
Birth Defects Surveillance Data from Selected States, 1996-2000

On the following pages, birth defects surveillance data are presented for 35 states. In this issue, state surveillance programs were requested to provide birth defects data for the time period January 1, 1996 through December 31, 2000. This presentation, showing the most current five-year data totals available, follows the 2002 report (NBDPN, '02) rather than include more historical data as in previous reports (NBDPN, '97, '00, '01). Differences in surveillance methodology among states preclude the ability to provide rates for all programs combined.

State programs were asked to provide surveillance data on 45 specific birth defects as detailed in Appendix A on page 822. 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 670-728. 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.

In the previous report, graphs displaying annual rates for neural tube defects (spina bifida and anencephaly)

were included to highlight the trend in occurrence of these defects over a five-year period. This year's report focuses on the prevalence rates of fetal alcohol syndrome and compares the case ascertainment methodologies used by the Fetal Alcohol Syndrome Surveillance Network (FASS-Net) and state birth defects surveillance programs. Prevalence data are presented by race/ethnicity for the period 1995-1999. For a more detailed presentation of other birth defects, the reader is encouraged to visit the NBDPN web site at www.nbdpn.org/NBDPN.

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Alabama

Birth Defects Counts and Rates 1998–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Amniotic bands	1 0.66	0 0.00	0 0.00	0 0.00	0 0.00	0 0	1 0.41	
Anencephalus	3 1.99	2 2.35	0 0.00	0 0.00	0 0.00	0 0	5 2.06	
Aniridia	2 1.33	1 1.17	0 0.00	0 0.00	0 0.00	0 0	3 1.24	
Anophthalmia/ microphthalmia	4 2.65	6 7.05	0 0.00	0 0.00	0 0.00	0 0	10 4.12	
Anotia/microtia	1 0.66	2 2.35	0 0.00	1 50.51	0 0.00	0 0	4 1.65	
Aortic valve stenosis	2 1.33	1 1.17	0 0.00	1 50.51	0 0.00	0 0	4 1.65	
Atrial septal defect	36 23.86	15 17.62	0 0.00	1 50.51	0 0.00	0 0	52 21.44	1998: Isolated cases not reported; 1999: Isolated cases not reported; 2000: Isolated cases not reported
Biliary atresia	1 0.66	1 1.17	0 0.00	0 0.00	0 0.00	0 0	2 0.82	
Bladder exstrophy	1 0.66	1 1.17	0 0.00	0 0.00	0 0.00	0 0	2 0.82	
Choanal atresia	0 0.00	1 1.17	0 0.00	0 0.00	0 0.00	0 0	1 0.41	
Cleft lip with and without cleft palate	17 11.27	6 7.05	0 0.00	0 0.00	0 0.00	0 0	23 9.48	
Cleft palate without cleft lip	16 10.60	2 2.35	0 0.00	1 50.51	0 0.00	0 0	19 7.83	
Coarctation of aorta	8 5.30	6 7.05	0 0.00	0 0.00	0 0.00	0 0	14 5.77	
Common truncus	1 0.66	2 2.35	0 0.00	0 0.00	0 0.00	0 0	3 1.24	
Congenital cataract	2 1.33	2 2.35	0 0.00	0 0.00	0 0.00	0 0	4 1.65	
Congenital hip dislocation	2 1.33	3 3.52	0 0.00	0 0.00	0 0.00	0 0	5 2.06	1998: Isolated cases not reported; 1999: Isolated cases not reported; 2000: Isolated cases not reported
Diaphragmatic hernia	6 3.98	4 4.70	0 0.00	0 0.00	0 0.00	0 0	10 4.12	
Down syndrome	18 11.93	10 11.74	0 0.00	0 0.00	0 0.00	0 0	28 11.54	
Ebstein's anomaly	2 1.33	1 1.17	0 0.00	0 0.00	0 0.00	0 0	3 1.24	

