

Birth Defects Surveillance Data from Selected States, 1995-1999

On the following pages, birth defects surveillance data are presented for 31 states. In this issue, state surveillance programs were requested to provide birth defects data for the time period January 1, 1995 through December 31, 1999, rather than include more historical data as in previous reports (NBDPN '97, '00, '01). This change was made to present the reader with the most current five-year data totals available and also to reflect the rather recent establishment of some of the state surveillance programs that were unable to provide more historical data.

State programs were asked to provide surveillance data on 45 specific birth defects as detailed in Appendix A on pages 218-219. Programs were asked to identify the occurrence of each specific defect for all live births, stillbirths and terminations (if collected), and data submitted were to be stratified by race/ethnic group and, for certain defects (trisomy 13, 18 and 21), by maternal age. To calculate rates, programs were asked to provide data on the number of live births for each calendar year requested.

Although an attempt was made to standardize both the request and presentation of state surveillance data, differences in the way programs collect and report birth defects data are listed in the footnotes in the accompanying tables and may be referenced in the program directories on pages 70-128. 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 either 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.

Differences in surveillance methodology among states preclude the ability to provide rates for all programs combined. New to the report this year is the presentation of program data by several race/ethnic groups. In addition, graphs displaying annual rates for neural tube defects (spina bifida and anencephaly) are included to highlight the trend in occurrence of these defects over the five-year period; state programs that could not provide annual rates for at least three consecutive years were not included (pages 212-217). For a more detailed presentation of other birth defects diagnoses by year, the reader is encouraged to visit the NBDPN web site at www.nbdpn.org/NBDPN.

The National Birth Defects Prevention Network would like to acknowledge the state surveillance programs that submitted data for this report as well as Cara Mai and Roy Ing at the Centers for Disease Control and Prevention for their efforts in compiling and formatting the data tables and graphs presented.

LITERATURE CITED

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- National Birth Defects Prevention Network (NBDPN). 2000. Congenital malformations surveillance report. *Teratology* 61(1):86-158
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Alabama

Birth Defects Counts and Rates 1998-1999

(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	Other/Unknown		
Amniotic bands	0	0	0	0	0	0	0	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Anencephalus	3	2	0	0	0	0	5	
	2.99	3.53	0.00	0.00	0.00	0.00	3.11	
Aniridia	2	0	0	0	0	0	2	
	1.99	0.00	0.00	0.00	0.00	0.00	1.24	
Anophthalmia/ microphthalmia	2	4	0	0	0	0	6	
	1.99	7.06	0.00	0.00	0.00	0.00	3.73	
Anotia/microtia	0	2	0	0	0	0	2	
	0.00	3.53	0.00	0.00	0.00	0.00	1.24	
Aortic valve stenosis	1	1	0	1	0	0	3	
	1.00	1.77	0.00	98.04	0.00	0.00	1.86	
Atrial septal defect	20	10	0	1	0	0	31	Isolated cases not reported
	19.91	17.66	0.00	98.04	0.00	0.00	19.27	
Biliary atresia	0	1	0	0	0	0	1	
	0.00	1.77	0.00	0.00	0.00	0.00	0.62	
Bladder exstrophy	0	1	0	0	0	0	1	
	0.00	1.77	0.00	0.00	0.00	0.00	0.62	
Choanal atresia	0	1	0	0	0	0	1	
	0.00	1.77	0.00	0.00	0.00	0.00	0.62	
Cleft lip with and without cleft palate	12	4	0	0	0	0	16	
	11.95	7.06	0.00	0.00	0.00	0.00	9.94	
Cleft palate without cleft lip	11	1	0	1	0	0	13	
	10.95	1.77	0.00	98.04	0.00	0.00	8.08	
Coarctation of aorta	7	2	0	0	0	0	9	
	6.97	3.53	0.00	0.00	0.00	0.00	5.59	
Common truncus	0	2	0	0	0	0	2	
	0.00	3.53	0.00	0.00	0.00	0.00	1.24	
Congenital cataract	2	0	0	0	0	0	2	
	1.99	0.00	0.00	0.00	0.00	0.00	1.24	
Congenital hip dislocation	1	2	0	0	0	0	3	Isolated cases not reported
	1.00	3.53	0.00	0.00	0.00	0.00	1.86	
Diaphragmatic hernia	6	1	0	0	0	0	7	
	5.97	1.77	0.00	0.00	0.00	0.00	4.35	
Down syndrome	9	8	0	0	0	0	17	
	8.96	14.13	0.00	0.00	0.00	0.00	10.57	
Ebstein's anomaly	1	1	0	0	0	0	2	
	1.00	1.77	0.00	0.00	0.00	0.00	1.24	
Encephalocele	0	1	0	1	0	0	2	
	0.00	1.77	0.00	98.04	0.00	0.00	1.24	
Endocardial cushion defect	5	6	0	0	0	0	11	
	4.98	10.60	0.00	0.00	0.00	0.00	6.84	
Esophageal atresia/ tracheoesophageal fistula	3	1	0	0	0	0	4	
	2.99	1.77	0.00	0.00	0.00	0.00	2.49	
Fetal alcohol syndrome	0	2	0	0	0	0	2	
	0.00	3.53	0.00	0.00	0.00	0.00	1.24	

Alabama

Birth Defects Counts and Rates 1998-1999

(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	Other/Unknown		
Gastroschisis	5 4.98	2 3.53	0 0.00	2 196.08	0 0.00	0 0	9 5.59	
Hirschsprung's disease (congenital megacolon)	1 1.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0	1 0.62	
Hydrocephalus without Spina Bifida	10 9.96	5 8.83	0 0.00	0 0.00	0 0.00	0 0	15 9.32	
Hypoplastic left heart syndrome	2 1.99	2 3.53	0 0.00	0 0.00	0 0.00	0 0	4 2.49	
Hypospadias and Epispadias	17 16.93	4 7.06	0 0.00	0 0.00	0 0.00	0 0	21 13.05	Isolated 1st deg. hypospadias not reported
Microcephalus	8 7.97	6 10.60	0 0.00	1 98.04	0 0.00	0 0	15 9.32	
Obstructive genitourinary defect	19 18.92	16 28.26	0 0.00	0 0.00	0 0.00	0 0	35 21.75	
Omphalocele	4 3.98	0 0.00	0 0.00	0 0.00	0 0.00	0 0	4 2.49	
Pulmonary valve atresia and stenosis	7 6.97	4 7.06	0 0.00	0 0.00	0 0.00	0 0	11 6.84	
Pyloric stenosis	25 24.89	1 1.77	0 0.00	0 0.00	0 0.00	0 0	26 16.16	
Rectal and large intestinal atresia/stenosis	3 2.99	5 8.83	0 0.00	1 98.04	0 0.00	0 0	9 5.59	
Reduction deformity, lower limbs	0 0.00	2 3.53	0 0.00	1 98.04	0 0.00	0 0	3 1.86	
Reduction deformity, upper limbs	3 2.99	1 1.77	0 0.00	1 98.04	0 0.00	0 0	5 3.11	
Renal agenesis/hypoplasia	6 5.97	8 14.13	0 0.00	1 98.04	0 0.00	0 0	15 9.32	
Spina bifida without anencephalus	8 7.97	4 7.06	0 0.00	1 98.04	0 0.00	0 0	13 8.08	
Tetralogy of Fallot	9 8.96	4 7.06	0 0.00	0 0.00	0 0.00	0 0	13 8.08	
Transposition of great arteries	6 5.97	2 3.53	1 56.82	0 0.00	0 0.00	0 0	9 5.59	
Tricuspid valve atresia and stenosis	4 3.98	0 0.00	0 0.00	0 0.00	0 0.00	0 0	4 2.49	
Trisomy 13	5 4.98	1 1.77	0 0.00	0 0.00	0 0.00	0 0	6 3.73	
Trisomy 18	3 2.99	2 3.53	0 0.00	0 0.00	0 0.00	0 0	5 3.11	
Ventricular septal defect	15 14.94	11 19.43	1 56.82	0 0.00	0 0.00	0 0	27 16.78	Isolated cases not reported
Total Live Births	10,043	5,662	176	102	92		16,090	

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Alabama

Trisomy Counts and Rates by Maternal Age 1998

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	2 2.73	5 66.76	7 8.68
Trisomy 13	4 5.47	0 0.00	4 4.96
Trisomy 18	2 2.73	0 0.00	2 2.48
Total Live Births	7,314	749	8,063

* Total includes unknown age

Notes:

1. Notes for trisomy data: a) population-based data were not collected from 1995-1997; b) BPA coding was utilized; and c) live births, still births, miscarriages, and elective abortions at any gestational age are included for all cases.

Alaska

Birth Defects Counts and Rates 1996-1998

(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	Other/Unknown		
Anencephalus							8	
							2.67	
Aniridia							1	
							0.33	
Anophthalmia/ microphthalmia							10	
							3.34	
Anotia/microtia							14	
							4.68	
Aortic valve stenosis							15	
							5.01	
Atrial septal defect							206	
							68.82	
Biliary atresia							8	
							2.67	
Bladder exstrophy							1	
							0.33	
Choanal atresia							6	
							2.00	
Cleft lip with and without cleft palate							51	
							17.04	
Cleft palate without cleft lip							28	
							9.35	
Coarctation of aorta							15	
							5.01	
Common truncus							2	
							0.67	
Congenital cataract							15	
							5.01	
Congenital hip dislocation							91	
							30.40	
Diaphragmatic hernia							17	
							5.68	
Down syndrome							41	
							13.70	
Ebstein's anomaly							1	
							0.33	
Encephalocele							9	
							3.01	
Endocardial cushion defect							14	
							4.68	
Esophageal atresia/ tracheoesophageal fistula							9	
							3.01	
Fetal Alcohol Syndrome							55	Data are for birth years 1995-1998.
							13.70	See note #2

Alaska

Birth Defects Counts and Rates 1996-1998

(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	Other/Unknown		
Hirschsprung's disease (congenital megacolon)							44 14.70	
Hydrocephalus without Spina Bifida							35 11.69	
Hypoplastic left heart syndrome							7 2.34	
Hypospadias and Epispadias							100 33.41	
Microcephalus							97 32.41	
Obstructive genitourinary defect							94 31.40	
Patent ductus arteriosus							141 47.11	Includes those with birth weight >=2500 grams
Pulmonary valve atresia and stenosis							62 20.71	Exclude narrative diagnosis of pulmonic stenosis, peripheral pulmonic stenosis, or pulmonic stenosis murmur
Pyloric stenosis							91 30.40	
Rectal and large intestinal atresia/stenosis							27 9.02	
Reduction deformity, lower limbs							16 5.35	
Reduction deformity, upper limbs							13 4.34	
Renal agenesis/hypoplasia							19 6.35	
Spina bifida without anencephalus							12 4.01	
Tetralogy of Fallot							19 6.35	
Transposition of great arteries							20 6.68	
Tricuspid valve atresia and stenosis							15 5.01	
Trisomy 13							4 1.34	
Trisomy 18							12 4.01	
Ventricular septal defect							237 79.18	

Alaska

Birth Defects Counts and Rates 1996-1998

(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	Other/Unknown		
Total Live Births							29,933	

Alaska

Trisomy Counts and Rates by Maternal Age 1996-1998

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total*
Down syndrome	28 <i>10.80</i>	13 <i>32.41</i>	41 <i>13.70</i>
Trisomy 13	2 <i>0.77</i>	2 <i>4.99</i>	4 <i>1.34</i>
Trisomy 18	7 <i>2.70</i>	5 <i>12.47</i>	12 <i>4.01</i>
Total Live Births	25,922	4,011	29,933

* Total includes unknown age

Notes:

1. Birth defects are reported to the Alaska Birth Defects Registry by health care providers, statewide. Data are based on ICD-9 Billing Codes and not hospital discharge data. Anomalies are not currently verified by medical chart review, except for Fetal Alcohol Syndrome (FAS). Prenatal and fetal diagnosis are included in these data.
2. Data for Fetal Alcohol Syndrome are for birth years 1995 - 1998. All medical charts for children reported with ICD-9 Code 760.71 are reviewed and cases of FAS are verified using a surveillance case definition established by the Fetal Alcohol Syndrome Surveillance Network.

Arizona

Birth Defects Counts and Rates 1995-1996

(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	Other/Unknown		
Amniotic bands	12 1.56	0 0.00	6 1.14	0 0.00	0 0.00		18 1.22	
Anencephalus	15 1.95	1 2.19	20 3.81	0 0.00	4 3.84		40 2.71	
Aniridia	1 0.13	0 0.00	1 0.19	0 0.00	0 0.00		2 0.14	
Anophthalmia/ microphthalmia	20 2.60	0 0.00	17 3.24	0 0.00	8 7.68		45 3.05	
Anotia/microtia	21 2.73	0 0.00	18 3.43	0 0.00	7 6.72		46 3.12	
Aortic valve stenosis	24 3.12	1 2.19	17 3.24	2 6.72	5 4.80		49 3.32	
Atrial septal defect	73 9.48	8 17.51	56 10.66	2 6.72	16 15.36		155 10.51	
Biliary atresia	4 0.52	1 2.19	4 0.76	0 0.00	1 0.96		10 0.68	
Bladder exstrophy	2 0.26	1 2.19	1 0.19	0 0.00	0 0.00		4 0.27	
Choanal atresia	15 1.95	2 4.38	12 2.28	0 0.00	3 2.88		32 2.17	
Cleft lip with and without cleft palate	84 10.91	6 13.13	69 13.13	1 3.36	21 20.17		181 12.27	
Cleft palate without cleft lip	41 5.33	5 10.94	41 7.80	1 3.36	9 8.64		97 6.58	
Coarctation of aorta	41 5.33	1 2.19	26 4.95	6 20.15	4 3.84		79 5.36	
Common truncus	6 0.78	0 0.00	3 0.57	1 3.36	0 0.00		10 0.68	
Congenital cataract	14 1.82	2 4.38	5 0.95	0 0.00	2 1.92		23 1.56	
Congenital hip dislocation	60 7.79	1 2.19	62 11.80	2 6.72	24 23.05		150 10.17	
Diaphragmatic hernia	21 2.73	2 4.38	10 1.90	0 0.00	2 1.92		35 2.37	
Down syndrome	83 10.78	9 19.70	84 15.99	3 10.07	6 5.76		185 12.54	
Ebstein's anomaly	13 1.69	0 0.00	3 0.57	0 0.00	0 0.00		16 1.08	
Encephalocele	8 1.04	0 0.00	11 2.09	0 0.00	4 3.84		23 1.56	
Endocardial cushion defect	41 5.33	2 4.38	18 3.43	0 0.00	0 0.00		61 4.14	
Esophageal atresia/ tracheoesophageal fistula	24 3.12	0 0.00	9 1.71	0 0.00	1 0.96		34 2.31	

Arizona

Birth Defects Counts and Rates 1995-1996

(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	Other/Unknown		
Fetal alcohol syndrome	5 <i>0.65</i>	2 <i>4.38</i>	7 <i>1.33</i>	1 <i>3.36</i>	22 <i>21.13</i>	37 <i>2.51</i>		
Gastroschisis	36 <i>4.68</i>	2 <i>4.38</i>	27 <i>5.14</i>	1 <i>3.36</i>	3 <i>2.88</i>	69 <i>4.68</i>		
Hirschsprung's disease (congenital megacolon)	12 <i>1.56</i>	1 <i>2.19</i>	12 <i>2.28</i>	1 <i>3.36</i>	1 <i>0.96</i>	26 <i>1.76</i>		
Hydrocephalus without Spina Bifida	37 <i>4.81</i>	2 <i>4.38</i>	32 <i>6.09</i>	1 <i>3.36</i>	9 <i>8.64</i>	81 <i>5.49</i>		
Hypoplastic left heart syndrome	18 <i>2.34</i>	1 <i>2.19</i>	6 <i>1.14</i>	0 <i>0.00</i>	0 <i>0.00</i>	25 <i>1.70</i>		
Hypospadias and Epispadias	227 <i>29.49</i>	20 <i>43.77</i>	114 <i>21.70</i>	8 <i>26.86</i>	8 <i>7.68</i>	377 <i>25.56</i>		
Microcephalus	50 <i>6.50</i>	8 <i>17.51</i>	68 <i>12.94</i>	1 <i>3.36</i>	21 <i>20.17</i>	148 <i>10.04</i>		
Obstructive genitourinary defect	103 <i>13.38</i>	5 <i>10.94</i>	99 <i>18.84</i>	5 <i>16.79</i>	17 <i>16.32</i>	229 <i>15.53</i>		
Omphalocele	15 <i>1.95</i>	1 <i>2.19</i>	11 <i>2.09</i>	2 <i>6.72</i>	5 <i>4.80</i>	34 <i>2.31</i>		
Pulmonary valve atresia and stenosis	60 <i>7.79</i>	6 <i>13.13</i>	50 <i>9.52</i>	3 <i>10.07</i>	13 <i>12.48</i>	132 <i>8.95</i>		
Pyloric stenosis	143 <i>18.58</i>	5 <i>10.94</i>	123 <i>23.41</i>	2 <i>6.72</i>	15 <i>14.40</i>	288 <i>19.53</i>		
Rectal and large intestinal atresia/stenosis	31 <i>4.03</i>	3 <i>6.57</i>	33 <i>6.28</i>	1 <i>3.36</i>	4 <i>3.84</i>	72 <i>4.88</i>		
Reduction deformity, lower limbs	17 <i>2.21</i>	1 <i>2.19</i>	8 <i>1.52</i>	0 <i>0.00</i>	1 <i>0.96</i>	27 <i>1.83</i>		
Reduction deformity, upper limbs	30 <i>3.90</i>	1 <i>2.19</i>	21 <i>4.00</i>	0 <i>0.00</i>	3 <i>2.88</i>	55 <i>3.73</i>		
Renal agenesis/hypoplasia	40 <i>5.20</i>	1 <i>2.19</i>	31 <i>5.90</i>	1 <i>3.36</i>	5 <i>4.80</i>	78 <i>5.29</i>		
Spina bifida without anencephalus	24 <i>3.12</i>	3 <i>6.57</i>	34 <i>6.47</i>	0 <i>0.00</i>	4 <i>3.84</i>	65 <i>4.41</i>		
Tetralogy of Fallot	29 <i>3.77</i>	5 <i>10.94</i>	22 <i>4.19</i>	1 <i>3.36</i>	6 <i>5.76</i>	63 <i>4.27</i>		
Transposition of great arteries	32 <i>4.16</i>	4 <i>8.75</i>	25 <i>4.76</i>	2 <i>6.72</i>	4 <i>3.84</i>	67 <i>4.54</i>		
Tricuspid valve atresia and stenosis	4 <i>0.52</i>	1 <i>2.19</i>	9 <i>1.71</i>	0 <i>0.00</i>	3 <i>2.88</i>	17 <i>1.15</i>		
Trisomy 13	10 <i>1.30</i>	1 <i>2.19</i>	8 <i>1.52</i>	1 <i>3.36</i>	1 <i>0.96</i>	21 <i>1.42</i>		
Trisomy 18	18 <i>2.34</i>	2 <i>4.38</i>	10 <i>1.90</i>	0 <i>0.00</i>	4 <i>3.84</i>	34 <i>2.31</i>		
Ventricular septal defect	133 <i>17.28</i>	12 <i>26.26</i>	108 <i>20.56</i>	5 <i>16.79</i>	28 <i>26.89</i>	286 <i>19.39</i>		

Arizona

Birth Defects Counts and Rates 1995-1996

(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	Other/Unknown		
Total Live Births	76,982	4,569	52,537	2,978	10,414		147,480	

Arizona

Trisomy Counts and Rates by Maternal Age 1995-1996

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total*
Down syndrome	118	68	186
	<i>8.92</i>	<i>44.86</i>	<i>12.61</i>
Trisomy 13	16	5	21
	<i>1.21</i>	<i>3.30</i>	<i>1.42</i>
Trisomy 18	27	7	34
	<i>2.04</i>	<i>4.62</i>	<i>2.31</i>
Total Live Births	132,301	15,158	147,480

* Total includes unknown age

Notes:

1. All counts include defects from live and stillborn infants.

Arkansas

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Amniotic bands	17 1.29	10 2.57	2 2.67	0 0.00	0 0.00	1	30 1.65	
Anencephalus	55 4.17	11 2.83	7 9.35	0 0.00	0 0.00	4	77 4.24	
Aniridia	1 0.08	0 0.00	0 0.00	0 0.00	0 0.00	0	1 0.06	
Anophthalmia/ microphthalmia	51 3.86	12 3.08	1 1.34	0 0.00	0 0.00	0	64 3.53	
Anotia/microtia	25 1.89	4 1.03	3 4.01	0 0.00	0 0.00	0	32 1.76	
Aortic valve stenosis	55 4.17	15 3.85	1 1.34	2 10.93	0 0.00	0	73 4.02	
Atrial septal defect	465 35.23	149 38.27	27 36.06	4 21.87	1 9.84	10	656 36.15	
Biliary atresia	8 0.61	4 1.03	1 1.34	0 0.00	0 0.00	0	13 0.72	
Bladder exstrophy	6 0.45	0 0.00	0 0.00	0 0.00	0 0.00	0	6 0.33	
Choanal atresia	18 1.36	4 1.03	2 2.67	0 0.00	0 0.00	0	24 1.32	
Cleft lip with and without cleft palate	172 13.03	34 8.73	11 14.69	3 16.40	0 0.00	4	224 12.34	
Cleft palate without cleft lip	108 8.18	18 4.62	4 5.34	0 0.00	0 0.00	1	131 7.22	
Coarctation of aorta	71 5.38	12 3.08	4 5.34	0 0.00	0 0.00	0	87 4.79	
Common truncus	12 0.91	2 0.51	2 2.67	0 0.00	0 0.00	1	17 0.94	
Congenital cataract	39 2.95	18 4.62	1 1.34	0 0.00	0 0.00	1	59 3.25	
Congenital hip dislocation	127 9.62	17 4.37	18 24.04	0 0.00	2 19.69	1	165 9.09	
Diaphragmatic hernia	52 3.94	11 2.83	3 4.01	0 0.00	0 0.00	0	66 3.64	
Down syndrome	142 10.76	42 10.79	13 17.36	1 5.47	0 0.00	4	202 11.13	
Ebstein's anomaly	12 0.91	1 0.26	1 1.34	0 0.00	0 0.00	0	14 0.77	
Encephalocele	29 2.20	13 3.34	0 0.00	0 0.00	0 0.00	0	42 2.31	
Endocardial cushion defect	58 4.39	20 5.14	0 0.00	0 0.00	0 0.00	1	79 4.35	
Esophageal atresia/ tracheoesophageal fistula	31 2.35	7 1.80	0 0.00	0 0.00	0 0.00	0	38 2.09	

Arkansas

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Fetal alcohol syndrome	8 <i>0.61</i>	31 <i>7.96</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	39 <i>2.15</i>	
Gastroschisis	73 <i>5.53</i>	16 <i>4.11</i>	5 <i>6.68</i>	0 <i>0.00</i>	0 <i>0.00</i>	3 <i>0.00</i>	97 <i>5.35</i>	
Hirschsprung's disease (congenital megacolon)	16 <i>1.21</i>	7 <i>1.80</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	23 <i>1.27</i>	
Hydrocephalus without Spina Bifida	240 <i>18.18</i>	93 <i>23.88</i>	14 <i>18.70</i>	0 <i>0.00</i>	0 <i>0.00</i>	4 <i>0.00</i>	351 <i>19.34</i>	
Hypoplastic left heart syndrome	37 <i>2.80</i>	9 <i>2.31</i>	1 <i>1.34</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	47 <i>2.59</i>	
Hypospadias and Epispadias	533 <i>40.38</i>	108 <i>27.74</i>	13 <i>17.36</i>	1 <i>5.47</i>	1 <i>9.84</i>	6 <i>0.00</i>	662 <i>36.48</i>	
Microcephalus	182 <i>13.79</i>	90 <i>23.11</i>	10 <i>13.35</i>	1 <i>5.47</i>	1 <i>9.84</i>	0 <i>0.00</i>	284 <i>15.65</i>	
Obstructive genitourinary defect	239 <i>18.10</i>	57 <i>14.64</i>	14 <i>18.70</i>	4 <i>21.87</i>	1 <i>9.84</i>	1 <i>0.00</i>	316 <i>17.41</i>	
Omphalocele	27 <i>2.05</i>	10 <i>2.57</i>	2 <i>2.67</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>0.00</i>	41 <i>2.26</i>	
Patent ductus arteriosus	425 <i>32.20</i>	152 <i>39.04</i>	34 <i>45.41</i>	6 <i>32.80</i>	0 <i>0.00</i>	3 <i>0.00</i>	620 <i>34.17</i>	
Pulmonary valve atresia and stenosis	124 <i>9.39</i>	42 <i>10.79</i>	5 <i>6.68</i>	1 <i>5.47</i>	0 <i>0.00</i>	2 <i>0.00</i>	174 <i>9.59</i>	
Pyloric stenosis	304 <i>23.03</i>	29 <i>7.45</i>	13 <i>17.36</i>	1 <i>5.47</i>	0 <i>0.00</i>	2 <i>0.00</i>	349 <i>19.23</i>	
Rectal and large intestinal atresia/stenosis	74 <i>5.61</i>	16 <i>4.11</i>	2 <i>2.67</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	93 <i>5.12</i>	
Reduction deformity, lower limbs	19 <i>1.44</i>	10 <i>2.57</i>	3 <i>4.01</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	32 <i>1.76</i>	
Reduction deformity, upper limbs	48 <i>3.64</i>	14 <i>3.60</i>	6 <i>8.01</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	69 <i>3.80</i>	
Renal agenesis/hypoplasia	76 <i>5.76</i>	19 <i>4.88</i>	9 <i>12.02</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>0.00</i>	106 <i>5.84</i>	
Spina bifida without anencephalus	108 <i>8.18</i>	14 <i>3.60</i>	7 <i>9.35</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>0.00</i>	131 <i>7.22</i>	
Tetralogy of Fallot	47 <i>3.56</i>	14 <i>3.60</i>	7 <i>9.35</i>	1 <i>5.47</i>	0 <i>0.00</i>	1 <i>0.00</i>	70 <i>3.86</i>	
Transposition of great arteries	84 <i>6.36</i>	15 <i>3.85</i>	7 <i>9.35</i>	1 <i>5.47</i>	0 <i>0.00</i>	0 <i>0.00</i>	107 <i>5.90</i>	
Tricuspid valve atresia and stenosis	17 <i>1.29</i>	2 <i>0.51</i>	1 <i>1.34</i>	1 <i>5.47</i>	0 <i>0.00</i>	0 <i>0.00</i>	21 <i>1.16</i>	
Trisomy 13	13 <i>0.98</i>	4 <i>1.03</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	17 <i>0.94</i>	
Trisomy 18	21 <i>1.59</i>	2 <i>0.51</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	23 <i>1.27</i>	

Arkansas

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Ventricular septal defect	605 45.83	160 41.09	37 49.41	4 21.87	0 0.00	10	816 44.97	
Total Live Births	132,008	38,937	7,488	1,829	1,016		181,469	

Arkansas

Trisomy Counts and Rates by Maternal Age 1995-1999

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	127 7.53	55 43.17	202 11.13
Trisomy 13	15 0.89	2 1.57	17 0.94
Trisomy 18	15 0.89	7 5.49	23 1.27
Total Live Births	168,694	12,741	181,469

* Total includes unknown age

Notes:

