus	6 2.28	1 27.78	0 0.00	1 10.78	0 0.00	14 0.00	22 7.60	
Pulmonary valve atresia and stenosis	7 2.66	0 0.00	0 0.00	0 0.00	0 0.00	20 0.00	27 9.33	
Pyloric stenosis	14 5.32	0 0.00	0 0.00	0 0.00	1 138.89	25 0.00	40 13.82	
Rectal and large intestinal atresia/stenosis	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	3 0.00	3 1.04	
Reduction deformity, lower limbs	1 0.38	0 0.00	0 0.00	0 0.00	0 0.00	2 0.00	3 1.04	
Reduction deformity, upper limbs	1 0.38	0 0.00	0 0.00	0 0.00	0 0.00	1 0.00	2 0.69	
Renal agenesis/hypoplasia	4 1.52	0 0.00	0 0.00	1 10.78	0 0.00	9 0.00	14 4.84	
Spina bifida without anencephalus	3 1.14	0 0.00	0 0.00	0 0.00	0 0.00	2 0.00	5 1.73	
Tetralogy of Fallot	5 1.90	0 0.00	0 0.00	0 0.00	0 0.00	9 0.00	15 5.18	
Transposition of great arteries	1 0.38	0 0.00	0 0.00	1 10.78	0 0.00	2 0.00	4 1.38	
Tricuspid valve atresia and stenosis	1 0.38	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	1 0.35	
Trisomy 13 (Patau syndrome)	2 0.76	0 0.00	0 0.00	0 0.00	0 0.00	2 0.00	4 1.38	
Trisomy 18 (Edwards syndrome)	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	2 0.00	2 0.69	
Ventricular septal defect	29 11.02	0 0.00	0 0.00	1 10.78	0 0.00	44 0.00	74 25.56	
Total Live Births	26,319	360	1,063	928	72		28,948	+

New Hampshire

Trisomy Counts and Rates by Maternal Age 2003-2004

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total (**)
Down syndrome (Trisomy 21)	2 0.84	2 3.79	4 1.38
Trisomy 13 (Patau syndrome)	19 8.03	10 18.96	50 17.27
Trisomy 18 (Edwards syndrome)	1 0.42	1 1.90	2 0.69
Total Live Births	23,674	5,274	28,948

(**) Total includes unknown age

(+)Notes:

1: Data for all birth defects includes calendar years 2003 and 2004 only. Data is for confirmed cases only, following medical chart review and use of the NBDPN Guidelines. Data includes only live births from birth to age 1 year. Caution is advised in using data stratified by race as this field is often not available or inaccurate from medical chart review. Data for live births was obtained from the New Hampshire Department of Health and Human Services, Health Statistics and Data Management Section and is based on data directly from the State's birth certificate reports. * Due to a change in the birth certificate reporting system in mid-2004 estimates of race were not considered reliable and thus not available to the NH BCP. Therefore estimates of race were calculated for 2004 based on the proportion of each category that was reported in 2003. It is expected that very little change in these proportions occurred from 2003 to 2004.

NH birth data represents births to NH residents, regardless of which state the birth occurred in. Non-resident births occurring in NH are excluded. For gastroschisis and omphalocele, cases are distinguished using active medical chart review.

New Jersey
Birth Defects Counts and Rates 2000-2004
(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Amniotic bands	16 <i>0.53</i>	7 <i>0.79</i>	7 <i>0.57</i>	4 <i>0.83</i>	0 <i>0.00</i>	0 <i>0.00</i>	34 <i>0.59</i>	
Anencephalus	6 <i>0.20</i>	3 <i>0.34</i>	13 <i>1.06</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	23 <i>0.40</i>	
Aniridia	2 <i>0.07</i>	1 <i>0.11</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	3 <i>0.05</i>	
Anophthalmia/ microphthalmia	26 <i>0.87</i>	10 <i>1.13</i>	11 <i>0.90</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	47 <i>0.81</i>	
Anotia/microtia	40 <i>1.34</i>	3 <i>0.34</i>	51 <i>4.16</i>	10 <i>2.08</i>	0 <i>0.00</i>	1 <i>0.00</i>	105 <i>1.82</i>	
Aortic valve stenosis	40 <i>1.34</i>	7 <i>0.79</i>	9 <i>0.73</i>	3 <i>0.62</i>	0 <i>0.00</i>	1 <i>0.00</i>	60 <i>1.04</i>	
Atrial septal defect	3490 <i>116.51</i>	1480 <i>167.42</i>	1273 <i>103.96</i>	416 <i>86.56</i>	12 <i>186.34</i>	54 <i>0.00</i>	6725 <i>116.51</i>	
Biliary atresia	10 <i>0.33</i>	1 <i>0.11</i>	2 <i>0.16</i>	3 <i>0.62</i>	0 <i>0.00</i>	1 <i>0.00</i>	17 <i>0.29</i>	
Bladder exstrophy	9 <i>0.30</i>	1 <i>0.11</i>	2 <i>0.16</i>	1 <i>0.21</i>	0 <i>0.00</i>	0 <i>0.00</i>	13 <i>0.23</i>	
Choanal atresia	57 <i>1.90</i>	11 <i>1.24</i>	10 <i>0.82</i>	3 <i>0.62</i>	0 <i>0.00</i>	0 <i>0.00</i>	81 <i>1.40</i>	
Cleft lip with and without cleft palate	221 <i>7.38</i>	44 <i>4.98</i>	106 <i>8.66</i>	33 <i>6.87</i>	0 <i>0.00</i>	5 <i>0.00</i>	409 <i>7.09</i>	
Cleft palate without cleft lip	173 <i>5.78</i>	36 <i>4.07</i>	66 <i>5.39</i>	27 <i>5.62</i>	1 <i>15.53</i>	4 <i>0.00</i>	307 <i>5.32</i>	
Coarctation of aorta	107 <i>3.57</i>	29 <i>3.28</i>	28 <i>2.29</i>	6 <i>1.25</i>	1 <i>15.53</i>	2 <i>0.00</i>	173 <i>3.00</i>	
Common truncus	18 <i>0.60</i>	1 <i>0.11</i>	7 <i>0.57</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	26 <i>0.45</i>	
Congenital cataract	47 <i>1.57</i>	20 <i>2.26</i>	20 <i>1.63</i>	4 <i>0.83</i>	0 <i>0.00</i>	1 <i>0.00</i>	92 <i>1.59</i>	
Congenital hip dislocation	281 <i>9.38</i>	24 <i>2.71</i>	88 <i>7.19</i>	28 <i>5.83</i>	0 <i>0.00</i>	3 <i>0.00</i>	424 <i>7.35</i>	
Diaphragmatic hernia	44 <i>1.47</i>	19 <i>2.15</i>	25 <i>2.04</i>	14 <i>2.91</i>	0 <i>0.00</i>	3 <i>0.00</i>	105 <i>1.82</i>	
Down syndrome (Trisomy 21)	378 <i>12.62</i>	102 <i>11.54</i>	164 <i>13.39</i>	42 <i>8.74</i>	1 <i>15.53</i>	12 <i>0.00</i>	699 <i>12.11</i>	
Ebstein anomaly	15 <i>0.50</i>	3 <i>0.34</i>	8 <i>0.65</i>	3 <i>0.62</i>	0 <i>0.00</i>	0 <i>0.00</i>	29 <i>0.50</i>	
Encephalocele	18 <i>0.60</i>	7 <i>0.79</i>	12 <i>0.98</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	37 <i>0.64</i>	
Endocardial cushion defect	68 <i>2.27</i>	36 <i>4.07</i>	42 <i>3.43</i>	7 <i>1.46</i>	0 <i>0.00</i>	4 <i>0.00</i>	157 <i>2.72</i>	
Esophageal atresia/ tracheoesophageal fistula	93 <i>3.10</i>	16 <i>1.81</i>	30 <i>2.45</i>	5 <i>1.04</i>	0 <i>0.00</i>	1 <i>0.00</i>	145 <i>2.51</i>	
Fetus or newborn affected by maternal alcohol use	9 <i>0.30</i>	9 <i>1.02</i>	1 <i>0.08</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	19 <i>0.33</i>	
Gastroschisis	57 <i>1.90</i>	26 <i>2.94</i>	33 <i>2.69</i>	4 <i>0.83</i>	0 <i>0.00</i>	4 <i>0.00</i>	124 <i>2.15</i>	+
Hirschsprung disease (congenital megacolon)	53 <i>1.77</i>	26 <i>2.94</i>	11 <i>0.90</i>	12 <i>2.50</i>	0 <i>0.00</i>	2 <i>0.00</i>	104 <i>1.80</i>	
Hydrocephalus without Spina Bifida	92 <i>3.07</i>	60 <i>6.79</i>	50 <i>4.08</i>	14 <i>2.91</i>	0 <i>0.00</i>	7 <i>0.00</i>	223 <i>3.86</i>	
Hypoplastic left heart syndrome	44 <i>1.47</i>	26 <i>2.94</i>	25 <i>2.04</i>	5 <i>1.04</i>	0 <i>0.00</i>	3 <i>0.00</i>	103 <i>1.78</i>	
Hypospadias and Epispadias	1482 <i>49.48</i>	307 <i>34.73</i>	292 <i>23.85</i>	139 <i>28.92</i>	5 <i>77.64</i>	30 <i>0.00</i>	2255 <i>39.07</i>	
Microcephalus	90 <i>3.00</i>	63 <i>7.13</i>	62 <i>5.06</i>	19 <i>3.95</i>	1 <i>15.53</i>	5 <i>0.00</i>	240 <i>4.16</i>	
Obstructive genitourinary defect	988 <i>32.98</i>	161 <i>18.21</i>	319 <i>26.05</i>	143 <i>29.76</i>	2 <i>31.06</i>	12 <i>0.00</i>	1625 <i>28.15</i>	

New Jersey

Birth Defects Counts and Rates 2000-2004

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Omphalocele	27 0.90	13 1.47	11 0.90	1 0.21	0 0.00	1 0.00	53 0.92	+
Patent ductus arteriosus	2201 73.48	719 81.33	733 59.86	261 54.31	4 62.11	18 68.19	3936 68.19	+
Pulmonary valve atresia and stenosis	439 14.66	258 29.19	172 14.05	40 8.32	2 31.06	7 15.90	918 15.90	
Pyloric stenosis	645 21.53	121 13.69	311 25.40	26 5.41	2 31.06	9 19.30	1114 19.30	
Rectal and large intestinal atresia/stenosis	106 3.54	28 3.17	40 3.27	16 3.33	0 0.00	0 3.29	190 3.29	
Reduction deformity, lower limbs	42 1.40	18 2.04	24 1.96	5 1.04	0 0.00	0 1.54	89 1.54	
Reduction deformity, upper limbs	73 2.44	25 2.83	50 4.08	11 2.29	0 0.00	3 2.81	162 2.81	
Renal agenesis/hypoplasia	113 3.77	27 3.05	45 3.67	17 3.54	1 15.53	2 3.55	205 3.55	
Spina bifida without anencephalus	45 1.50	21 2.38	37 3.02	4 0.83	0 0.00	1 1.87	108 1.87	
Tetralogy of Fallot	124 4.14	47 5.32	51 4.16	22 4.58	0 0.00	2 4.26	246 4.26	
Transposition of great arteries	117 3.91	32 3.62	44 3.59	16 3.33	0 0.00	6 3.72	215 3.72	
Tricuspid valve atresia and stenosis	26 0.87	16 1.81	10 0.82	1 0.21	0 0.00	0 0.92	53 0.92	
Trisomy 13 (Patau syndrome)	22 0.73	6 0.68	8 0.65	1 0.21	0 0.00	0 0.64	37 0.64	
Trisomy 18 (Edwards syndrome)	27 0.90	11 1.24	15 1.22	5 1.04	0 0.00	0 1.00	58 1.00	
Ventricular septal defect	1932 64.50	449 50.79	717 58.55	219 45.57	3 46.58	23 57.92	3343 57.92	+
Total Live Births	299542	88401	122456	48057	644	577219		

New Jersey

Trisomy Counts and Rates by Maternal Age 2000-2004

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total (**)
Down syndrome (Trisomy 21)	336 7.39	342 27.93	699 12.11
Trisomy 13 (Patau syndrome)	24 0.53	13 1.06	37 0.64
Trisomy 18 (Edwards syndrome)	31 0.68	27 2.21	58 1.00
Total Live Births	454694	122447	577219

(**) Total includes unknown age

(+)Notes:

- 1: 2000, Ventricular septal defect, Probable cause NOT included
- 2: 2000, Patent ductus arteriosus, Excluded if LT 2500gms
- 3: 2000, Gastroschisis, ICD-9 =756.79
- 4: 2000, Omphalocele, ICD-9 =756.78