1. Birth defect data for 1999 are provisional.
2. Prenatal and fetal diagnosis are included in these data.

California

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Amniotic bands	9 0.92	4 2.98	24 1.64	7 4.84	1 4.23	1	46 1.63	
Anencephalus	24 2.45	3 2.24	42 2.87	13 8.98	1 4.23	21	104 3.70	
Anophthalmia/ microphthalmia	11 1.12	0 0.00	27 1.84	2 1.38	1 4.23	1	42 1.49	see note #1
Anotia/microtia	15 1.53	1 0.75	63 4.30	7 4.84	0 0.00	3	89 3.16	see note #2
Aortic valve stenosis	27 2.76	1 0.75	18 1.23	2 1.38	4 16.93	0	52 1.85	see note #3
Biliary atresia	4 0.41	4 2.98	12 0.82	0 0.00	1 4.23	0	21 0.75	
Bladder exstrophy	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0	0 0.00	
Choanal atresia	8 0.82	1 0.75	5 0.34	1 0.69	0 0.00	0	15 0.53	
Cleft lip with and without cleft palate	126 12.86	11 8.21	150 10.25	17 11.74	2 8.46	7	313 11.12	
Cleft palate without cleft lip	62 6.33	7 5.22	73 4.99	17 11.74	0 0.00	8	167 5.93	
Coarctation of aorta	41 4.19	6 4.48	56 3.82	4 2.76	2 8.46	3	112 3.98	see note #3
Common truncus	7 0.71	0 0.00	11 0.75	1 0.69	0 0.00	0	19 0.68	see note #3
Diaphragmatic hernia	26 2.65	2 1.49	35 2.39	7 4.84	1 4.23	3	74 2.63	
Down syndrome	102 10.41	11 8.21	190 12.98	16 11.05	0 0.00	11	330 11.73	see note #4
Ebstein's anomaly	15 1.53	0 0.00	6 0.41	0 0.00	0 0.00	1	22 0.78	see note #5
Encephalocele	8 0.82	4 2.98	15 1.02	2 1.38	0 0.00	2	31 1.10	
Endocardial cushion defect	35 3.57	3 2.24	52 3.55	3 2.07	0 0.00	2	95 3.38	see note #5
Esophageal atresia/ tracheoesophageal fistula	20 2.04	1 0.75	20 1.37	4 2.76	0 0.00	0	45 1.60	
Fetal alcohol syndrome	7 0.71	3 2.24	8 0.55	1 0.69	0 0.00	2	21 0.75	
Gastroschisis	50 5.11	4 2.98	55 3.76	7 4.84	0 0.00	1	117 4.16	
Hydrocephalus without Spina Bifida	48 4.90	10 7.46	49 3.35	7 4.84	1 4.23	4	119 4.23	
Hypoplastic left heart syndrome	26 2.65	6 4.48	28 1.91	6 4.14	2 8.46	0	68 2.42	see note #5
Hypospadias and Epispadias	36 3.68	5 3.73	26 1.78	3 2.07	1 4.23	2	73 2.59	see note #6

California

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Omphalocele	17 1.74	2 1.49	20 1.37	2 1.38	0 0.00	0 0.00	41 1.46	
Pulmonary valve atresia and stenosis	12 1.23	2 1.49	17 1.16	0 0.00	0 0.00	2 0.00	33 1.17	see note #7
Rectal and large intestinal atresia/stenosis	18 1.84	0 0.00	35 2.39	4 2.76	0 0.00	0 0.00	57 2.03	see note #8
Reduction deformity, lower limbs	14 1.43	4 2.98	21 1.43	4 2.76	0 0.00	0 0.00	43 1.53	
Reduction deformity, upper limbs	28 2.86	3 2.24	62 4.23	6 4.14	0 0.00	2 0.00	101 3.59	
Renal agenesis/hypoplasia	1 0.10	0 0.00	4 0.27	1 0.69	1 4.23	0 0.00	7 0.25	Data for 1998-1999 only
Spina bifida without anencephalus	40 4.08	6 4.48	77 5.26	3 2.07	0 0.00	7 0.00	133 4.73	
Tetralogy of Fallot	30 3.06	1 0.75	38 2.60	7 4.84	1 4.23	5 0.00	82 2.91	see note #9
Transposition of great arteries	34 3.47	5 3.73	57 3.89	7 4.84	0 0.00	2 0.00	105 3.73	see note #10
Tricuspid valve atresia and stenosis	6 0.61	1 0.75	17 1.16	1 0.69	0 0.00	0 0.00	25 0.89	see note #7
Trisomy 13	8 0.82	4 2.98	17 1.16	4 2.76	0 0.00	0 0.00	33 1.17	see note #4
Trisomy 18	22 2.25	3 2.24	28 1.91	7 4.84	0 0.00	4 0.00	64 2.27	see note #4
Total Live Births	97,941	13,405	146,412	14,477	2,363		281,416	

S144 BIRTH DEFECTS DATA

California

Trisomy Counts and Rates by Maternal Age 1995-1999

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	181 <i>7.15</i>	141 <i>49.83</i>	330 <i>11.73</i>
Trisomy 13	25 <i>0.99</i>	8 <i>2.83</i>	33 <i>1.17</i>
Trisomy 18	36 <i>1.42</i>	25 <i>8.83</i>	64 <i>2.27</i>
Total Live Births	253,100	28,297	281,416

* Total includes unknown age

Notes:

1. Anophthalmia/ microphthalmia: Bilateral confirmed by geneticist, pathologist, ophthalmologist, or neurologist
2. Anotia/microtia: Does not include any case with Down syndrome. Bilateral diagnosed by geneticist, ENT, or pathologist.
3. Aortic valve stenosis, coarctation of aorta, common truncus: Diagnosis confirmed by echo, catheterization, pathology, or surgery.
4. Down syndrome, trisomy 13, trisomy 18: Diagnosis cytogenetically confirmed.
5. Ebstein's anomaly, endocardial cushion defect, hypoplastic left heart syndrome: Diagnosis confirmed by echo, catheterization, pathology, or surgery.
6. Hypospadias: 2nd and 3rd degree only, does not include epispadias.
7. Pulmonary valve atresia, tricuspid valve atresia: Does not include stenosis. Diagnosis confirmed by echo, catheterization, pathology, or surgery.
8. Rectal and large intestinal atresia/stenosis: Diagnosis confirmed by surgery, autopsy, scope, x-ray, or CAT scan.
9. Tetralogy of Fallot: 747.310 only included in 1998 and 1999. Diagnosis confirmed by echo, catheterization, pathology, or surgery.
10. Transposition of great arteries: Diagnosis confirmed by echo, catheterization, pathology, or surgery.

Colorado

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Anencephalus	22 <i>1.12</i>	3 <i>2.30</i>	16 <i>2.35</i>	1 <i>1.24</i>	2 <i>8.21</i>	5	49 <i>1.70</i>	fetal deaths-any gestational age
Aniridia	3 <i>0.15</i>	0 <i>0.00</i>	1 <i>0.15</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	4 <i>0.14</i>	
Anophthalmia/ microphthalmia	30 <i>1.53</i>	1 <i>0.77</i>	14 <i>2.06</i>	1 <i>1.24</i>	1 <i>4.11</i>	3	50 <i>1.73</i>	
Anotia/microtia	24 <i>1.22</i>	2 <i>1.54</i>	11 <i>1.62</i>	1 <i>1.24</i>	1 <i>4.11</i>	3	42 <i>1.46</i>	
Aortic valve stenosis	71 <i>3.61</i>	0 <i>0.00</i>	18 <i>2.65</i>	2 <i>2.47</i>	2 <i>8.21</i>	3	96 <i>3.33</i>	
Atrial septal defect	919 <i>46.76</i>	47 <i>36.10</i>	297 <i>43.66</i>	37 <i>45.70</i>	14 <i>57.47</i>	20	1,334 <i>46.27</i>	
Biliary atresia	22 <i>1.12</i>	3 <i>2.30</i>	8 <i>1.18</i>	2 <i>2.47</i>	0 <i>0.00</i>	1	36 <i>1.25</i>	
Bladder exstrophy	7 <i>0.36</i>	0 <i>0.00</i>	5 <i>0.74</i>	0 <i>0.00</i>	0 <i>0.00</i>	5	17 <i>0.59</i>	
Choanal atresia	33 <i>1.68</i>	0 <i>0.00</i>	9 <i>1.32</i>	1 <i>1.24</i>	0 <i>0.00</i>	2	45 <i>1.56</i>	
Cleft lip with and without cleft palate	243 <i>12.36</i>	11 <i>8.45</i>	77 <i>11.32</i>	7 <i>8.65</i>	3 <i>12.32</i>	19	360 <i>12.49</i>	
Cleft palate without cleft lip	148 <i>7.53</i>	4 <i>3.07</i>	40 <i>5.88</i>	8 <i>9.88</i>	0 <i>0.00</i>	7	207 <i>7.18</i>	
Coarctation of aorta	180 <i>9.16</i>	1 <i>0.77</i>	38 <i>5.59</i>	6 <i>7.41</i>	2 <i>8.21</i>	10	237 <i>8.22</i>	
Common truncus	22 <i>1.12</i>	3 <i>2.30</i>	7 <i>1.03</i>	0 <i>0.00</i>	1 <i>4.11</i>	3	36 <i>1.25</i>	
Congenital cataract	55 <i>2.80</i>	4 <i>3.07</i>	22 <i>3.23</i>	0 <i>0.00</i>	0 <i>0.00</i>	1	82 <i>2.84</i>	
Congenital hip dislocation	410 <i>20.86</i>	7 <i>5.38</i>	144 <i>21.17</i>	13 <i>16.06</i>	4 <i>16.42</i>	6	584 <i>20.26</i>	
Diaphragmatic hernia	83 <i>4.22</i>	7 <i>5.38</i>	28 <i>4.12</i>	6 <i>7.41</i>	0 <i>0.00</i>	9	133 <i>4.61</i>	
Down syndrome	234 <i>11.91</i>	13 <i>9.99</i>	78 <i>11.47</i>	11 <i>13.59</i>	2 <i>8.21</i>	92	430 <i>14.92</i>	
Ebstein's anomaly	19 <i>0.97</i>	0 <i>0.00</i>	7 <i>1.03</i>	0 <i>0.00</i>	0 <i>0.00</i>	3	29 <i>1.01</i>	
Encephalocele	18 <i>0.92</i>	0 <i>0.00</i>	11 <i>1.62</i>	1 <i>1.24</i>	0 <i>0.00</i>	7	37 <i>1.28</i>	
Endocardial cushion defect	85 <i>4.32</i>	6 <i>4.61</i>	24 <i>3.53</i>	5 <i>6.18</i>	0 <i>0.00</i>	7	127 <i>4.41</i>	
Esophageal atresia/ tracheoesophageal fistula	113 <i>5.75</i>	4 <i>3.07</i>	22 <i>3.23</i>	4 <i>4.94</i>	1 <i>4.11</i>	6	150 <i>5.20</i>	
Gastroschisis	49 <i>2.49</i>	4 <i>3.07</i>	31 <i>4.56</i>	5 <i>6.18</i>	0 <i>0.00</i>	4	93 <i>3.23</i>	medical record review

Colorado

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Hirschsprung's disease (congenital megacolon)	50 2.54	3 2.30	21 3.09	1 1.24	1 4.11	2	78 2.71	
Hydrocephalus without Spina Bifida	150 7.63	11 8.45	69 10.14	7 8.65	2 8.21	26	265 9.19	
Hypoplastic left heart syndrome	60 3.05	0 0.00	8 1.18	1 1.24	0 0.00	4	73 2.53	
Hypospadias and Epispadias	790 40.19	56 43.02	136 19.99	12 14.82	4 16.42	11	1,009 35.00	
Microcephalus	100 5.09	14 10.75	44 6.47	6 7.41	0 0.00	6	170 5.90	
Obstructive genitourinary defect	572 29.10	26 19.97	189 27.79	22 27.17	3 12.32	18	830 28.79	
Omphalocele	35 1.78	1 0.77	17 2.50	2 2.47	0 0.00	7	62 2.15	medical record review
Patent ductus arteriosus	792 40.30	52 39.94	261 38.37	36 44.47	11 45.16	3	1,155 40.06	
Pulmonary valve atresia and stenosis	230 11.70	19 14.60	85 12.50	6 7.41	1 4.11	9	350 12.14	
Pyloric stenosis	384 19.54	11 8.45	117 17.20	5 6.18	3 12.32	12	532 18.45	
Rectal and large intestinal atresia/stenosis	121 6.16	9 6.91	44 6.47	3 3.71	0 0.00	10	187 6.49	
Reduction deformity, lower limbs	41 2.09	6 4.61	22 3.23	2 2.47	0 0.00	8	79 2.74	
Reduction deformity, upper limbs	75 3.82	7 5.38	32 4.70	4 4.94	0 0.00	13	131 4.54	
Renal agenesis/hypoplasia	88 4.48	5 3.84	41 6.03	2 2.47	1 4.11	12	149 5.17	
Spina bifida without anencephalus	67 3.41	3 2.30	24 3.53	0 0.00	0 0.00	10	104 3.61	fetal deaths-any gestational age
Tetralogy of Fallot	71 3.61	9 6.91	19 2.79	3 3.71	1 4.11	4	107 3.71	
Transposition of great arteries	72 3.66	3 2.30	30 4.41	2 2.47	1 4.11	2	110 3.82	
Tricuspid valve atresia and stenosis	30 1.53	1 0.77	17 2.50	0 0.00	1 4.11	2	51 1.77	
Trisomy 13	24 1.22	2 1.54	7 1.03	0 0.00	1 4.11	25	59 2.05	
Trisomy 18	45 2.29	5 3.84	17 2.50	2 2.47	0 0.00	41	110 3.82	
Ventricular septal defect	762 38.77	49 37.64	276 40.58	33 40.76	14 57.47	26	1,160 40.24	Includes probable cases
Total Live Births	196,542	13,018	68,018	8,096	2,436		288,286	

Colorado**Trisomy Counts and Rates by Maternal Age 1995-1999***(Rates per 10,000 Live Births)*

Defect	Age		Total*
	<35	35 and >	
Down syndrome	213 <i>8.60</i>	128 <i>31.62</i>	431 <i>14.95</i>
Trisomy 13	30 <i>1.21</i>	4 <i>0.99</i>	59 <i>2.05</i>
Trisomy 18	50 <i>2.02</i>	17 <i>4.20</i>	110 <i>3.82</i>
Total Live Births	247,691	40,481	288,286

* Total includes unknown age

Notes:

1. Data for fetal alcohol syndrome are available through FAS Surveillance Network. Contact CRCSN at crcsn@state.co.us for the data.
2. See pregnancy outcome section of Colorado's program description for detailed pregnancy outcome collected for all birth defects.

Delaware

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Anencephalus	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	
Aniridia	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	
Anophthalmia/ microphthalmia	99 28.55	57 46.07	10 28.33	1 8.86	0 0.00	2 0.00	169 32.56	
Anotia/microtia	0 0.00	0 0.00	1 2.83	0 0.00	0 0.00	0 0.00	1 0.19	
Aortic valve stenosis	7 2.02	1 0.81	0 0.00	0 0.00	0 0.00	0 0.00	8 1.54	
Atrial septal defect	131 37.78	62 50.11	12 33.99	5 44.29	0 0.00	5 0.00	215 41.43	
Biliary atresia	2 0.58	4 3.23	0 0.00	0 0.00	0 0.00	0 0.00	6 1.16	
Bladder exstrophy	0 0.00	0 0.00	1 2.83	0 0.00	0 0.00	0 0.00	1 0.19	
Choanal atresia	5 1.44	1 0.81	0 0.00	0 0.00	0 0.00	0 0.00	6 1.16	
Cleft lip with and without cleft palate	33 9.52	4 3.23	3 8.50	0 0.00	0 0.00	1 0.00	41 7.90	
Cleft palate without cleft lip	20 5.77	9 7.27	1 2.83	0 0.00	0 0.00	0 0.00	30 5.78	
Coarctation of aorta	12 3.46	1 0.81	0 0.00	1 8.86	0 0.00	1 0.00	15 2.89	
Common truncus	1 0.29	1 0.81	0 0.00	0 0.00	0 0.00	0 0.00	2 0.39	
Congenital cataract	3 0.87	4 3.23	0 0.00	0 0.00	0 0.00	0 0.00	7 1.35	
Congenital hip dislocation	64 18.46	8 6.47	9 25.50	6 53.14	0 0.00	3 0.00	90 17.34	
Diaphragmatic hernia	10 2.88	3 2.42	0 0.00	0 0.00	0 0.00	1 0.00	14 2.70	
Down syndrome	26 7.50	8 6.47	2 5.67	3 26.57	0 0.00	2 0.00	41 7.90	
Ebstein's anomaly	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	
Encephalocele	2 0.58	2 1.62	0 0.00	0 0.00	0 0.00	1 0.00	5 0.96	
Endocardial cushion defect	12 3.46	4 3.23	2 5.67	1 8.86	0 0.00	0 0.00	19 3.66	
Esophageal atresia/ tracheoesophageal fistula	6 1.73	2 1.62	1 2.83	0 0.00	0 0.00	1 0.00	10 1.93	
Fetal alcohol syndrome	8 2.31	11 8.89	0 0.00	0 0.00	0 0.00	0 0.00	19 3.66	

Delaware

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Hirschsprung's disease (congenital megacolon)	6 <i>1.73</i>	2 <i>1.62</i>	2 <i>5.67</i>	1 <i>8.86</i>	0 <i>0.00</i>	3 <i>0.00</i>	14 <i>2.70</i>	
Hydrocephalus without Spina Bifida	12 <i>3.46</i>	10 <i>8.08</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	6 <i>0.00</i>	28 <i>5.40</i>	
Hypoplastic left heart syndrome	9 <i>2.60</i>	6 <i>4.85</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	15 <i>2.89</i>	
Hypospadias and Epispadias	79 <i>22.78</i>	29 <i>23.44</i>	6 <i>17.00</i>	2 <i>17.71</i>	0 <i>0.00</i>	2 <i>0.00</i>	118 <i>22.74</i>	
Microcephalus	2 <i>0.58</i>	1 <i>0.81</i>	1 <i>2.83</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	5 <i>0.96</i>	
Obstructive genitourinary defect	129 <i>37.20</i>	25 <i>20.21</i>	15 <i>42.49</i>	3 <i>26.57</i>	0 <i>0.00</i>	11 <i>0.00</i>	183 <i>35.26</i>	
Patent ductus arteriosus	161 <i>46.43</i>	82 <i>66.27</i>	13 <i>36.83</i>	6 <i>53.14</i>	0 <i>0.00</i>	7 <i>0.00</i>	269 <i>51.83</i>	cases with birthweight of =>2500 grams
Pulmonary valve atresia and stenosis	17 <i>4.90</i>	11 <i>8.89</i>	1 <i>2.83</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	30 <i>5.78</i>	
Pyloric stenosis	89 <i>25.67</i>	22 <i>17.78</i>	7 <i>19.83</i>	1 <i>8.86</i>	0 <i>0.00</i>	11 <i>0.00</i>	130 <i>25.05</i>	
Rectal and large intestinal atresia/stenosis	5 <i>1.44</i>	4 <i>3.23</i>	0 <i>0.00</i>	1 <i>8.86</i>	0 <i>0.00</i>	0 <i>0.00</i>	10 <i>1.93</i>	
Reduction deformity, lower limbs	3 <i>0.87</i>	1 <i>0.81</i>	0 <i>0.00</i>	1 <i>8.86</i>	0 <i>0.00</i>	0 <i>0.00</i>	5 <i>0.96</i>	
Reduction deformity, upper limbs	9 <i>2.60</i>	1 <i>0.81</i>	1 <i>2.83</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	11 <i>2.12</i>	
Renal agenesis/hypoplasia	14 <i>4.04</i>	3 <i>2.42</i>	2 <i>5.67</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	20 <i>3.85</i>	
Spina bifida without anencephalus	12 <i>3.46</i>	3 <i>2.42</i>	4 <i>11.33</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	19 <i>3.66</i>	
Tetralogy of Fallot	15 <i>4.33</i>	10 <i>8.08</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	25 <i>4.82</i>	
Transposition of great arteries	8 <i>2.31</i>	4 <i>3.23</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>0.00</i>	13 <i>2.50</i>	
Tricuspid valve atresia and stenosis	4 <i>1.15</i>	1 <i>0.81</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	5 <i>0.96</i>	
Trisomy 13	5 <i>1.44</i>	0 <i>0.00</i>	1 <i>2.83</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	6 <i>1.16</i>	
Trisomy 18	0 <i>0.00</i>	2 <i>1.62</i>	2 <i>5.67</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	4 <i>0.77</i>	
Ventricular septal defect	150 <i>43.26</i>	50 <i>40.41</i>	15 <i>42.49</i>	5 <i>44.29</i>	0 <i>0.00</i>	6 <i>0.00</i>	226 <i>43.55</i>	do not include probable cases
Total Live Births	34,676	12,373	3,530	1,129	113		51,899	

S150 BIRTH DEFECTS DATA

Delaware

Trisomy Counts and Rates by Maternal Age 1995-1999

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	27	13	41
	<i>5.90</i>	<i>21.18</i>	<i>7.90</i>
Trisomy 13	5	1	6
	<i>1.09</i>	<i>1.63</i>	<i>1.16</i>
Trisomy 18	1	3	4
	<i>0.22</i>	<i>4.89</i>	<i>0.77</i>
Total Live Births	45,762	6,137	51,899

* Total includes unknown age

Florida

Birth Defects Counts and Rates 1996-1998

(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	Other/Unknown		
Anencephalus	17 0.53	3 0.27	9 0.71	0 0.00	0 0.00	0 0.00	29 0.50	
Aniridia	2 0.06	2 0.18	3 0.24	0 0.00	0 0.00	0 0.00	7 0.12	
Anophthalmia/ microphthalmia	25 0.78	21 1.87	10 0.78	2 1.68	0 0.00	1 0.00	59 1.02	
Anotia/microtia	19 0.59	2 0.18	7 0.55	0 0.00	0 0.00	0 0.00	28 0.49	
Aortic valve stenosis	55 1.71	8 0.71	13 1.02	0 0.00	0 0.00	0 0.00	76 1.32	
Atrial septal defect	1,545 47.93	722 64.40	747 58.57	51 42.84	6 36.32	8 0.00	3,079 53.41	
Biliary atresia	21 0.65	17 1.52	13 1.02	1 0.84	0 0.00	0 0.00	52 0.90	
Bladder exstrophy	14 0.43	5 0.45	1 0.08	0 0.00	0 0.00	0 0.00	20 0.35	
Choanal atresia	44 1.37	14 1.25	17 1.33	2 1.68	0 0.00	0 0.00	77 1.34	
Cleft lip with and without cleft palate	328 10.18	71 6.33	121 9.49	9 7.56	0 0.00	0 0.00	529 9.18	
Cleft palate without cleft lip	190 5.89	45 4.01	33 2.59	8 6.72	3 18.16	0 0.00	279 4.84	
Coarctation of aorta	136 4.22	30 2.68	43 3.37	1 0.84	0 0.00	1 0.00	211 3.66	
Common truncus	31 0.96	11 0.98	14 1.10	0 0.00	0 0.00	0 0.00	56 0.97	
Congenital cataract	35 1.09	16 1.43	15 1.18	0 0.00	0 0.00	1 0.00	67 1.16	
Congenital hip dislocation	537 16.66	71 6.33	220 17.25	15 12.60	0 0.00	0 0.00	843 14.62	
Diaphragmatic hernia	86 2.67	28 2.50	34 2.67	3 2.52	1 6.05	0 0.00	152 2.64	
Down syndrome	389 12.07	119 10.61	159 12.47	15 12.60	2 12.11	0 0.00	684 11.87	
Ebstein's anomaly	17 0.53	4 0.36	9 0.71	1 0.84	0 0.00	0 0.00	31 0.54	
Encephalocele	34 1.05	11 0.98	7 0.55	0 0.00	0 0.00	0 0.00	52 0.90	
Endocardial cushion defect	95 2.95	37 3.30	41 3.21	2 1.68	0 0.00	1 0.00	176 3.05	
Esophageal atresia/ tracheoesophageal fistula	88 2.73	21 1.87	23 1.80	4 3.36	0 0.00	0 0.00	136 2.36	
Fetal alcohol syndrome	110 3.41	97 8.65	14 1.10	2 1.68	2 12.11	0 0.00	225 3.90	

Florida

Birth Defects Counts and Rates 1996-1998

(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	Other/Unknown		
Hirschsprung's disease (congenital megacolon)	57 <i>1.77</i>	31 <i>2.77</i>	25 <i>1.96</i>	1 <i>0.84</i>	1 <i>6.05</i>	1 <i>2.01</i>	116	
Hydrocephalus without Spina Bifida	201 <i>6.24</i>	124 <i>11.06</i>	81 <i>6.35</i>	9 <i>7.56</i>	0 <i>0.00</i>	1 <i>7.22</i>	416	
Hypoplastic left heart syndrome	77 <i>2.39</i>	21 <i>1.87</i>	17 <i>1.33</i>	3 <i>2.52</i>	1 <i>6.05</i>	1 <i>2.08</i>	120	
Hypospadias and Epispadias	1,283 <i>39.80</i>	294 <i>26.23</i>	295 <i>23.13</i>	18 <i>15.12</i>	4 <i>24.21</i>	0 <i>32.86</i>	1,894	
Microcephalus	187 <i>5.80</i>	145 <i>12.93</i>	90 <i>7.06</i>	9 <i>7.56</i>	2 <i>12.11</i>	1 <i>7.53</i>	434	
Obstructive genitourinary defect	717 <i>22.24</i>	174 <i>15.52</i>	315 <i>24.70</i>	33 <i>27.72</i>	3 <i>18.16</i>	1 <i>21.56</i>	1,243	
Pulmonary valve atresia and stenosis	266 <i>8.25</i>	177 <i>15.79</i>	119 <i>9.33</i>	7 <i>5.88</i>	0 <i>0.00</i>	2 <i>9.91</i>	571	
Pyloric stenosis	358 <i>11.11</i>	56 <i>5.00</i>	98 <i>7.68</i>	5 <i>4.20</i>	2 <i>12.11</i>	0 <i>9.00</i>	519	
Rectal and large intestinal atresia/stenosis	108 <i>3.35</i>	42 <i>3.75</i>	42 <i>3.29</i>	3 <i>2.52</i>	0 <i>0.00</i>	0 <i>3.38</i>	195	
Reduction deformity, lower limbs	48 <i>1.49</i>	20 <i>1.78</i>	21 <i>1.65</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>1.54</i>	89	
Reduction deformity, upper limbs	71 <i>2.20</i>	31 <i>2.77</i>	24 <i>1.88</i>	2 <i>1.68</i>	0 <i>0.00</i>	1 <i>2.24</i>	129	
Renal agenesis/hypoplasia	97 <i>3.01</i>	42 <i>3.75</i>	51 <i>4.00</i>	2 <i>1.68</i>	2 <i>12.11</i>	0 <i>3.37</i>	194	
Spina bifida without anencephalus	143 <i>4.44</i>	46 <i>4.10</i>	64 <i>5.02</i>	2 <i>1.68</i>	0 <i>0.00</i>	0 <i>4.42</i>	255	
Tetralogy of Fallot	131 <i>4.06</i>	56 <i>5.00</i>	60 <i>4.70</i>	1 <i>0.84</i>	0 <i>0.00</i>	2 <i>4.34</i>	250	
Transposition of great arteries	106 <i>3.29</i>	31 <i>2.77</i>	36 <i>2.82</i>	3 <i>2.52</i>	1 <i>6.05</i>	0 <i>3.07</i>	177	
Tricuspid valve atresia and stenosis	32 <i>0.99</i>	21 <i>1.87</i>	16 <i>1.25</i>	4 <i>3.36</i>	0 <i>0.00</i>	0 <i>1.27</i>	73	
Trisomy 13	34 <i>1.05</i>	16 <i>1.43</i>	20 <i>1.57</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>1.23</i>	71	
Trisomy 18	34 <i>1.05</i>	8 <i>0.71</i>	24 <i>1.88</i>	2 <i>1.68</i>	0 <i>0.00</i>	0 <i>1.18</i>	68	
Ventricular septal defect	1,374 <i>42.63</i>	419 <i>37.38</i>	565 <i>44.30</i>	33 <i>27.72</i>	8 <i>48.43</i>	2 <i>41.65</i>	2,401	
Total Live Births	322,334	112,106	127,536	11,904	1,652		576,472	

Florida**Trisomy Counts and Rates by Maternal Age 1996-1998***(Rates per 10,000 Live Births)*

Defect	Age		Total*
	<35	35 and >	
Down syndrome	441	243	684
	<i>8.82</i>	<i>31.92</i>	<i>11.87</i>
Trisomy 13	57	14	71
	<i>1.14</i>	<i>1.84</i>	<i>1.23</i>
Trisomy 18	42	26	68
	<i>0.84</i>	<i>3.42</i>	<i>1.18</i>
Total Live Births	500,208	76,119	576,472

* Total includes unknown age

Notes:

1. Significant change from 1996 to 1997: In 1996 our hospital discharge data lacked Mother's SSN so we were unable to link post-birth hospitalizations. We relied on a linkage of the birth hospitalizations to birth certificate data performed by an outside agency as well. In 1997 the hospital data gained Mother's SSN and we performed all linkages ourselves. In 1997 we also added Ambulatory surgical center data to our sources hence getting some more post-birth diagnoses. In 1998 the hospital discharge data contained more mother's SSN, as compliance with the newly required reporting increased. This leads to improved linking to birth certificates, especially for post-birth hospitalizations. This lead to a marked increase in some defects that are primarily diagnosed post-birth. The most dramatic increases were seen in pyloric stenosis and Atrial Septal defect, though many of the heart defects saw significant increases from 1997.
2. Presently our only source of diagnosis information is via passive surveillance and our information is in the form of ICD-9 codes.
3. We do not currently have enough information on fetal deaths (i.e. stillbirths/terminations) to include these in our registry, hence we use only liveborns.