New York
Birth Defects Counts and Rates 2000-2004
(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Amniotic bands	15 <i>0.23</i>	6 <i>0.27</i>	5 <i>0.18</i>	1 <i>0.10</i>	0 <i>0.00</i>	0 <i>0.00</i>	27 <i>0.21</i>	
Anencephalus	37 <i>0.57</i>	9 <i>0.40</i>	8 <i>0.29</i>	4 <i>0.42</i>	0 <i>0.00</i>	1 <i>0.00</i>	59 <i>0.47</i>	
Aniridia	1 <i>0.02</i>	0 <i>0.00</i>	4 <i>0.15</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	5 <i>0.04</i>	
Anophthalmia/ microphthalmia	38 <i>0.58</i>	17 <i>0.76</i>	20 <i>0.73</i>	4 <i>0.42</i>	0 <i>0.00</i>	1 <i>0.00</i>	80 <i>0.63</i>	
Anotia/microtia	40 <i>0.61</i>	5 <i>0.22</i>	22 <i>0.80</i>	6 <i>0.63</i>	2 <i>6.58</i>	1 <i>0.00</i>	76 <i>0.60</i>	
Aortic valve stenosis	140 <i>2.14</i>	25 <i>1.11</i>	25 <i>0.91</i>	7 <i>0.73</i>	0 <i>0.00</i>	3 <i>0.00</i>	200 <i>1.58</i>	
Atrial septal defect	1777 <i>27.17</i>	1321 <i>58.82</i>	890 <i>32.56</i>	342 <i>35.67</i>	9 <i>29.62</i>	42 <i>0.00</i>	4381 <i>34.72</i>	
Biliary atresia	50 <i>0.76</i>	24 <i>1.07</i>	23 <i>0.84</i>	17 <i>1.77</i>	1 <i>3.29</i>	1 <i>0.00</i>	116 <i>0.92</i>	
Bladder exstrophy	17 <i>0.26</i>	1 <i>0.04</i>	3 <i>0.11</i>	2 <i>0.21</i>	0 <i>0.00</i>	0 <i>0.00</i>	23 <i>0.18</i>	
Choanal atresia	113 <i>1.73</i>	25 <i>1.11</i>	33 <i>1.21</i>	7 <i>0.73</i>	0 <i>0.00</i>	4 <i>0.00</i>	182 <i>1.44</i>	
Cleft lip with and without cleft palate	509 <i>7.78</i>	103 <i>4.59</i>	195 <i>7.13</i>	55 <i>5.74</i>	5 <i>16.45</i>	8 <i>0.00</i>	875 <i>6.93</i>	
Cleft palate without cleft lip	427 <i>6.53</i>	87 <i>3.87</i>	149 <i>5.45</i>	52 <i>5.42</i>	2 <i>6.58</i>	7 <i>0.00</i>	724 <i>5.74</i>	
Coarctation of aorta	316 <i>4.83</i>	94 <i>4.19</i>	96 <i>3.51</i>	30 <i>3.13</i>	3 <i>9.87</i>	8 <i>0.00</i>	547 <i>4.33</i>	
Common truncus	28 <i>0.43</i>	20 <i>0.89</i>	17 <i>0.62</i>	6 <i>0.63</i>	0 <i>0.00</i>	0 <i>0.00</i>	71 <i>0.56</i>	
Congenital cataract	58 <i>0.89</i>	23 <i>1.02</i>	18 <i>0.66</i>	7 <i>0.73</i>	1 <i>3.29</i>	0 <i>0.00</i>	107 <i>0.85</i>	
Congenital hip dislocation	736 <i>11.25</i>	116 <i>5.17</i>	299 <i>10.94</i>	93 <i>9.70</i>	2 <i>6.58</i>	8 <i>0.00</i>	1254 <i>9.94</i>	
Diaphragmatic hernia	95 <i>1.45</i>	24 <i>1.07</i>	34 <i>1.24</i>	10 <i>1.04</i>	1 <i>3.29</i>	2 <i>0.00</i>	166 <i>1.32</i>	
Down syndrome (Trisomy 21)	787 <i>12.03</i>	262 <i>11.67</i>	314 <i>11.49</i>	89 <i>9.28</i>	2 <i>6.58</i>	26 <i>0.00</i>	1480 <i>11.73</i>	
Ebstein anomaly	37 <i>0.57</i>	10 <i>0.45</i>	21 <i>0.77</i>	11 <i>1.15</i>	1 <i>3.29</i>	0 <i>0.00</i>	80 <i>0.63</i>	
Encephalocele	37 <i>0.57</i>	19 <i>0.85</i>	25 <i>0.91</i>	3 <i>0.31</i>	1 <i>3.29</i>	0 <i>0.00</i>	85 <i>0.67</i>	
Endocardial cushion defect	167 <i>2.55</i>	76 <i>3.38</i>	54 <i>1.98</i>	14 <i>1.46</i>	0 <i>0.00</i>	6 <i>0.00</i>	317 <i>2.51</i>	
Esophageal atresia/ tracheoesophageal fistula	188 <i>2.87</i>	38 <i>1.69</i>	45 <i>1.65</i>	12 <i>1.25</i>	0 <i>0.00</i>	0 <i>0.00</i>	283 <i>2.24</i>	
Fetus or newborn affected by maternal alcohol use	21 <i>0.32</i>	43 <i>1.91</i>	8 <i>0.29</i>	0 <i>0.00</i>	0 <i>0.00</i>	3 <i>0.00</i>	75 <i>0.59</i>	
Gastroschisis	106 <i>1.62</i>	34 <i>1.51</i>	55 <i>2.01</i>	4 <i>0.42</i>	2 <i>6.58</i>	2 <i>0.00</i>	203 <i>1.61</i>	
Hirschsprung disease (congenital megacolon)	152 <i>2.32</i>	62 <i>2.76</i>	54 <i>1.98</i>	15 <i>1.56</i>	0 <i>0.00</i>	3 <i>0.00</i>	286 <i>2.27</i>	
Hydrocephalus without Spina Bifida	389 <i>5.95</i>	260 <i>11.58</i>	219 <i>8.01</i>	56 <i>5.84</i>	0 <i>0.00</i>	8 <i>0.00</i>	932 <i>7.39</i>	
Hypoplastic left heart syndrome	143 <i>2.19</i>	60 <i>2.67</i>	66 <i>2.41</i>	9 <i>0.94</i>	0 <i>0.00</i>	2 <i>0.00</i>	280 <i>2.22</i>	
Hypospadias and Epispadias	2853 <i>43.62</i>	793 <i>35.31</i>	606 <i>22.17</i>	227 <i>23.67</i>	10 <i>32.91</i>	30 <i>0.00</i>	4519 <i>35.81</i>	
Microcephalus	208 <i>3.18</i>	187 <i>8.33</i>	155 <i>5.67</i>	41 <i>4.28</i>	1 <i>3.29</i>	3 <i>0.00</i>	595 <i>4.71</i>	
Obstructive genitourinary defect	2142 <i>32.75</i>	520 <i>23.15</i>	856 <i>31.32</i>	295 <i>30.77</i>	9 <i>29.62</i>	17 <i>0.00</i>	3839 <i>30.42</i>	

New York

Birth Defects Counts and Rates 2000-2004

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Omphalocele	78 1.19	42 1.87	31 1.13	5 0.52	1 3.29	3 1.27	160	
Patent ductus arteriosus	1003 15.34	629 28.01	325 11.89	133 13.87	8 26.32	20 16.78	2118	
Pulmonary valve atresia and stenosis	542 8.29	277 12.33	214 7.83	64 6.67	4 13.16	15 8.84	1116	
Pyloric stenosis	1215 18.58	204 9.08	533 19.50	80 8.34	12 39.49	11 16.28	2055	
Rectal and large intestinal atresia/stenosis	269 4.11	79 3.52	122 4.46	43 4.48	2 6.58	3 4.10	518	
Reduction deformity, lower limbs	67 1.02	28 1.25	26 0.95	5 0.52	1 3.29	0 1.01	127	
Reduction deformity, upper limbs	110 1.68	34 1.51	44 1.61	11 1.15	1 3.29	3 1.61	203	
Renal agenesis/hypoplasia	234 3.58	67 2.98	70 2.56	20 2.09	1 3.29	1 3.11	393	
Spina bifida without anencephalus	121 1.85	52 2.32	71 2.60	14 1.46	0 0.00	4 2.08	262	
Tetralogy of Fallot	289 4.42	98 4.36	101 3.70	59 6.15	2 6.58	7 4.41	556	
Transposition of great arteries	281 4.30	85 3.78	98 3.59	40 4.17	1 3.29	5 4.04	510	
Tricuspid valve atresia and stenosis	44 0.67	37 1.65	19 0.70	5 0.52	1 3.29	1 0.85	107	
Trisomy 13 (Patau syndrome)	39 0.60	27 1.20	20 0.73	7 0.73	0 0.00	1 0.74	94	
Trisomy 18 (Edwards syndrome)	55 0.84	45 2.00	24 0.88	7 0.73	0 0.00	1 1.05	132	
Ventricular septal defect	2420 37.00	803 35.75	937 34.28	330 34.42	8 26.32	37 35.94	4535	
Total Live Births	654042	224585	273338	95882	3039	1261935		

New York

Trisomy Counts and Rates by Maternal Age 2000-2004

(Rates per 10,000 Live Births)

Defect	Age		Total (**)
	<35	35 and >	
Down syndrome (Trisomy 21)	710 7.00	770 31.20	1480 11.73
Trisomy 13 (Patau syndrome)	59 0.58	35 1.42	94 0.74
Trisomy 18 (Edwards syndrome)	65 0.64	67 2.71	132 1.05
Total Live Births	1014830	246818	1261935

(**) Total includes unknown age

Notes:

1: There was a significant improvement in case ascertainment in New York State in 2003 and 2004 when compared to 2000-2002. The implementation of a new web-based hospital reporting and communication system and an increase in the number of on-site hospital audits conducted by Registry staff resulted in the timelier and more complete submission of case reports for these years.

North Carolina
Birth Defects Counts and Rates 2000-2004
(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Amniotic bands	11 <i>0.78</i>	10 <i>1.84</i>	9 <i>2.72</i>	0 <i>0.00</i>	1 <i>3.12</i>	0	31 <i>1.30</i>	+
Anencephalus	45 <i>1.26</i>	15 <i>1.08</i>	27 <i>3.60</i>	1 <i>0.68</i>	1 <i>1.21</i>	10	99 <i>1.67</i>	
Aniridia	24 <i>0.67</i>	14 <i>1.01</i>	8 <i>1.07</i>	3 <i>2.03</i>	1 <i>1.21</i>	0	50 <i>0.84</i>	
Anophthalmia/ microphthalmia	47 <i>1.32</i>	26 <i>1.87</i>	12 <i>1.60</i>	1 <i>0.68</i>	3 <i>3.62</i>	0	89 <i>1.50</i>	
Anotia/microtia	30 <i>0.84</i>	10 <i>0.72</i>	17 <i>2.27</i>	1 <i>0.68</i>	2 <i>2.42</i>	0	60 <i>1.01</i>	
Aortic valve stenosis	92 <i>2.59</i>	17 <i>1.22</i>	16 <i>2.13</i>	0 <i>0.00</i>	1 <i>1.21</i>	0	126 <i>2.12</i>	
Atrial septal defect	1641 <i>46.11</i>	957 <i>68.76</i>	382 <i>50.96</i>	59 <i>39.92</i>	55 <i>66.43</i>	3	3097 <i>52.16</i>	
Biliary atresia	66 <i>1.85</i>	40 <i>2.87</i>	10 <i>1.33</i>	5 <i>3.38</i>	1 <i>1.21</i>	0	122 <i>2.05</i>	
Bladder exstrophy	23 <i>0.65</i>	3 <i>0.22</i>	1 <i>0.13</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	27 <i>0.45</i>	
Choanal atresia	72 <i>2.02</i>	27 <i>1.94</i>	15 <i>2.00</i>	1 <i>0.68</i>	1 <i>1.21</i>	0	116 <i>1.95</i>	
Cleft lip with and without cleft palate	386 <i>10.85</i>	80 <i>5.75</i>	70 <i>9.34</i>	7 <i>4.74</i>	10 <i>12.08</i>	4	557 <i>9.38</i>	
Cleft palate without cleft lip	224 <i>6.29</i>	57 <i>4.10</i>	38 <i>5.07</i>	3 <i>2.03</i>	5 <i>6.04</i>	0	327 <i>5.51</i>	
Coarctation of aorta	208 <i>5.84</i>	64 <i>4.60</i>	44 <i>5.87</i>	5 <i>3.38</i>	8 <i>9.66</i>	0	329 <i>5.54</i>	
Common truncus	36 <i>1.01</i>	17 <i>1.22</i>	6 <i>0.80</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	59 <i>0.99</i>	
Congenital cataract	68 <i>1.91</i>	41 <i>2.95</i>	13 <i>1.73</i>	1 <i>0.68</i>	0 <i>0.00</i>	0	123 <i>2.07</i>	
Congenital hip dislocation	393 <i>13.76</i>	60 <i>5.37</i>	99 <i>17.12</i>	10 <i>8.66</i>	6 <i>8.94</i>	0	568 <i>11.98</i>	+
Diaphragmatic hernia	145 <i>4.07</i>	48 <i>3.45</i>	25 <i>3.33</i>	8 <i>5.41</i>	3 <i>3.62</i>	0	229 <i>3.86</i>	
Down syndrome (Trisomy 21)	446 <i>12.53</i>	138 <i>9.92</i>	123 <i>16.41</i>	17 <i>11.50</i>	5 <i>6.04</i>	2	731 <i>12.31</i>	
Ebstein anomaly	20 <i>0.56</i>	9 <i>0.65</i>	9 <i>1.20</i>	0 <i>0.00</i>	1 <i>1.21</i>	0	39 <i>0.66</i>	
Encephalocele	24 <i>0.67</i>	21 <i>1.51</i>	12 <i>1.60</i>	2 <i>1.35</i>	0 <i>0.00</i>	2	61 <i>1.03</i>	
Endocardial cushion defect	171 <i>4.80</i>	76 <i>5.46</i>	34 <i>4.54</i>	5 <i>3.38</i>	5 <i>6.04</i>	0	291 <i>4.90</i>	
Esophageal atresia/ tracheoesophageal fistula	106 <i>2.98</i>	31 <i>2.23</i>	28 <i>3.73</i>	5 <i>3.38</i>	7 <i>8.46</i>	1	178 <i>3.00</i>	
Gastroschisis	155 <i>4.36</i>	37 <i>2.66</i>	35 <i>4.67</i>	4 <i>2.71</i>	2 <i>2.42</i>	1	234 <i>3.94</i>	
Hirschsprung disease (congenital megacolon)	96 <i>2.70</i>	62 <i>4.45</i>	13 <i>1.73</i>	8 <i>5.41</i>	2 <i>2.42</i>	0	181 <i>3.05</i>	
Hydrocephalus without Spina Bifida	375 <i>10.54</i>	180 <i>12.93</i>	68 <i>9.07</i>	12 <i>8.12</i>	10 <i>12.08</i>	3	648 <i>10.91</i>	
Hypoplastic left heart syndrome	87 <i>2.44</i>	48 <i>3.45</i>	16 <i>2.13</i>	1 <i>0.68</i>	6 <i>7.25</i>	1	159 <i>2.68</i>	
Hypospadias and Epispadias	1628 <i>45.75</i>	664 <i>47.71</i>	224 <i>29.88</i>	54 <i>36.54</i>	51 <i>61.60</i>	1	2622 <i>44.16</i>	
Microcephalus	201 <i>5.65</i>	129 <i>9.27</i>	52 <i>6.94</i>	7 <i>4.74</i>	10 <i>12.08</i>	2	401 <i>6.75</i>	
Obstructive genitourinary defect	837 <i>23.52</i>	323 <i>23.21</i>	199 <i>26.55</i>	39 <i>26.39</i>	20 <i>24.16</i>	1	1419 <i>23.90</i>	
Omphalocele	68 <i>1.91</i>	25 <i>1.80</i>	9 <i>1.20</i>	3 <i>2.03</i>	1 <i>1.21</i>	2	108 <i>1.82</i>	

North Carolina

Birth Defects Counts and Rates 2000-2004

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Patent ductus arteriosus	1366 38.38	640 45.98	367 48.95	50 33.83	28 33.82	1	2452 41.30	
Pulmonary valve atresia and stenosis	374 10.51	188 13.51	87 11.61	13 8.80	11 13.29	1	674 11.35	
Pyloric stenosis	817 22.96	162 11.64	164 21.88	5 3.38	27 32.61	2	1177 19.82	
Rectal and large intestinal atresia/stenosis	192 5.40	82 5.89	46 6.14	7 4.74	7 8.46	0	334 5.63	
Reduction deformity, lower limbs	55 1.55	26 1.87	14 1.87	3 2.03	0 0.00	1	99 1.67	
Reduction deformity, upper limbs	100 2.81	37 2.66	31 4.14	1 0.68	2 2.42	2	173 2.91	
Renal agenesis/hypoplasia	197 5.54	82 5.89	42 5.60	8 5.41	5 6.04	3	337 5.68	
Spina bifida without anencephalus	140 3.93	60 4.31	40 5.34	5 3.38	3 3.62	4	252 4.24	
Tetralogy of Fallot	143 4.02	95 6.83	23 3.07	5 3.38	3 3.62	2	271 4.56	
Transposition of great arteries	155 4.36	77 5.53	33 4.40	8 5.41	5 6.04	0	278 4.68	
Tricuspid valve atresia and stenosis	54 1.52	22 1.58	9 1.20	1 0.68	3 3.62	1	90 1.52	
Trisomy 13 (Patau syndrome)	40 1.12	16 1.15	11 1.47	0 0.00	2 2.42	1	70 1.18	
Trisomy 18 (Edwards syndrome)	85 2.39	39 2.80	25 3.33	2 1.35	2 2.42	3	156 2.63	
Ventricular septal defect	1493 41.95	562 40.38	395 52.69	53 35.86	43 51.94	2	2548 42.92	
Total Live Births	355885	139178	74967	14778	8279		593731	

North Carolina

Trisomy Counts and Rates by Maternal Age 2000-2004

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total (**)
Down syndrome (Trisomy 21)	433 8.24	298 43.77	731 12.31
Trisomy 13 (Patau syndrome)	47 0.89	23 3.38	70 1.18
Trisomy 18 (Edwards syndrome)	106 2.02	49 7.20	156 2.63
Total Live Births	525631	68084	593731

(**) Total includes unknown age

(+)Notes:

- 1: 2004 data are provisional
- 2: Amniotic band: 2003-2004 data
- 3: Congenital hip dislocation: 2000-2003 data

Oklahoma
Birth Defects Counts and Rates 2000-2004
(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Amniotic bands	30 <i>1.75</i>	3 <i>1.30</i>	3 <i>1.14</i>	1 <i>1.98</i>	5 <i>1.94</i>	0	42 <i>1.67</i>	
Anencephalus	42 <i>2.46</i>	5 <i>2.17</i>	10 <i>3.81</i>	1 <i>1.98</i>	5 <i>1.94</i>	0	63 <i>2.50</i>	+
Aniridia	3 <i>0.18</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.39</i>	0	4 <i>0.16</i>	
Anophthalmia/ microphthalmia	29 <i>1.70</i>	3 <i>1.30</i>	5 <i>1.91</i>	1 <i>1.98</i>	7 <i>2.72</i>	0	45 <i>1.79</i>	
Anotia/microtia	48 <i>2.81</i>	4 <i>1.73</i>	9 <i>3.43</i>	3 <i>5.94</i>	10 <i>3.89</i>	0	74 <i>2.94</i>	
Aortic valve stenosis	71 <i>4.15</i>	4 <i>1.73</i>	5 <i>1.91</i>	0 <i>0.00</i>	13 <i>5.05</i>	0	93 <i>3.69</i>	
Atrial septal defect	1075 <i>62.87</i>	149 <i>64.52</i>	120 <i>45.73</i>	9 <i>17.81</i>	214 <i>83.18</i>	12	1579 <i>62.64</i>	
Biliary atresia	13 <i>0.76</i>	4 <i>1.73</i>	4 <i>1.52</i>	1 <i>1.98</i>	3 <i>1.17</i>	0	25 <i>0.99</i>	
Bladder exstrophy	7 <i>0.41</i>	1 <i>0.43</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.39</i>	0	9 <i>0.36</i>	
Choanal atresia	35 <i>2.05</i>	0 <i>0.00</i>	3 <i>1.14</i>	0 <i>0.00</i>	10 <i>3.89</i>	2	50 <i>1.98</i>	
Cleft lip with and without cleft palate	254 <i>14.86</i>	16 <i>6.93</i>	32 <i>12.19</i>	6 <i>11.88</i>	47 <i>18.27</i>	0	355 <i>14.08</i>	
Cleft palate without cleft lip	145 <i>8.48</i>	6 <i>2.60</i>	20 <i>7.62</i>	2 <i>3.96</i>	23 <i>8.94</i>	0	196 <i>7.78</i>	
Coarctation of aorta	99 <i>5.79</i>	9 <i>3.90</i>	12 <i>4.57</i>	5 <i>9.90</i>	7 <i>2.72</i>	1	133 <i>5.28</i>	
Common truncus	11 <i>0.64</i>	3 <i>1.30</i>	3 <i>1.14</i>	0 <i>0.00</i>	1 <i>0.39</i>	0	18 <i>0.71</i>	
Congenital cataract	49 <i>2.87</i>	7 <i>3.03</i>	6 <i>2.29</i>	2 <i>3.96</i>	8 <i>3.11</i>	2	74 <i>2.94</i>	
Congenital hip dislocation	92 <i>5.38</i>	10 <i>4.33</i>	7 <i>2.67</i>	1 <i>1.98</i>	7 <i>2.72</i>	0	117 <i>4.64</i>	
Diaphragmatic hernia	82 <i>4.80</i>	2 <i>0.87</i>	13 <i>4.95</i>	0 <i>0.00</i>	15 <i>5.83</i>	0	112 <i>4.44</i>	
Down syndrome (Trisomy 21)	244 <i>14.27</i>	25 <i>10.83</i>	39 <i>14.86</i>	6 <i>11.88</i>	25 <i>9.72</i>	3	342 <i>13.57</i>	
Ebstein anomaly	14 <i>0.82</i>	1 <i>0.43</i>	3 <i>1.14</i>	0 <i>0.00</i>	3 <i>1.17</i>	0	21 <i>0.83</i>	
Encephalocele	15 <i>0.88</i>	1 <i>0.43</i>	2 <i>0.76</i>	0 <i>0.00</i>	1 <i>0.39</i>	0	19 <i>0.75</i>	
Endocardial cushion defect	86 <i>5.03</i>	14 <i>6.06</i>	11 <i>4.19</i>	2 <i>3.96</i>	10 <i>3.89</i>	1	124 <i>4.92</i>	
Esophageal atresia/ tracheoesophageal fistula	46 <i>2.69</i>	8 <i>3.46</i>	3 <i>1.14</i>	0 <i>0.00</i>	5 <i>1.94</i>	0	62 <i>2.46</i>	
Fetus or newborn affected by maternal alcohol use	9 <i>0.53</i>	6 <i>2.60</i>	1 <i>0.38</i>	0 <i>0.00</i>	6 <i>2.33</i>	0	22 <i>0.87</i>	
Gastroschisis	105 <i>6.14</i>	7 <i>3.03</i>	14 <i>5.34</i>	2 <i>3.96</i>	15 <i>5.83</i>	0	143 <i>5.67</i>	
Hirschsprung disease (congenital megacolon)	45 <i>2.63</i>	9 <i>3.90</i>	1 <i>0.38</i>	0 <i>0.00</i>	4 <i>1.55</i>	0	59 <i>2.34</i>	
Hydrocephalus without Spina Bifida	171 <i>10.00</i>	21 <i>9.09</i>	18 <i>6.86</i>	3 <i>5.94</i>	19 <i>7.39</i>	2	234 <i>9.28</i>	
Hypoplastic left heart syndrome	41 <i>2.40</i>	9 <i>3.90</i>	7 <i>2.67</i>	0 <i>0.00</i>	6 <i>2.33</i>	0	63 <i>2.50</i>	
Hypospadias and Epispadias	436 <i>25.50</i>	57 <i>24.68</i>	18 <i>6.86</i>	1 <i>1.98</i>	34 <i>13.22</i>	3	549 <i>21.78</i>	
Microcephalus	130 <i>7.60</i>	20 <i>8.66</i>	13 <i>4.95</i>	3 <i>5.94</i>	29 <i>11.27</i>	2	197 <i>7.81</i>	
Obstructive genitourinary defect	472 <i>27.60</i>	57 <i>24.68</i>	87 <i>33.15</i>	13 <i>25.73</i>	60 <i>23.32</i>	5	694 <i>27.53</i>	

Oklahoma
Birth Defects Counts and Rates 2000-2004
 (Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Omphalocele	45 2.63	8 3.46	3 1.14	2 3.96	3 1.17	0	61 2.42	
Pulmonary valve atresia and stenosis	112 6.55	14 6.06	16 6.10	1 1.98	24 9.33	1	168 6.66	
Pyloric stenosis	560 32.75	45 19.49	50 19.05	3 5.94	87 33.82	1	746 29.59	
Rectal and large intestinal atresia/stenosis	119 6.96	12 5.20	21 8.00	3 5.94	19 7.39	0	174 6.90	
Reduction deformity, lower limbs	32 1.87	3 1.30	3 1.14	0 0.00	4 1.55	0	42 1.67	
Reduction deformity, upper limbs	58 3.39	9 3.90	15 5.72	1 1.98	8 3.11	1	92 3.65	
Renal agenesis/hypoplasia	85 4.97	7 3.03	7 2.67	1 1.98	13 5.05	0	113 4.48	
Spina bifida without anencephalus	63 3.68	5 2.17	20 7.62	1 1.98	8 3.11	0	97 3.85	+
Tetralogy of Fallot	76 4.44	6 2.60	13 4.95	1 1.98	4 1.55	0	100 3.97	
Transposition of great arteries	88 5.15	4 1.73	12 4.57	1 1.98	17 6.61	1	123 4.88	
Tricuspid valve atresia and stenosis	17 0.99	1 0.43	3 1.14	0 0.00	3 1.17	0	24 0.95	
Trisomy 13 (Patau syndrome)	20 1.17	1 0.43	5 1.91	1 1.98	3 1.17	0	30 1.19	
Trisomy 18 (Edwards syndrome)	43 2.51	7 3.03	3 1.14	0 0.00	3 1.17	0	56 2.22	
Ventricular septal defect	813 47.55	103 44.60	132 50.30	11 21.77	120 46.64	8	1187 47.09	
Total Live Births	170985	23092	26241	5052	25727		252082	

Oklahoma
Trisomy Counts and Rates by Maternal Age 2000-2004
 (Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total (**)
Down syndrome (Trisomy 21)	215 9.28	126 61.83	342 13.57
Trisomy 13 (Patau syndrome)	27 1.17	3 1.47	30 1.19
Trisomy 18 (Edwards syndrome)	35 1.51	21 10.30	56 2.22
Total Live Births	231637	20379	252082

(**) Total includes unknown age

(+)Notes:

- 1: 2000-2004, Anencephalus, Includes live birth stillbirth & termination
- 2: 2000-2004, Spina bifida without anencephalus, Includes live birth stillbirth & termination

Pennsylvania
Birth Defects Counts and Rates 2001-2003
(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Diaphragmatic hernia	77	7	4	1	0	3	92	
	2.37	1.22	1.45	0.80	0.00		2.13	
Down syndrome (Trisomy 21)	355	32	24	7	0	4	422	
	10.94	5.60	8.71	5.58	0.00		9.79	
Esophageal atresia/ tracheoesophageal fistula	62	3	5	2	0	2	74	
	1.91	0.52	1.82	1.59	0.00		1.72	
Hydrocephalus without Spina Bifida	145	37	12	3	1	6	204	
	4.47	6.47	4.36	2.39	12.87		4.73	
Microcephalus	50	10	5	3	0	1	69	
	1.54	1.75	1.82	2.39	0.00		1.60	
Rectal and large intestinal atresia/stenosis	72	6	6	4	0	3	91	
	2.22	1.05	2.18	3.19	0.00		2.11	
Renal agenesis/hypoplasia	84	8	2	2	0	2	98	
	2.59	1.40	0.73	1.59	0.00		2.27	
Spina bifida without anencephalus	104	19	10	2	0	5	140	
	3.20	3.32	3.63	1.59	0.00		3.25	
Total Live Births	324627	57149	27545	12545	777		431269	

Pennsylvania
Trisomy Counts and Rates by Maternal Age 2001-2003
(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total (**)
Down syndrome (Trisomy 21)	201	218	422
	5.52	32.68	9.79
Total Live Births	364281	66708	431269

(**) Total includes unknown age

Puerto Rico
Birth Defects Counts and Rates 2000-2004
(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Anencephalus	0 0.00	0 0.00	74 2.74	0 0.00	0 0.00	0 0	74 2.74	
Aortic valve stenosis	0 0.00	0 0.00	16 1.57	0 0.00	0 0.00	0 0	16 1.57	+
Atrial septal defect	0 0.00	0 0.00	151 14.80	0 0.00	0 0.00	0 0	151 14.80	+
Cleft lip with and without cleft palate	0 0.00	0 0.00	201 7.43	0 0.00	0 0.00	0 0	201 7.43	
Cleft palate without cleft lip	0 0.00	0 0.00	134 4.96	0 0.00	0 0.00	0 0	134 4.96	
Coarctation of aorta	0 0.00	0 0.00	23 2.25	0 0.00	0 0.00	0 0	23 2.25	+
Common truncus	0 0.00	0 0.00	6 0.59	0 0.00	0 0.00	0 0	6 0.59	+
Down syndrome (Trisomy 21)	0 0.00	0 0.00	202 9.58	0 0.00	0 0.00	0 0	202 9.58	+
Ebstein anomaly	0 0.00	0 0.00	5 0.49	0 0.00	0 0.00	0 0	5 0.49	+
Encephalocele	0 0.00	0 0.00	17 0.63	0 0.00	0 0.00	0 0	17 0.63	
Endocardial cushion defect	0 0.00	0 0.00	35 3.43	0 0.00	0 0.00	0 0	35 3.43	+
Gastroschisis	0 0.00	0 0.00	31 3.04	0 0.00	0 0.00	0 0	31 3.04	+
Hypoplastic left heart syndrome	0 0.00	0 0.00	20 1.96	0 0.00	0 0.00	0 0	20 1.96	+
Omphalocele	0 0.00	0 0.00	10 0.98	0 0.00	0 0.00	0 0	10 0.98	+
Patent ductus arteriosus	0 0.00	0 0.00	189 18.52	0 0.00	0 0.00	0 0	189 18.52	+
Pulmonary valve atresia and stenosis	0 0.00	0 0.00	104 10.19	0 0.00	0 0.00	0 0	104 10.19	+
Spina bifida without anencephalus	0 0.00	0 0.00	119 4.40	0 0.00	0 0.00	0 0	119 4.40	
Tetralogy of Fallot	0 0.00	0 0.00	35 3.43	0 0.00	0 0.00	0 0	35 3.43	+
Transposition of great arteries	0 0.00	0 0.00	33 3.23	0 0.00	0 0.00	0 0	33 3.23	+
Tricuspid valve atresia and stenosis	0 0.00	0 0.00	14 1.37	0 0.00	0 0.00	0 0	14 1.37	+
Trisomy 13 (Patau syndrome)	0 0.00	0 0.00	5 0.49	0 0.00	0 0.00	0 0	5 0.49	+
Trisomy 18 (Edwards syndrome)	0 0.00	0 0.00	15 1.47	0 0.00	0 0.00	0 0	15 1.47	+
Ventricular septal defect	0 0.00	0 0.00	199 19.5	0 0.00	0 0.00	0 0	199 19.5	+
Total Live Births			270356				270356	