Georgia

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Amniotic bands	10 <i>1.02</i>	9 <i>1.03</i>	1 <i>0.49</i>	1 <i>1.20</i>	0 <i>0.00</i>	0 <i>0.00</i>	21 <i>0.97</i>	
Anencephalus	44 <i>4.50</i>	26 <i>2.99</i>	11 <i>5.44</i>	4 <i>4.79</i>	0 <i>0.00</i>	6 <i>0.00</i>	91 <i>4.21</i>	include terminations
Aniridia	2 <i>0.20</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>0.14</i>	
Anophthalmia/ microphthalmia	31 <i>3.17</i>	27 <i>3.10</i>	6 <i>2.97</i>	3 <i>3.59</i>	0 <i>0.00</i>	0 <i>0.00</i>	67 <i>3.10</i>	
Anotia/microtia	15 <i>1.53</i>	8 <i>0.92</i>	6 <i>2.97</i>	2 <i>2.39</i>	0 <i>0.00</i>	0 <i>0.00</i>	31 <i>1.44</i>	
Aortic valve stenosis	31 <i>3.17</i>	14 <i>1.61</i>	7 <i>3.46</i>	1 <i>1.20</i>	0 <i>0.00</i>	1 <i>0.00</i>	54 <i>2.50</i>	
Atrial septal defect	221 <i>22.61</i>	258 <i>29.65</i>	43 <i>21.28</i>	15 <i>17.95</i>	1 <i>23.70</i>	9 <i>0.00</i>	547 <i>25.32</i>	
Biliary atresia	9 <i>0.92</i>	14 <i>1.61</i>	1 <i>0.49</i>	1 <i>1.20</i>	0 <i>0.00</i>	0 <i>0.00</i>	25 <i>1.16</i>	
Bladder exstrophy	1 <i>0.10</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>	2 <i>0.09</i>	
Choanal atresia	18 <i>1.84</i>	17 <i>1.95</i>	4 <i>1.98</i>	1 <i>1.20</i>	0 <i>0.00</i>	0 <i>0.00</i>	40 <i>1.85</i>	
Cleft lip with and without cleft palate	109 <i>11.15</i>	61 <i>7.01</i>	22 <i>10.89</i>	10 <i>11.97</i>	0 <i>0.00</i>	0 <i>0.00</i>	202 <i>9.35</i>	
Cleft palate without cleft lip	74 <i>7.57</i>	49 <i>5.63</i>	9 <i>4.45</i>	8 <i>9.58</i>	0 <i>0.00</i>	0 <i>0.00</i>	140 <i>6.48</i>	
Coarctation of aorta	70 <i>7.16</i>	43 <i>4.94</i>	6 <i>2.97</i>	3 <i>3.59</i>	0 <i>0.00</i>	0 <i>0.00</i>	122 <i>5.65</i>	
Common truncus	9 <i>0.92</i>	8 <i>0.92</i>	2 <i>0.99</i>	1 <i>1.20</i>	0 <i>0.00</i>	0 <i>0.00</i>	20 <i>0.93</i>	
Congenital cataract	24 <i>2.46</i>	15 <i>1.72</i>	2 <i>0.99</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	41 <i>1.90</i>	
Congenital hip dislocation	107 <i>10.95</i>	25 <i>2.87</i>	10 <i>4.95</i>	5 <i>5.98</i>	0 <i>0.00</i>	2 <i>0.00</i>	149 <i>6.90</i>	
Diaphragmatic hernia	18 <i>1.84</i>	16 <i>1.84</i>	9 <i>4.45</i>	1 <i>1.20</i>	0 <i>0.00</i>	0 <i>0.00</i>	44 <i>2.04</i>	
Down syndrome	131 <i>13.40</i>	97 <i>11.15</i>	25 <i>12.37</i>	13 <i>15.56</i>	0 <i>0.00</i>	3 <i>0.00</i>	269 <i>12.45</i>	
Ebstein's anomaly	7 <i>0.72</i>	6 <i>0.69</i>	1 <i>0.49</i>	1 <i>1.20</i>	0 <i>0.00</i>	0 <i>0.00</i>	15 <i>0.69</i>	
Encephalocele	21 <i>2.15</i>	16 <i>1.84</i>	6 <i>2.97</i>	0 <i>0.00</i>	0 <i>0.00</i>	4 <i>0.00</i>	47 <i>2.18</i>	include terminations
Endocardial cushion defect	57 <i>5.83</i>	53 <i>6.09</i>	2 <i>0.99</i>	5 <i>5.98</i>	0 <i>0.00</i>	1 <i>0.00</i>	118 <i>5.46</i>	
Esophageal atresia/ tracheoesophageal fistula	23 <i>2.35</i>	20 <i>2.30</i>	1 <i>0.49</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	44 <i>2.04</i>	

Georgia

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Fetal alcohol syndrome	10	42	0	0	0	0	52	
	1.02	4.83	0.00	0.00	0.00		2.41	
Gastroschisis	13	17	3	2	0	0	35	
	1.33	1.95	1.48	2.39	0.00		1.62	
Hirschsprung's disease (congenital megacolon)	15	23	3	4	0	1	46	
	1.53	2.64	1.48	4.79	0.00		2.13	
Hydrocephalus without Spina Bifida	80	76	13	5	0	0	174	
	8.18	8.73	6.43	5.98	0.00		8.06	
Hypoplastic left heart syndrome	34	25	3	5	0	2	69	
	3.48	2.87	1.48	5.98	0.00		3.19	
Hypospadias and Epispadias	409	295	24	25	0	6	759	
	41.85	33.90	11.88	29.92	0.00		35.14	
Microcephalus	51	114	12	4	0	1	182	
	5.22	13.10	5.94	4.79	0.00		8.43	
Obstructive genitourinary defect	229	166	47	29	0	4	475	
	23.43	19.08	23.26	34.71	0.00		21.99	
Omphalocele	20	22	3	4	0	0	49	
	2.05	2.53	1.48	4.79	0.00		2.27	
Patent ductus arteriosus	290	230	50	32	1	8	611	
	29.67	26.43	24.75	38.30	23.70		28.29	
Pulmonary valve atresia and stenosis	59	72	7	4	0	2	144	
	6.04	8.27	3.46	4.79	0.00		6.67	
Pyloric stenosis	194	63	39	4	0	1	301	
	19.85	7.24	19.30	4.79	0.00		13.93	
Rectal and large intestinal atresia/stenosis	31	34	5	4	0	1	75	
	3.17	3.91	2.47	4.79	0.00		3.47	
Reduction deformity, lower limbs	22	20	1	1	0	0	44	
	2.25	2.30	0.49	1.20	0.00		2.04	
Reduction deformity, upper limbs	46	26	6	3	0	2	83	
	4.71	2.99	2.97	3.59	0.00		3.84	
Renal agenesis/hypoplasia	44	43	2	4	0	2	95	
	4.50	4.94	0.99	4.79	0.00		4.40	
Spina bifida without anencephalus	53	28	8	1	0	6	96	include terminations
	5.42	3.22	3.96	1.20	0.00		4.44	
Tetralogy of Fallot	45	42	6	4	0	0	97	
	4.60	4.83	2.97	4.79	0.00		4.49	
Transposition of great arteries	55	44	9	7	0	1	116	
	5.63	5.06	4.45	8.38	0.00		5.37	
Tricuspid valve atresia and stenosis	18	20	2	1	0	1	42	
	1.84	2.30	0.99	1.20	0.00		1.94	
Trisomy 13	16	16	2	0	0	0	34	
	1.64	1.84	0.99	0.00	0.00		1.57	
Trisomy 18	23	26	6	3	0	0	58	
	2.35	2.99	2.97	3.59	0.00		2.69	

Georgia

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Ventricular septal defect	389	260	86	26	1	8	770	
	39.80	29.88	42.57	31.12	23.70		35.65	
Total Live Births	97,740	87,019	20,204	8,355	422		216,009	

Georgia

Trisomy Counts and Rates by Maternal Age 1995-1999

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total*
Down syndrome	173	95	269
	9.41	29.68	12.45
Trisomy 13	26	8	34
	1.41	2.50	1.57
Trisomy 18	37	21	58
	2.01	6.56	2.69
Total Live Births	183,925	32,007	216,009

* Total includes unknown age

Hawaii

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Amniotic bands	3	0	0	11	0	1	15	
	1.50	0.00	0.00	1.82	0.00		1.68	
Anencephalus	5	0	2	25	1	1	34	
	2.49	0.00	16.38	4.13	10.18		3.82	
Aniridia	0	0	0	2	0	0	2	
	0.00	0.00	0.00	0.33	0.00		0.22	
Anophthalmia/ microphthalmia	7	0	2	23	1	0	33	
	3.49	0.00	16.38	3.80	10.18		3.70	
Anotia/microtia	4	0	2	23	3	0	32	
	1.99	0.00	16.38	3.80	30.55		3.59	
Aortic valve stenosis	1	0	0	7	0	1	9	
	0.50	0.00	0.00	1.16	0.00		1.01	
Atrial septal defect	43	5	6	146	2	1	203	
	21.44	16.74	49.14	24.09	20.37		22.79	
Biliary atresia	0	0	0	6	1	0	7	
	0.00	0.00	0.00	0.99	10.18		0.79	
Bladder exstrophy	1	0	0	3	1	0	5	
	0.50	0.00	0.00	0.50	10.18		0.56	
Choanal atresia	5	0	0	6	0	0	11	
	2.49	0.00	0.00	0.99	0.00		1.23	
Cleft lip with and without cleft palate	21	5	5	92	3	3	129	
	10.47	16.74	40.95	15.18	30.55		14.48	
Cleft palate without cleft lip	13	1	0	55	1	0	70	
	6.48	3.35	0.00	9.08	10.18		7.86	
Coarctation of aorta	12	0	1	8	1	0	22	
	5.98	0.00	8.19	1.32	10.18		2.47	
Common truncus	2	0	0	8	0	0	10	
	1.00	0.00	0.00	1.32	0.00		1.12	
Congenital cataract	7	0	2	7	0	0	16	
	3.49	0.00	16.38	1.16	0.00		1.80	
Congenital hip dislocation	12	0	0	35	0	0	47	
	5.98	0.00	0.00	5.78	0.00		5.28	
Diaphragmatic hernia	7	0	0	14	0	2	23	
	3.49	0.00	0.00	2.31	0.00		2.58	
Down syndrome	44	0	2	88	1	8	143	
	21.94	0.00	16.38	14.52	10.18		16.05	
Ebstein's anomaly	4	0	0	4	0	0	8	
	1.99	0.00	0.00	0.66	0.00		0.90	
Encephalocele	2	0	1	20	0	0	23	
	1.00	0.00	8.19	3.30	0.00		2.58	
Endocardial cushion defect	2	1	1	18	0	1	23	
	1.00	3.35	8.19	2.97	0.00		2.58	
Esophageal atresia/ tracheoesophageal fistula	7	0	0	10	0	0	17	
	3.49	0.00	0.00	1.65	0.00		1.91	

Hawaii

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Fetal alcohol syndrome	8 3.99	0 0.00	0 0.00	15 2.48	2 20.37	0	25 2.81	
Gastroschisis	10 4.99	1 3.35	2 16.38	26 4.29	0 0.00	0	39 4.38	
Hirschsprung's disease (congenital megacolon)	2 1.00	2 6.70	0 0.00	16 2.64	0 0.00	0	20 2.25	
Hydrocephalus without Spina Bifida	23 11.47	3 10.05	1 8.19	66 10.89	1 10.18	9	103 11.56	
Hypoplastic left heart syndrome	2 1.00	0 0.00	1 8.19	9 1.49	0 0.00	1	13 1.46	
Hypospadias and Epispadias	70 34.90	6 20.09	8 65.52	174 28.71	4 40.73	2	264 29.64	
Microcephalus	6 2.99	2 6.70	1 8.19	63 10.40	3 30.55	1	76 8.53	
Obstructive genitourinary defect	36 17.95	9 30.14	5 40.95	88 14.52	3 30.55	1	142 15.94	
Omphalocele	6 2.99	1 3.35	0 0.00	20 3.30	1 10.18	3	31 3.48	
Patent ductus arteriosus	134 66.81	19 63.63	22 180.18	679 112.04	11 112.02	4	869 97.55	
Pulmonary valve atresia and stenosis	4 1.99	0 0.00	1 8.19	21 3.47	0 0.00	0	26 2.92	
Pyloric stenosis	32 15.95	5 16.74	4 32.76	25 4.13	0 0.00	0	66 7.41	
Rectal and large intestinal atresia/stenosis	7 3.49	1 3.35	0 0.00	33 5.45	0 0.00	2	43 4.83	
Reduction deformity, lower limbs	5 2.49	0 0.00	0 0.00	9 1.49	0 0.00	0	14 1.57	
Reduction deformity, upper limbs	5 2.49	1 3.35	0 0.00	22 3.63	0 0.00	0	28 3.14	
Renal agenesis/hypoplasia	13 6.48	2 6.70	0 0.00	33 5.45	0 0.00	2	50 5.61	
Spina bifida without anencephalus	12 5.98	1 3.35	1 8.19	30 4.95	0 0.00	2	46 5.16	
Tetralogy of Fallot	6 2.99	0 0.00	0 0.00	22 3.63	0 0.00	0	28 3.14	
Transposition of great arteries	11 5.48	0 0.00	1 8.19	34 5.61	1 10.18	2	49 5.50	
Tricuspid valve atresia and stenosis	2 1.00	0 0.00	0 0.00	11 1.82	0 0.00	1	14 1.57	
Trisomy 13	7 3.49	0 0.00	2 16.38	12 1.98	0 0.00	2	23 2.58	
Trisomy 18	9 4.49	3 10.05	1 8.19	39 6.44	1 10.18	5	58 6.51	

Hawaii

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Ventricular septal defect	87	8	8	276	4	4	387	
	43.37	26.79	65.52	45.54	40.73		43.44	
Total Live Births	20,058	2,986	1,221	60,605	982		89,079	

Hawaii

Trisomy Counts and Rates by Maternal Age 1995-1999

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total*
Down syndrome	64	79	143
	8.47	58.44	16.05
Trisomy 13	11	11	23
	1.46	8.14	2.58
Trisomy 18	28	30	58
	3.71	22.19	6.51
Total Live Births	75,546	13,518	89,079

* Total includes unknown age

Notes:

1. Includes stillbirth/termination cases for all defects.

Illinois

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Anencephalus	98 <i>1.84</i>	20 <i>1.12</i>	48 <i>2.83</i>	1 <i>0.31</i>	1 <i>8.42</i>	2	170 <i>1.86</i>	Includes fetal deaths > 20 weeks
Aniridia	0 <i>0.00</i>	3 <i>0.17</i>	1 <i>0.06</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	4 <i>0.04</i>	
Anophthalmia/ microphthalmia	57 <i>1.07</i>	25 <i>1.41</i>	9 <i>0.53</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	91 <i>1.00</i>	
Anotia/microtia	19 <i>0.36</i>	1 <i>0.06</i>	13 <i>0.77</i>	1 <i>0.31</i>	0 <i>0.00</i>	0	34 <i>0.37</i>	
Aortic valve stenosis	56 <i>1.05</i>	4 <i>0.22</i>	8 <i>0.47</i>	1 <i>0.31</i>	0 <i>0.00</i>	0	69 <i>0.75</i>	
Atrial septal defect	1,202 <i>22.60</i>	323 <i>18.16</i>	232 <i>13.68</i>	35 <i>10.76</i>	3 <i>25.27</i>	7	1,802 <i>19.71</i>	only birthweight >= 2500 grams
Biliary atresia	15 <i>0.28</i>	10 <i>0.56</i>	4 <i>0.24</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	29 <i>0.32</i>	
Bladder exstrophy	28 <i>0.53</i>	4 <i>0.22</i>	2 <i>0.12</i>	1 <i>0.31</i>	0 <i>0.00</i>	0	35 <i>0.38</i>	
Choanal atresia	58 <i>1.09</i>	11 <i>0.62</i>	18 <i>1.06</i>	5 <i>1.54</i>	0 <i>0.00</i>	0	92 <i>1.01</i>	
Cleft lip with and without cleft palate	362 <i>6.81</i>	78 <i>4.39</i>	108 <i>6.37</i>	18 <i>5.53</i>	4 <i>33.70</i>	2	572 <i>6.26</i>	
Cleft palate without cleft lip	237 <i>4.46</i>	46 <i>2.59</i>	44 <i>2.59</i>	7 <i>2.15</i>	1 <i>8.42</i>	0	335 <i>3.66</i>	
Coarctation of aorta	145 <i>2.73</i>	33 <i>1.86</i>	33 <i>1.95</i>	1 <i>0.31</i>	0 <i>0.00</i>	0	212 <i>2.32</i>	
Common truncus	23 <i>0.43</i>	10 <i>0.56</i>	4 <i>0.24</i>	1 <i>0.31</i>	0 <i>0.00</i>	0	38 <i>0.42</i>	
Congenital cataract	37 <i>0.70</i>	10 <i>0.56</i>	12 <i>0.71</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	59 <i>0.65</i>	
Congenital hip dislocation	70 <i>1.32</i>	12 <i>0.67</i>	32 <i>1.89</i>	2 <i>0.61</i>	0 <i>0.00</i>	1	117 <i>1.28</i>	
Diaphragmatic hernia	146 <i>2.74</i>	41 <i>2.31</i>	49 <i>2.89</i>	8 <i>2.46</i>	0 <i>0.00</i>	0	244 <i>2.67</i>	
Down syndrome	601 <i>11.30</i>	130 <i>7.31</i>	168 <i>9.91</i>	24 <i>7.38</i>	3 <i>25.27</i>	1	927 <i>10.14</i>	
Ebstein's anomaly	29 <i>0.55</i>	2 <i>0.11</i>	3 <i>0.18</i>	1 <i>0.31</i>	1 <i>8.42</i>	0	36 <i>0.39</i>	
Encephalocele	32 <i>0.60</i>	18 <i>1.01</i>	12 <i>0.71</i>	2 <i>0.61</i>	1 <i>8.42</i>	2	67 <i>0.73</i>	
Endocardial cushion defect	147 <i>2.76</i>	34 <i>1.91</i>	25 <i>1.47</i>	5 <i>1.54</i>	0 <i>0.00</i>	0	211 <i>2.31</i>	
Esophageal atresia/ tracheoesophageal fistula	172 <i>3.23</i>	24 <i>1.35</i>	23 <i>1.36</i>	10 <i>3.07</i>	0 <i>0.00</i>	0	229 <i>2.51</i>	
Fetal alcohol syndrome	45 <i>0.85</i>	148 <i>8.32</i>	10 <i>0.59</i>	1 <i>0.31</i>	1 <i>8.42</i>	0	204 <i>2.23</i>	
Hirschsprung's disease (congenital megacolon)	83 <i>1.56</i>	49 <i>2.76</i>	17 <i>1.00</i>	9 <i>2.77</i>	0 <i>0.00</i>	1	159 <i>1.74</i>	

Illinois

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Hydrocephalus without Spina Bifida	282 5.30	175 9.84	93 5.48	9 2.77	1 8.42	7	567 6.20	
Hypoplastic left heart syndrome	93 1.75	16 0.90	18 1.06	1 0.31	0 0.00	1	129 1.41	
Hypospadias and Epispadias	259 4.87	51 2.87	37 2.18	5 1.54	1 8.42	1	354 3.87	
Microcephalus	116 2.18	144 8.10	40 2.36	5 1.54	0 0.00	1	306 3.35	
Obstructive genitourinary defect	555 10.43	152 8.55	141 8.31	19 5.84	1 8.42	4	872 9.54	
Patent ductus arteriosus	1,127 21.19	304 17.10	220 12.97	47 14.45	5 42.12	2	1,705 18.65	
Pulmonary valve atresia and stenosis	216 4.06	56 3.15	39 2.30	7 2.15	0 0.00	0	318 3.48	
Pyloric stenosis	320 6.02	21 1.18	53 3.12	8 2.46	0 0.00	0	402 4.40	
Rectal and large intestinal atresia/stenosis	173 3.25	39 2.19	59 3.48	8 2.46	0 0.00	1	280 3.06	
Reduction deformity, lower limbs	51 0.96	11 0.62	16 0.94	1 0.31	0 0.00	1	80 0.88	
Reduction deformity, upper limbs	91 1.71	25 1.41	20 1.18	3 0.92	0 0.00	0	139 1.52	
Renal agenesis/hypoplasia	112 2.11	30 1.69	20 1.18	3 0.92	0 0.00	5	170 1.86	
Spina bifida without anencephalus	148 2.78	62 3.49	61 3.60	5 1.54	0 0.00	5	281 3.07	Includes fetal deaths > 20 weeks
Tetralogy of Fallot	164 3.08	42 2.36	20 1.18	8 2.46	0 0.00	0	234 2.56	
Transposition of great arteries	152 2.86	38 2.14	37 2.18	6 1.84	0 0.00	0	233 2.55	
Tricuspid valve atresia and stenosis	33 0.62	13 0.73	10 0.59	0 0.00	0 0.00	0	56 0.61	
Trisomy 13	57 1.07	19 1.07	12 0.71	1 0.31	0 0.00	1	90 0.98	
Trisomy 18	90 1.69	37 2.08	30 1.77	5 1.54	0 0.00	3	165 1.81	
Ventricular septal defect	1,279 24.05	287 16.14	303 17.86	36 11.06	6 50.55	7	1,918 20.98	Includes probable cases
Total Live Births	531,893	177,826	169,608	32,536	1,187		914,059	

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Illinois

Trisomy Counts and Rates by Maternal Age 1995-1999

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	503 <i>6.32</i>	361 <i>30.41</i>	927 <i>10.14</i>
Trisomy 13	62 <i>0.78</i>	24 <i>2.02</i>	90 <i>0.98</i>
Trisomy 18	105 <i>1.32</i>	54 <i>4.55</i>	165 <i>1.81</i>
Total Live Births	795,312	118,694	914,059

* Total includes unknown age

Iowa

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Amniotic bands	15 <i>0.91</i>	2 <i>3.91</i>	1 <i>1.01</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	18 <i>0.97</i>	
Anencephalus	58 <i>3.50</i>	3 <i>5.87</i>	4 <i>4.03</i>	1 <i>2.74</i>	0 <i>0.00</i>	10	76 <i>4.10</i>	
Aniridia	0 <i>0.00</i>	1 <i>1.96</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	1 <i>0.05</i>	
Anophthalmia/ microphthalmia	25 <i>1.51</i>	1 <i>1.96</i>	3 <i>3.02</i>	0 <i>0.00</i>	0 <i>0.00</i>	8	37 <i>2.00</i>	
Anotia/microtia	87 <i>5.25</i>	4 <i>7.83</i>	2 <i>2.01</i>	1 <i>2.74</i>	0 <i>0.00</i>	6	100 <i>5.39</i>	
Aortic valve stenosis	61 <i>3.68</i>	3 <i>5.87</i>	0 <i>0.00</i>	1 <i>2.74</i>	0 <i>0.00</i>	4	69 <i>3.72</i>	
Atrial septal defect	342 <i>20.66</i>	18 <i>35.23</i>	15 <i>15.11</i>	4 <i>10.97</i>	4 <i>46.30</i>	23	406 <i>21.90</i>	
Biliary atresia	10 <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	10 <i>0.54</i>	
Bladder exstrophy	7 <i>0.42</i>	0 <i>0.00</i>	1 <i>1.01</i>	0 <i>0.00</i>	0 <i>0.00</i>	1	9 <i>0.49</i>	
Choanal atresia	49 <i>2.96</i>	3 <i>5.87</i>	1 <i>1.01</i>	1 <i>2.74</i>	0 <i>0.00</i>	2	56 <i>3.02</i>	
Cleft lip with and without cleft palate	199 <i>12.02</i>	8 <i>15.66</i>	9 <i>9.06</i>	1 <i>2.74</i>	1 <i>11.57</i>	20	238 <i>12.84</i>	
Cleft palate without cleft lip	122 <i>7.37</i>	1 <i>1.96</i>	7 <i>7.05</i>	2 <i>5.48</i>	0 <i>0.00</i>	8	140 <i>7.55</i>	
Coarctation of aorta	112 <i>6.76</i>	5 <i>9.79</i>	3 <i>3.02</i>	0 <i>0.00</i>	0 <i>0.00</i>	9	129 <i>6.96</i>	
Common truncus	15 <i>0.91</i>	0 <i>0.00</i>	1 <i>1.01</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	16 <i>0.86</i>	
Congenital cataract	53 <i>3.20</i>	2 <i>3.91</i>	4 <i>4.03</i>	0 <i>0.00</i>	1 <i>11.57</i>	4	64 <i>3.45</i>	
Congenital hip dislocation	172 <i>10.39</i>	3 <i>5.87</i>	13 <i>13.09</i>	0 <i>0.00</i>	1 <i>11.57</i>	9	198 <i>10.68</i>	
Diaphragmatic hernia	44 <i>2.66</i>	1 <i>1.96</i>	1 <i>1.01</i>	0 <i>0.00</i>	1 <i>11.57</i>	1	48 <i>2.59</i>	
Down syndrome	208 <i>12.56</i>	8 <i>15.66</i>	10 <i>10.07</i>	1 <i>2.74</i>	0 <i>0.00</i>	17	244 <i>13.16</i>	
Ebstein's anomaly	6 <i>0.36</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1	7 <i>0.38</i>	
Encephalocele	18 <i>1.09</i>	1 <i>1.96</i>	1 <i>1.01</i>	0 <i>0.00</i>	1 <i>11.57</i>	2	23 <i>1.24</i>	
Endocardial cushion defect	80 <i>4.83</i>	4 <i>7.83</i>	1 <i>1.01</i>	1 <i>2.74</i>	0 <i>0.00</i>	3	89 <i>4.80</i>	
Esophageal atresia/ tracheoesophageal fistula	49 <i>2.96</i>	1 <i>1.96</i>	2 <i>2.01</i>	1 <i>2.74</i>	0 <i>0.00</i>	2	55 <i>2.97</i>	