Puerto Rico**Trisomy Counts and Rates by Maternal Age 2001-2004**

(Rates per 10,000 Live Births)

Defect	Age		Total (**)
	<35	35 and >	
Down syndrome (Trisomy 21)	121 4.86	79 37.21	202 7.47
Trisomy 13 (Patau syndrome) (2003 data only)	3 0.12	2 0.94	5 0.18
Trisomy 18 (Edwards syndrome) (2003 data only)	7 0.28	7 3.30	15 0.55
Total Live Births	248968	21232	270356

(**) Total includes unknown age

(+)Notes:

- 1: Aortic valve stenosis, 2003-2004 data
- 2: Atrial septal defect, 2003-2004 data
- 3: Coarctation of aorta, 2003-2004 data
- 4: Common truncus, 2003-2004 data: only includes persistent truncus arteriosus and aortic pulmonary window.
- 5: Down syndrome (Trisomy 21), 2001-2004 data
- 6: Ebstein anomaly, 2003-2004 data
- 7: Endocardial cushion defect, 2003-2004 data: only includes AV Canal.
- 8: Gastroschisis, 2003-2004 data
- 9: Hypoplastic left heart syndrome, 2003-2004 data
- 10: Omphalocele, 2003-2004 data
- 11: Patent ductus arteriosus, 2003-2004 data: included only if weight =>2500 grams.
- 12: Pulmonary valve atresia and stenosis, 2003-2004 data
- 13: Tetralogy of Fallot, 2003-2004 data
- 14: Transposition of great arteries, 2003-2004 data
- 15: Tricuspid valve atresia and stenosis, 2003-2004 data: only includes atresia
- 16: Trisomy 13, 2003-2004 data
- 17: Trisomy 18, 2003-2004 data
- 18: Ventricular septal defect, 2003-2004 data: probable cases are not included.

Rhode Island
Birth Defects Counts and Rates 2004
(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Anencephalus	0	0	0	0	0	0	0	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Aniridia	0	0	0	0	0	0	0	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Anophthalmia/ microphthalmia	0	0	0	0	0	0	0	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Anotia/microtia	0	0	0	0	0	0	0	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Aortic valve stenosis	0	1	0	0	0	0	1	
	0.00	9.07	0.00	0.00	0.00	0.00	0.82	
Atrial septal defect	32	9	0	2	2	3	48	
	38.03	81.60	0.00	40.90	307.69		39.13	
Biliary atresia	0	0	0	0	0	0	0	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Bladder exstrophy	0	0	0	0	0	0	0	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Choanal atresia	0	0	0	0	0	0	0	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Cleft lip with and without cleft palate	7	1	0	0	0	1	9	
	8.32	9.07	0.00	0.00	0.00	0.00	7.34	
Cleft palate without cleft lip	6	0	0	1	0	0	7	
	7.13	0.00	0.00	20.45	0.00	0.00	5.71	
Coarctation of aorta	1	0	0	0	0	0	1	
	1.19	0.00	0.00	0.00	0.00	0.00	0.82	
Common truncus	0	0	0	0	0	1	1	
	0.00	0.00	0.00	0.00	0.00	0.00	0.82	
Congenital cataract	1	0	0	0	0	0	1	
	1.19	0.00	0.00	0.00	0.00	0.00	0.82	
Congenital hip dislocation	16	0	0	0	1	1	18	
	19.01	0.00	0.00	0.00	153.85		14.67	
Diaphragmatic hernia	2	0	0	0	0	1	3	
	2.38	0.00	0.00	0.00	0.00	0.00	2.45	
Down syndrome (Trisomy 21)	15	2	0	1	0	1	19	
	17.83	18.13	0.00	20.45	0.00	0.00	15.49	
Ebstein anomaly	0	0	0	1	0	0	1	
	0.00	0.00	0.00	20.45	0.00	0.00	0.82	
Encephalocele	1	0	0	0	0	1	2	
	1.19	0.00	0.00	0.00	0.00	0.00	1.63	
Endocardial cushion defect	0	1	0	0	0	1	2	
	0.00	9.07	0.00	0.00	0.00	0.00	1.63	
Esophageal atresia/ tracheoesophageal fistula	0	0	0	0	0	0	0	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Gastroschisis	6	0	0	0	1	0	7	
	7.13	0.00	0.00	0.00	153.85		5.71	+
Hirschsprung disease (congenital megacolon)	0	1	0	0	0	1	2	
	0.00	9.07	0.00	0.00	0.00	0.00	1.63	
Hydrocephalus without Spina Bifida	9	1	0	1	0	2	13	
	10.70	9.07	0.00	20.45	0.00	0.00	10.60	
Hypoplastic left heart syndrome	0	0	0	1	0	1	2	
	0.00	0.00	0.00	20.45	0.00	0.00	1.63	
Hypospadias and Epispadias	23	3	0	6	1	1	34	
	27.33	27.20	0.00	122.70	153.85		27.72	
Microcephalus	5	0	0	0	0	0	5	
	5.94	0.00	0.00	0.00	0.00	0.00	4.08	
Obstructive genitourinary defect	0	0	0	0	1	0	1	
	0.00	0.00	0.00	0.00	153.85		0.82	
Omphalocele	0	0	0	0	0	0	0	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Patent ductus arteriosus	44	3	0	7	1	9	64	
	52.29	27.20	0.00	143.15	153.85		52.17	

Rhode Island

Birth Defects Counts and Rates 2004

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Pulmonary valve atresia and stenosis	23 27.33	7 63.46	0 0.00	4 81.80	1 153.85	4	39 31.79	
Pyloric stenosis	1 1.19	0 0.00	0 0.00	0 0.00	0 0.00	0	1 0.82	
Rectal and large intestinal atresia/stenosis	4 4.75	0 0.00	0 0.00	0 0.00	0 0.00	0	4 3.26	
Reduction deformity, lower limbs	1 1.19	1 9.07	0 0.00	0 0.00	0 0.00	0	2 1.63	
Reduction deformity, upper limbs	4 4.75	0 0.00	0 0.00	1 20.45	0 0.00	0	5 4.08	
Renal agenesis/hypoplasia	3 3.57	2 18.13	0 0.00	0 0.00	0 0.00	0	5 4.08	
Spina bifida without anencephalus	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0	0 0.00	
Tetralogy of Fallot	2 2.38	0 0.00	0 0.00	0 0.00	0 0.00	0	2 1.63	
Transposition of great arteries	1 1.19	0 0.00	0 0.00	0 0.00	0 0.00	0	1 0.82	
Tricuspid valve atresia and stenosis	0 0.00	0 0.00	0 0.00	1 20.45	0 0.00	0	1 0.82	
Trisomy 13 (Patau syndrome)	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0	0 0.00	
Trisomy 18 (Edwards syndrome)	2 2.38	0 0.00	0 0.00	1 20.45	0 0.00	0	3 2.45	
Ventricular septal defect	47 55.85	4 36.26	0 0.00	5 102.25	1 153.85	1	58 47.28	
Total Live Births	8415	1103	2066	489	65		12267	

Rhode Island

Trisomy Counts and Rates by Maternal Age 2004

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total (**)
Down syndrome (Trisomy 21)	11 11.26	8 32.06	19 15.49
Trisomy 13 (Patau syndrome)	0 0.00	0 0.00	0 0.00
Trisomy 18 (Edwards syndrome)	2 2.05	1 4.01	3 2.45
Total Live Births	9772	2495	12267

(**) Total includes unknown age

(+)Notes:

1: 2004, Gastroschisis, medical record abstraction

South Carolina**Birth Defects Counts and Rates 2000-2004**

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Anencephalus	49 <i>2.77</i>	16 <i>1.70</i>	3 <i>2.16</i>	1 <i>15.29</i>	0 <i>0.00</i>	0	48 <i>1.74</i>	
Encephalocele	14 <i>0.79</i>	5 <i>0.53</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	12 <i>0.43</i>	
Spina bifida without anencephalus	32 <i>1.81</i>	24 <i>2.55</i>	4 <i>2.89</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	37 <i>1.34</i>	
Total Live Births	176,713	93,995	13,858	654	815		276,300	

Tennessee
Birth Defects Counts and Rates 2000-2004
(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Anencephalus	41 <i>1.51</i>	11 <i>1.27</i>	6 <i>2.28</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	58 <i>1.47</i>	+
Aniridia	4 <i>0.15</i>	1 <i>0.12</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	5 <i>0.13</i>	
Anophthalmia/ microphthalmia	28 <i>1.03</i>	7 <i>0.81</i>	5 <i>1.90</i>	3 <i>4.05</i>	0 <i>0.00</i>	1 <i>0.00</i>	44 <i>1.12</i>	
Anotia/microtia	15 <i>0.55</i>	4 <i>0.46</i>	5 <i>1.90</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	24 <i>0.61</i>	
Aortic valve stenosis	54 <i>1.99</i>	9 <i>1.04</i>	3 <i>1.14</i>	2 <i>2.70</i>	0 <i>0.00</i>	0 <i>0.00</i>	68 <i>1.73</i>	
Atrial septal defect	1204 <i>44.34</i>	344 <i>39.65</i>	71 <i>27.03</i>	26 <i>35.14</i>	6 <i>52.13</i>	2 <i>0.00</i>	1653 <i>41.99</i>	
Biliary atresia	18 <i>0.66</i>	8 <i>0.92</i>	1 <i>0.38</i>	2 <i>2.70</i>	0 <i>0.00</i>	0 <i>0.00</i>	29 <i>0.74</i>	
Bladder exstrophy	11 <i>0.41</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	11 <i>0.28</i>	
Choanal atresia	63 <i>2.32</i>	10 <i>1.15</i>	3 <i>1.14</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	77 <i>1.96</i>	
Cleft lip with and without cleft palate	338 <i>12.45</i>	67 <i>7.72</i>	25 <i>9.52</i>	9 <i>12.16</i>	2 <i>17.38</i>	1 <i>0.00</i>	442 <i>11.23</i>	
Cleft palate without cleft lip	212 <i>7.81</i>	40 <i>4.61</i>	17 <i>6.47</i>	4 <i>5.41</i>	1 <i>8.69</i>	2 <i>0.00</i>	276 <i>7.01</i>	
Coarctation of aorta	175 <i>6.45</i>	38 <i>4.38</i>	15 <i>5.71</i>	3 <i>4.05</i>	1 <i>8.69</i>	1 <i>0.00</i>	233 <i>5.92</i>	
Common truncus	20 <i>0.74</i>	12 <i>1.38</i>	2 <i>0.76</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	34 <i>0.86</i>	
Congenital cataract	60 <i>2.21</i>	19 <i>2.19</i>	7 <i>2.67</i>	2 <i>2.70</i>	1 <i>8.69</i>	0 <i>0.00</i>	89 <i>2.26</i>	
Congenital hip dislocation	248 <i>9.13</i>	29 <i>3.34</i>	14 <i>5.33</i>	6 <i>8.11</i>	0 <i>0.00</i>	0 <i>0.00</i>	297 <i>7.54</i>	
Diaphragmatic hernia	81 <i>2.98</i>	30 <i>3.46</i>	9 <i>3.43</i>	3 <i>4.05</i>	0 <i>0.00</i>	0 <i>0.00</i>	123 <i>3.12</i>	
Down syndrome (Trisomy 21)	336 <i>12.37</i>	103 <i>11.87</i>	40 <i>15.23</i>	7 <i>9.46</i>	0 <i>0.00</i>	0 <i>0.00</i>	486 <i>12.34</i>	
Ebstein anomaly	24 <i>0.88</i>	4 <i>0.46</i>	2 <i>0.76</i>	1 <i>1.35</i>	0 <i>0.00</i>	0 <i>0.00</i>	31 <i>0.79</i>	
Encephalocele	27 <i>0.99</i>	16 <i>1.84</i>	2 <i>0.76</i>	2 <i>2.70</i>	0 <i>0.00</i>	0 <i>0.00</i>	47 <i>1.19</i>	
Endocardial cushion defect	97 <i>3.57</i>	29 <i>3.34</i>	7 <i>2.67</i>	2 <i>2.70</i>	0 <i>0.00</i>	0 <i>0.00</i>	135 <i>3.43</i>	
Esophageal atresia/ tracheoesophageal fistula	82 <i>3.02</i>	28 <i>3.23</i>	6 <i>2.28</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	116 <i>2.95</i>	
Fetus or newborn affected by maternal alcohol use	43 <i>1.58</i>	53 <i>6.11</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>17.38</i>	0 <i>0.00</i>	98 <i>2.49</i>	
Gastroschisis	137 <i>5.05</i>	35 <i>4.03</i>	6 <i>2.28</i>	5 <i>6.76</i>	0 <i>0.00</i>	1 <i>0.00</i>	184 <i>4.67</i>	+
Hirschsprung disease (congenital megacolon)	76 <i>2.80</i>	23 <i>2.65</i>	5 <i>1.90</i>	1 <i>1.35</i>	0 <i>0.00</i>	0 <i>0.00</i>	105 <i>2.67</i>	
Hydrocephalus without Spina Bifida	216 <i>7.96</i>	80 <i>9.22</i>	17 <i>6.47</i>	5 <i>6.76</i>	0 <i>0.00</i>	0 <i>0.00</i>	318 <i>8.08</i>	
Hypoplastic left heart syndrome	98 <i>3.61</i>	25 <i>2.88</i>	10 <i>3.81</i>	1 <i>1.35</i>	0 <i>0.00</i>	0 <i>0.00</i>	134 <i>3.40</i>	
Hypospadias and Epispadias	1412 <i>52.00</i>	372 <i>42.87</i>	53 <i>20.18</i>	22 <i>29.73</i>	5 <i>43.44</i>	2 <i>0.00</i>	1866 <i>47.40</i>	
Microcephalus	125 <i>4.60</i>	65 <i>7.49</i>	22 <i>8.38</i>	0 <i>0.00</i>	1 <i>8.69</i>	1 <i>0.00</i>	214 <i>5.44</i>	
Obstructive genitourinary defect	720 <i>26.52</i>	115 <i>13.25</i>	50 <i>19.04</i>	18 <i>24.33</i>	3 <i>26.06</i>	1 <i>0.00</i>	907 <i>23.04</i>	
Omphalocele	72 <i>2.65</i>	27 <i>3.11</i>	2 <i>0.76</i>	3 <i>4.05</i>	0 <i>0.00</i>	0 <i>0.00</i>	104 <i>2.64</i>	+

Tennessee

Birth Defects Counts and Rates 2000-2004

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Patent ductus arteriosus	1180 43.46	425 48.98	92 35.03	27 36.49	6 52.13	3	1733 44.02	+
Pulmonary valve atresia and stenosis	242 8.91	104 11.99	17 6.47	6 8.11	1 8.69	0	370 9.40	
Pyloric stenosis	944 34.77	102 11.76	83 31.60	5 6.76	5 43.44	1	1140 28.96	
Rectal and large intestinal atresia/stenosis	137 5.05	44 5.07	9 3.43	1 1.35	0 0.00	0	191 4.85	
Reduction deformity, lower limbs	30 1.10	11 1.27	3 1.14	0 0.00	0 0.00	0	44 1.12	
Reduction deformity, upper limbs	63 2.32	17 1.96	5 1.90	1 1.35	0 0.00	0	86 2.18	
Renal agenesis/hypoplasia	87 3.20	37 4.26	11 4.19	1 1.35	1 8.69	0	137 3.48	
Spina bifida without anencephalus	107 3.94	19 2.19	14 5.33	3 4.05	0 0.00	0	143 3.63	+
Tetralogy of Fallot	133 4.90	57 6.57	6 2.28	6 8.11	1 8.69	0	203 5.18	
Transposition of great arteries	149 5.49	33 3.80	14 5.33	2 2.70	0 0.00	1	199 5.05	
Tricuspid valve atresia and stenosis	32 1.18	10 1.15	3 1.14	0 0.00	0 0.00	0	45 1.14	
Trisomy 13 (Patau syndrome)	21 0.77	12 1.38	2 0.76	0 0.00	0 0.00	0	35 0.89	
Trisomy 18 (Edwards syndrome)	36 1.33	29 3.34	4 1.52	0 0.00	0 0.00	0	69 1.75	
Ventricular septal defect	1195 44.01	319 36.77	103 39.22	21 28.38	7 60.82	2	1647 41.83	+
Total Live Births	271527	86767	26264	7399	1151		393703	

Tennessee

Trisomy Counts and Rates by Maternal Age 2000-2004

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total (**)
Down syndrome (Trisomy 21)	302 8.56	183 45.84	486 12.34
Trisomy 13 (Patau syndrome)	28 0.79	7 1.75	35 0.89
Trisomy 18 (Edwards syndrome)	44 1.25	25 6.26	69 1.75
Total Live Births	352801	39925	393703

(**) Total includes unknown age

(+)Notes:

- 1: Fetal Deaths include fetuses 500 grams or more, or in the absence of weight, of 22 completed weeks of gestation or more.
- 2: TBDR includes fetal deaths (stillbirths) but does not include terminations.
- 3: TBDR uses the ICD-9 coding system for diagnoses.
- 4: 2000-2004, Anencephalus, Live Births & Fetal Deaths
- 5: 2000-2004, Spina bifida without anencephalus, Live Births & Fetal Deaths
- 6: 2000-2004, Ventricular septal defect, Includes probable cases
- 7: 2000-2004, Patent ductus arteriosus, birthweight \geq 2500 grams
- 8: 2000-2004, Gastroschisis, ICD-9 Procedure Code = 54.71
- 9: 2000-2004, Omphalocele, ICD-9 Procedure Code not equal to 54.71

Texas
Birth Defects Counts and Rates 2000-2004
 (Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Amniotic bands	37 <i>0.53</i>	20 <i>0.98</i>	50 <i>0.56</i>	2 <i>0.32</i>	1 <i>2.62</i>	0	110 <i>0.59</i>	
Anencephalus	142 <i>2.04</i>	45 <i>2.19</i>	273 <i>3.07</i>	9 <i>1.45</i>	1 <i>2.62</i>	9	479 <i>2.58</i>	
Aniridia	5 <i>0.07</i>	5 <i>0.24</i>	15 <i>0.17</i>	1 <i>0.16</i>	0 <i>0.00</i>	0	26 <i>0.14</i>	
Anophthalmia/ microphthalmia	197 <i>2.83</i>	50 <i>2.44</i>	271 <i>3.05</i>	9 <i>1.45</i>	4 <i>10.50</i>	0	531 <i>2.86</i>	
Anotia/microtia	128 <i>1.84</i>	31 <i>1.51</i>	375 <i>4.22</i>	12 <i>1.93</i>	0 <i>0.00</i>	0	546 <i>2.94</i>	
Aortic valve stenosis	199 <i>2.86</i>	31 <i>1.51</i>	198 <i>2.23</i>	9 <i>1.45</i>	0 <i>0.00</i>	0	437 <i>2.35</i>	
Atrial septal defect	2894 <i>41.63</i>	855 <i>41.70</i>	4374 <i>49.17</i>	211 <i>33.90</i>	16 <i>41.98</i>	5	8355 <i>44.93</i>	
Biliary atresia	39 <i>0.56</i>	23 <i>1.12</i>	58 <i>0.65</i>	10 <i>1.61</i>	1 <i>2.62</i>	0	131 <i>0.70</i>	
Bladder exstrophy	28 <i>0.40</i>	5 <i>0.24</i>	16 <i>0.18</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	49 <i>0.26</i>	
Choanal atresia	88 <i>1.27</i>	19 <i>0.93</i>	92 <i>1.03</i>	3 <i>0.48</i>	0 <i>0.00</i>	0	202 <i>1.09</i>	
Cleft lip with and without cleft palate	749 <i>10.77</i>	156 <i>7.61</i>	1037 <i>11.66</i>	69 <i>11.09</i>	13 <i>34.11</i>	3	2027 <i>10.90</i>	
Cleft palate without cleft lip	462 <i>6.65</i>	91 <i>4.44</i>	455 <i>5.12</i>	37 <i>5.95</i>	2 <i>5.25</i>	2	1049 <i>5.64</i>	
Coarctation of aorta	377 <i>5.42</i>	66 <i>3.22</i>	406 <i>4.56</i>	21 <i>3.37</i>	2 <i>5.25</i>	0	872 <i>4.69</i>	
Common truncus	69 <i>0.99</i>	18 <i>0.88</i>	89 <i>1.00</i>	1 <i>0.16</i>	1 <i>2.62</i>	0	178 <i>0.96</i>	
Congenital cataract	123 <i>1.77</i>	40 <i>1.95</i>	151 <i>1.70</i>	10 <i>1.61</i>	1 <i>2.62</i>	0	325 <i>1.75</i>	
Congenital hip dislocation	341 <i>4.91</i>	33 <i>1.61</i>	407 <i>4.58</i>	24 <i>3.86</i>	2 <i>5.25</i>	0	807 <i>4.34</i>	
Diaphragmatic hernia	175 <i>2.52</i>	44 <i>2.15</i>	250 <i>2.81</i>	13 <i>2.09</i>	0 <i>0.00</i>	3	485 <i>2.61</i>	
Down syndrome (Trisomy 21)	881 <i>12.67</i>	165 <i>8.05</i>	1252 <i>14.08</i>	72 <i>11.57</i>	3 <i>7.87</i>	9	2382 <i>12.81</i>	
Ebstein anomaly	51 <i>0.73</i>	13 <i>0.63</i>	68 <i>0.76</i>	4 <i>0.64</i>	1 <i>2.62</i>	0	137 <i>0.74</i>	
Encephalocele	38 <i>0.55</i>	13 <i>0.63</i>	100 <i>1.12</i>	4 <i>0.64</i>	2 <i>5.25</i>	1	158 <i>0.85</i>	
Endocardial cushion defect	322 <i>4.63</i>	92 <i>4.49</i>	326 <i>3.66</i>	21 <i>3.37</i>	2 <i>5.25</i>	1	764 <i>4.11</i>	
Esophageal atresia/ tracheoesophageal fistula	149 <i>2.14</i>	32 <i>1.56</i>	184 <i>2.07</i>	6 <i>0.96</i>	1 <i>2.62</i>	0	372 <i>2.00</i>	
Fetus or newborn affected by maternal alcohol use	22 <i>0.32</i>	9 <i>0.44</i>	15 <i>0.17</i>	0 <i>0.00</i>	1 <i>2.62</i>	0	47 <i>0.25</i>	
Gastroschisis	279 <i>4.01</i>	55 <i>2.68</i>	441 <i>4.96</i>	11 <i>1.77</i>	1 <i>2.62</i>	2	789 <i>4.24</i>	
Hirschsprung disease (congenital megacolon)	110 <i>1.58</i>	41 <i>2.00</i>	67 <i>0.75</i>	10 <i>1.61</i>	1 <i>2.62</i>	0	229 <i>1.23</i>	
Hydrocephalus without Spina Bifida	447 <i>6.43</i>	168 <i>8.19</i>	614 <i>6.90</i>	19 <i>3.05</i>	2 <i>5.25</i>	7	1257 <i>6.76</i>	
Hypoplastic left heart syndrome	173 <i>2.49</i>	43 <i>2.10</i>	166 <i>1.87</i>	7 <i>1.12</i>	1 <i>2.62</i>	0	390 <i>2.10</i>	
Hypospadias and Epispadias	2799 <i>40.26</i>	653 <i>31.85</i>	1562 <i>17.56</i>	170 <i>27.32</i>	6 <i>15.74</i>	4	5194 <i>27.93</i>	
Microcephalus	474 <i>6.82</i>	232 <i>11.32</i>	690 <i>7.76</i>	45 <i>7.23</i>	8 <i>20.99</i>	1	1450 <i>7.80</i>	
Obstructive genitourinary defect	1939 <i>27.89</i>	386 <i>18.83</i>	2210 <i>24.85</i>	139 <i>22.33</i>	10 <i>26.24</i>	6	4690 <i>25.22</i>	

Texas**Birth Defects Counts and Rates 2000-2004**

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/ Other		
Omphalocele	154 2.22	45 2.19	185 2.08	10 1.61	3 7.87	3	400 2.15	
Patent ductus arteriosus	3052 43.90	864 42.14	4416 49.65	214 34.39	14 36.74	3	8563 46.05	+
Pulmonary valve atresia and stenosis	524 7.54	159 7.76	699 7.86	37 5.95	4 10.50	2	1425 7.66	
Pyloric stenosis	1469 21.13	178 8.68	1777 19.98	32 5.14	5 13.12	3	3464 18.63	
Rectal and large intestinal atresia/stenosis	359 5.16	68 3.32	503 5.65	21 3.37	2 5.25	2	955 5.14	
Reduction deformity, lower limbs	121 1.74	39 1.90	163 1.83	9 1.45	3 7.87	0	335 1.80	
Reduction deformity, upper limbs	283 4.07	80 3.90	366 4.11	16 2.57	5 13.12	3	753 4.05	
Renal agenesis/hypoplasia	344 4.95	89 4.34	511 5.74	23 3.70	3 7.87	5	975 5.24	
Spina bifida without anencephalus	226 3.25	50 2.44	382 4.29	6 0.96	1 2.62	4	669 3.60	
Tetralogy of Fallot	236 3.39	74 3.61	282 3.17	21 3.37	0 0.00	2	615 3.31	
Transposition of great arteries	323 4.65	77 3.76	457 5.14	33 5.30	5 13.12	1	896 4.82	
Tricuspid valve atresia and stenosis	178 2.56	61 2.98	234 2.63	17 2.73	1 2.62	2	493 2.65	+
Trisomy 13 (Patau syndrome)	85 1.22	26 1.27	101 1.14	10 1.61	1 2.62	2	225 1.21	
Trisomy 18 (Edwards syndrome)	166 2.39	56 2.73	177 1.99	14 2.25	1 2.62	3	417 2.24	
Ventricular septal defect	3027 43.54	694 33.85	4857 54.60	222 35.67	11 28.86	7	8818 47.42	
Total Live Births	695145	205027	889501	62236	3811		1859601	

Texas**Trisomy Counts and Rates by Maternal Age 2000-2004**

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total (**)
Down syndrome (Trisomy 21)	1354 8.14	1028 52.30	2382 12.81
Trisomy 13 (Patau syndrome)	161 0.97	64 3.26	225 1.21
Trisomy 18 (Edwards syndrome)	217 1.30	200 10.18	417 2.24
Total Live Births	1662845	196544	1859601

(**) Total includes unknown age

(+)Notes:

1: 2000-2004, Tricuspid valve atresia and stenosis, Methodologic change: In 2003 we revised BPA code 746.100 to include conditions that were not strictly atresia or stenosis. As a result we changed the name in our Registry reports from "tricuspid valve atresia or stenosis" to "anomalies of the tricuspid valve". The prevalence of this condition increased by 33% due to the change.

2: 2000-2004, Patent ductus arteriosus, The State of Texas uses a fairly stringent criteria for the coding of Patent Ductus Arteriosus; see attached excerpt from our manual.