Iowa

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Fetal alcohol syndrome	6 <i>0.36</i>	3 <i>5.87</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>11.57</i>	0	10 <i>0.54</i>	
Gastroschisis	53 <i>3.20</i>	4 <i>7.83</i>	1 <i>1.01</i>	0 <i>0.00</i>	1 <i>11.57</i>	8	67 <i>3.61</i>	
Hirschsprung's disease (congenital megacolon)	23 <i>1.39</i>	2 <i>3.91</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1	26 <i>1.40</i>	
Hydrocephalus without Spina Bifida	150 <i>9.06</i>	4 <i>7.83</i>	7 <i>7.05</i>	1 <i>2.74</i>	2 <i>23.15</i>	24	188 <i>10.14</i>	
Hypoplastic left heart syndrome	67 <i>4.05</i>	4 <i>7.83</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	2	73 <i>3.94</i>	
Hypospadias and Epispadias	594 <i>35.88</i>	14 <i>27.40</i>	10 <i>10.07</i>	4 <i>10.97</i>	1 <i>11.57</i>	22	645 <i>34.79</i>	
Microcephalus	139 <i>8.40</i>	14 <i>27.40</i>	10 <i>10.07</i>	1 <i>2.74</i>	3 <i>34.72</i>	24	191 <i>10.30</i>	
Obstructive genitourinary defect	297 <i>17.94</i>	11 <i>21.53</i>	11 <i>11.08</i>	1 <i>2.74</i>	2 <i>23.15</i>	24	346 <i>18.67</i>	
Omphalocele	43 <i>2.60</i>	0 <i>0.00</i>	3 <i>3.02</i>	0 <i>0.00</i>	0 <i>0.00</i>	8	54 <i>2.91</i>	
Patent ductus arteriosus	572 <i>34.55</i>	32 <i>62.63</i>	26 <i>26.19</i>	5 <i>13.71</i>	3 <i>34.72</i>	45	683 <i>36.84</i>	
Pulmonary valve atresia and stenosis	159 <i>9.60</i>	3 <i>5.87</i>	4 <i>4.03</i>	3 <i>8.23</i>	1 <i>11.57</i>	12	182 <i>9.82</i>	
Pyloric stenosis	393 <i>23.74</i>	5 <i>9.79</i>	13 <i>13.09</i>	0 <i>0.00</i>	1 <i>11.57</i>	26	438 <i>23.63</i>	
Rectal and large intestinal atresia/stenosis	89 <i>5.38</i>	2 <i>3.91</i>	5 <i>5.04</i>	0 <i>0.00</i>	0 <i>0.00</i>	6	102 <i>5.50</i>	
Reduction deformity, lower limbs	38 <i>2.30</i>	3 <i>5.87</i>	2 <i>2.01</i>	0 <i>0.00</i>	0 <i>0.00</i>	3	46 <i>2.48</i>	
Reduction deformity, upper limbs	81 <i>4.89</i>	3 <i>5.87</i>	3 <i>3.02</i>	0 <i>0.00</i>	0 <i>0.00</i>	6	93 <i>5.02</i>	
Renal agenesis/hypoplasia	89 <i>5.38</i>	2 <i>3.91</i>	3 <i>3.02</i>	0 <i>0.00</i>	0 <i>0.00</i>	4	98 <i>5.29</i>	
Spina bifida without anencephalus	96 <i>5.80</i>	2 <i>3.91</i>	7 <i>7.05</i>	0 <i>0.00</i>	1 <i>11.57</i>	11	117 <i>6.31</i>	
Tetralogy of Fallot	59 <i>3.56</i>	2 <i>3.91</i>	1 <i>1.01</i>	0 <i>0.00</i>	0 <i>0.00</i>	2	64 <i>3.45</i>	
Transposition of great arteries	80 <i>4.83</i>	1 <i>1.96</i>	7 <i>7.05</i>	2 <i>5.48</i>	0 <i>0.00</i>	5	95 <i>5.12</i>	
Tricuspid valve atresia and stenosis	20 <i>1.21</i>	0 <i>0.00</i>	1 <i>1.01</i>	0 <i>0.00</i>	0 <i>0.00</i>	1	22 <i>1.19</i>	
Trisomy 13	19 <i>1.15</i>	1 <i>1.96</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1	21 <i>1.13</i>	
Trisomy 18	29 <i>1.75</i>	1 <i>1.96</i>	2 <i>2.01</i>	0 <i>0.00</i>	0 <i>0.00</i>	6	38 <i>2.05</i>	

Iowa

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Ventricular septal defect	659	24	29	6	4	56	778	
	<i>39.80</i>	<i>46.98</i>	<i>29.21</i>	<i>16.45</i>	<i>46.30</i>		<i>41.97</i>	
Total Live Births	165,561	5,109	9,929	3,647	864		185,372	

Iowa

Trisomy Counts and Rates by Maternal Age 1995-1999

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total*
Down syndrome	152	90	244
	<i>9.15</i>	<i>46.96</i>	<i>13.16</i>
Trisomy 13	16	5	21
	<i>0.96</i>	<i>2.61</i>	<i>1.13</i>
Trisomy 18	23	15	38
	<i>1.38</i>	<i>7.83</i>	<i>2.05</i>
Total Live Births	166,178	19,166	185,372

* Total includes unknown age

Kentucky

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Anencephalus	74 3.18	2 0.83	1 2.96	1 25.19	0 0.00	0 0	78 2.91	Data for 1995-1999
Aortic valve stenosis	5 0.22	0 0.00	0 0.00	0 0.00	0 0.00	0 0	5 0.19	
Atrial septal defect	394 16.95	72 29.97	0 0.00	0 0.00	0 0.00	62 2.42	528 19.71	
Biliary atresia	5 0.22	2 0.83	0 0.00	0 0.00	0 0.00	0 0	7 0.26	
Bladder exstrophy	4 0.17	1 0.42	0 0.00	0 0.00	0 0.00	1 0.38	6 0.22	
Choanal atresia	11 0.47	2 0.83	0 0.00	0 0.00	0 0.00	1 0.38	14 0.52	
Cleft lip with and without cleft palate	104 4.47	6 2.50	0 0.00	0 0.00	0 0.00	10 3.96	120 4.48	
Cleft palate without cleft lip	78 3.36	6 2.50	0 0.00	0 0.00	0 0.00	14 5.19	98 3.66	
Coarctation of aorta	46 1.98	4 1.67	0 0.00	0 0.00	0 0.00	6 2.22	56 2.09	
Common truncus	5 0.22	1 0.42	0 0.00	0 0.00	0 0.00	1 0.38	7 0.26	
Congenital cataract	10 0.43	0 0.00	0 0.00	0 0.00	0 0.00	0 0	10 0.37	
Congenital hip dislocation	77 3.31	1 0.42	0 0.00	0 0.00	0 0.00	14 5.19	92 3.43	
Diaphragmatic hernia	31 1.33	3 1.25	0 0.00	0 0.00	0 0.00	2 0.74	36 1.34	
Down syndrome	98 4.22	7 2.91	0 0.00	0 0.00	0 0.00	9 3.33	114 4.25	
Ebstein's anomaly	5 0.22	0 0.00	0 0.00	0 0.00	0 0.00	0 0	5 0.19	
Encephalocele	19 0.82	2 0.83	1 2.96	0 0.00	0 0.00	0 0	22 0.82	Data for 1995-1999
Endocardial cushion defect	27 1.16	1 0.42	0 0.00	0 0.00	0 0.00	5 1.85	33 1.23	
Esophageal atresia/ tracheoesophageal fistula	29 1.25	3 1.25	0 0.00	0 0.00	0 0.00	2 0.74	34 1.27	
Fetal alcohol syndrome	8 0.34	1 0.42	0 0.00	0 0.00	0 0.00	2 0.74	11 0.41	
Gastroschisis	20 0.86	3 1.25	0 0.00	0 0.00	0 0.00	1 0.38	24 0.90	1998-1999: use code 756.72
Hirschsprung's disease (congenital megacolon)	15 0.65	2 0.83	0 0.00	0 0.00	0 0.00	1 0.38	18 0.67	

Kentucky

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Hydrocephalus without Spina Bifida	63 2.71	11 4.58	0 0.00	0 0.00	0 0.00	12 4.28	86 3.21	
Hypoplastic left heart syndrome	26 1.12	3 1.25	0 0.00	0 0.00	1 4.28	2 1.19	32 1.19	
Hypospadias and Epispadias	235 10.11	18 7.49	0 0.00	1 25.19	0 0.00	22 10.30	276 10.30	
Microcephalus	50 2.15	5 2.08	0 0.00	0 0.00	0 0.00	2 2.13	57 2.13	
Obstructive genitourinary defect	130 5.59	14 5.83	0 0.00	0 0.00	0 0.00	12 5.82	156 5.82	
Omphalocele	10 0.43	1 0.42	0 0.00	0 0.00	0 0.00	1 0.45	12 0.45	1998-1999: use code 756.73
Patent ductus arteriosus	525 22.58	87 36.21	0 0.00	0 0.00	1 4.28	79 25.83	692 25.83	
Pulmonary valve atresia and stenosis	62 2.67	7 2.91	0 0.00	0 0.00	0 0.00	6 2.80	75 2.80	
Pyloric stenosis	223 9.59	13 5.41	0 0.00	1 25.19	1 4.28	19 9.59	257 9.59	
Rectal and large intestinal atresia/stenosis	40 1.72	4 1.67	0 0.00	0 0.00	0 0.00	4 1.79	48 1.79	
Reduction deformity, lower limbs	13 0.56	6 2.50	0 0.00	0 0.00	0 0.00	0 0.75	20 0.75	
Reduction deformity, upper limbs	16 0.69	3 1.25	0 0.00	0 0.00	0 0.00	1 0.75	20 0.75	
Renal agenesis/hypoplasia	17 0.73	1 0.42	0 0.00	0 0.00	0 0.00	1 0.71	19 0.71	
Spina bifida without anencephalus	117 5.03	8 3.33	1 2.96	0 0.00	0 0.00	0 4.70	126 4.70	Data for 1995-1999
Tetralogy of Fallot	32 1.38	6 2.50	0 0.00	0 0.00	0 0.00	2 1.49	40 1.49	
Transposition of great arteries	28 1.20	1 0.42	0 0.00	0 0.00	0 0.00	2 1.16	31 1.16	
Tricuspid valve atresia and stenosis	7 0.30	1 0.42	0 0.00	0 0.00	0 0.00	0 0.30	8 0.30	
Trisomy 13	14 0.60	0 0.00	0 0.00	0 0.00	0 0.00	1 0.56	15 0.56	
Trisomy 18	18 0.77	3 1.25	0 0.00	0 0.00	0 0.00	5 0.97	26 0.97	
Ventricular septal defect	300 12.91	43 17.90	0 0.00	0 0.00	0 0.00	31 13.96	374 13.96	
Total Live Births	232,461	24,024	3,383	397	2,337	267,949		

S168 BIRTH DEFECTS DATA

Kentucky

Trisomy Counts and Rates by Maternal Age 1998-1999

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	73 <i>7.30</i>	32 <i>34.58</i>	114 <i>10.42</i>
Trisomy 13	13 <i>1.30</i>	1 <i>1.08</i>	15 <i>1.37</i>
Trisomy 18	14 <i>1.40</i>	5 <i>5.40</i>	26 <i>2.38</i>
Total Live Births	100,054	9,254	109,354

* Total includes unknown age

Notes:

1. The total live births table includes BOTH live and stillbirths for each year reported.
2. Codes used for reporting include both ICD-9 and ICD-10 (vital statistics data for 1999 and forward).
3. Data for 1995-1997 only includes Neural Tube Defects since these conditions were the only ones that were reviewed through medical records abstraction, and for which we have complete reporting. All other birth defects and NTD's were submitted for years 1998 and 1999. Contact the Kentucky Birth Surveillance Registry (KBSR) for data on amniotic bands, aniridia, anophthalmia/microphthalmia, and anotia/microtia.
4. The Hispanic category in the race table includes ALL races since Hispanic origin was obtained from the birth certificate as an ethnicity and not a race category. The Unknown category in the race table includes unknown race as well as those with an unknown Hispanic origin.

Maryland

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Anencephalus	57 2.69	21 2.11				16	94 2.79	
Cleft lip with and without cleft palate	177 8.35	51 5.13				20	248 7.37	
Cleft palate without cleft lip	116 5.47	34 3.42				9	159 4.72	
Congenital hip dislocation	81 3.82	14 1.41				12	107 3.18	
Down syndrome	260 12.27	95 9.55				47	402 11.94	
Esophageal atresia/tracheoesophageal fistula	40 1.89	17 1.71				2	59 1.75	
Hydrocephalus without Spina Bifida	67 3.16	48 4.83				17	132 3.92	
Hypospadias and Epispadias	548 25.86	184 18.51				30	762 22.63	
Rectal and large intestinal atresia/stenosis	56 2.64	20 2.01				7	83 2.47	
Reduction deformity, lower limbs	49 2.31	38 3.82				5	92 2.73	
Reduction deformity, upper limbs	70 3.30	21 2.11				9	100 2.97	
Spina bifida without anencephalus	91 4.29	19 1.91				11	121 3.59	
Total Live Births	211,902	99,427					336,652	

Maryland

Trisomy Counts and Rates by Maternal Age 1995-1999

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total*
Down syndrome	240 8.43	161 31.06	402 11.94
Total Live Births	284,692	51,832	336,652

* Total includes unknown age

Massachusetts

Birth Defects Counts and Rates 1999

(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	Other/Unknown		
Amniotic bands	4	0	0	0			4	
	0.66	0.00	0.00	0.00			0.49	
Anencephalus	4	2	1	0			7	"Other" includes American Indian and Alaskan Native with other ethnic groups
	0.66	3.42	1.13	0.00			0.87	
Aniridia	1	0	0	0			1	
	0.17	0.00	0.00	0.00			0.12	
Anophthalmia/microphthalmia	3	0	0	1			4	
	0.50	0.00	0.00	2.42			0.49	
Anotia/microtia	7	0	3	1		1	12	
	1.16	0.00	3.40	2.42			1.48	
Aortic valve stenosis	10	1	1	0			12	
	1.66	1.71	1.13	0.00			1.48	
Atrial septal defect	69	4	15	1		2	91	
	11.42	6.84	17.02	2.42			11.25	
Biliary atresia	1	1	1	0			3	
	0.17	1.71	1.13	0.00			0.37	
Bladder exstrophy	0	0	1	0			1	
	0.00	0.00	1.13	0.00			0.12	
Choanal atresia	2	0	0	0			2	
	0.33	0.00	0.00	0.00			0.25	
Cleft lip with and without cleft palate	48	1	11	5		2	67	excludes bifid uvula, cleft gum.
	7.95	1.71	12.48	12.08			8.29	
Cleft palate without cleft lip	38	1	3	1		1	44	
	6.29	1.71	3.40	2.42			5.44	
Coarctation of aorta	20	3	1	0		1	25	
	3.31	5.13	1.13	0.00			3.09	
Common truncus	1	0	0	0			1	
	0.17	0.00	0.00	0.00			0.12	
Congenital cataract	9	1	1	0			11	
	1.49	1.71	1.13	0.00			1.36	
Diaphragmatic hernia	14	0	1	1			16	
	2.32	0.00	1.13	2.42			1.98	
Down syndrome	51	5	5	1		3	65	
	8.44	8.56	5.67	2.42			8.04	
Ebstein's anomaly	3	0	1	0			4	
	0.50	0.00	1.13	0.00			0.49	
Encephalocele	4	0	0	0			4	
	0.66	0.00	0.00	0.00			0.49	
Endocardial cushion defect	20	1	2	1			24	
	3.31	1.71	2.27	2.42			2.97	
Esophageal atresia/tracheoesophageal fistula	16	1	2	1			20	
	2.65	1.71	2.27	2.42			2.47	

Massachusetts

Birth Defects Counts and Rates 1999

(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	Other/Unknown		
Gastroschisis	11	0	1	2			14	
	1.82	0.00	1.13	4.83			1.73	
Hirschsprung's disease (congenital megacolon)	4	2	2	0		2	10	
	0.66	3.42	2.27	0.00			1.24	
Hydrocephalus without Spina Bifida	15	1	2	1			19	
	2.48	1.71	2.27	2.42			2.35	
Hypoplastic left heart syndrome	9	2	1	0			12	
	1.49	3.42	1.13	0.00			1.48	
Hypospadias and Epispadias	34	4	4	5		1	48	Excludes 1st degree hypospadias and epispadias.
	5.63	6.84	4.54	12.08			5.94	
Microcephalus	11	3	5	0			19	Defined as head circumference 2 std below normal.
	1.82	5.13	5.67	0.00			2.35	
Obstructive genitourinary defect	29	3	6	1		3	42	Excludes isolated diagnosis without surgical intervention and secondary diagnosis without postnatal confirmation.
	4.80	5.13	6.81	2.42			5.19	
Omphalocele	6	1	1	2		1	11	
	0.99	1.71	1.13	4.83			1.36	
Patent ductus arteriosus	75	6	15	4		3	103	excludes GA < 36 wks and if persists for less than 5 days
	12.42	10.27	17.02	9.67			12.74	
Pulmonary valve atresia and stenosis	24	2	4	1		2	33	
	3.97	3.42	4.54	2.42			4.08	
Rectal and large intestinal atresia/stenosis	12	0	3	1		1	17	
	1.99	0.00	3.40	2.42			2.10	
Reduction deformity, lower limbs	3	2	1	0			6	
	0.50	3.42	1.13	0.00			0.74	
Reduction deformity, upper limbs	10	1	2	1			14	
	1.66	1.71	2.27	2.42			1.73	
Renal agenesis/hypoplasia	3	0	0	0			3	Excludes isolated renal agenesis/hypoplasia
	0.50	0.00	0.00	0.00			0.37	
Spina bifida without anencephalus	10	0	1	0			11	
	1.66	0.00	1.13	0.00			1.36	
Tetralogy of Fallot	21	1	1	0		1	24	
	3.48	1.71	1.13	0.00			2.97	
Transposition of great arteries	16	0	5	0			21	
	2.65	0.00	5.67	0.00			2.60	
Tricuspid valve atresia and stenosis	5	0	2	0			7	
	0.83	0.00	2.27	0.00			0.87	

Massachusetts

Birth Defects Counts and Rates 1999

(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	Other/Unknown		
Trisomy 13	1 0.17	0 0.00	1 1.13	0 0.00			2 0.25	
Trisomy 18	8 1.32	0 0.00	2 2.27	0 0.00		1	11 1.36	
Ventricular septal defect	50 8.28	6 10.27	10 11.34	0 0.00		2	68 8.41	excludes isolated muscular VSDs.
Total Live Births	60,402	5,844	8,815	4,138			80,866	

Massachusetts

Trisomy Counts and Rates by Maternal Age 1999

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total*
Down syndrome	24 3.74	41 24.47	65 8.04
Trisomy 13	1 0.16	1 0.60	2 0.25
Trisomy 18	5 0.78	6 3.58	11 1.36
Total Live Births	64,113	16,753	80,866

* Total includes unknown age

Michigan

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Anencephalus	47 0.94	5 0.41	2 0.74	1 0.71	1 2.64	2	58 0.86	
Aniridia	8 0.16	1 0.08	0 0.00	0 0.00	1 2.64	1	11 0.16	
Anophthalmia/ microphthalmia	70 1.40	18 1.48	8 2.96	6 4.25	1 2.64	3	106 1.58	
Anotia/microtia	40 0.80	7 0.58	2 0.74	1 0.71	0 0.00	2	52 0.77	
Aortic valve stenosis	118 2.36	8 0.66	5 1.85	0 0.00	2 5.28	3	136 2.02	
Atrial septal defect	2,523 50.48	682 56.08	131 48.44	45 31.91	19 50.12	61	3,461 51.45	
Biliary atresia	55 1.10	22 1.81	3 1.11	4 2.84	0 0.00	8	92 1.37	
Bladder exstrophy	20 0.40	2 0.16	0 0.00	0 0.00	1 2.64	2	25 0.37	
Choanal atresia	73 1.46	14 1.15	2 0.74	1 0.71	0 0.00	4	94 1.40	
Cleft lip with and without cleft palate	530 10.60	62 5.10	23 8.50	17 12.06	8 21.10	23	663 9.86	
Cleft palate without cleft lip	279 5.58	51 4.19	9 3.33	7 4.96	1 2.64	11	358 5.32	
Coarctation of aorta	289 5.78	41 3.37	12 4.44	3 2.13	4 10.55	7	356 5.29	
Common truncus	59 1.18	13 1.07	3 1.11	0 0.00	0 0.00	3	78 1.16	
Congenital cataract	94 1.88	21 1.73	3 1.11	1 0.71	1 2.64	3	123 1.83	
Congenital hip dislocation	714 14.29	52 4.28	25 9.24	24 17.02	3 7.91	25	843 12.53	
Diaphragmatic hernia	138 2.76	42 3.45	3 1.11	3 2.13	1 2.64	3	190 2.82	
Down syndrome	565 11.30	92 7.57	30 11.09	11 7.80	3 7.91	20	721 10.72	
Ebstein's anomaly	47 0.94	4 0.33	1 0.37	0 0.00	1 2.64	5	58 0.86	
Encephalocele	34 0.68	14 1.15	0 0.00	1 0.71	0 0.00	0	49 0.73	
Endocardial cushion defect	204 4.08	49 4.03	8 2.96	2 1.42	1 2.64	18	282 4.19	
Esophageal atresia/ tracheoesophageal fistula	171 3.42	34 2.80	6 2.22	1 0.71	3 7.91	3	218 3.24	
Fetal alcohol syndrome	56 1.12	71 5.84	2 0.74	2 1.42	0 0.00	2	133 1.98	

Michigan

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Hirschsprung's disease (congenital megacolon)	140 2.80	47 3.86	5 1.85	3 2.13	1 2.64	7	203 3.02	
Hydrocephalus without Spina Bifida	346 6.92	152 12.50	13 4.81	5 3.55	5 13.19	9	530 7.88	
Hypoplastic left heart syndrome	189 3.78	28 2.30	5 1.85	3 2.13	1 2.64	15	241 3.58	
Hypospadias and Epispadias	1,079 21.59	158 12.99	27 9.98	13 9.22	4 10.55	47	1,328 19.74	
Microcephalus	292 5.84	96 7.89	9 3.33	8 5.67	2 5.28	17	424 6.30	
Obstructive genitourinary defect	795 15.91	167 13.73	67 24.78	15 10.64	5 13.19	22	1,071 15.92	
Patent ductus arteriosus	1,207 24.15	313 25.74	66 24.41	27 19.15	8 21.10	13	1,634 24.29	
Pulmonary valve atresia and stenosis	474 9.48	144 11.84	30 11.09	12 8.51	4 10.55	22	686 10.20	
Pyloric stenosis	1,001 20.03	111 9.13	56 20.71	7 4.96	5 13.19	21	1,201 17.85	
Rectal and large intestinal atresia/stenosis	234 4.68	52 4.28	10 3.70	10 7.09	0 0.00	7	313 4.65	
Reduction deformity, lower limbs	59 1.18	21 1.73	6 2.22	2 1.42	0 0.00	1	89 1.32	
Reduction deformity, upper limbs	109 2.18	28 2.30	3 1.11	3 2.13	0 0.00	2	145 2.16	
Renal agenesis/hypoplasia	270 5.40	48 3.95	13 4.81	8 5.67	1 2.64	7	347 5.16	
Spina bifida without anencephalus	210 4.20	44 3.62	15 5.55	3 2.13	1 2.64	10	283 4.21	
Tetralogy of Fallot	253 5.06	57 4.69	20 7.40	12 8.51	4 10.55	17	363 5.40	
Transposition of great arteries	217 4.34	42 3.45	10 3.70	5 3.55	1 2.64	18	293 4.36	
Tricuspid valve atresia and stenosis	52 1.04	19 1.56	4 1.48	0 0.00	0 0.00	3	78 1.16	
Trisomy 13	40 0.80	12 0.99	3 1.11	2 1.42	0 0.00	0	57 0.85	
Trisomy 18	61 1.22	14 1.15	3 1.11	3 2.13	1 2.64	4	86 1.28	
Ventricular septal defect	1,985 39.72	351 28.86	85 31.43	49 34.75	16 42.21	91	2,577 38.31	
Total Live Births	499,781	121,606	27,043	14,102	3,791		672,733	

Michigan**Trisomy Counts and Rates by Maternal Age 1995-1999***(Rates per 10,000 Live Births)*

Defect	Age		Total*
	<35	35 and >	
Down syndrome	420	285	721
	<i>54.05</i>	<i>4.81</i>	<i>10.72</i>
Trisomy 13	45	12	57
	<i>5.79</i>	<i>0.20</i>	<i>0.85</i>
Trisomy 18	59	24	86
	<i>7.59</i>	<i>0.41</i>	<i>1.28</i>
Total Live Births	77,712	592,525	672,733

* Total includes unknown age

Missouri

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Anencephalus	68 2.29	14 2.54	5 5.57	2 3.54	0 0.00	1 0.00	90 2.44	
Aniridia	10 0.34	3 0.54	0 0.00	0 0.00	0 0.00	0 0.00	13 0.35	
Anophthalmia/ microphthalmia	57 1.92	17 3.08	2 2.23	0 0.00	0 0.00	0 0.00	76 2.06	
Anotia/microtia	16 0.54	5 0.91	1 1.11	0 0.00	0 0.00	0 0.00	22 0.60	
Aortic valve stenosis	70 2.36	6 1.09	1 1.11	1 1.77	0 0.00	0 0.00	78 2.12	
Atrial septal defect	1,834 61.83	508 92.03	63 70.17	29 51.26	10 80.19	7 0.00	2,451 66.53	
Biliary atresia	34 1.15	11 1.99	0 0.00	2 3.54	0 0.00	0 0.00	47 1.28	
Bladder exstrophy	16 0.54	1 0.18	0 0.00	0 0.00	0 0.00	0 0.00	17 0.46	
Choanal atresia	69 2.33	14 2.54	1 1.11	2 3.54	0 0.00	0 0.00	86 2.33	
Cleft lip with and without cleft palate	377 12.71	30 5.43	11 12.25	7 12.37	0 0.00	2 0.00	427 11.59	
Cleft palate without cleft lip	189 6.37	32 5.80	6 6.68	3 5.30	0 0.00	2 0.00	232 6.30	
Coarctation of aorta	193 6.51	21 3.80	5 5.57	6 10.61	1 8.02	0 0.00	226 6.13	
Common truncus	31 1.05	5 0.91	0 0.00	0 0.00	0 0.00	0 0.00	36 0.98	
Congenital cataract	71 2.39	15 2.72	1 1.11	1 1.77	0 0.00	0 0.00	88 2.39	
Congenital hip dislocation	476 16.05	36 6.52	16 17.82	3 5.30	1 8.02	0 0.00	532 14.44	
Diaphragmatic hernia	133 4.48	32 5.80	4 4.46	5 8.84	0 0.00	0 0.00	174 4.72	
Down syndrome	414 13.96	65 11.78	16 17.82	8 14.14	0 0.00	1 0.00	504 13.68	
Ebstein's anomaly	20 0.67	4 0.72	0 0.00	0 0.00	0 0.00	1 0.00	25 0.68	
Encephalocele	45 1.52	6 1.09	1 1.11	1 1.77	0 0.00	0 0.00	53 1.44	
Endocardial cushion defect	148 4.99	22 3.99	1 1.11	2 3.54	0 0.00	0 0.00	173 4.70	
Esophageal atresia/ tracheoesophageal fistula	85 2.87	13 2.36	5 5.57	0 0.00	1 8.02	0 0.00	104 2.82	
Fetal alcohol syndrome	26 0.88	38 6.88	0 0.00	1 1.77	0 0.00	0 0.00	65 1.76	