Utah

Birth Defects Counts and Rates 2000-2004

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Amniotic bands	19 <i>0.96</i>	1 <i>6.02</i>	6 <i>1.77</i>	2 <i>2.66</i>	0 <i>0.00</i>	0	28 <i>1.14</i>	
Anencephalus	35 <i>1.78</i>	0 <i>0.00</i>	15 <i>4.43</i>	1 <i>1.33</i>	0 <i>0.00</i>	0	51 <i>2.08</i>	
Aniridia	5 <i>0.25</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	5 <i>0.20</i>	
Anophthalmia/ microphthalmia	30 <i>1.52</i>	0 <i>0.00</i>	11 <i>3.25</i>	2 <i>2.66</i>	0 <i>0.00</i>	0	43 <i>1.76</i>	
Anotia/microtia	53 <i>2.69</i>	0 <i>0.00</i>	11 <i>3.25</i>	2 <i>2.66</i>	3 <i>9.31</i>	0	69 <i>2.82</i>	
Aortic valve stenosis	58 <i>2.94</i>	0 <i>0.00</i>	8 <i>2.36</i>	0 <i>0.00</i>	1 <i>3.10</i>	0	67 <i>2.74</i>	
Atrial septal defect	399 <i>20.25</i>	7 <i>42.17</i>	102 <i>30.14</i>	15 <i>19.94</i>	10 <i>31.03</i>	1	534 <i>21.81</i>	
Biliary atresia	18 <i>0.91</i>	1 <i>6.02</i>	0 <i>0.00</i>	1 <i>1.33</i>	0 <i>0.00</i>	0	20 <i>0.82</i>	
Bladder exstrophy	6 <i>0.30</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	6 <i>0.25</i>	
Choanal atresia	22 <i>1.12</i>	1 <i>6.02</i>	11 <i>3.25</i>	0 <i>0.00</i>	0 <i>0.00</i>	1	35 <i>1.43</i>	
Cleft lip with and without cleft palate	277 <i>14.06</i>	1 <i>6.02</i>	54 <i>15.96</i>	12 <i>15.95</i>	9 <i>27.92</i>	1	354 <i>14.46</i>	
Cleft palate without cleft lip	158 <i>8.02</i>	0 <i>0.00</i>	20 <i>5.91</i>	9 <i>11.96</i>	3 <i>9.31</i>	0	190 <i>7.76</i>	
Coarctation of aorta	159 <i>8.07</i>	0 <i>0.00</i>	23 <i>6.80</i>	1 <i>1.33</i>	1 <i>3.10</i>	1	185 <i>7.55</i>	
Common truncus	21 <i>1.07</i>	0 <i>0.00</i>	3 <i>0.89</i>	1 <i>1.33</i>	0 <i>0.00</i>	0	25 <i>1.02</i>	
Congenital cataract	51 <i>2.59</i>	1 <i>6.02</i>	5 <i>1.48</i>	0 <i>0.00</i>	0 <i>0.00</i>	1	58 <i>2.37</i>	
Diaphragmatic hernia	37 <i>1.88</i>	0 <i>0.00</i>	5 <i>1.48</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	42 <i>1.72</i>	
Down syndrome (Trisomy 21)	290 <i>14.72</i>	0 <i>0.00</i>	68 <i>20.10</i>	16 <i>21.27</i>	4 <i>12.41</i>	6	384 <i>15.68</i>	
Ebstein anomaly	13 <i>0.66</i>	0 <i>0.00</i>	1 <i>0.30</i>	1 <i>1.33</i>	0 <i>0.00</i>	0	15 <i>0.61</i>	
Encephalocele	19 <i>0.96</i>	0 <i>0.00</i>	4 <i>1.18</i>	0 <i>0.00</i>	0 <i>0.00</i>	1	24 <i>0.98</i>	
Endocardial cushion defect	116 <i>5.89</i>	0 <i>0.00</i>	16 <i>4.73</i>	3 <i>3.99</i>	3 <i>9.31</i>	1	139 <i>5.68</i>	
Esophageal atresia/ tracheoesophageal fistula	43 <i>2.18</i>	0 <i>0.00</i>	8 <i>2.36</i>	2 <i>2.66</i>	1 <i>3.10</i>	0	54 <i>2.21</i>	
Gastroschisis	85 <i>4.31</i>	4 <i>24.10</i>	23 <i>6.80</i>	4 <i>5.32</i>	3 <i>9.31</i>	0	119 <i>4.86</i>	
Hirschsprung disease (congenital megacolon)	42 <i>2.13</i>	1 <i>6.02</i>	6 <i>1.77</i>	1 <i>1.33</i>	0 <i>0.00</i>	0	50 <i>2.04</i>	
Hydrocephalus without Spina Bifida	104 <i>5.28</i>	0 <i>0.00</i>	18 <i>5.32</i>	4 <i>5.32</i>	1 <i>3.10</i>	0	127 <i>5.19</i>	
Hypoplastic left heart syndrome	75 <i>3.81</i>	0 <i>0.00</i>	9 <i>2.66</i>	1 <i>1.33</i>	0 <i>0.00</i>	3	88 <i>3.59</i>	
Hypospadias and Epispadias	678 <i>34.41</i>	5 <i>30.12</i>	32 <i>9.46</i>	18 <i>23.93</i>	4 <i>12.41</i>	3	740 <i>30.22</i>	
Microcephalus	78 <i>3.96</i>	1 <i>6.02</i>	22 <i>6.50</i>	0 <i>0.00</i>	1 <i>3.10</i>	1	103 <i>4.21</i>	
Obstructive genitourinary defect	396 <i>20.10</i>	1 <i>6.02</i>	58 <i>17.14</i>	14 <i>18.61</i>	5 <i>15.51</i>	1	475 <i>19.40</i>	
Omphalocele	53 <i>2.69</i>	0 <i>0.00</i>	13 <i>3.84</i>	4 <i>5.32</i>	0 <i>0.00</i>	0	70 <i>2.86</i>	
Pulmonary valve atresia and stenosis	253 <i>12.84</i>	2 <i>12.05</i>	35 <i>10.34</i>	9 <i>11.96</i>	2 <i>6.21</i>	0	301 <i>12.29</i>	

Utah**Birth Defects Counts and Rates 2000-2004**

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Pyloric stenosis	256 12.99	0 0.00	52 15.37	4 5.32	0 0.00	0	312 12.74	
Rectal and large intestinal atresia/stenosis	67 3.40	0 0.00	10 2.96	4 5.32	0 0.00	0	81 3.31	
Reduction deformity, lower limbs	38 1.93	0 0.00	5 1.48	0 0.00	0 0.00	0	43 1.76	
Reduction deformity, upper limbs	115 5.84	0 0.00	21 6.21	7 9.30	1 3.10	0	144 5.88	
Renal agenesis/hypoplasia	70 3.55	0 0.00	8 2.36	5 6.65	1 3.10	0	84 3.43	
Spina bifida without anencephalus	87 4.42	0 0.00	22 6.50	2 2.66	0 0.00	0	111 4.53	
Tetralogy of Fallot	57 2.89	0 0.00	9 2.66	0 0.00	1 3.10	1	68 2.78	
Transposition of great arteries	96 4.87	2 12.05	17 5.02	3 3.99	3 9.31	0	121 4.94	
Tricuspid valve atresia and stenosis	30 1.52	1 6.02	7 2.07	1 1.33	1 3.10	0	40 1.63	
Trisomy 13 (Patau syndrome)	32 1.62	0 0.00	7 2.07	1 1.33	1 3.10	1	42 1.72	
Trisomy 18 (Edwards syndrome)	62 3.15	0 0.00	17 5.02	2 2.66	0 0.00	1	82 3.35	
Ventricular septal defect	84 10.43	0 0.00	20 14.00	4 12.84	1 8.24	0	109 10.85	+
Total Live Births	197032	1660	33839	7523	3223		244873	

Utah**Trisomy Counts and Rates by Maternal Age 2000-2004**

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total (**)
Down syndrome (Trisomy 21)	231 10.35	153 70.82	384 15.68
Trisomy 13 (Patau syndrome)	31 1.39	11 5.09	42 1.72
Trisomy 18 (Edwards syndrome)	51 2.28	31 14.35	82 3.35
Total Live Births	223256	21604	244873

(**) Total includes unknown age

(+)Notes:

1: Ventricular septal defect data are only reported for 2003-2004; Utah includes only perimembranous VSD that are positively verified by echocardiogram beginning in 2003.

Virginia
Birth Defects Counts and Rates 2000-2004
(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Amniotic bands	1 <i>0.03</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.02</i>	
Anencephalus	2 <i>0.06</i>	1 <i>0.09</i>	1 <i>0.21</i>	0 <i>0.00</i>	0 <i>0.00</i>	11 <i>0.00</i>	15 <i>0.30</i>	
Aniridia	1 <i>0.03</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>0.00</i>	3 <i>0.06</i>	
Anophthalmia/ microphthalmia	5 <i>0.16</i>	1 <i>0.09</i>	1 <i>0.21</i>	0 <i>0.00</i>	0 <i>0.00</i>	11 <i>0.00</i>	18 <i>0.36</i>	
Anotia/microtia	2 <i>0.06</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	10 <i>0.00</i>	12 <i>0.24</i>	
Aortic valve stenosis	9 <i>0.29</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.34</i>	0 <i>0.00</i>	44 <i>0.00</i>	54 <i>1.08</i>	
Atrial septal defect	353 <i>11.42</i>	94 <i>8.60</i>	50 <i>10.29</i>	20 <i>6.89</i>	0 <i>0.00</i>	2162 <i>0.00</i>	2679 <i>53.47</i>	
Biliary atresia	5 <i>0.16</i>	3 <i>0.27</i>	1 <i>0.21</i>	1 <i>0.34</i>	0 <i>0.00</i>	33 <i>0.00</i>	43 <i>0.86</i>	
Bladder exstrophy	1 <i>0.03</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>0.00</i>	3 <i>0.06</i>	
Choanal atresia	14 <i>0.45</i>	1 <i>0.09</i>	1 <i>0.21</i>	1 <i>0.34</i>	0 <i>0.00</i>	46 <i>0.00</i>	63 <i>1.26</i>	
Cleft lip with and without cleft palate	86 <i>2.78</i>	16 <i>1.46</i>	17 <i>3.50</i>	5 <i>1.72</i>	0 <i>0.00</i>	346 <i>0.00</i>	470 <i>9.38</i>	+
Cleft palate without cleft lip	38 <i>1.23</i>	7 <i>0.64</i>	2 <i>0.41</i>	3 <i>1.03</i>	0 <i>0.00</i>	255 <i>0.00</i>	305 <i>6.09</i>	+
Coarctation of aorta	40 <i>1.29</i>	4 <i>0.37</i>	1 <i>0.21</i>	4 <i>1.38</i>	0 <i>0.00</i>	163 <i>0.00</i>	212 <i>4.23</i>	
Common truncus	2 <i>0.06</i>	5 <i>0.46</i>	0 <i>0.00</i>	2 <i>0.69</i>	0 <i>0.00</i>	34 <i>0.00</i>	43 <i>0.86</i>	
Congenital cataract	8 <i>0.26</i>	3 <i>0.27</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	29 <i>0.00</i>	40 <i>0.80</i>	
Congenital hip dislocation	84 <i>2.72</i>	8 <i>0.73</i>	4 <i>0.82</i>	3 <i>1.03</i>	0 <i>0.00</i>	205 <i>0.00</i>	304 <i>6.07</i>	
Diaphragmatic hernia	20 <i>0.65</i>	4 <i>0.37</i>	0 <i>0.00</i>	1 <i>0.34</i>	0 <i>0.00</i>	77 <i>0.00</i>	102 <i>2.04</i>	
Down syndrome (Trisomy 21)	138 <i>4.46</i>	40 <i>3.66</i>	11 <i>2.26</i>	8 <i>2.76</i>	0 <i>0.00</i>	364 <i>0.00</i>	561 <i>11.20</i>	
Ebstein anomaly	6 <i>0.19</i>	0 <i>0.00</i>	1 <i>0.21</i>	0 <i>0.00</i>	0 <i>0.00</i>	30 <i>0.00</i>	37 <i>0.74</i>	
Encephalocele	4 <i>0.13</i>	2 <i>0.18</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	20 <i>0.00</i>	26 <i>0.52</i>	
Endocardial cushion defect	37 <i>1.20</i>	12 <i>1.10</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	129 <i>0.00</i>	178 <i>3.55</i>	
Esophageal atresia/ tracheoesophageal fistula	26 <i>0.84</i>	6 <i>0.55</i>	2 <i>0.41</i>	1 <i>0.34</i>	0 <i>0.00</i>	59 <i>0.00</i>	94 <i>1.88</i>	
Fetus or newborn affected by maternal alcohol use	4 <i>0.13</i>	7 <i>0.64</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	33 <i>0.00</i>	44 <i>0.88</i>	
Hirschsprung disease (congenital megacolon)	12 <i>0.39</i>	12 <i>1.10</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	84 <i>0.00</i>	108 <i>2.16</i>	
Hydrocephalus without Spina Bifida	35 <i>1.13</i>	28 <i>2.56</i>	3 <i>0.62</i>	0 <i>0.00</i>	0 <i>0.00</i>	136 <i>0.00</i>	202 <i>4.03</i>	
Hypoplastic left heart syndrome	18 <i>0.58</i>	2 <i>0.18</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	88 <i>0.00</i>	108 <i>2.16</i>	
Hypospadias and Epispadias	166 <i>5.37</i>	52 <i>4.76</i>	5 <i>1.03</i>	5 <i>1.72</i>	0 <i>0.00</i>	809 <i>0.00</i>	1037 <i>20.70</i>	
Microcephalus	27 <i>0.87</i>	16 <i>1.46</i>	4 <i>0.82</i>	3 <i>1.03</i>	0 <i>0.00</i>	152 <i>0.00</i>	202 <i>4.03</i>	
Obstructive genitourinary defect	58 <i>1.88</i>	20 <i>1.83</i>	8 <i>1.65</i>	5 <i>1.72</i>	0 <i>0.00</i>	534 <i>0.00</i>	625 <i>12.47</i>	+
Patent ductus arteriosus	440 <i>14.23</i>	208 <i>19.02</i>	58 <i>11.94</i>	27 <i>9.31</i>	0 <i>0.00</i>	2855 <i>0.00</i>	3588 <i>71.61</i>	