Missouri

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Hirschsprung's disease (congenital megacolon)	100 3.37	26 4.71	1 1.11	2 3.54	1 8.02	0	130 3.53	
Hydrocephalus without Spina Bifida	272 9.17	84 15.22	8 8.91	7 12.37	0 0.00	2	373 10.12	
Hypoplastic left heart syndrome	105 3.54	19 3.44	2 2.23	2 3.54	1 8.02	0	129 3.50	
Hypospadias and Epispadias	1,325 44.67	218 39.49	21 23.39	13 22.98	2 16.04	6	1,585 43.02	
Microcephalus	180 6.07	67 12.14	5 5.57	1 1.77	1 8.02	1	255 6.92	
Obstructive genitourinary defect	610 20.56	115 20.83	11 12.25	8 14.14	4 32.08	1	749 20.33	
Patent ductus arteriosus	1,436 48.41	353 63.95	45 50.12	25 44.19	5 40.10	4	1,868 50.70	
Pulmonary valve atresia and stenosis	360 12.14	112 20.29	8 8.91	5 8.84	1 8.02	4	490 13.30	
Pyloric stenosis	1,009 34.01	96 17.39	15 16.71	5 8.84	5 40.10	1	1,131 30.70	
Rectal and large intestinal atresia/stenosis	172 5.80	16 2.90	6 6.68	1 1.77	2 16.04	0	197 5.35	
Reduction deformity, lower limbs	48 1.62	12 2.17	2 2.23	0 0.00	1 8.02	0	63 1.71	
Reduction deformity, upper limbs	95 3.20	19 3.44	3 3.34	1 1.77	2 16.04	0	120 3.26	
Renal agenesis/hypoplasia	160 5.39	30 5.43	4 4.46	2 3.54	0 0.00	0	196 5.32	
Spina bifida without anencephalus	177 5.97	21 3.80	7 7.80	0 0.00	0 0.00	0	205 5.56	
Tetralogy of Fallot	147 4.96	32 5.80	6 6.68	7 12.37	1 8.02	0	193 5.24	
Transposition of great arteries	139 4.69	22 3.99	0 0.00	2 3.54	0 0.00	0	163 4.42	
Tricuspid valve atresia and stenosis	41 1.38	10 1.81	1 1.11	0 0.00	0 0.00	0	52 1.41	
Trisomy 13	28 0.94	8 1.45	0 0.00	1 1.77	0 0.00	0	37 1.00	
Trisomy 18	51 1.72	17 3.08	2 2.23	1 1.77	0 0.00	0	71 1.93	
Ventricular septal defect	1,404 47.33	247 44.75	35 38.98	16 28.28	6 48.12	5	1,713 46.50	
Total Live Births	296,634	55,199	8,978	5,657	1,247		368,414	

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Missouri

Trisomy Counts and Rates by Maternal Age 1995-1999

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	311 <i>9.43</i>	193 <i>50.21</i>	504 <i>13.68</i>
Trisomy 13	27 <i>0.82</i>	10 <i>2.60</i>	37 <i>1.00</i>
Trisomy 18	52 <i>1.58</i>	19 <i>4.94</i>	71 <i>1.93</i>
Total Live Births	329,941	38,439	368,414

* Total includes unknown age

North Carolina

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Hirschsprung's disease (congenital megacolon)	88 <i>2.53</i>	54 <i>3.92</i>	5 <i>1.46</i>	3 <i>2.81</i>	3 <i>3.75</i>	0	153 <i>2.84</i>	
Hydrocephalus without Spina Bifida	306 <i>8.80</i>	187 <i>13.59</i>	29 <i>8.49</i>	11 <i>10.31</i>	8 <i>9.99</i>	1	542 <i>10.07</i>	
Hypoplastic left heart syndrome	106 <i>3.05</i>	39 <i>2.83</i>	9 <i>2.63</i>	1 <i>0.94</i>	1 <i>1.25</i>	1	157 <i>2.92</i>	
Hypospadias and Epispadias	1,716 <i>49.37</i>	609 <i>44.26</i>	85 <i>24.88</i>	52 <i>48.75</i>	46 <i>57.45</i>	1	2,509 <i>46.61</i>	
Microcephalus	157 <i>4.52</i>	118 <i>8.58</i>	30 <i>8.78</i>	8 <i>7.50</i>	7 <i>8.74</i>	0	320 <i>5.94</i>	
Obstructive genitourinary defect	660 <i>18.99</i>	214 <i>15.55</i>	54 <i>15.81</i>	14 <i>13.12</i>	23 <i>28.72</i>	1	966 <i>17.94</i>	
Omphalocele	4 <i>0.56</i>	8 <i>2.83</i>	0 <i>0.00</i>	1 <i>4.09</i>	0 <i>0.00</i>	0	13 <i>1.14</i>	Data for 1999 only
Patent ductus arteriosus	1,195 <i>34.38</i>	653 <i>47.45</i>	117 <i>34.25</i>	27 <i>25.31</i>	28 <i>34.97</i>	0	2,020 <i>37.52</i>	
Pulmonary artery anomalies	240 <i>6.91</i>	185 <i>13.44</i>	23 <i>6.73</i>	1 <i>0.94</i>	6 <i>7.49</i>	0	455 <i>8.45</i>	
Pulmonary valve atresia and stenosis	379 <i>10.90</i>	219 <i>15.92</i>	47 <i>13.76</i>	6 <i>5.62</i>	14 <i>17.48</i>	0	665 <i>12.35</i>	
Pyloric stenosis	952 <i>27.39</i>	171 <i>12.43</i>	49 <i>14.34</i>	2 <i>1.87</i>	13 <i>16.24</i>	2	1,189 <i>22.09</i>	
Rectal and large intestinal atresia/stenosis	182 <i>5.24</i>	70 <i>5.09</i>	19 <i>5.56</i>	5 <i>4.69</i>	11 <i>13.74</i>	1	288 <i>5.35</i>	
Reduction deformity, lower limbs	53 <i>1.52</i>	26 <i>1.89</i>	7 <i>2.05</i>	4 <i>3.75</i>	2 <i>2.50</i>	0	92 <i>1.71</i>	
Reduction deformity, upper limbs	105 <i>3.02</i>	49 <i>3.56</i>	7 <i>2.05</i>	2 <i>1.87</i>	0 <i>0.00</i>	1	164 <i>3.05</i>	
Renal agenesis/hypoplasia	156 <i>4.49</i>	58 <i>4.21</i>	11 <i>3.22</i>	1 <i>0.94</i>	4 <i>5.00</i>	1	231 <i>4.29</i>	
Spina bifida without anencephalus	198 <i>5.70</i>	49 <i>3.56</i>	34 <i>9.95</i>	4 <i>3.75</i>	2 <i>2.50</i>	2	291 <i>5.41</i>	
Tetralogy of Fallot	186 <i>5.35</i>	81 <i>5.89</i>	11 <i>3.22</i>	4 <i>3.75</i>	6 <i>7.49</i>	0	288 <i>5.35</i>	
Transposition of great arteries	176 <i>5.06</i>	52 <i>3.78</i>	17 <i>4.98</i>	4 <i>3.75</i>	6 <i>7.49</i>	2	257 <i>4.77</i>	
Tricuspid valve atresia and stenosis	30 <i>0.86</i>	14 <i>1.02</i>	1 <i>0.29</i>	1 <i>0.94</i>	2 <i>2.50</i>	0	48 <i>0.89</i>	
Trisomy 13	41 <i>1.18</i>	31 <i>2.25</i>	10 <i>2.93</i>	3 <i>2.81</i>	0 <i>0.00</i>	4	89 <i>1.65</i>	
Trisomy 18	86 <i>2.47</i>	33 <i>2.40</i>	8 <i>2.34</i>	2 <i>1.87</i>	0 <i>0.00</i>	1	130 <i>2.41</i>	
Ventricular septal defect	1,318 <i>37.92</i>	505 <i>36.70</i>	170 <i>49.77</i>	26 <i>24.37</i>	37 <i>46.21</i>	2	2,058 <i>38.23</i>	

North Carolina

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Anencephalus	65 <i>1.87</i>	28 <i>2.03</i>	21 <i>6.15</i>	4 <i>3.75</i>	2 <i>2.50</i>	3	124 <i>2.30</i>	
Aniridia	39 <i>1.12</i>	16 <i>1.16</i>	3 <i>0.88</i>	1 <i>0.94</i>	3 <i>3.75</i>	0	62 <i>1.15</i>	
Anophthalmia/ microphthalmia	51 <i>1.47</i>	17 <i>1.24</i>	4 <i>1.17</i>	1 <i>0.94</i>	2 <i>2.50</i>	0	75 <i>1.39</i>	
Anotia/microtia	180 <i>5.18</i>	107 <i>7.78</i>	40 <i>11.71</i>	13 <i>12.19</i>	6 <i>7.49</i>	0	346 <i>6.43</i>	
Aortic valve stenosis	77 <i>2.22</i>	17 <i>1.24</i>	5 <i>1.46</i>	1 <i>0.94</i>	0 <i>0.00</i>	0	100 <i>1.86</i>	
Atrial septal defect	1,069 <i>30.76</i>	531 <i>38.59</i>	128 <i>37.47</i>	19 <i>17.81</i>	30 <i>37.47</i>	0	1,777 <i>33.01</i>	
Biliary atresia	64 <i>1.84</i>	36 <i>2.62</i>	7 <i>2.05</i>	2 <i>1.87</i>	3 <i>3.75</i>	1	113 <i>2.10</i>	
Bladder exstrophy	19 <i>0.55</i>	7 <i>0.51</i>	0 <i>0.00</i>	1 <i>0.94</i>	1 <i>1.25</i>	0	28 <i>0.52</i>	
Choanal atresia	69 <i>1.99</i>	28 <i>2.03</i>	5 <i>1.46</i>	1 <i>0.94</i>	1 <i>1.25</i>	0	104 <i>1.93</i>	
Cleft lip with and without cleft palate	361 <i>10.39</i>	81 <i>5.89</i>	31 <i>9.08</i>	18 <i>16.87</i>	11 <i>13.74</i>	1	503 <i>9.34</i>	
Cleft palate without cleft lip	224 <i>6.44</i>	70 <i>5.09</i>	25 <i>7.32</i>	3 <i>2.81</i>	7 <i>8.74</i>	0	329 <i>6.11</i>	
Coarctation of aorta	207 <i>5.96</i>	73 <i>5.31</i>	19 <i>5.56</i>	1 <i>0.94</i>	3 <i>3.75</i>	0	303 <i>5.63</i>	
Common truncus	29 <i>0.83</i>	10 <i>0.73</i>	5 <i>1.46</i>	0 <i>0.00</i>	1 <i>1.25</i>	0	45 <i>0.84</i>	
Congenital cataract	49 <i>1.41</i>	20 <i>1.45</i>	6 <i>1.76</i>	3 <i>2.81</i>	5 <i>6.24</i>	0	83 <i>1.54</i>	
Congenital hip dislocation	672 <i>19.33</i>	83 <i>6.03</i>	77 <i>22.54</i>	11 <i>10.31</i>	19 <i>23.73</i>	1	863 <i>16.03</i>	
Diaphragmatic hernia	121 <i>3.48</i>	47 <i>3.42</i>	17 <i>4.98</i>	4 <i>3.75</i>	4 <i>5.00</i>	0	193 <i>3.59</i>	
Down syndrome	405 <i>11.65</i>	164 <i>11.92</i>	64 <i>18.74</i>	9 <i>8.44</i>	4 <i>5.00</i>	1	647 <i>12.02</i>	
Ebstein's anomaly	17 <i>0.49</i>	3 <i>0.22</i>	2 <i>0.59</i>	0 <i>0.00</i>	1 <i>1.25</i>	0	23 <i>0.43</i>	
Encephalocele	44 <i>1.27</i>	22 <i>1.60</i>	8 <i>2.34</i>	3 <i>2.81</i>	2 <i>2.50</i>	1	80 <i>1.49</i>	
Endocardial cushion defect	112 <i>3.22</i>	51 <i>3.71</i>	14 <i>4.10</i>	3 <i>2.81</i>	2 <i>2.50</i>	1	183 <i>3.40</i>	
Esophageal atresia/ tracheoesophageal fistula	134 <i>3.86</i>	46 <i>3.34</i>	10 <i>2.93</i>	1 <i>0.94</i>	6 <i>7.49</i>	0	197 <i>3.66</i>	
Gastroschisis	29 <i>4.06</i>	6 <i>2.12</i>	4 <i>4.09</i>	0 <i>0.00</i>	2 <i>11.92</i>	0	41 <i>3.60</i>	Data for 1999 only

North Carolina

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Total Live Births	347,573	137,606	34,159	10,667	8,007		538,318	

North Carolina

Trisomy Counts and Rates by Maternal Age 1995-1999

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total*
Down syndrome	433	213	646
	<i>11.27</i>	<i>50.07</i>	<i>15.14</i>
Trisomy 13	69	16	85
	<i>1.80</i>	<i>3.76</i>	<i>1.99</i>
Trisomy 18	88	41	129
	<i>2.29</i>	<i>9.64</i>	<i>3.02</i>
Total Live Births	384,129	42,538	426,673

* Total includes unknown age

New Jersey

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Amniotic bands	17 <i>0.52</i>	11 <i>1.16</i>	6 <i>0.61</i>	1 <i>0.29</i>	1 <i>10.22</i>	0	36 <i>0.63</i>	
Anencephalus	12 <i>0.37</i>	2 <i>0.21</i>	7 <i>0.71</i>	1 <i>0.29</i>	0 <i>0.00</i>	0	22 <i>0.39</i>	
Aniridia	4 <i>0.12</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	4 <i>0.07</i>	
Anophthalmia/ microphthalmia	29 <i>0.89</i>	10 <i>1.05</i>	9 <i>0.92</i>	3 <i>0.87</i>	0 <i>0.00</i>	0	51 <i>0.89</i>	
Anotia/microtia	22 <i>0.68</i>	4 <i>0.42</i>	17 <i>1.73</i>	2 <i>0.58</i>	0 <i>0.00</i>	0	45 <i>0.79</i>	
Aortic valve stenosis	51 <i>1.57</i>	3 <i>0.32</i>	7 <i>0.71</i>	7 <i>2.02</i>	0 <i>0.00</i>	0	68 <i>1.19</i>	
Atrial septal defect	2,086 <i>64.29</i>	929 <i>97.74</i>	721 <i>73.41</i>	225 <i>65.04</i>	7 <i>71.57</i>	39	4,007 <i>70.29</i>	
Biliary atresia	14 <i>0.43</i>	7 <i>0.74</i>	11 <i>1.12</i>	2 <i>0.58</i>	0 <i>0.00</i>	0	34 <i>0.60</i>	
Bladder exstrophy	10 <i>0.31</i>	1 <i>0.11</i>	1 <i>0.10</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	12 <i>0.21</i>	
Choanal atresia	61 <i>1.88</i>	20 <i>2.10</i>	8 <i>0.81</i>	3 <i>0.87</i>	0 <i>0.00</i>	0	92 <i>1.61</i>	
Cleft lip with and without cleft palate	238 <i>7.34</i>	53 <i>5.58</i>	75 <i>7.64</i>	47 <i>13.59</i>	0 <i>0.00</i>	3	416 <i>7.30</i>	
Cleft palate without cleft lip	216 <i>6.66</i>	59 <i>6.21</i>	56 <i>5.70</i>	15 <i>4.34</i>	0 <i>0.00</i>	2	348 <i>6.10</i>	
Coarctation of aorta	131 <i>4.04</i>	23 <i>2.42</i>	35 <i>3.56</i>	11 <i>3.18</i>	0 <i>0.00</i>	2	202 <i>3.54</i>	
Common truncus	27 <i>0.83</i>	6 <i>0.63</i>	4 <i>0.41</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	37 <i>0.65</i>	
Congenital cataract	41 <i>1.26</i>	10 <i>1.05</i>	16 <i>1.63</i>	3 <i>0.87</i>	0 <i>0.00</i>	0	70 <i>1.23</i>	
Congenital hip dislocation	330 <i>10.17</i>	33 <i>3.47</i>	112 <i>11.40</i>	29 <i>8.38</i>	1 <i>10.22</i>	1	506 <i>8.88</i>	
Diaphragmatic hernia	79 <i>2.43</i>	24 <i>2.53</i>	14 <i>1.43</i>	8 <i>2.31</i>	0 <i>0.00</i>	3	128 <i>2.25</i>	
Down syndrome	388 <i>11.96</i>	99 <i>10.42</i>	124 <i>12.63</i>	29 <i>8.38</i>	0 <i>0.00</i>	7	647 <i>11.35</i>	
Ebstein's anomaly	18 <i>0.55</i>	1 <i>0.11</i>	6 <i>0.61</i>	1 <i>0.29</i>	0 <i>0.00</i>	0	26 <i>0.46</i>	
Encephalocele	8 <i>0.25</i>	7 <i>0.74</i>	13 <i>1.32</i>	3 <i>0.87</i>	0 <i>0.00</i>	0	31 <i>0.54</i>	
Endocardial cushion defect	100 <i>3.08</i>	35 <i>3.68</i>	19 <i>1.93</i>	7 <i>2.02</i>	0 <i>0.00</i>	1	162 <i>2.84</i>	
Esophageal atresia/ tracheoesophageal fistula	76 <i>2.34</i>	20 <i>2.10</i>	30 <i>3.05</i>	7 <i>2.02</i>	0 <i>0.00</i>	1	134 <i>2.35</i>	

New Jersey

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Fetal alcohol syndrome	18 <i>0.55</i>	17 <i>1.79</i>	3 <i>0.31</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	38 <i>0.67</i>	
Gastroschisis	41 <i>1.26</i>	29 <i>3.05</i>	39 <i>3.97</i>	2 <i>0.58</i>	1 <i>10.22</i>	0	112 <i>1.96</i>	
Hirschsprung's disease (congenital megacolon)	39 <i>1.20</i>	23 <i>2.42</i>	14 <i>1.43</i>	3 <i>0.87</i>	0 <i>0.00</i>	2	81 <i>1.42</i>	
Hydrocephalus without Spina Bifida	115 <i>3.54</i>	70 <i>7.36</i>	57 <i>5.80</i>	11 <i>3.18</i>	0 <i>0.00</i>	7	260 <i>4.56</i>	
Hypoplastic left heart syndrome	71 <i>2.19</i>	20 <i>2.10</i>	22 <i>2.24</i>	8 <i>2.31</i>	1 <i>10.22</i>	2	124 <i>2.18</i>	
Hypospadias and Epispadias	1,432 <i>44.13</i>	302 <i>31.77</i>	247 <i>25.15</i>	93 <i>26.88</i>	2 <i>20.45</i>	25	2,101 <i>36.85</i>	
Microcephalus	110 <i>3.39</i>	180 <i>18.94</i>	72 <i>7.33</i>	19 <i>5.49</i>	1 <i>10.22</i>	8	390 <i>6.84</i>	
Obstructive genitourinary defect	709 <i>21.85</i>	158 <i>16.62</i>	217 <i>22.10</i>	80 <i>23.13</i>	1 <i>10.22</i>	9	1,174 <i>20.59</i>	
Omphalocele	30 <i>0.92</i>	12 <i>1.26</i>	8 <i>0.81</i>	1 <i>0.29</i>	0 <i>0.00</i>	0	51 <i>0.89</i>	
Patent ductus arteriosus	1,577 <i>48.60</i>	536 <i>56.39</i>	386 <i>39.30</i>	136 <i>39.31</i>	6 <i>61.35</i>	19	2,660 <i>46.66</i>	
Pulmonary valve atresia and stenosis	268 <i>8.26</i>	168 <i>17.68</i>	74 <i>7.53</i>	22 <i>6.36</i>	1 <i>10.22</i>	8	541 <i>9.49</i>	
Pyloric stenosis	527 <i>16.24</i>	98 <i>10.31</i>	230 <i>23.42</i>	15 <i>4.34</i>	2 <i>20.45</i>	15	887 <i>15.56</i>	
Rectal and large intestinal atresia/stenosis	113 <i>3.48</i>	37 <i>3.89</i>	42 <i>4.28</i>	18 <i>5.20</i>	1 <i>10.22</i>	3	214 <i>3.75</i>	
Reduction deformity, lower limbs	47 <i>1.45</i>	21 <i>2.21</i>	10 <i>1.02</i>	1 <i>0.29</i>	2 <i>20.45</i>	1	82 <i>1.44</i>	
Reduction deformity, upper limbs	95 <i>2.93</i>	34 <i>3.58</i>	39 <i>3.97</i>	5 <i>1.45</i>	1 <i>10.22</i>	1	175 <i>3.07</i>	
Renal agenesis/hypoplasia	113 <i>3.48</i>	31 <i>3.26</i>	35 <i>3.56</i>	9 <i>2.60</i>	1 <i>10.22</i>	3	192 <i>3.37</i>	
Spina bifida without anencephalus	67 <i>2.06</i>	21 <i>2.21</i>	38 <i>3.87</i>	8 <i>2.31</i>	0 <i>0.00</i>	3	137 <i>2.40</i>	
Tetralogy of Fallot	126 <i>3.88</i>	38 <i>4.00</i>	32 <i>3.26</i>	12 <i>3.47</i>	1 <i>10.22</i>	2	211 <i>3.70</i>	
Transposition of great arteries	130 <i>4.01</i>	30 <i>3.16</i>	37 <i>3.77</i>	12 <i>3.47</i>	0 <i>0.00</i>	2	211 <i>3.70</i>	
Tricuspid valve atresia and stenosis	34 <i>1.05</i>	16 <i>1.68</i>	10 <i>1.02</i>	3 <i>0.87</i>	0 <i>0.00</i>	1	64 <i>1.12</i>	
Trisomy 13	19 <i>0.59</i>	8 <i>0.84</i>	6 <i>0.61</i>	1 <i>0.29</i>	0 <i>0.00</i>	0	34 <i>0.60</i>	
Trisomy 18	29 <i>0.89</i>	13 <i>1.37</i>	6 <i>0.61</i>	1 <i>0.29</i>	0 <i>0.00</i>	0	49 <i>0.86</i>	

New Jersey

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Ventricular septal defect	1,615 <i>49.77</i>	440 <i>46.29</i>	460 <i>46.84</i>	142 <i>41.05</i>	3 <i>30.67</i>	21	2,681 <i>47.03</i>	
Total Live Births	324,465	95,047	98,210	34,593	978		570,103	

New Jersey

Trisomy Counts and Rates by Maternal Age 1995-1999

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total*
Down syndrome	353 <i>7.60</i>	277 <i>26.33</i>	647 <i>11.35</i>
Trisomy 13	23 <i>0.49</i>	11 <i>1.05</i>	34 <i>0.60</i>
Trisomy 18	25 <i>0.54</i>	23 <i>2.19</i>	49 <i>0.86</i>
Total Live Births	464,712	105,185	570,103

* Total includes unknown age

New Mexico

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Amniotic bands	0	0	0	0	0	0	0	
	0.00	0.00	0.00		0.00		0.00	
Anencephalus	10	1	18	0	6	3	38	includes 740
	2.08	4.03	2.72		3.61		2.81	
Aniridia	1	0	1	0	0	0	2	
	0.21	0.00	0.15		0.00		0.15	
Anophthalmia/ microphthalmia	5	0	3	0	0	0	8	
	1.04	0.00	0.45		0.00		0.59	
Anotia/microtia	5	4	15	0	6	0	30	includes 744
	1.04	16.12	2.26		3.61		2.22	
Aortic valve stenosis	4	0	4	0	1	0	9	
	0.83	0.00	0.60		0.60		0.67	
Atrial septal defect	127	2	148	0	48	3	328	
	26.44	8.06	22.33		28.89		24.24	
Biliary atresia	1	0	1	0	2	0	4	
	0.21	0.00	0.15		1.20		0.30	
Bladder exstrophy	3	0	1	0	0	0	4	
	0.62	0.00	0.15		0.00		0.30	
Choanal atresia	2	1	0	0	0	0	3	
	0.42	4.03	0.00		0.00		0.22	
Cleft lip with and without cleft palate	103	3	142	0	60	3	311	includes 749
	21.44	12.09	21.42		36.11		22.98	
Cleft palate without cleft lip	12	1	28	0	9	0	50	
	2.50	4.03	4.22		5.42		3.69	
Coarctation of aorta	16	0	7	0	0	0	23	
	3.33	0.00	1.06		0.00		1.70	
Common truncus	0	0	0	0	0	0	0	
	0.00	0.00	0.00		0.00		0.00	
Congenital cataract	7	0	8	0	1	0	16	
	1.46	0.00	1.21		0.60		1.18	
Congenital hip dislocation	154	7	217	0	102	4	484	includes 754.3
	32.06	28.20	32.73		61.39		35.76	
Diaphragmatic hernia	13	0	21	0	7	1	42	
	2.71	0.00	3.17		4.21		3.10	
Down syndrome	42	1	71	0	16	1	131	
	8.74	4.03	10.71		9.63		9.68	
Ebstein's anomaly	5	0	6	0	1	0	12	
	1.04	0.00	0.91		0.60		0.89	
Encephalocele	1	0	2	0	1	1	5	
	0.21	0.00	0.30		0.60		0.37	
Endocardial cushion defect	7	1	6	0	0	1	15	
	1.46	4.03	0.91		0.00		1.11	
Esophageal atresia/ tracheoesophageal fistula	6	0	12	0	3	0	21	
	1.25	0.00	1.81		1.81		1.55	

New Mexico

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Fetal alcohol syndrome	8 <i>1.67</i>	0 <i>0.00</i>	16 <i>2.41</i>	0	6 <i>3.61</i>	0	30 <i>2.22</i>	
Hirschsprung's disease (congenital megacolon)	12 <i>2.50</i>	0 <i>0.00</i>	10 <i>1.51</i>	0	0 <i>0.00</i>	0	22 <i>1.63</i>	
Hydrocephalus without Spina Bifida	40 <i>8.33</i>	1 <i>4.03</i>	48 <i>7.24</i>	0	20 <i>12.04</i>	0	109 <i>8.05</i>	
Hypoplastic left heart syndrome	10 <i>2.08</i>	0 <i>0.00</i>	6 <i>0.91</i>	0	6 <i>3.61</i>	0	22 <i>1.63</i>	
Hypospadias and Epispadias	65 <i>13.53</i>	4 <i>16.12</i>	54 <i>8.15</i>	0	7 <i>4.21</i>	1	131 <i>9.68</i>	
Microcephalus	56 <i>11.66</i>	0 <i>0.00</i>	86 <i>12.97</i>	0	20 <i>12.04</i>	1	163 <i>12.04</i>	
Obstructive genitourinary defect	19 <i>3.96</i>	2 <i>8.06</i>	34 <i>5.13</i>	0	6 <i>3.61</i>	0	61 <i>4.51</i>	
Patent ductus arteriosus	87 <i>22.37</i>	7 <i>35.26</i>	121 <i>23.01</i>	0	40 <i>30.36</i>	2	257 <i>23.76</i>	Not collected in 1999
Pulmonary valve atresia and stenosis	22 <i>4.58</i>	1 <i>4.03</i>	44 <i>6.64</i>	0	9 <i>5.42</i>	1	77 <i>5.69</i>	
Pyloric stenosis	15 <i>3.12</i>	0 <i>0.00</i>	38 <i>5.73</i>	0	7 <i>4.21</i>	0	60 <i>4.43</i>	
Rectal and large intestinal atresia/stenosis	22 <i>4.58</i>	0 <i>0.00</i>	25 <i>3.77</i>	0	12 <i>7.22</i>	0	59 <i>4.36</i>	
Reduction deformity, lower limbs	7 <i>1.46</i>	1 <i>4.03</i>	15 <i>2.26</i>	0	6 <i>3.61</i>	0	29 <i>2.14</i>	
Reduction deformity, upper limbs	16 <i>3.33</i>	0 <i>0.00</i>	25 <i>3.77</i>	0	5 <i>3.01</i>	1	47 <i>3.47</i>	
Renal agenesis/hypoplasia	8 <i>1.67</i>	1 <i>4.03</i>	3 <i>0.45</i>	0	0 <i>0.00</i>	0	12 <i>0.89</i>	
Spina bifida without anencephalus	31 <i>6.45</i>	2 <i>8.06</i>	42 <i>6.34</i>	0	3 <i>1.81</i>	2	80 <i>5.91</i>	includes 741
Tetralogy of Fallot	18 <i>3.75</i>	1 <i>4.03</i>	33 <i>4.98</i>	0	13 <i>7.82</i>	0	65 <i>4.80</i>	
Transposition of great arteries	13 <i>2.71</i>	0 <i>0.00</i>	18 <i>2.72</i>	0	3 <i>1.81</i>	0	34 <i>2.51</i>	
Tricuspid valve atresia and stenosis	7 <i>1.46</i>	0 <i>0.00</i>	8 <i>1.21</i>	0	1 <i>0.60</i>	0	16 <i>1.18</i>	
Trisomy 13	3 <i>0.62</i>	0 <i>0.00</i>	10 <i>1.51</i>	0	2 <i>1.20</i>	0	15 <i>1.11</i>	
Trisomy 18	4 <i>0.83</i>	0 <i>0.00</i>	6 <i>0.91</i>	0	3 <i>1.81</i>	0	13 <i>0.96</i>	
Ventricular septal defect	208 <i>43.31</i>	8 <i>32.23</i>	296 <i>44.65</i>	0	107 <i>64.40</i>	5	624 <i>46.11</i>	
Total Live Births	48,030	2,482	66,290		16,615		135,330	

New Mexico**Trisomy Counts and Rates by Maternal Age 1995-1999***(Rates per 10,000 Live Births)*

Defect	Age		Total*
	<35	35 and >	
Down syndrome	76 6.27	11 7.82	87 6.43
Trisomy 13	6 0.49	2 1.42	8 0.59
Trisomy 18	4 0.33	1 0.71	5 0.37
Total Live Births	121,269	14,061	135,330

* Total includes unknown age

Notes:

1. 1995-1999: ICD-9 Codes used for all birth defects.
2. Prenatally diagnosed NTDs included in 1998-1999.

New York

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Amniotic bands	25 <i>0.35</i>	6 <i>0.24</i>	6 <i>0.23</i>	1 <i>0.12</i>	0 <i>0.00</i>	3	41 <i>0.31</i>	
Anencephalus	30 <i>0.42</i>	11 <i>0.44</i>	15 <i>0.57</i>	3 <i>0.36</i>	1 <i>3.31</i>	19	79 <i>0.60</i>	
Aniridia	8 <i>0.11</i>	3 <i>0.12</i>	3 <i>0.11</i>	1 <i>0.12</i>	0 <i>0.00</i>	1	16 <i>0.12</i>	
Anophthalmia/ microphthalmia	70 <i>0.97</i>	31 <i>1.25</i>	33 <i>1.25</i>	7 <i>0.85</i>	0 <i>0.00</i>	10	151 <i>1.14</i>	
Anotia/microtia	61 <i>0.85</i>	9 <i>0.36</i>	37 <i>1.41</i>	8 <i>0.97</i>	0 <i>0.00</i>	7	122 <i>0.92</i>	
Aortic valve stenosis	146 <i>2.03</i>	20 <i>0.81</i>	30 <i>1.14</i>	5 <i>0.61</i>	0 <i>0.00</i>	25	226 <i>1.70</i>	
Atrial septal defect	1,585 <i>22.00</i>	1,094 <i>44.15</i>	665 <i>25.28</i>	187 <i>22.64</i>	8 <i>26.45</i>	319	3,858 <i>29.08</i>	
Biliary atresia	47 <i>0.65</i>	33 <i>1.33</i>	22 <i>0.84</i>	15 <i>1.82</i>	0 <i>0.00</i>	12	129 <i>0.97</i>	
Bladder exstrophy	19 <i>0.26</i>	5 <i>0.20</i>	7 <i>0.27</i>	0 <i>0.00</i>	0 <i>0.00</i>	1	32 <i>0.24</i>	
Choanal atresia	135 <i>1.87</i>	19 <i>0.77</i>	44 <i>1.67</i>	6 <i>0.73</i>	0 <i>0.00</i>	17	221 <i>1.67</i>	
Cleft lip with and without cleft palate	585 <i>8.12</i>	115 <i>4.64</i>	169 <i>6.42</i>	66 <i>7.99</i>	1 <i>3.31</i>	89	1,025 <i>7.73</i>	
Cleft palate without cleft lip	446 <i>6.19</i>	100 <i>4.04</i>	156 <i>5.93</i>	54 <i>6.54</i>	1 <i>3.31</i>	78	835 <i>6.29</i>	
Coarctation of aorta	314 <i>4.36</i>	74 <i>2.99</i>	80 <i>3.04</i>	21 <i>2.54</i>	2 <i>6.61</i>	71	562 <i>4.24</i>	
Common truncus	55 <i>0.76</i>	23 <i>0.93</i>	15 <i>0.57</i>	2 <i>0.24</i>	0 <i>0.00</i>	13	108 <i>0.81</i>	
Congenital cataract	105 <i>1.46</i>	34 <i>1.37</i>	33 <i>1.25</i>	9 <i>1.09</i>	0 <i>0.00</i>	17	198 <i>1.49</i>	
Congenital hip dislocation	1,061 <i>14.73</i>	131 <i>5.29</i>	317 <i>12.05</i>	120 <i>14.53</i>	5 <i>16.53</i>	138	1,772 <i>13.36</i>	
Diaphragmatic hernia	118 <i>1.64</i>	39 <i>1.57</i>	35 <i>1.33</i>	15 <i>1.82</i>	1 <i>3.31</i>	25	233 <i>1.76</i>	
Down syndrome	723 <i>10.03</i>	205 <i>8.27</i>	207 <i>7.87</i>	55 <i>6.66</i>	4 <i>13.22</i>	115	1,309 <i>9.87</i>	
Ebstein's anomaly	39 <i>0.54</i>	5 <i>0.20</i>	11 <i>0.42</i>	3 <i>0.36</i>	0 <i>0.00</i>	8	66 <i>0.50</i>	
Encephalocele	49 <i>0.68</i>	18 <i>0.73</i>	21 <i>0.80</i>	5 <i>0.61</i>	0 <i>0.00</i>	6	99 <i>0.75</i>	
Endocardial cushion defect	226 <i>3.14</i>	72 <i>2.91</i>	56 <i>2.13</i>	14 <i>1.70</i>	1 <i>3.31</i>	62	431 <i>3.25</i>	
Esophageal atresia/ tracheoesophageal fistula	194 <i>2.69</i>	42 <i>1.69</i>	56 <i>2.13</i>	6 <i>0.73</i>	1 <i>3.31</i>	26	325 <i>2.45</i>	

New York

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Fetal alcohol syndrome	46 <i>0.64</i>	124 <i>5.00</i>	18 <i>0.68</i>	1 <i>0.12</i>	1 <i>3.31</i>	16	206 <i>1.55</i>	
Gastroschisis	99 <i>1.37</i>	25 <i>1.01</i>	44 <i>1.67</i>	3 <i>0.36</i>	0 <i>0.00</i>	10	181 <i>1.36</i>	
Hirschsprung's disease (congenital megacolon)	127 <i>1.76</i>	51 <i>2.06</i>	50 <i>1.90</i>	21 <i>2.54</i>	2 <i>6.61</i>	33	284 <i>2.14</i>	
Hydrocephalus without Spina Bifida	442 <i>6.13</i>	239 <i>9.65</i>	195 <i>7.41</i>	44 <i>5.33</i>	1 <i>3.31</i>	102	1,023 <i>7.71</i>	
Hypoplastic left heart syndrome	134 <i>1.86</i>	54 <i>2.18</i>	56 <i>2.13</i>	5 <i>0.61</i>	0 <i>0.00</i>	32	281 <i>2.12</i>	
Hypospadias and Epispadias	2,846 <i>39.50</i>	650 <i>26.23</i>	509 <i>19.35</i>	170 <i>20.59</i>	7 <i>23.14</i>	285	4,467 <i>33.68</i>	
Microcephalus	260 <i>3.61</i>	231 <i>9.32</i>	153 <i>5.82</i>	41 <i>4.96</i>	1 <i>3.31</i>	73	759 <i>5.72</i>	
Obstructive genitourinary defect	1,732 <i>24.04</i>	417 <i>16.83</i>	577 <i>21.94</i>	195 <i>23.61</i>	4 <i>13.22</i>	220	3,145 <i>23.71</i>	
Omphalocele	77 <i>1.07</i>	39 <i>1.57</i>	29 <i>1.10</i>	8 <i>0.97</i>	0 <i>0.00</i>	13	166 <i>1.25</i>	
Patent ductus arteriosus	159 <i>2.21</i>	82 <i>3.31</i>	57 <i>2.17</i>	24 <i>2.91</i>	0 <i>0.00</i>	34	356 <i>2.68</i>	
Pulmonary valve atresia and stenosis	544 <i>7.55</i>	357 <i>14.41</i>	243 <i>9.24</i>	45 <i>5.45</i>	1 <i>3.31</i>	101	1,291 <i>9.73</i>	
Pyloric stenosis	1,485 <i>20.61</i>	211 <i>8.52</i>	540 <i>20.53</i>	52 <i>6.30</i>	2 <i>6.61</i>	180	2,470 <i>18.62</i>	
Rectal and large intestinal atresia/stenosis	301 <i>4.18</i>	76 <i>3.07</i>	97 <i>3.69</i>	33 <i>4.00</i>	1 <i>3.31</i>	63	571 <i>4.30</i>	
Reduction deformity, lower limbs	85 <i>1.18</i>	40 <i>1.61</i>	28 <i>1.06</i>	8 <i>0.97</i>	0 <i>0.00</i>	8	169 <i>1.27</i>	
Reduction deformity, upper limbs	175 <i>2.43</i>	34 <i>1.37</i>	54 <i>2.05</i>	6 <i>0.73</i>	0 <i>0.00</i>	18	287 <i>2.16</i>	
Renal agenesis/hypoplasia	246 <i>3.41</i>	64 <i>2.58</i>	79 <i>3.00</i>	13 <i>1.57</i>	1 <i>3.31</i>	43	446 <i>3.36</i>	
Spina bifida without anencephalus	161 <i>2.23</i>	63 <i>2.54</i>	105 <i>3.99</i>	18 <i>2.18</i>	1 <i>3.31</i>	39	387 <i>2.92</i>	
Tetralogy of Fallot	299 <i>4.15</i>	114 <i>4.60</i>	107 <i>4.07</i>	34 <i>4.12</i>	1 <i>3.31</i>	93	648 <i>4.89</i>	
Transposition of great arteries	320 <i>4.44</i>	91 <i>3.67</i>	81 <i>3.08</i>	24 <i>2.91</i>	1 <i>3.31</i>	80	597 <i>4.50</i>	
Tricuspid valve atresia and stenosis	76 <i>1.05</i>	44 <i>1.78</i>	31 <i>1.18</i>	5 <i>0.61</i>	1 <i>3.31</i>	16	173 <i>1.30</i>	
Trisomy 13	44 <i>0.61</i>	21 <i>0.85</i>	23 <i>0.87</i>	5 <i>0.61</i>	0 <i>0.00</i>	7	100 <i>0.75</i>	
Trisomy 18	4 <i>0.06</i>	6 <i>0.24</i>	3 <i>0.11</i>	1 <i>0.12</i>	0 <i>0.00</i>	2	16 <i>0.12</i>	

S190 BIRTH DEFECTS DATA

New York

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Ventricular septal defect	2,642 36.67	776 31.32	891 33.87	248 30.03	11 36.36	410	4,978 37.53	
Total Live Births	720,503	247,789	263,046	82,580	3,025		1,326,500	

New York

Trisomy Counts and Rates by Maternal Age 1995-1999

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total*
Down syndrome	729 6.61	525 23.45	1,309 9.87
Trisomy 13	71 0.64	28 1.25	100 0.75
Trisomy 18	12 0.11	4 0.18	16 0.12
Total Live Births	1,102,187	223,899	1,326,500

* Total includes unknown age

Oklahoma

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Amniotic bands	19	3	3	0	2	0	27	
	1.11	1.32	1.88	0.00	0.88		1.14	
Anencephalus	50	3	1	0	5	3	62	
	2.92	1.32	0.63	0.00	2.20		2.61	
Aniridia	5	0	0	0	0	0	5	
	0.29	0.00	0.00	0.00	0.00		0.21	
Anophthalmia/ microphthalmia	38	3	1	0	3	0	45	
	2.22	1.32	0.63	0.00	1.32		1.89	
Anotia/microtia	19	4	2	0	5	0	30	
	1.11	1.76	1.25	0.00	2.20		1.26	
Aortic valve stenosis	64	5	6	0	3	0	78	
	3.74	2.19	3.76	0.00	1.32		3.28	
Atrial septal defect	815	115	47	8	111	6	1,102	
	47.65	50.47	29.46	19.30	48.78		46.40	
Biliary atresia	14	3	0	0	0	0	17	
	0.82	1.32	0.00	0.00	0.00		0.72	
Bladder exstrophy	8	1	0	0	0	0	9	
	0.47	0.44	0.00	0.00	0.00		0.38	
Choanal atresia	34	5	3	0	3	0	45	
	1.99	2.19	1.88	0.00	1.32		1.89	
Cleft lip with and without cleft palate	231	16	16	5	24	0	292	
	13.51	7.02	10.03	12.06	10.55		12.30	
Cleft palate without cleft lip	127	12	6	3	14	1	163	
	7.43	5.27	3.76	7.24	6.15		6.86	
Coarctation of aorta	73	7	5	1	7	1	94	
	4.27	3.07	3.13	2.41	3.08		3.96	
Common truncus	13	4	1	1	3	0	22	
	0.76	1.76	0.63	2.41	1.32		0.93	
Congenital cataract	32	4	4	0	4	0	44	
	1.87	1.76	2.51	0.00	1.76		1.85	
Congenital hip dislocation	166	6	8	2	22	0	204	
	9.71	2.63	5.01	4.83	9.67		8.59	
Diaphragmatic hernia	67	2	1	1	8	0	79	
	3.92	0.88	0.63	2.41	3.52		3.33	
Down syndrome	213	24	29	8	24	4	302	
	12.45	10.53	18.18	19.30	10.55		12.72	
Ebstein's anomaly	12	0	2	2	1	0	17	
	0.70	0.00	1.25	4.83	0.44		0.72	
Encephalocele	21	4	1	0	5	0	31	
	1.23	1.76	0.63	0.00	2.20		1.31	
Endocardial cushion defect	58	9	5	0	7	2	81	
	3.39	3.95	3.13	0.00	3.08		3.41	
Esophageal atresia/ tracheoesophageal fistula	58	5	5	3	11	0	82	
	3.39	2.19	3.13	7.24	4.83		3.45	

Oklahoma

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Fetal alcohol syndrome	5 0.29	3 1.32	0 0.00	0 0.00	3 1.32	0	11 0.46	
Gastroschisis	83 4.85	2 0.88	3 1.88	0 0.00	5 2.20	1	94 3.96	
Hirschsprung's disease (congenital megacolon)	37 2.16	7 3.07	0 0.00	1 2.41	3 1.32	0	48 2.02	
Hydrocephalus without Spina Bifida	147 8.59	22 9.66	8 5.01	1 2.41	20 8.79	0	198 8.34	
Hypoplastic left heart syndrome	39 2.28	3 1.32	1 0.63	0 0.00	5 2.20	0	48 2.02	
Hypospadias and Epispadias	530 30.99	59 25.90	30 18.80	8 19.30	37 16.26	4	668 28.13	
Microcephalus	164 9.59	28 12.29	12 7.52	2 4.83	34 14.94	3	243 10.23	
Obstructive genitourinary defect	299 17.48	21 9.22	31 19.43	8 19.30	42 18.46	4	405 17.05	
Omphalocele	41 2.40	7 3.07	1 0.63	1 2.41	10 4.39	0	60 2.53	
Pulmonary valve atresia and stenosis	124 7.25	9 3.95	10 6.27	3 7.24	17 7.47	1	164 6.91	
Pyloric stenosis	398 23.27	17 7.46	24 15.04	1 2.41	45 19.78	0	485 20.42	
Rectal and large intestinal atresia/stenosis	140 8.19	11 4.83	11 6.89	2 4.83	26 11.43	2	192 8.08	
Reduction deformity, lower limbs	34 1.99	3 1.32	2 1.25	1 2.41	4 1.76	0	44 1.85	
Reduction deformity, upper limbs	54 3.16	7 3.07	3 1.88	0 0.00	9 3.96	0	73 3.07	
Renal agenesis/hypoplasia	100 5.85	10 4.39	6 3.76	0 0.00	12 5.27	0	128 5.39	
Spina bifida without anencephalus	104 6.08	8 3.51	4 2.51	3 7.24	16 7.03	0	135 5.68	
Tetralogy of Fallot	65 3.80	6 2.63	3 1.88	5 12.06	9 3.96	1	89 3.75	
Transposition of great arteries	88 5.14	4 1.76	9 5.64	0 0.00	7 3.08	1	109 4.59	
Tricuspid valve atresia and stenosis	13 0.76	2 0.88	2 1.25	0 0.00	1 0.44	0	18 0.76	
Trisomy 13	30 1.75	4 1.76	1 0.63	1 2.41	1 0.44	0	37 1.56	
Trisomy 18	35 2.05	5 2.19	2 1.25	2 4.83	3 1.32	0	47 1.98	
Ventricular septal defect	814 47.59	83 36.43	79 49.51	14 33.78	99 43.51	3	1,092 45.98	

Oklahoma

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Total Live Births	171,043	22,784	15,955	4,145	22,756		237,482	

Oklahoma

Trisomy Counts and Rates by Maternal Age 1995-1998

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total*
Down syndrome	173	67	240
	9.98	44.47	12.70
Trisomy 13	24	5	29
	1.38	3.32	1.53
Trisomy 18	26	11	37
	1.50	7.30	1.96
Total Live Births	173,413	15,067	189,012

* Total includes unknown age

Puerto Rico

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Anencephalus			109				109	
			3.50				3.50	
Cleft lip with and without cleft palate			34				34	Data for 1999 only
			5.70				5.70	
Cleft palate without cleft lip			21				21	Data for 1999 only
			3.52				3.52	
Encephalocele			23				23	
			0.74				0.74	
Spina bifida without anencephalus			236				236	
			7.59				7.59	
Total Live Births			311,091				311,091	

Rhode Island

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Amniotic bands	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	
Anencephalus	3 0.71	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	3 0.51	
Aniridia	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	
Anophthalmia/ microphthalmia	3 0.71	1 2.46	0 0.00	1 6.11	0 0.00	0 0.00	5 0.85	
Anotia/microtia	3 0.71	1 2.46	1 1.56	0 0.00	0 0.00	0 0.00	5 0.85	
Aortic valve stenosis	2 0.47	0 0.00	1 1.56	0 0.00	0 0.00	0 0.00	3 0.51	
Atrial septal defect	220 51.79	40 98.38	37 57.83	9 54.98	1 204.08	12 0.00	319 54.43	
Biliary atresia	0 0.00	0 0.00	1 1.56	0 0.00	0 0.00	0 0.00	1 0.17	
Bladder exstrophy	2 0.47	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	2 0.34	
Choanal atresia	5 1.18	0 0.00	1 1.56	0 0.00	0 0.00	0 0.00	6 1.02	
Cleft lip with and without cleft palate	37 8.71	3 7.38	4 6.25	1 6.11	0 0.00	3 0.00	48 8.19	
Cleft palate without cleft lip	21 4.94	2 4.92	1 1.56	2 12.22	0 0.00	1 0.00	27 4.61	
Coarctation of aorta	6 1.41	0 0.00	2 3.13	0 0.00	0 0.00	0 0.00	8 1.37	
Common truncus						1	1 0.22	1998: Data missing
Congenital cataract	5 1.18	1 2.46	2 3.13	0 0.00	0 0.00	1 0.00	9 1.54	
Congenital hip dislocation	66 15.54	4 9.84	6 9.38	1 6.11	0 0.00	5 0.00	82 13.99	
Diaphragmatic hernia	8 1.88	1 2.46	1 1.56	0 0.00	0 0.00	1 0.00	11 1.88	
Down syndrome	46 10.83	7 17.22	6 9.38	0 0.00	0 0.00	5 0.00	64 10.92	
Ebstein's anomaly	2 0.47	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	2 0.34	
Encephalocele	2 0.47	0 0.00	1 1.56	0 0.00	0 0.00	0 0.00	3 0.51	
Endocardial cushion defect	7 1.65	0 0.00	0 0.00	0 0.00	0 0.00	1 0.00	8 1.37	
Esophageal atresia/ tracheoesophageal fistula	10 2.35	1 2.46	1 1.56	0 0.00	0 0.00	0 0.00	12 2.05	

Rhode Island

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Fetal alcohol syndrome	4 <i>0.94</i>	3 <i>7.38</i>	1 <i>1.56</i>	0 <i>0.00</i>	1 <i>204.08</i>	2 <i>1.88</i>	11	
Hirschsprung's disease (congenital megacolon)	7 <i>1.65</i>	0 <i>0.00</i>	1 <i>1.56</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>1.54</i>	9	
Hydrocephalus without Spina Bifida	10 <i>2.35</i>	5 <i>12.30</i>	3 <i>4.69</i>	1 <i>6.11</i>	0 <i>0.00</i>	1 <i>3.41</i>	20	
Hypoplastic left heart syndrome	3 <i>0.71</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.51</i>	3	
Hypospadias and Epispadias	92 <i>21.66</i>	8 <i>19.68</i>	7 <i>10.94</i>	2 <i>12.22</i>	0 <i>0.00</i>	9 <i>20.14</i>	118	
Microcephalus	9 <i>2.12</i>	3 <i>7.38</i>	0 <i>0.00</i>	2 <i>12.22</i>	0 <i>0.00</i>	2 <i>2.73</i>	16	
Obstructive genitourinary defect	94 <i>22.13</i>	8 <i>19.68</i>	16 <i>25.01</i>	4 <i>24.43</i>	0 <i>0.00</i>	5 <i>21.67</i>	127	
Patent ductus arteriosus	214 <i>50.37</i>	34 <i>83.62</i>	33 <i>51.58</i>	7 <i>42.76</i>	0 <i>0.00</i>	11 <i>51.02</i>	299	Unable to exclude birth weights
Pulmonary valve atresia and stenosis	67 <i>15.77</i>	14 <i>34.43</i>	6 <i>9.38</i>	2 <i>12.22</i>	0 <i>0.00</i>	2 <i>15.53</i>	91	
Pyloric stenosis	4 <i>0.94</i>	1 <i>2.46</i>	1 <i>1.56</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>1.02</i>	6	
Rectal and large intestinal atresia/stenosis	14 <i>3.30</i>	1 <i>2.46</i>	6 <i>9.38</i>	0 <i>0.00</i>	0 <i>0.00</i>	2 <i>3.92</i>	23	
Reduction deformity, lower limbs	4 <i>0.94</i>	2 <i>4.92</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>1.02</i>	6	
Reduction deformity, upper limbs	4 <i>0.94</i>	1 <i>2.46</i>	4 <i>6.25</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>1.54</i>	9	
Renal agenesis/hypoplasia	7 <i>1.65</i>	2 <i>4.92</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>1.71</i>	10	
Spina bifida without anencephalus	11 <i>2.59</i>	0 <i>0.00</i>	1 <i>1.56</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>2.22</i>	13	
Tetralogy of Fallot	15 <i>3.53</i>	1 <i>2.46</i>	4 <i>6.25</i>	1 <i>6.11</i>	0 <i>0.00</i>	2 <i>3.92</i>	23	
Transposition of great arteries	4 <i>0.94</i>	1 <i>2.46</i>	1 <i>1.56</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>1.02</i>	6	
Tricuspid valve atresia and stenosis	7 <i>1.65</i>	0 <i>0.00</i>	2 <i>3.13</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>1.54</i>	9	
Trisomy 13	0 <i>0.00</i>	2 <i>4.92</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.34</i>	2	
Trisomy 18	3 <i>0.71</i>	1 <i>2.46</i>	1 <i>1.56</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.85</i>	5	
Ventricular septal defect	201 <i>47.31</i>	22 <i>54.11</i>	24 <i>37.51</i>	9 <i>54.98</i>	1 <i>204.08</i>	16 <i>46.58</i>	273	
Total Live Births	42,482	4,066	6,398	1,637	49	58,603		

Rhode Island

Trisomy Counts and Rates by Maternal Age 1998-1999

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	13 <i>6.37</i>	14 <i>37.21</i>	28 <i>11.59</i>
Trisomy 13	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>
Trisomy 18	2 <i>0.98</i>	1 <i>2.66</i>	3 <i>1.24</i>
Total Live Births	20,396	3,762	24,158

* Total includes unknown age

Notes:

1. One RI Hospital failed to code approximately 500 births/year for years '95, '96, '97 & '98.
2. Total live birth data are provided from Vital Statistics. Hospital Discharge Database does not link infant & mother's record.