Virginia

Birth Defects Counts and Rates 2000-2004

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Pulmonary valve atresia and stenosis	63 2.04	33 3.02	13 2.68	3 1.03	0 0.00	423	535 10.68	
Pyloric stenosis	74 2.39	11 1.01	4 0.82	2 0.69	0 0.00	564	655 13.07	
Rectal and large intestinal atresia/stenosis	31 1.00	7 0.64	1 0.21	2 0.69	0 0.00	116	157 3.13	
Reduction deformity, lower limbs	13 0.42	0 0.00	0 0.00	0 0.00	0 0.00	42	55 1.10	
Reduction deformity, upper limbs	14 0.45	3 0.27	0 0.00	0 0.00	0 0.00	56	73 1.46	
Renal agenesis/hypoplasia	26 0.84	6 0.55	4 0.82	0 0.00	1 16.21	88	125 2.49	
Spina bifida without anencephalus	10 0.32	1 0.09	2 0.41	0 0.00	0 0.00	133	146 2.91	+
Tetralogy of Fallot	45 1.46	11 1.01	2 0.41	0 0.00	0 0.00	164	222 4.43	
Transposition of great arteries	28 0.91	7 0.64	3 0.62	0 0.00	0 0.00	159	197 3.93	
Tricuspid valve atresia and stenosis	7 0.23	3 0.27	0 0.00	2 0.69	0 0.00	36	48 0.96	
Trisomy 13 (Patau syndrome)	2 0.06	5 0.46	0 0.00	0 0.00	0 0.00	29	36 0.72	
Trisomy 18 (Edwards syndrome)	3 0.10	1 0.09	0 0.00	0 0.00	0 0.00	39	43 0.86	
Ventricular septal defect	251 8.12	65 5.94	28 5.76	13 4.48	0 0.00	1315	1672 33.37	
Total Live Births	309211	109352	48582	29010	617		501021	

Virginia

Trisomy Counts and Rates by Maternal Age 2000-2004

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total (**)
Down syndrome (Trisomy 21)	209 4.97	206 25.78	561 11.20
Trisomy 13 (Patau syndrome)	21 0.50	7 0.88	36 0.72
Trisomy 18 (Edwards syndrome)	18 0.43	13 1.63	43 0.86
Total Live Births	420856	79917	501021

(**) Total includes unknown age

(+)Notes:

- 1: 2001-2002, Spina bifida without anencephalus, **Updated via Data Mart using extract from VaCARES due to under-reporting in previous years
- 2: 2001-2002, Cleft palate without cleft lip, **Updated via Data Mart using extract from VaCARES due to under-reporting in previous years
- 3: 2001-2002, Cleft lip with and without cleft palate, **Updated via Data Mart using extract from VaCARES due to under-reporting in previous years
- 4: 2001-2002, Obstructive genitourinary defect, **Updated via Data Mart using extract from VaCARES due to under-reporting in previous years

West Virginia
Birth Defects Counts and Rates 2000-2004
(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Anencephalus	14	1	0	0	0	0	15	
	1.60	3.06	0.00	0.00	0.00	0.00	1.62	
Aniridia	4	0	0	0	0	0	4	
	0.46	0.00	0.00	0.00	0.00	0.00	0.43	
Anophthalmia/ microphthalmia	4	0	0	0	0	0	4	
	0.46	0.00	0.00	0.00	0.00	0.00	0.43	
Anotia/microtia	3	0	0	0	0	0	3	
	0.34	0.00	0.00	0.00	0.00	0.00	0.32	
Aortic valve stenosis	18	0	0	0	0	0	18	
	2.05	0.00	0.00	0.00	0.00	0.00	1.94	
Atrial septal defect	613	22	2	2	1	8	648	
	69.92	67.28	40.32	28.61	125.00		69.79	
Biliary atresia	5	0	0	0	0	0	5	
	0.57	0.00	0.00	0.00	0.00	0.00	0.54	
Bladder exstrophy	1	0	0	0	0	0	1	
	0.11	0.00	0.00	0.00	0.00	0.00	0.11	
Choanal atresia	6	0	0	0	0	0	6	
	0.68	0.00	0.00	0.00	0.00	0.00	0.65	
Cleft lip with and without cleft palate	12	0	0	0	0	0	12	
	1.37	0.00	0.00	0.00	0.00	0.00	1.29	
Cleft palate without cleft lip	39	1	0	0	0	0	40	
	4.45	3.06	0.00	0.00	0.00	0.00	4.31	
Coarctation of aorta	42	3	0	0	0	0	45	
	4.79	9.17	0.00	0.00	0.00	0.00	4.85	
Common truncus	15	1	0	0	0	0	16	
	1.71	3.06	0.00	0.00	0.00	0.00	1.72	
Congenital cataract	1	0	0	0	0	0	1	
	0.11	0.00	0.00	0.00	0.00	0.00	0.11	
Congenital hip dislocation	20	0	0	0	0	0	20	
	2.28	0.00	0.00	0.00	0.00	0.00	2.15	
Diaphragmatic hernia	18	1	0	0	0	0	19	
	2.05	3.06	0.00	0.00	0.00	0.00	2.05	
Down syndrome (Trisomy 21)	85	6	0	1	0	2	94	
	9.70	18.35	0.00	14.31	0.00		10.12	
Ebstein anomaly	5	0	0	0	0	0	5	
	0.57	0.00	0.00	0.00	0.00	0.00	0.54	
Encephalocele	2	1	0	0	0	0	3	
	0.23	3.06	0.00	0.00	0.00	0.00	0.32	
Endocardial cushion defect	25	2	0	0	0	0	27	
	2.85	6.12	0.00	0.00	0.00	0.00	2.91	
Esophageal atresia/ tracheoesophageal fistula	12	2	0	0	0	0	14	
	1.37	6.12	0.00	0.00	0.00	0.00	1.51	
Fetus or newborn affected by maternal alcohol use	19	1	0	0	0	8	28	
	2.17	3.06	0.00	0.00	0.00	0.00	3.02	
Gastroschisis	43	2	0	0	0	0	45	
	4.90	6.12	0.00	0.00	0.00	0.00	4.85	
Hirschsprung disease (congenital megacolon)	12	0	0	0	0	0	12	
	1.37	0.00	0.00	0.00	0.00	0.00	1.29	
Hydrocephalus without Spina Bifida	34	1	0	0	0	0	35	
	3.88	3.06	0.00	0.00	0.00	0.00	3.77	
Hypoplastic left heart syndrome	17	2	0	0	0	0	19	
	1.94	6.12	0.00	0.00	0.00	0.00	2.05	
Hypospadias and Epispadias	1	0	0	1	0	0	2	
	0.11	0.00	0.00	14.31	0.00	0.00	0.22	
Microcephalus	49	4	0	0	0	2	55	
	5.59	12.23	0.00	0.00	0.00	0.00	5.92	
Obstructive genitourinary defect	93	3	0	2	0	1	99	
	10.61	9.17	0.00	28.61	0.00	0.00	10.66	
Patent ductus arteriosus	172	4	0	0	0	0	176	
	19.62	12.23	0.00	0.00	0.00	0.00	18.96	

West Virginia
Birth Defects Counts and Rates 2000-2004
 (Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Pulmonary valve atresia and stenosis	54 6.16	0 0.00	0 0.00	0 0.00	1 125.00	0	55 5.92	
Pyloric stenosis	52 5.93	1 3.06	0 0.00	0 0.00	0 0.00	0	53 5.71	
Rectal and large intestinal atresia/stenosis	30 3.42	1 3.06	0 0.00	0 0.00	0 0.00	0	31 3.34	
Reduction deformity, lower limbs	4 0.46	0 0.00	0 0.00	0 0.00	0 0.00	0	4 0.43	
Reduction deformity, upper limbs	3 0.34	0 0.00	0 0.00	0 0.00	0 0.00	0	3 0.32	
Renal agenesis/hypoplasia	19 2.17	1 3.06	0 0.00	0 0.00	0 0.00	0	20 2.15	
Spina bifida without anencephalus	40 4.56	0 0.00	0 0.00	0 0.00	0 0.00	0	40 4.31	
Tetralogy of Fallot	37 4.22	1 3.06	0 0.00	1 14.31	0 0.00	1	40 4.31	
Transposition of great arteries	34 3.88	2 6.12	0 0.00	0 0.00	0 0.00	1	37 3.99	
Tricuspid valve atresia and stenosis	8 0.91	0 0.00	0 0.00	0 0.00	0 0.00	0	8 0.86	
Trisomy 13 (Patau syndrome)	3 0.34	1 3.06	1 20.16	0 0.00	0 0.00	0	5 0.54	
Trisomy 18 (Edwards syndrome)	5 0.57	0 0.00	0 0.00	0 0.00	0 0.00	0	5 0.54	
Ventricular septal defect	205 23.38	5 15.29	0 0.00	1 14.31	0 0.00	3	214 23.05	
Total Live Births	87673	3270	496	699	80		92844	

West Virginia
Trisomy Counts and Rates by Maternal Age 2000-2004
 (Rates per 10,000 Live Births)

Defect	Age			Total (**)
	<35	35 and >		
Down syndrome (Trisomy 21)	60 7.05	34 44.20		94 10.12
Trisomy 13 (Patau syndrome)	1 0.12	4 5.20		5 0.54
Trisomy 18 (Edwards syndrome)	3 0.35	2 2.60		5 0.54
Total Live Births	85152	7692		92844

(**) Total includes unknown age

Wisconsin
Birth Defects Counts and Rates 2000-2004
(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Anencephalus	33 <i>1.31</i>	2 <i>0.64</i>	7 <i>2.74</i>	1 <i>0.92</i>	0 <i>0.00</i>	1 <i>0.00</i>	44 <i>1.36</i>	+
Aniridia	3 <i>0.12</i>	1 <i>0.32</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	4 <i>0.12</i>	
Anophthalmia/ microphthalmia	9 <i>0.36</i>	1 <i>0.32</i>	2 <i>0.78</i>	1 <i>0.92</i>	0 <i>0.00</i>	0 <i>0.00</i>	13 <i>0.40</i>	
Anotia/microtia	7 <i>0.28</i>	0 <i>0.00</i>	2 <i>0.78</i>	0 <i>0.00</i>	1 <i>2.19</i>	0 <i>0.00</i>	10 <i>0.31</i>	
Aortic valve stenosis	21 <i>0.83</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>4.37</i>	0 <i>0.00</i>	23 <i>0.71</i>	
Atrial septal defect	638 <i>25.32</i>	105 <i>33.34</i>	52 <i>20.35</i>	22 <i>20.19</i>	24 <i>52.49</i>	0 <i>0.00</i>	841 <i>25.91</i>	
Biliary atresia	1 <i>0.04</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.03</i>	
Bladder exstrophy	11 <i>0.44</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	11 <i>0.34</i>	
Choanal atresia	32 <i>1.27</i>	0 <i>0.00</i>	6 <i>2.35</i>	2 <i>1.84</i>	0 <i>0.00</i>	0 <i>0.00</i>	40 <i>1.23</i>	
Cleft lip with and without cleft palate	243 <i>9.64</i>	13 <i>4.13</i>	24 <i>9.39</i>	10 <i>9.18</i>	9 <i>19.69</i>	0 <i>0.00</i>	299 <i>9.21</i>	
Cleft palate without cleft lip	173 <i>6.86</i>	11 <i>3.49</i>	18 <i>7.04</i>	4 <i>3.67</i>	6 <i>13.12</i>	0 <i>0.00</i>	212 <i>6.53</i>	
Coarctation of aorta	42 <i>1.67</i>	0 <i>0.00</i>	5 <i>1.96</i>	2 <i>1.84</i>	1 <i>2.19</i>	0 <i>0.00</i>	50 <i>1.54</i>	
Common truncus	3 <i>0.12</i>	2 <i>0.64</i>	3 <i>1.17</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	8 <i>0.25</i>	
Congenital cataract	22 <i>0.87</i>	3 <i>0.95</i>	4 <i>1.57</i>	1 <i>0.92</i>	0 <i>0.00</i>	0 <i>0.00</i>	30 <i>0.92</i>	
Congenital hip dislocation	272 <i>10.79</i>	18 <i>5.72</i>	21 <i>8.22</i>	9 <i>8.26</i>	2 <i>4.37</i>	0 <i>0.00</i>	322 <i>9.92</i>	
Diaphragmatic hernia	60 <i>2.38</i>	12 <i>3.81</i>	6 <i>2.35</i>	1 <i>0.92</i>	0 <i>0.00</i>	0 <i>0.00</i>	79 <i>2.43</i>	
Down syndrome (Trisomy 21)	282 <i>11.19</i>	19 <i>6.03</i>	34 <i>13.31</i>	12 <i>11.01</i>	6 <i>13.12</i>	0 <i>0.00</i>	353 <i>10.87</i>	
Ebstein anomaly	13 <i>0.52</i>	1 <i>0.32</i>	1 <i>0.39</i>	1 <i>0.92</i>	0 <i>0.00</i>	0 <i>0.00</i>	16 <i>0.49</i>	
Encephalocele	13 <i>0.52</i>	5 <i>1.59</i>	3 <i>1.17</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	21 <i>0.65</i>	
Endocardial cushion defect	34 <i>1.35</i>	4 <i>1.27</i>	3 <i>1.17</i>	1 <i>0.92</i>	1 <i>2.19</i>	0 <i>0.00</i>	43 <i>1.32</i>	
Esophageal atresia/ tracheoesophageal fistula	43 <i>1.71</i>	5 <i>1.59</i>	4 <i>1.57</i>	1 <i>0.92</i>	1 <i>2.19</i>	0 <i>0.00</i>	54 <i>1.66</i>	
Fetus or newborn affected by maternal alcohol use	18 <i>0.71</i>	29 <i>9.21</i>	1 <i>0.39</i>	0 <i>0.00</i>	4 <i>8.75</i>	0 <i>0.00</i>	52 <i>1.60</i>	
Hirschsprung disease (congenital megacolon)	16 <i>0.63</i>	1 <i>0.32</i>	2 <i>0.78</i>	1 <i>0.92</i>	1 <i>2.19</i>	0 <i>0.00</i>	21 <i>0.65</i>	
Hydrocephalus without Spina Bifida	67 <i>2.66</i>	24 <i>7.62</i>	9 <i>3.52</i>	3 <i>2.75</i>	4 <i>8.75</i>	0 <i>0.00</i>	107 <i>3.30</i>	
Hypoplastic left heart syndrome	34 <i>1.35</i>	4 <i>1.27</i>	2 <i>0.78</i>	0 <i>0.00</i>	2 <i>4.37</i>	0 <i>0.00</i>	42 <i>1.29</i>	
Hypospadias and Epispadias	874 <i>34.68</i>	93 <i>29.53</i>	32 <i>12.52</i>	16 <i>14.68</i>	7 <i>15.31</i>	0 <i>0.00</i>	1022 <i>31.48</i>	
Microcephalus	35 <i>1.39</i>	17 <i>5.40</i>	4 <i>1.57</i>	1 <i>0.92</i>	0 <i>0.00</i>	0 <i>0.00</i>	57 <i>1.76</i>	
Obstructive genitourinary defect	408 <i>16.19</i>	38 <i>12.07</i>	33 <i>12.91</i>	13 <i>11.93</i>	8 <i>17.50</i>	1 <i>0.00</i>	501 <i>15.43</i>	
Patent ductus arteriosus	646 <i>25.63</i>	75 <i>23.81</i>	59 <i>23.09</i>	16 <i>14.68</i>	22 <i>48.12</i>	0 <i>0.00</i>	818 <i>25.20</i>	+
Pulmonary valve atresia and stenosis	87 <i>3.45</i>	33 <i>10.48</i>	11 <i>4.30</i>	2 <i>1.84</i>	2 <i>4.37</i>	0 <i>0.00</i>	135 <i>4.16</i>	