South Carolina

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Anencephalus	87 5.26	35 3.77	5	1		1	129 4.92	
Encephalocele	30 1.82	19 2.05					49 1.87	
Spina bifida without anencephalus	93 5.63	22 2.37	6		1		122 4.65	
Total Live Births	165,280	92,893					262,337	

Texas

Birth Defects Counts and Rates 1996-1999

(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	Other/Unknown		
Amniotic bands	24 0.66	5 0.50	38 0.83	3 1.16	0 0.00	1 0.00	71 0.75	
Anencephalus	100 2.76	14 1.39	171 3.75	7 2.72	0 0.00	7 0.00	299 3.15	includes stillbirths/terminations
Aniridia	5 0.14	0 0.00	3 0.07	0 0.00	0 0.00	0 0.00	8 0.08	
Anophthalmia/ microphthalmia	101 2.78	20 1.99	139 3.05	3 1.16	0 0.00	4 0.00	267 2.82	
Anotia/microtia	61 1.68	8 0.80	165 3.62	5 1.94	1 5.30	1 0.00	241 2.54	
Aortic valve stenosis	104 2.87	15 1.49	105 2.30	4 1.55	1 5.30	0 0.00	229 2.41	
Atrial septal defect	1,393 38.39	377 37.53	1,872 41.05	85 32.99	11 58.32	13 0.00	3,751 39.56	
Biliary atresia	8 0.22	7 0.70	30 0.66	4 1.55	0 0.00	0 0.00	49 0.52	
Bladder exstrophy	10 0.28	0 0.00	5 0.11	0 0.00	0 0.00	0 0.00	15 0.16	
Choanal atresia	42 1.16	8 0.80	57 1.25	2 0.78	0 0.00	0 0.00	109 1.15	
Cleft lip with and without cleft palate	367 10.11	73 7.27	527 11.56	32 12.42	3 15.91	4 0.00	1,006 10.61	
Cleft palate without cleft lip	240 6.61	39 3.88	241 5.28	16 6.21	2 10.60	2 0.00	540 5.69	
Coarctation of aorta	199 5.48	35 3.48	189 4.14	9 3.49	0 0.00	1 0.00	433 4.57	
Common truncus	21 0.58	4 0.40	35 0.77	3 1.16	0 0.00	0 0.00	63 0.66	
Congenital cataract	41 1.13	14 1.39	50 1.10	0 0.00	0 0.00	1 0.00	106 1.12	
Congenital hip dislocation	218 6.01	33 3.29	246 5.39	6 2.33	1 5.30	2 0.00	506 5.34	
Diaphragmatic hernia	92 2.54	24 2.39	120 2.63	6 2.33	1 5.30	1 0.00	244 2.57	
Down syndrome	388 10.69	77 7.67	538 11.80	29 11.26	1 5.30	12 0.00	1,045 11.02	
Ebstein's anomaly	17 0.47	2 0.20	33 0.72	3 1.16	0 0.00	0 0.00	55 0.58	
Encephalocele	33 0.91	13 1.29	48 1.05	6 2.33	0 0.00	0 0.00	100 1.05	
Endocardial cushion defect	125 3.44	49 4.88	131 2.87	9 3.49	1 5.30	3 0.00	318 3.35	
Esophageal atresia/ tracheoesophageal fistula	93 2.56	19 1.89	90 1.97	3 1.16	1 5.30	0 0.00	206 2.17	

S200 BIRTH DEFECTS DATA

Texas

Birth Defects Counts and Rates 1996-1999

(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	Other/Unknown		
Fetal alcohol syndrome	5 <i>0.14</i>	3 <i>0.30</i>	4 <i>0.09</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	12 <i>0.13</i>	
Gastroschisis	137 <i>3.78</i>	19 <i>1.89</i>	190 <i>4.17</i>	6 <i>2.33</i>	2 <i>10.60</i>	0	354 <i>3.73</i>	
Hirschsprung's disease (congenital megacolon)	55 <i>1.52</i>	24 <i>2.39</i>	37 <i>0.81</i>	3 <i>1.16</i>	0 <i>0.00</i>	0	119 <i>1.25</i>	
Hydrocephalus without Spina Bifida	256 <i>7.05</i>	93 <i>9.26</i>	353 <i>7.74</i>	18 <i>6.99</i>	1 <i>5.30</i>	1	722 <i>7.61</i>	
Hypoplastic left heart syndrome	81 <i>2.23</i>	13 <i>1.29</i>	91 <i>2.00</i>	7 <i>2.72</i>	0 <i>0.00</i>	3	195 <i>2.06</i>	
Hypospadias and Epispadias	1,267 <i>34.91</i>	315 <i>31.36</i>	789 <i>17.30</i>	55 <i>21.35</i>	3 <i>15.91</i>	5	2,434 <i>25.67</i>	
Microcephalus	167 <i>4.60</i>	104 <i>10.35</i>	260 <i>5.70</i>	18 <i>6.99</i>	1 <i>5.30</i>	5	555 <i>5.85</i>	
Obstructive genitourinary defect	681 <i>18.77</i>	177 <i>17.62</i>	806 <i>17.68</i>	42 <i>16.30</i>	2 <i>10.60</i>	8	1,716 <i>18.10</i>	
Omphalocele	82 <i>2.26</i>	28 <i>2.79</i>	90 <i>1.97</i>	5 <i>1.94</i>	0 <i>0.00</i>	5	210 <i>2.21</i>	
Patent ductus arteriosus	1,474 <i>40.62</i>	422 <i>42.01</i>	2,365 <i>51.86</i>	103 <i>39.98</i>	7 <i>37.12</i>	10	4,381 <i>46.20</i>	unable to exclude <2500g infants
Pulmonary valve atresia and stenosis	198 <i>5.46</i>	61 <i>6.07</i>	259 <i>5.68</i>	16 <i>6.21</i>	4 <i>21.21</i>	3	541 <i>5.71</i>	
Pyloric stenosis	734 <i>20.23</i>	53 <i>5.28</i>	810 <i>17.76</i>	8 <i>3.11</i>	1 <i>5.30</i>	4	1,610 <i>16.98</i>	
Rectal and large intestinal atresia/stenosis	146 <i>4.02</i>	55 <i>5.48</i>	222 <i>4.87</i>	8 <i>3.11</i>	1 <i>5.30</i>	3	435 <i>4.59</i>	
Reduction deformity, lower limbs	59 <i>1.63</i>	27 <i>2.69</i>	80 <i>1.75</i>	3 <i>1.16</i>	0 <i>0.00</i>	1	170 <i>1.79</i>	
Reduction deformity, upper limbs	128 <i>3.53</i>	30 <i>2.99</i>	210 <i>4.61</i>	9 <i>3.49</i>	0 <i>0.00</i>	2	379 <i>4.00</i>	
Renal agenesis/hypoplasia	177 <i>4.88</i>	62 <i>6.17</i>	222 <i>4.87</i>	8 <i>3.11</i>	0 <i>0.00</i>	1	470 <i>4.96</i>	
Spina bifida without anencephalus	139 <i>3.83</i>	28 <i>2.79</i>	238 <i>5.22</i>	1 <i>0.39</i>	2 <i>10.60</i>	4	412 <i>4.34</i>	includes stillbirths/terminations
Tetralogy of Fallot	98 <i>2.70</i>	25 <i>2.49</i>	142 <i>3.11</i>	10 <i>3.88</i>	0 <i>0.00</i>	1	276 <i>2.91</i>	
Transposition of great arteries	185 <i>5.10</i>	40 <i>3.98</i>	222 <i>4.87</i>	9 <i>3.49</i>	1 <i>5.30</i>	2	459 <i>4.84</i>	
Tricuspid valve atresia and stenosis	76 <i>2.09</i>	32 <i>3.19</i>	102 <i>2.24</i>	8 <i>3.11</i>	0 <i>0.00</i>	0	218 <i>2.30</i>	
Trisomy 13	39 <i>1.07</i>	12 <i>1.19</i>	52 <i>1.14</i>	3 <i>1.16</i>	0 <i>0.00</i>	4	110 <i>1.16</i>	
Trisomy 18	90 <i>2.48</i>	20 <i>1.99</i>	96 <i>2.11</i>	9 <i>3.49</i>	0 <i>0.00</i>	9	224 <i>2.36</i>	

Texas

Birth Defects Counts and Rates 1996-1999

(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	Other/Unknown		
Ventricular septal defect	1,258 <i>34.67</i>	325 <i>32.35</i>	2,142 <i>46.97</i>	65 <i>25.23</i>	5 <i>26.51</i>	7	3,802 <i>40.09</i>	
Total Live Births	362,889	100,453	456,009	25,763	1,886		948,282	

Texas

Trisomy Counts and Rates by Maternal Age 1996-1999

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total*
Down syndrome	640 <i>7.50</i>	405 <i>42.84</i>	1,045 <i>11.02</i>
Trisomy 13	73 <i>0.86</i>	37 <i>3.91</i>	110 <i>1.16</i>
Trisomy 18	127 <i>1.49</i>	97 <i>10.26</i>	224 <i>2.36</i>
Total Live Births	853,602	94,535	948,282

* Total includes unknown age

S202 BIRTH DEFECTS DATA

Utah

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Anencephalus	35 <i>1.91</i>		7 <i>3.23</i>		1 <i>2.62</i>	5	48 <i>2.22</i>	includes SAB
Aniridia	0 <i>0.00</i>						0 <i>0.00</i>	
Anophthalmia/ microphthalmia	9 <i>0.49</i>						9 <i>0.42</i>	
Anotia/microtia	5 <i>0.27</i>		1 <i>0.46</i>				6 <i>0.28</i>	
Aortic valve stenosis	38 <i>2.08</i>	0 <i>0.00</i>	1 <i>0.46</i>	2 <i>6.54</i>	1 <i>2.62</i>	2	44 <i>2.04</i>	
Atrial septal defect	63 <i>3.44</i>	0 <i>0.00</i>	8 <i>3.69</i>	1 <i>3.27</i>	3 <i>7.86</i>	2	77 <i>3.56</i>	
Biliary atresia	1 <i>0.05</i>		1 <i>0.46</i>				2 <i>0.09</i>	
Bladder exstrophy	1 <i>0.05</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	1 <i>0.05</i>	
Choanal atresia	7 <i>0.38</i>	1 <i>8.28</i>					8 <i>0.37</i>	
Cleft lip with and without cleft palate	260 <i>14.22</i>	4 <i>33.11</i>	33 <i>15.23</i>	3 <i>9.81</i>	4 <i>10.48</i>	4	310 <i>14.35</i>	
Cleft palate without cleft lip	140 <i>7.65</i>		16 <i>7.38</i>	2 <i>6.54</i>	4 <i>10.48</i>		162 <i>7.50</i>	
Coarctation of aorta	98 <i>5.36</i>	0 <i>0.00</i>	5 <i>2.31</i>	4 <i>13.08</i>	1 <i>2.62</i>	1	109 <i>5.05</i>	
Common truncus	12 <i>0.66</i>						12 <i>0.56</i>	
Congenital cataract	10 <i>0.55</i>						10 <i>0.46</i>	
Diaphragmatic hernia	10 <i>0.55</i>		1 <i>0.46</i>			1	12 <i>0.56</i>	
Down syndrome	282 <i>15.42</i>	2 <i>16.56</i>	28 <i>12.92</i>	8 <i>26.15</i>	6 <i>15.73</i>	9	335 <i>15.51</i>	
Ebstein's anomaly	5 <i>0.27</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	5 <i>0.23</i>	
Encephalocele	12 <i>0.66</i>		2 <i>0.92</i>			1	15 <i>0.69</i>	
Endocardial cushion defect	21 <i>1.15</i>	0 <i>0.00</i>	3 <i>1.38</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	24 <i>1.11</i>	
Esophageal atresia/ tracheoesophageal fistula	15 <i>0.82</i>		2 <i>0.92</i>		1 <i>2.62</i>		18 <i>0.83</i>	
Gastroschisis	55 <i>3.01</i>		9 <i>4.15</i>	1 <i>3.27</i>	1 <i>2.62</i>	1	67 <i>3.10</i>	
Hirschsprung's disease (congenital megacolon)	4 <i>0.22</i>		1 <i>0.46</i>	1 <i>3.27</i>			6 <i>0.28</i>	

Utah

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Hydrocephalus without Spina Bifida	13 <i>0.71</i>						13 <i>0.60</i>	
Hypoplastic left heart syndrome	41 <i>2.24</i>	0 <i>0.00</i>	6 <i>2.77</i>	1 <i>3.27</i>	0 <i>0.00</i>	3	51 <i>2.36</i>	
Hypospadias and Epispadias	118 <i>6.45</i>	0 <i>0.00</i>	7 <i>3.23</i>	4 <i>13.08</i>	1 <i>2.62</i>	0	130 <i>6.02</i>	
Microcephalus	11 <i>0.60</i>						11 <i>0.51</i>	
Obstructive genitourinary defect	67 <i>3.66</i>	0 <i>0.00</i>	5 <i>2.31</i>	2 <i>6.54</i>	0 <i>0.00</i>	0	74 <i>3.43</i>	
Omphalocele	28 <i>1.53</i>		2 <i>0.92</i>	1 <i>3.27</i>		1	32 <i>1.48</i>	
Pulmonary valve atresia and stenosis	56 <i>3.06</i>	0 <i>0.00</i>	8 <i>3.69</i>	0 <i>0.00</i>	0 <i>0.00</i>	1	65 <i>3.01</i>	
Pyloric stenosis	57 <i>3.12</i>		5 <i>2.31</i>			1	63 <i>2.92</i>	
Rectal and large intestinal atresia/stenosis	18 <i>0.98</i>		1 <i>0.46</i>	1 <i>3.27</i>		2	22 <i>1.02</i>	
Reduction deformity, lower limbs	29 <i>1.59</i>					1	30 <i>1.39</i>	
Reduction deformity, upper limbs	57 <i>3.12</i>		5 <i>2.31</i>			5	67 <i>3.10</i>	Some cases had both upper and lower LRD, counted in both
Renal agenesis/hypoplasia	15 <i>0.82</i>	0 <i>0.00</i>	1 <i>0.46</i>	1 <i>3.27</i>	0 <i>0.00</i>	1	18 <i>0.83</i>	
Spina bifida without anencephalus	66 <i>3.61</i>		8 <i>3.69</i>	2 <i>6.54</i>	3 <i>7.86</i>	2	81 <i>3.75</i>	
Tetralogy of Fallot	47 <i>2.57</i>	1 <i>8.28</i>	3 <i>1.38</i>	2 <i>6.54</i>	0 <i>0.00</i>	0	53 <i>2.45</i>	
Transposition of great arteries	37 <i>2.02</i>	0 <i>0.00</i>	6 <i>2.77</i>	0 <i>0.00</i>	2 <i>5.24</i>	1	46 <i>2.13</i>	
Tricuspid valve atresia and stenosis	3 <i>0.16</i>	0 <i>0.00</i>	0 <i>0.00</i>	1 <i>3.27</i>	0 <i>0.00</i>	0	4 <i>0.19</i>	
Trisomy 13	21 <i>1.15</i>		2 <i>0.92</i>	2 <i>6.54</i>		1	26 <i>1.20</i>	
Trisomy 18	64 <i>3.50</i>		11 <i>5.08</i>	3 <i>9.81</i>	1 <i>2.62</i>	2	81 <i>3.75</i>	
Total Live Births	182,894	1,208	21,674	3,059	3,815		215,992	

S204 BIRTH DEFECTS DATA

Utah

Trisomy Counts and Rates by Maternal Age 1995-1999

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	191 <i>9.73</i>	142 <i>72.51</i>	335 <i>15.51</i>
Trisomy 13	21 <i>1.07</i>	5 <i>2.55</i>	26 <i>1.20</i>
Trisomy 18	51 <i>2.60</i>	30 <i>15.32</i>	81 <i>3.75</i>
Total Live Births	196,335	19,583	215,992

* Total includes unknown age

Virginia

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Anencephalus	33 <i>1.07</i>	12 <i>1.13</i>	5 <i>1.82</i>	2 <i>0.99</i>	0 <i>0.00</i>	0	52 <i>1.12</i>	
Aniridia	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>	0	2 <i>0.04</i>	
Anophthalmia/ microphthalmia	15 <i>0.49</i>	6 <i>0.57</i>	3 <i>1.09</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	24 <i>0.52</i>	
Anotia/microtia	12 <i>0.39</i>	6 <i>0.57</i>	2 <i>0.73</i>	2 <i>0.99</i>	0 <i>0.00</i>	0	22 <i>0.47</i>	
Aortic valve stenosis	43 <i>1.39</i>	10 <i>0.94</i>	1 <i>0.36</i>	2 <i>0.99</i>	0 <i>0.00</i>	0	56 <i>1.20</i>	
Atrial septal defect	775 <i>25.13</i>	234 <i>22.04</i>	94 <i>34.13</i>	57 <i>28.22</i>	3 <i>35.21</i>	5	1,168 <i>25.12</i>	
Biliary atresia	15 <i>0.49</i>	8 <i>0.75</i>	1 <i>0.36</i>	1 <i>0.50</i>	0 <i>0.00</i>	0	25 <i>0.54</i>	
Bladder exstrophy	12 <i>0.39</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	12 <i>0.26</i>	
Choanal atresia	31 <i>1.01</i>	10 <i>0.94</i>	1 <i>0.36</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	42 <i>0.90</i>	
Cleft lip with and without cleft palate	286 <i>9.27</i>	61 <i>5.74</i>	20 <i>7.26</i>	18 <i>8.91</i>	0 <i>0.00</i>	0	385 <i>8.28</i>	
Cleft palate without cleft lip	149 <i>4.83</i>	46 <i>4.33</i>	9 <i>3.27</i>	8 <i>3.96</i>	0 <i>0.00</i>	0	212 <i>4.56</i>	
Coarctation of aorta	148 <i>4.80</i>	27 <i>2.54</i>	7 <i>2.54</i>	5 <i>2.48</i>	0 <i>0.00</i>	1	188 <i>4.04</i>	
Common truncus	29 <i>0.94</i>	6 <i>0.57</i>	1 <i>0.36</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	36 <i>0.77</i>	
Congenital cataract	30 <i>0.97</i>	10 <i>0.94</i>	1 <i>0.36</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	41 <i>0.88</i>	
Congenital hip dislocation	392 <i>12.71</i>	53 <i>4.99</i>	28 <i>10.17</i>	15 <i>7.43</i>	0 <i>0.00</i>	2	490 <i>10.54</i>	
Diaphragmatic hernia	83 <i>2.69</i>	23 <i>2.17</i>	6 <i>2.18</i>	6 <i>2.97</i>	0 <i>0.00</i>	0	118 <i>2.54</i>	
Down syndrome	278 <i>9.01</i>	68 <i>6.40</i>	36 <i>13.07</i>	12 <i>5.94</i>	2 <i>23.47</i>	1	397 <i>8.54</i>	
Ebstein's anomaly	12 <i>0.39</i>	4 <i>0.38</i>	1 <i>0.36</i>	1 <i>0.50</i>	0 <i>0.00</i>	0	18 <i>0.39</i>	
Encephalocele	8 <i>0.26</i>	8 <i>0.75</i>	1 <i>0.36</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	17 <i>0.37</i>	
Endocardial cushion defect	65 <i>2.11</i>	17 <i>1.60</i>	7 <i>2.54</i>	2 <i>0.99</i>	0 <i>0.00</i>	1	92 <i>1.98</i>	
Esophageal atresia/ tracheoesophageal fistula	74 <i>2.40</i>	14 <i>1.32</i>	5 <i>1.82</i>	4 <i>1.98</i>	0 <i>0.00</i>	0	97 <i>2.09</i>	
Fetal alcohol syndrome	30 <i>0.97</i>	44 <i>4.14</i>	6 <i>2.18</i>	0 <i>0.00</i>	1 <i>11.74</i>	0	81 <i>1.74</i>	

Virginia

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Hirschsprung's disease (congenital megacolon)	50 <i>1.62</i>	22 <i>2.07</i>	6 <i>2.18</i>	1 <i>0.50</i>	0 <i>0.00</i>	0	79 <i>1.70</i>	
Hydrocephalus without Spina Bifida	116 <i>3.76</i>	68 <i>6.40</i>	15 <i>5.45</i>	4 <i>1.98</i>	1 <i>11.74</i>	0	204 <i>4.39</i>	
Hypoplastic left heart syndrome	59 <i>1.91</i>	15 <i>1.41</i>	3 <i>1.09</i>	2 <i>0.99</i>	0 <i>0.00</i>	0	79 <i>1.70</i>	
Hypospadias and Epispadias	515 <i>16.70</i>	173 <i>16.29</i>	22 <i>7.99</i>	15 <i>7.43</i>	2 <i>23.47</i>	1	728 <i>15.65</i>	
Microcephalus	93 <i>3.02</i>	63 <i>5.93</i>	10 <i>3.63</i>	5 <i>2.48</i>	0 <i>0.00</i>	0	171 <i>3.68</i>	
Obstructive genitourinary defect	203 <i>6.58</i>	65 <i>6.12</i>	12 <i>4.36</i>	10 <i>4.95</i>	0 <i>0.00</i>	0	290 <i>6.24</i>	
Patent ductus arteriosus	1,424 <i>46.18</i>	709 <i>66.77</i>	162 <i>58.82</i>	98 <i>48.52</i>	6 <i>70.42</i>	7	2,406 <i>51.74</i>	
Pulmonary valve atresia and stenosis	290 <i>9.40</i>	156 <i>14.69</i>	15 <i>5.45</i>	18 <i>8.91</i>	1 <i>11.74</i>	2	482 <i>10.36</i>	
Pyloric stenosis	335 <i>10.86</i>	39 <i>3.67</i>	15 <i>5.45</i>	7 <i>3.47</i>	1 <i>11.74</i>	1	398 <i>8.56</i>	
Rectal and large intestinal atresia/stenosis	107 <i>3.47</i>	37 <i>3.48</i>	8 <i>2.90</i>	7 <i>3.47</i>	0 <i>0.00</i>	0	159 <i>3.42</i>	
Reduction deformity, lower limbs	33 <i>1.07</i>	16 <i>1.51</i>	3 <i>1.09</i>	1 <i>0.50</i>	0 <i>0.00</i>	0	53 <i>1.14</i>	
Reduction deformity, upper limbs	55 <i>1.78</i>	21 <i>1.98</i>	2 <i>0.73</i>	0 <i>0.00</i>	1 <i>11.74</i>	0	79 <i>1.70</i>	
Renal agenesis/hypoplasia	96 <i>3.11</i>	22 <i>2.07</i>	9 <i>3.27</i>	3 <i>1.49</i>	0 <i>0.00</i>	0	130 <i>2.80</i>	
Spina bifida without anencephalus	171 <i>5.54</i>	38 <i>3.58</i>	20 <i>7.26</i>	7 <i>3.47</i>	0 <i>0.00</i>	1	237 <i>5.10</i>	
Tetralogy of Fallot	119 <i>3.86</i>	35 <i>3.30</i>	8 <i>2.90</i>	6 <i>2.97</i>	0 <i>0.00</i>	1	169 <i>3.63</i>	
Transposition of great arteries	115 <i>3.73</i>	17 <i>1.60</i>	11 <i>3.99</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	143 <i>3.08</i>	
Tricuspid valve atresia and stenosis	22 <i>0.71</i>	15 <i>1.41</i>	0 <i>0.00</i>	2 <i>0.99</i>	0 <i>0.00</i>	2	41 <i>0.88</i>	
Trisomy 13	13 <i>0.42</i>	7 <i>0.66</i>	3 <i>1.09</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	23 <i>0.49</i>	
Trisomy 18	26 <i>0.84</i>	8 <i>0.75</i>	1 <i>0.36</i>	0 <i>0.00</i>	0 <i>0.00</i>	0	35 <i>0.75</i>	
Ventricular septal defect	818 <i>26.53</i>	232 <i>21.85</i>	94 <i>34.13</i>	37 <i>18.32</i>	2 <i>23.47</i>	7	1,190 <i>25.59</i>	
Total Live Births	308,388	106,191	27,542	20,196	852		465,036	

Virginia**Trisomy Counts and Rates by Maternal Age 1995-1999***(Rates per 10,000 Live Births)*

Defect	Age		Total*
	<35	35 and >	
Down syndrome	227	169	397
	<i>5.70</i>	<i>25.78</i>	<i>8.54</i>
Trisomy 13	17	6	23
	<i>0.43</i>	<i>0.92</i>	<i>0.49</i>
Trisomy 18	21	14	35
	<i>0.53</i>	<i>2.14</i>	<i>0.75</i>
Total Live Births	398,520	65,565	465,036

* Total includes unknown age

Notes:

1. Only live births from VA residents are included in the report.
2. Race is the mother's race reported on the birth certificate.
3. Data for 1999 may not be completed at this time.
4. ICD9 codes were used to define birth defects.

West Virginia

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Anencephalus	29 2.93	1 2.64	0 0.00	0 0.00	0 0.00	0 0.00	30 2.88	
Cleft lip with and without cleft palate	122 12.31	4 10.57	1 21.14	1 19.38	0 0.00	0 0.00	128 12.30	
Down syndrome	53 5.35	3 7.92	1 21.14	1 19.38	0 0.00	1 0.00	59 5.67	
Esophageal atresia/tracheoesophageal fistula	20 2.02	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	20 1.92	
Fetal alcohol syndrome	6 0.61	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	6 0.58	
Hydrocephalus without Spina Bifida	31 3.13	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	31 2.98	
Microcephalus	5 0.50	1 2.64	0 0.00	0 0.00	0 0.00	0 0.00	6 0.58	
Rectal and large intestinal atresia/stenosis	16 1.62	0 0.00	0 0.00	1 19.38	0 0.00	0 0.00	17 1.63	
Renal agenesis/hypoplasia	14 1.41	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	14 1.34	
Spina bifida without anencephalus	26 2.62	1 2.64	0 0.00	1 19.38	0 0.00	0 0.00	28 2.69	
Total Live Births	3,786	473	516	58	197		104,097	

West Virginia

Trisomy Counts and Rates by Maternal Age 1995-1999

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	42 4.38	17 21.29	59 5.67
Total Live Births	95,803	7,984	104,097

* Total includes unknown age

Wisconsin

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Amniotic bands	54						63	
	<i>1.97</i>						<i>1.87</i>	
Anencephalus	28						38	
	<i>1.02</i>						<i>1.13</i>	
Anophthalmia/ microphthalmia	12						13	
	<i>0.44</i>						<i>0.39</i>	
Anotia/microtia	12						13	
	<i>0.44</i>						<i>0.39</i>	
Aortic valve stenosis	19						21	
	<i>0.69</i>						<i>0.62</i>	
Atrial septal defect	555						652	
	<i>20.26</i>						<i>19.36</i>	
Bladder exstrophy	17						18	
	<i>0.62</i>						<i>0.53</i>	
Choanal atresia	33						44	
	<i>1.20</i>						<i>1.31</i>	
Cleft lip with and without cleft palate	234						274	
	<i>8.54</i>						<i>8.14</i>	
Cleft palate without cleft lip	174						201	
	<i>6.35</i>						<i>5.97</i>	
Coarctation of aorta	30						33	
	<i>1.10</i>						<i>0.98</i>	
Common truncus	6						8	
	<i>0.22</i>						<i>0.24</i>	
Congenital cataract	32						36	
	<i>1.17</i>						<i>1.07</i>	
Congenital hip dislocation	359						399	
	<i>13.10</i>						<i>11.85</i>	
Diaphragmatic hernia	79						93	
	<i>2.88</i>						<i>2.76</i>	
Down syndrome	327						397	
	<i>11.94</i>						<i>11.79</i>	
Ebstein's anomaly	7						9	
	<i>0.26</i>						<i>0.27</i>	
Encephalocele	40						56	
	<i>1.46</i>						<i>1.66</i>	
Endocardial cushion defect	36						41	
	<i>1.31</i>						<i>1.22</i>	
Esophageal atresia/ tracheoesophageal fistula	79						90	
	<i>2.88</i>						<i>2.67</i>	
Fetal alcohol syndrome	30						84	
	<i>1.10</i>						<i>2.49</i>	
Gastroschisis	145						222	
	<i>5.29</i>						<i>6.59</i>	
Hirschsprung's disease (congenital megacolon)	13						22	
	<i>0.47</i>						<i>0.65</i>	

S210 BIRTH DEFECTS DATA

Wisconsin

Birth Defects Counts and Rates 1995-1999

(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	Other/Unknown		
Hydrocephalus without Spina Bifida	15						20	
	<i>0.55</i>						<i>0.59</i>	
Hypoplastic left heart syndrome	34						38	
	<i>1.24</i>						<i>1.13</i>	
Hypospadias and Epispadias	931						1,099	
	<i>33.98</i>						<i>32.64</i>	
Microcephalus	59						75	
	<i>2.15</i>						<i>2.23</i>	
Obstructive genitourinary defect	411						494	
	<i>15.00</i>						<i>14.67</i>	
Patent ductus arteriosus	617						750	
	<i>22.52</i>						<i>22.28</i>	
Pulmonary valve atresia and stenosis	128						183	
	<i>4.67</i>						<i>5.44</i>	
Pyloric stenosis	6						6	
	<i>0.22</i>						<i>0.18</i>	
Rectal and large intestinal atresia/stenosis	121						146	
	<i>4.42</i>						<i>4.34</i>	
Reduction deformity, lower limbs	38						44	
	<i>1.39</i>						<i>1.31</i>	
Reduction deformity, upper limbs	70						88	
	<i>2.56</i>						<i>2.61</i>	
Renal agenesis/hypoplasia	81						101	
	<i>2.96</i>						<i>3.00</i>	
Spina bifida without anencephalus	79						99	
	<i>2.88</i>						<i>2.94</i>	
Tetralogy of Fallot	55						72	
	<i>2.01</i>						<i>2.14</i>	
Transposition of great arteries	42						46	
	<i>1.53</i>						<i>1.37</i>	
Tricuspid valve atresia and stenosis	11						14	
	<i>0.40</i>						<i>0.42</i>	
Trisomy 13	18						23	
	<i>0.66</i>						<i>0.68</i>	
Trisomy 18	31						42	
	<i>1.13</i>						<i>1.25</i>	
Ventricular septal defect	561						669	
	<i>20.48</i>						<i>19.87</i>	
Total Live Births	273,970						336,694	

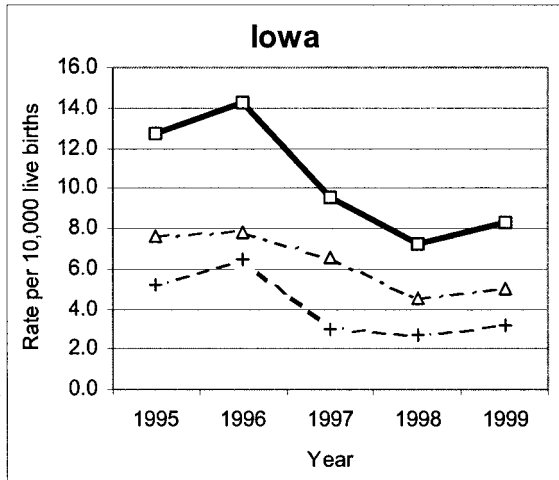
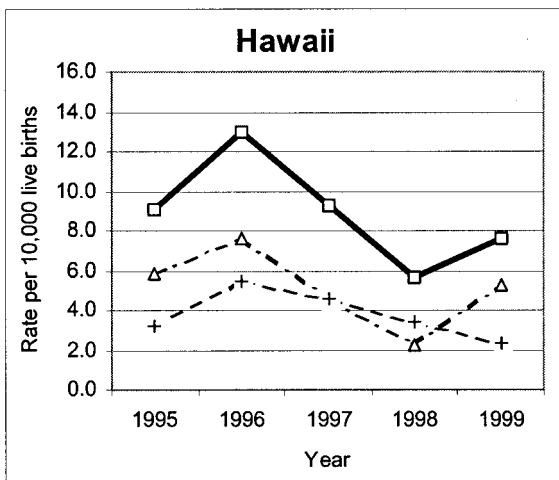
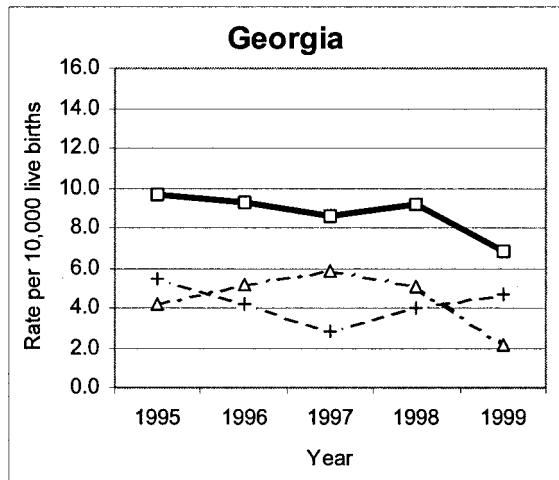
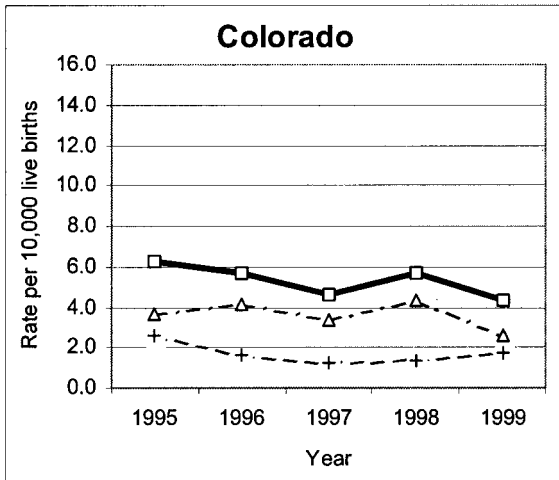
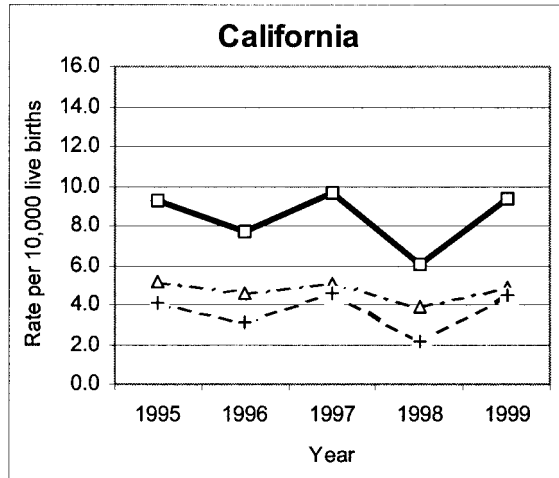
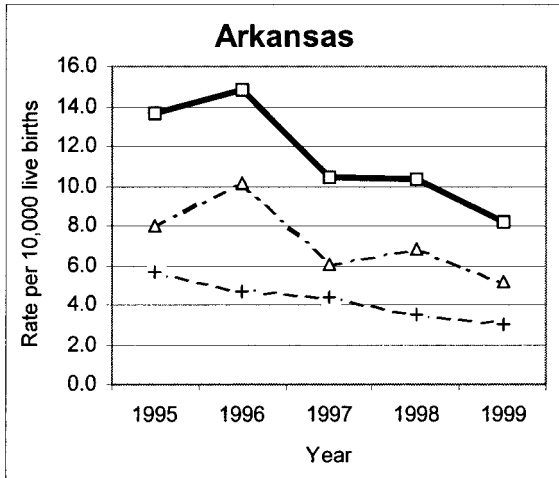
Wisconsin**Trisomy Counts and Rates by Maternal Age 1995-1999***(Rates per 10,000 Live Births)*

Defect	Age		Total*
	<35	35 and >	
Down syndrome	235 <i>7.96</i>	162 <i>39.10</i>	397 <i>11.79</i>
Trisomy 13	17 <i>0.58</i>	6 <i>1.45</i>	23 <i>0.68</i>
Trisomy 18	27 <i>0.91</i>	15 <i>3.62</i>	42 <i>1.25</i>
Total Live Births	295,266	41,428	336,694

* Total includes unknown age

Neural Tube Defects (NTDs) Rates, 1995-1999
Selected State Birth Defects Surveillance Programs
Grouped by Pregnancy Outcome – Live births/stillbirths/spontaneous abortion/elective terminations

—□— Total NTDs (SB and AN) - -△- - Spina bifida without anencephalus (SB) - -+ - - Anencephalus (AN)

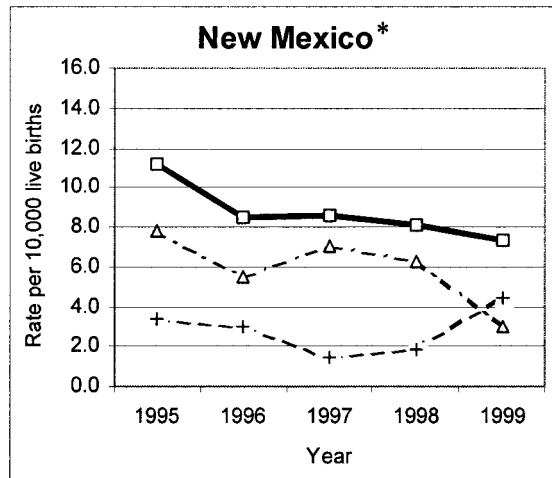
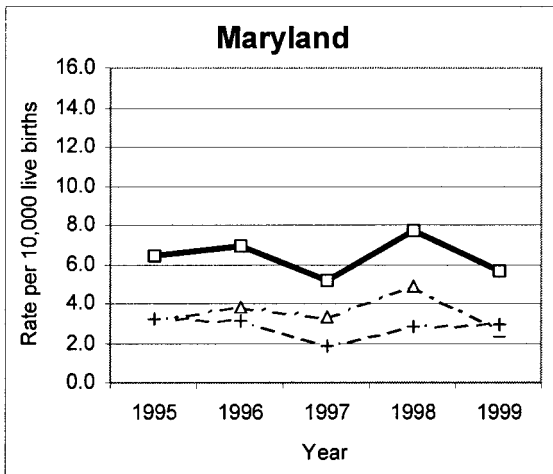


Neural Tube Defects (NTDs) Rates, 1995-1999
Selected State Birth Defects Surveillance Programs
Grouped by Pregnancy Outcome – Live births/stillbirths/spontaneous abortion/elective terminations (cont.)

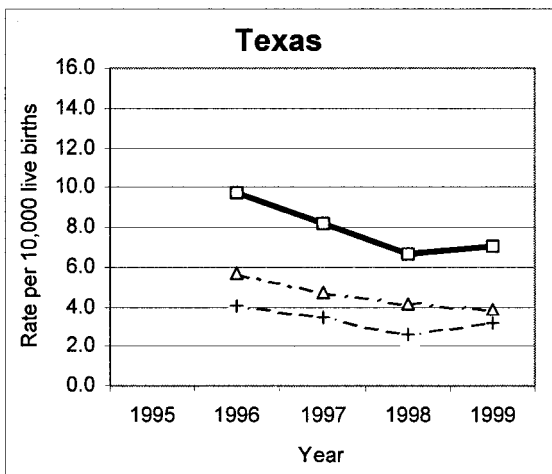
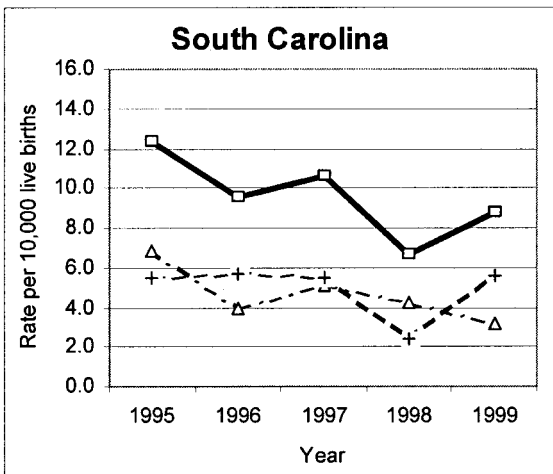
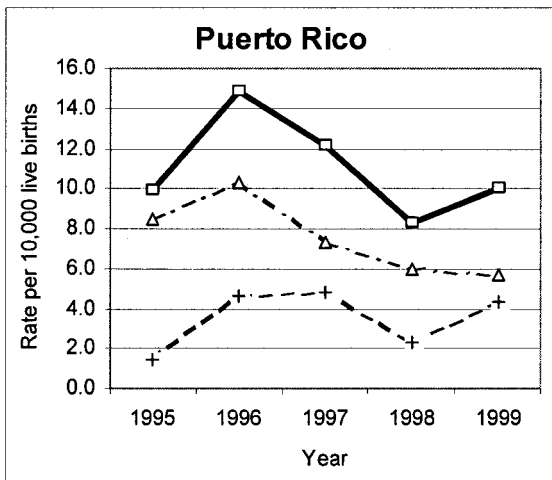
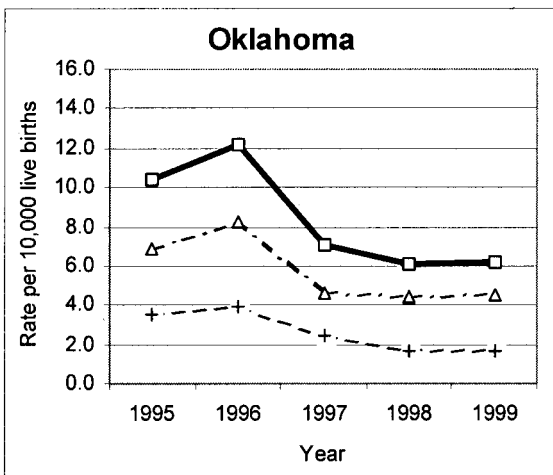
Total NTDs (SB and AN)

 Spina bifida without anencephalus (SB)

 Anencephalus (AN)



* NM - 1998-1999 data include live births/stillbirths/spontaneous abortions/elective terminations; 1995-1997 data include live births only.



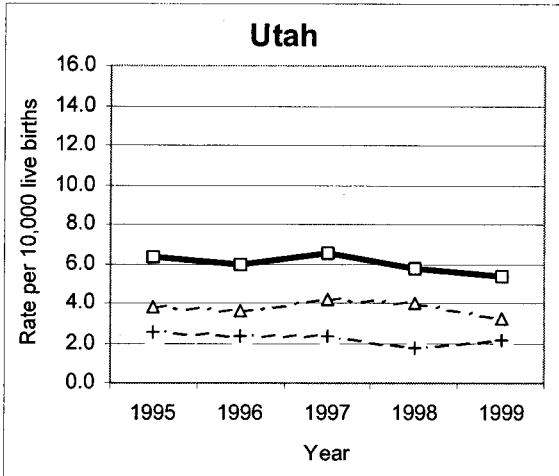
S214 NTD RATES

Neural Tube Defects (NTDs) Rates, 1995-1999

Selected State Birth Defects Surveillance Programs

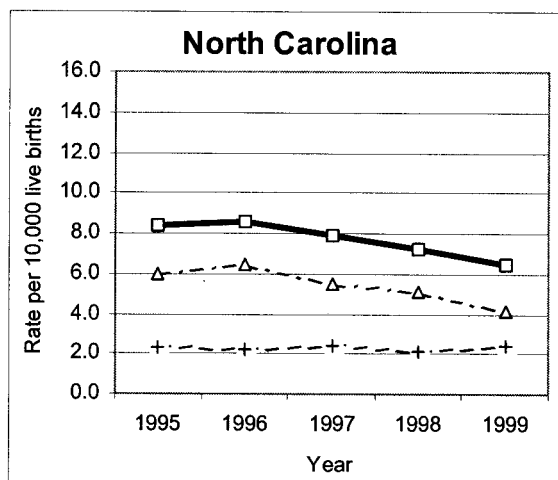
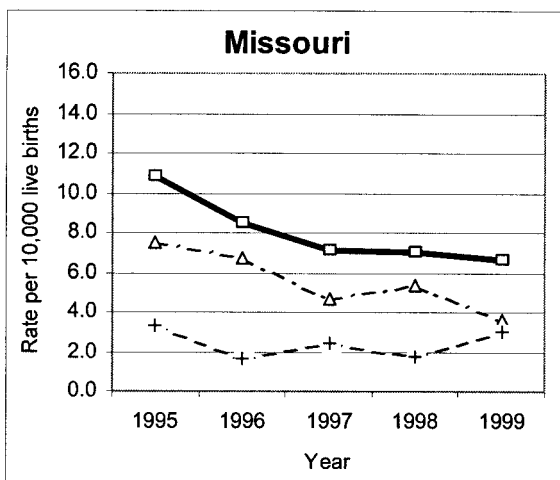
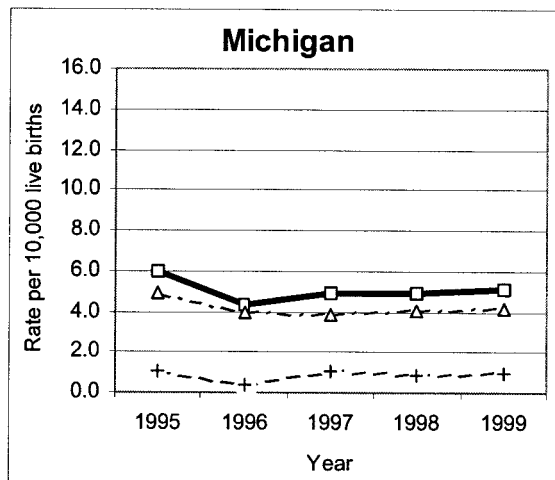
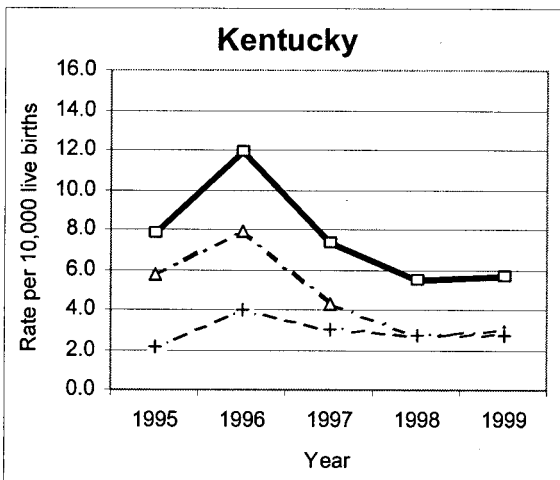
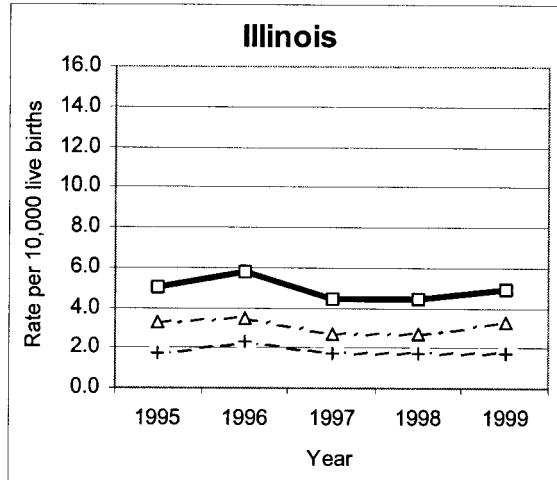
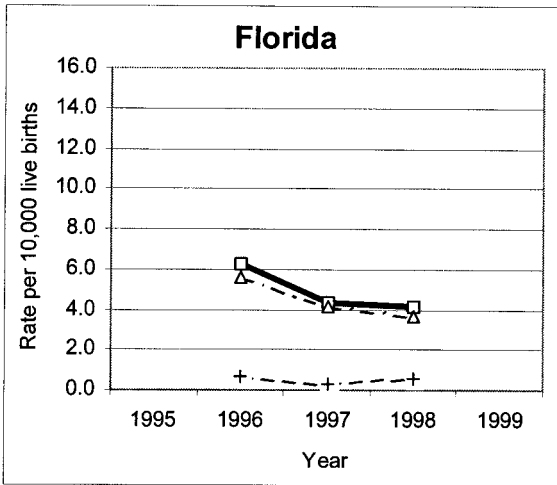
Grouped by Pregnancy Outcome – Live births/stillbirths/spontaneous abortion/elective terminations (cont.)

—□— Total NTDs (SB and AN) - -△- - Spina bifida without anencephalus (SB) - -+ - - Anencephalus (AN)



Neural Tube Defects (NTDs) Rates, 1995-1999
Selected State Birth Defects Surveillance Programs
Grouped by Pregnancy Outcome – Live births/stillbirths/spontaneous abortion

—□— Total NTDs (SB and AN) - -△- - Spina bifida without anencephalus (SB) - -+ - - Anencephalus (AN)

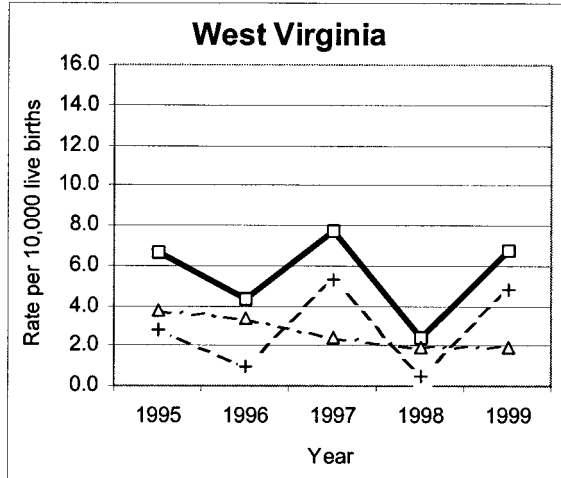
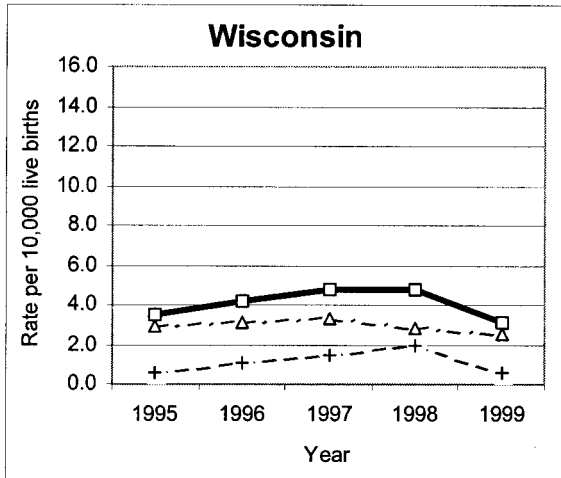


Neural Tube Defects (NTDs) Rates, 1995-1999
Selected State Birth Defects Surveillance Programs
Grouped by Pregnancy Outcome – Live births/stillbirths/spontaneous abortion (cont.)

Total NTDs (SB and AN)

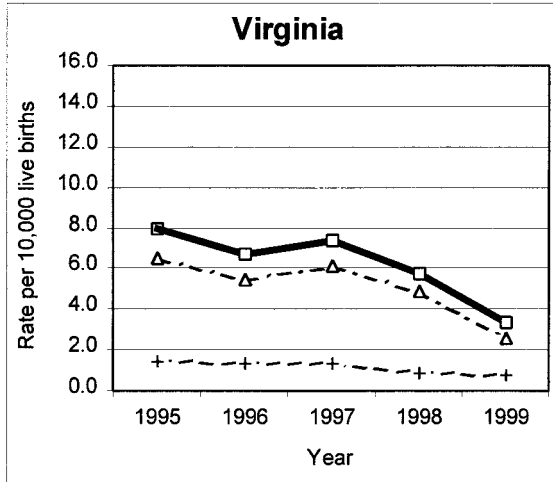
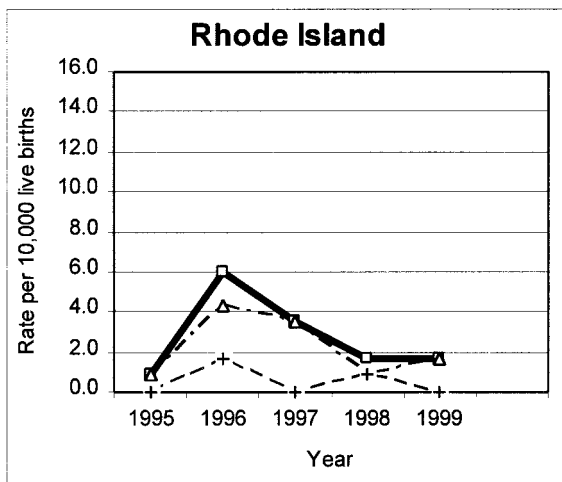
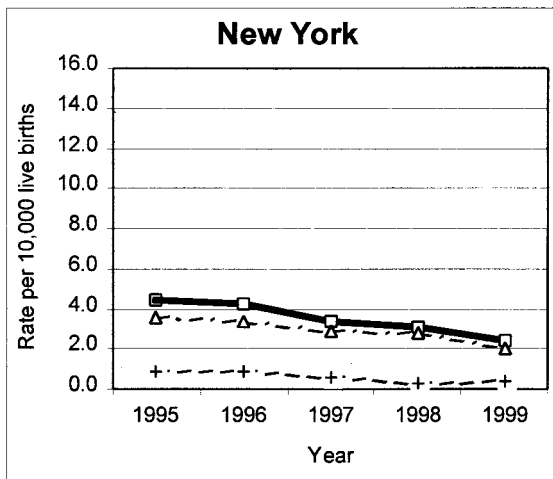
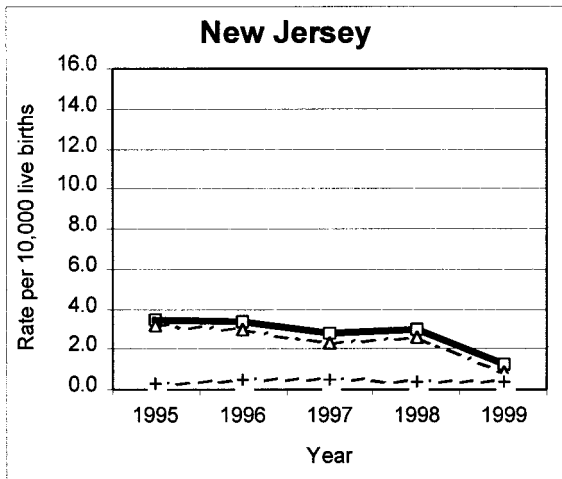
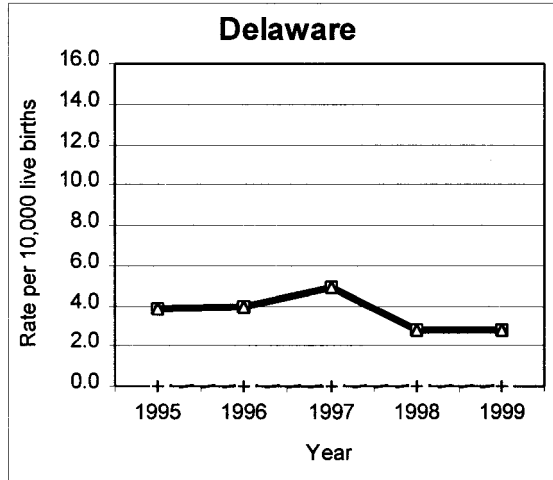
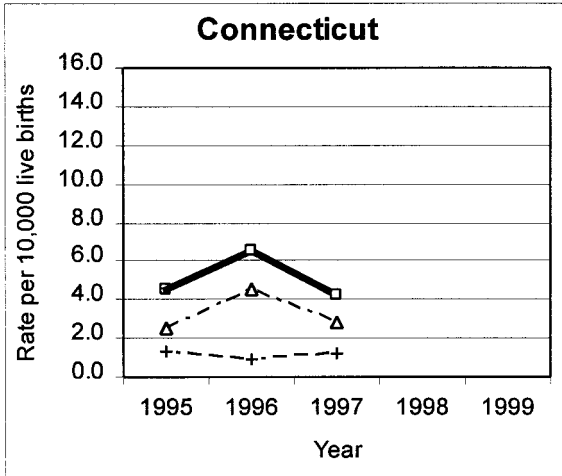
 Spina bifida without anencephalus (SB)

 Anencephalus (AN)



Neural Tube Defects (NTDs) Rates, 1995-1999
Selected State Birth Defects Surveillance Programs
Grouped by Pregnancy Outcome – Live births only

■ Total NTDs (SB and AN) -▲- Spina bifida without anencephalus (SB) -+- Anencephalus (AN)



APPENDIX A: ICD-9 and CDC/BPA Codes for the Forty-five Reported Birth Defects

Birth Defects	ICD-9-CM Codes	CDC/BPA Codes
Central Nervous System		
Anencephalus	740.0 - 740.1	740.00 - 740.10
Spina bifida without anencephalus	741.0, 741.9 w/o 740.0 -740.10	741.00 - 741.99 w/o 740.0 - 740.10
Hydrocephalus without Spina Bifida	742.3 w/o 741.0, 741.9	742.30 - 742.39 w/o 741.00 - 741.99
Encephalocele	742.0	742.00 - 742.09
Microcephalus	742.1	742.10
Eye		
Anophthalmia/microphthalmia	743.0, 743.1	743.00 - 743.10
Congenital cataract	743.30 - 743.34	743.32 - 743.326
Aniridia	743.45	743.42
Ear		
Anotia/microtia	744.01, 744.23	744.01, 744.21
Cardiovascular		
Common truncus	745.0	745.00 - 745.01
Transposition of great arteries	745.10, .11, .12, .19	745.10 - 745.19
Tetralogy of Fallot	745.2	745.20 - 745.21, 746.84
Ventricular septal defect	745.4	745.40 - 745.490 (exclude 745.498)
Atrial septal defect	745.5	745.50 - 745.59 (exclude 745.50)
Endocardial cushion defect	745.60, .61, .69	745.60 - 745.69
Pulmonary valve atresia and stenosis	746.01, 746.02	746.00 - 746.01
Tricuspid valve atresia and stenosis	746.1	746.10 (exclude 746.105)
Ebstein's anomaly	746.2	746.20
Aortic valve stenosis	746.3	746.30
Hypoplastic left heart syndrome	746.7	746.70
Patent ductus arteriosus (Include only if weight=>2500 grams or note if unable to exclude <2500 grams infants.)	747.0	747.00
Coarctation of aorta	747.10	747.10 - 747.19
Orofacial		
Cleft palate without cleft lip	749.0	749.00 - 749.09
Cleft lip with and without cleft palate	749.1, 749.2	749.10 - 749.29
Choanal atresia	748.0	748.00

Birth Defects	ICD-9-CM Codes	CDC/BPA Codes
Gastrointestinal		
Esophageal atresia/tracheoesophageal fistula	750.3	750.30 - 750.35
Rectal and large intestinal atresia/stenosis	751.2	751.20 - 751.24
Pyloric stenosis	750.5	750.51
Hirschsprung's disease (congenital megacolon)	751.3	751.30 - 751.34
Biliary atresia	751.61	751.65
Genitourinary		
Renal agenesis/hypoplasia	753.0	753.00 - 753.01
Bladder exstrophy	753.5	753.50
Obstructive genitourinary defect	753.2, 753.6	753.20-29 - 753.60- 69
Hypospadias and Epispadias	752.61, 752.62	752.600 - 752.627 (excluding 752.621)
Musculoskeletal		
Reduction deformity, upper limbs	755.20 - 755.29	755.20 - 755.29
Reduction deformity, lower limbs	755.30 - 755.39	755.30 - 755.39
Gastroschisis	756.79	756.71
Omphalocele	756.79	756.70
Congenital hip dislocation	754.30, .31, .35	754.30
Diaphragmatic hernia	756.6	756.610 - 756.617
Chromosomal		
Trisomy 13	758.1	758.10 - 758.19
Down syndrome	758.0	758.00 - 758.09
Trisomy 18	758.2	758.20 - 758.290
Other		
Fetal alcohol syndrome	760.71	760.71
Amniotic bands	No code	658.80