Wisconsin Birth Defects Counts and Rates 2000-2004

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Pyloric stenosis	3 <i>0.12</i>	2 <i>0.64</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	5 <i>0.15</i>	
Rectal and large intestinal atresia/stenosis	74 <i>2.94</i>	11 <i>3.49</i>	5 <i>1.96</i>	5 <i>4.59</i>	1 <i>2.19</i>	0	96 <i>2.96</i>	
Reduction deformity, lower limbs	33 <i>1.31</i>	3 <i>0.95</i>	3 <i>1.17</i>	0 <i>0.00</i>	1 <i>2.19</i>	0	40 <i>1.23</i>	
Reduction deformity, upper limbs	67 <i>2.66</i>	8 <i>2.54</i>	7 <i>2.74</i>	2 <i>1.84</i>	3 <i>6.56</i>	0	87 <i>2.68</i>	
Renal agenesis/hypoplasia	65 <i>2.58</i>	12 <i>3.81</i>	6 <i>2.35</i>	0 <i>0.00</i>	3 <i>6.56</i>	0	86 <i>2.65</i>	
Spina bifida without anencephalus	69 <i>2.74</i>	8 <i>2.54</i>	7 <i>2.74</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	84 <i>2.59</i>	+
Tetralogy of Fallot	43 <i>1.71</i>	6 <i>1.91</i>	5 <i>1.96</i>	4 <i>3.67</i>	2 <i>4.37</i>	0	60 <i>1.85</i>	
Transposition of great arteries	46 <i>1.83</i>	2 <i>0.64</i>	3 <i>1.17</i>	1 <i>0.92</i>	2 <i>4.37</i>	0	54 <i>1.66</i>	
Tricuspid valve atresia and stenosis	16 <i>0.63</i>	2 <i>0.64</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	18 <i>0.55</i>	
Trisomy 13 (Patau syndrome)	12 <i>0.48</i>	2 <i>0.64</i>	2 <i>0.78</i>	2 <i>1.84</i>	1 <i>2.19</i>	0	19 <i>0.59</i>	
Trisomy 18 (Edwards syndrome)	29 <i>1.15</i>	5 <i>1.59</i>	1 <i>0.39</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	35 <i>1.08</i>	
Ventricular septal defect	622 <i>24.68</i>	46 <i>14.61</i>	66 <i>25.83</i>	22 <i>20.19</i>	17 <i>37.18</i>	0	773 <i>23.81</i>	+
Total Live Births	252023	31494	25552	10897	4572		324626	

Wisconsin Trisomy Counts and Rates by Maternal Age 2000-2004

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total (**)
Down syndrome (Trisomy 21)	177 <i>6.30</i>	176 <i>40.45</i>	353 <i>10.87</i>
Trisomy 13 (Patau syndrome)	17 <i>0.60</i>	2 <i>0.46</i>	19 <i>0.59</i>
Trisomy 18 (Edwards syndrome)	17 <i>0.60</i>	18 <i>4.14</i>	35 <i>1.08</i>
Total Live Births	281100	43515	324626

(+)Notes:

- 1: Infants weighing less than 2500 grams are excluded from the patent ductus arteriosus counts.
- 2: No cases of spina bifida without anencephalus were found in the fetal death files.
- 3: No data on terminations are available.
- 4: Stillbirths are from the Fetal Death Reporting File, which includes fetal deaths with gestational age greater than 20 weeks.
- 5: The 2006 report used only the newborn hospitalizations and so lacked a measure of mother's age.
- 6: The birth record contributes state residency, mother's race and age, and birth weight.
- 7: The hospital discharge record contributes ICD-9 diagnosis codes (principal and up to eight other diagnoses).
- 8: This report uses the Wisconsin Linked Birth Event File, consisting of matched birth and newborn hospital discharge records.
- 9: Ventricular septal defects are those with any diagnosis code 7454 through 74549.
- 10: 2000-2004, Anencephalus, Includes live births and still births
- 11: 2000-2004, Spina bifida without anencephalus, Includes live births and still births

Department of Defense
Birth Defects Counts and Rates 2000-2004
(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Anencephalus	51 <i>1.65</i>	15 <i>1.78</i>	4 <i>0.88</i>	6 <i>3.43</i>	2 <i>3.42</i>	4 <i>1.66</i>	82 <i>1.66</i>	
Aniridia	13 <i>0.42</i>	3 <i>0.36</i>	1 <i>0.22</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.36</i>	18 <i>0.36</i>	
Anophthalmia/ microphthalmia	137 <i>4.43</i>	34 <i>4.04</i>	18 <i>3.96</i>	1 <i>0.57</i>	4 <i>6.83</i>	10 <i>4.13</i>	204 <i>4.13</i>	
Anotia/microtia	79 <i>2.55</i>	11 <i>1.31</i>	18 <i>3.96</i>	13 <i>7.42</i>	4 <i>6.83</i>	5 <i>2.63</i>	130 <i>2.63</i>	
Aortic valve stenosis	183 <i>5.91</i>	30 <i>3.56</i>	20 <i>4.40</i>	6 <i>3.43</i>	2 <i>3.42</i>	17 <i>5.22</i>	258 <i>5.22</i>	
Biliary atresia	67 <i>2.16</i>	17 <i>2.02</i>	8 <i>1.76</i>	3 <i>1.71</i>	3 <i>5.13</i>	8 <i>2.14</i>	106 <i>2.14</i>	
Bladder exstrophy	18 <i>0.58</i>	7 <i>0.83</i>	2 <i>0.44</i>	1 <i>0.57</i>	0 <i>0.00</i>	1 <i>0.59</i>	29 <i>0.59</i>	
Choanal atresia	110 <i>3.55</i>	27 <i>3.21</i>	10 <i>2.20</i>	1 <i>0.57</i>	0 <i>0.00</i>	8 <i>3.16</i>	156 <i>3.16</i>	
Cleft lip with and without cleft palate	506 <i>16.35</i>	56 <i>6.65</i>	58 <i>12.76</i>	27 <i>15.42</i>	14 <i>23.92</i>	29 <i>13.96</i>	690 <i>13.96</i>	
Cleft palate without cleft lip	525 <i>16.96</i>	77 <i>9.15</i>	62 <i>13.64</i>	25 <i>14.28</i>	11 <i>18.79</i>	36 <i>14.89</i>	736 <i>14.89</i>	
Coarctation of aorta	332 <i>10.73</i>	65 <i>7.72</i>	39 <i>8.58</i>	11 <i>6.28</i>	2 <i>3.42</i>	26 <i>9.61</i>	475 <i>9.61</i>	
Common truncus	96 <i>3.10</i>	21 <i>2.49</i>	11 <i>2.42</i>	6 <i>3.43</i>	1 <i>1.71</i>	7 <i>2.87</i>	142 <i>2.87</i>	
Congenital cataract	152 <i>4.91</i>	59 <i>7.01</i>	14 <i>3.08</i>	8 <i>4.57</i>	3 <i>5.13</i>	13 <i>5.04</i>	249 <i>5.04</i>	
Congenital hip dislocation	1553 <i>50.18</i>	250 <i>29.70</i>	202 <i>44.44</i>	69 <i>39.40</i>	28 <i>47.84</i>	124 <i>45.04</i>	2226 <i>45.04</i>	
Diaphragmatic hernia	160 <i>5.17</i>	42 <i>4.99</i>	23 <i>5.06</i>	7 <i>4.00</i>	7 <i>11.96</i>	12 <i>5.08</i>	251 <i>5.08</i>	
Down syndrome (Trisomy 21)	462 <i>14.93</i>	118 <i>14.02</i>	68 <i>14.96</i>	28 <i>15.99</i>	10 <i>17.09</i>	69 <i>15.28</i>	755 <i>15.28</i>	
Ebstein anomaly	68 <i>2.20</i>	5 <i>0.59</i>	7 <i>1.54</i>	1 <i>0.57</i>	1 <i>1.71</i>	3 <i>1.72</i>	85 <i>1.72</i>	
Encephalocele	72 <i>2.33</i>	25 <i>2.97</i>	9 <i>1.98</i>	5 <i>2.86</i>	2 <i>3.42</i>	6 <i>2.41</i>	119 <i>2.41</i>	
Endocardial cushion defect	265 <i>8.56</i>	65 <i>7.72</i>	25 <i>5.50</i>	9 <i>5.14</i>	6 <i>10.25</i>	30 <i>8.09</i>	400 <i>8.09</i>	
Esophageal atresia/ tracheoesophageal fistula	111 <i>3.59</i>	26 <i>3.09</i>	14 <i>3.08</i>	3 <i>1.71</i>	2 <i>3.42</i>	6 <i>3.28</i>	162 <i>3.28</i>	
Fetus or newborn affected by maternal alcohol use	17 <i>0.55</i>	9 <i>1.07</i>	2 <i>0.44</i>	0 <i>0.00</i>	0 <i>0.00</i>	4 <i>0.65</i>	32 <i>0.65</i>	
Hirschsprung disease (congenital megacolon)	203 <i>6.56</i>	77 <i>9.15</i>	24 <i>5.28</i>	9 <i>5.14</i>	2 <i>3.42</i>	20 <i>6.78</i>	335 <i>6.78</i>	
Hydrocephalus without Spina Bifida	498 <i>16.09</i>	154 <i>18.29</i>	69 <i>15.18</i>	14 <i>7.99</i>	8 <i>13.67</i>	46 <i>15.96</i>	789 <i>15.96</i>	
Hypoplastic left heart syndrome	170 <i>5.49</i>	45 <i>5.35</i>	24 <i>5.28</i>	4 <i>2.28</i>	1 <i>1.71</i>	11 <i>5.16</i>	255 <i>5.16</i>	
Hypospadias and Epispadias	1904 <i>61.52</i>	470 <i>55.83</i>	187 <i>41.14</i>	88 <i>50.25</i>	34 <i>58.09</i>	164 <i>57.60</i>	2847 <i>57.60</i>	
Microcephalus	531 <i>17.16</i>	164 <i>19.48</i>	71 <i>15.62</i>	19 <i>10.85</i>	4 <i>6.83</i>	37 <i>16.71</i>	826 <i>16.71</i>	
Obstructive genitourinary defect	1433 <i>46.30</i>	282 <i>33.50</i>	191 <i>42.02</i>	65 <i>37.12</i>	24 <i>41.00</i>	112 <i>42.63</i>	2107 <i>42.63</i>	
Pulmonary valve atresia and stenosis	998 <i>32.25</i>	420 <i>49.89</i>	165 <i>36.30</i>	60 <i>34.26</i>	17 <i>29.04</i>	83 <i>35.26</i>	1743 <i>35.26</i>	
Pyloric stenosis	1215 <i>39.26</i>	168 <i>19.96</i>	159 <i>34.98</i>	19 <i>10.85</i>	21 <i>35.88</i>	64 <i>33.30</i>	1646 <i>33.30</i>	
Rectal and large intestinal atresia/stenosis	268 <i>8.66</i>	62 <i>7.36</i>	28 <i>6.16</i>	9 <i>5.14</i>	4 <i>6.83</i>	24 <i>7.99</i>	395 <i>7.99</i>	

Department of Defense
Birth Defects Counts and Rates 2000-2004
(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes (+)
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Unknown/Other		
Reduction deformity, lower limbs	132 4.27	37 4.39	20 4.40	6 3.43	2 3.42	13	210 4.25	
Reduction deformity, upper limbs	137 4.43	35 4.16	21 4.62	8 4.57	3 5.13	11	215 4.35	
Renal agenesis/hypoplasia	205 6.62	42 4.99	28 6.16	5 2.86	6 10.25	17	303 6.13	
Spina bifida without anencephalus	263 8.50	41 4.87	37 8.14	4 2.28	3 5.13	26	374 7.57	
Tetralogy of Fallot	278 8.98	84 9.98	28 6.16	10 5.71	4 6.83	25	429 8.68	
Transposition of great arteries	239 7.72	41 4.87	24 5.28	13 7.42	2 3.42	19	338 6.84	
Tricuspid valve atresia and stenosis	84 2.71	17 2.02	13 2.86	5 2.86	0 0.00	6	125 2.53	
Trisomy 13 (Patau syndrome)	38 1.23	16 1.90	5 1.10	3 1.71	1 1.71	5	68 1.38	
Trisomy 18 (Edwards syndrome)	65 2.10	19 2.26	9 1.98	6 3.43	0 0.00	15	114 2.31	
Ventricular septal defect	2778 89.76	687 81.60	372 81.83	120 68.52	56 95.68	228	4241 85.80	+
Total Live Births	309477	84188	45458	17513	5853		494268	

Department of Defense
Trisomy Counts and Rates by Maternal Age 2000-2004
(Rates per 10,000 Live Births)

Defect	Age		Total (**)
	<35	35 and >	
Down syndrome (Trisomy 21)	500 11.51	232 53.19	755 15.28
Trisomy 13 (Patau syndrome)	53 1.22	15 3.44	68 1.38
Trisomy 18 (Edwards syndrome)	76 1.75	36 8.25	114 2.31
Total Live Births	434497	43617	494268

(**) Total includes unknown age

(+)Notes:

- 1: Still births are not captured by the DoD Registry.
- 2: Amniotic bands are not captured by DoD Registry.
- 3: Atrial septal defect is not reported; ICD-9-CM coding over-represents defect cases. Validation efforts are currently underway.
- 4: Patent ductus arteriosus is not reported; ICD-9-CM coding over-represents defect cases. Validation efforts are currently underway.
- 5: Still births are not captured by DoD Registry.
- 6: Ventricular septal defect, all cases included