Alabama

Birth Defects Counts and Rates 1998–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Encephalocele	1 0.66	1 1.17	0 0.00	0 0.00	1 74.07	0	3 1.24	
Endocardial cushion defect	6 3.98	8 9.40	0 0.00	0 0.00	0 0.00	0	14 5.77	
Esophageal atresia/ tracheoesophageal fistula	4 2.65	2 2.35	0 0.00	0 0.00	0 0.00	0	6 2.47	
Fetal alcohol syndrome	0 0.00	3 3.52	0 0.00	0 0.00	0 0.00	0	3 1.24	
Gastroschisis	8 5.30	2 2.35	0 0.00	3 151.52	0 0.00	0	13 5.36	
Hirschsprung's disease (congenital megacolon)	2 1.33	2 2.35	0 0.00	0 0.00	0 0.00	0	4 1.65	
Hydrocephalus without Spina Bifida	21 13.92	7 8.22	0 0.00	0 0.00	0 0.00	0	28 11.54	
Hypoplastic left heart syndrome	3 1.99	2 2.35	0 0.00	0 0.00	0 0.00	0	5 2.06	
Hypospadias and Epispadias	21 13.92	8 9.40	0 0.00	1 50.51	0 0.00	0	30 12.37	1998: Isolated 1st degree hypospadias not reported; 1999: Isolated 1st degree hypospadias not reported
Microcephalus	13 8.61	11 12.92	0 0.00	1 50.51	0 0.00	0	25 10.31	
Obstructive genitourinary defect	44 29.16	32 37.58	0 0.00	0 0.00	0 0.00	0	76 31.33	
Omphalocele	5 3.31	2 2.35	0 0.00	0 0.00	0 0.00	0	7 2.89	
Pulmonary valve atresia and stenosis	9 5.96	4 4.70	0 0.00	0 0.00	0 0.00	0	13 5.36	
Pyloric stenosis	36 23.86	8 9.40	0 0.00	0 0.00	0 0.00	0	44 18.14	
Rectal and large intestinal atresia/stenosis	7 4.64	8 9.40	0 0.00	1 50.51	0 0.00	0	16 6.60	
Reduction deformity, lower limbs	1 0.66	3 3.52	0 0.00	1 50.51	0 0.00	0	5 2.06	
Reduction deformity, upper limbs	9 5.96	1 1.17	0 0.00	1 50.51	0 0.00	0	11 4.53	
Renal agenesis/hypoplasia	15 9.94	14 16.44	0 0.00	1 50.51	0 0.00	0	30 12.37	
Spina bifida without anencephalus	10 6.63	6 7.05	0 0.00	1 50.51	0 0.00	0	17 7.01	
Tetralogy of Fallot	11 7.29	4 4.70	0 0.00	0 0.00	0 0.00	0	15 6.18	
Transposition of great arteries	11 7.29	3 3.52	1 33.22	0 0.00	0 0.00	0	15 6.18	
Tricuspid valve atresia and stenosis	4 2.65	1 1.17	0 0.00	0 0.00	0 0.00	0	5 2.06	

Alabama

Birth Defects Counts and Rates 1998–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Trisomy 13	6 3.98	1 1.17	0 0.00	0 0.00	0 0.00	0	7 2.89	
Trisomy 18	4 2.65	3 3.52	0 0.00	0 0.00	0 0.00	0	7 2.89	
Ventricular septal defect	23	17	1	0	0	0	41	1998: Isolated cases not reported; 1999: Isolated cases not reported; 2000: Isolated cases not reported
	15.24	19.96	33.22	0.00	0.00		16.90	
Total Live Births	15,090	8,515	301	198	135		24,258	

Alabama

Trisomy Counts and Rates by Maternal Age 1998–2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	12 5.46	16 70.80	28 11.54
Trisomy 13	6 2.73	1 4.42	7 2.89
Trisomy 18	4 1.82	3 13.27	7 2.89
Total Live Births	21,996	2,260	24,258

*Total includes unknown age.

Alaska

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		
Anencephalus							10 2.51	
Aniridia							1 0.25	
Anophthalmia/ microphthalmia							15 3.76	
Anotia/microtia							16 4.01	
Aortic valve stenosis							16 4.01	
Atrial septal defect							319 79.96	
Biliary atresia							10 2.51	
Bladder exstrophy							4 1.00	
Choanal atresia							9 2.26	
Cleft lip with and without cleft palate							67 16.79	
Cleft palate without cleft lip							37 9.27	
Coarctation of aorta							19 4.76	
Common truncus							5 1.25	
Congenital cataract							18 4.51	
Congenital hip dislocation							114 28.58	
Diaphragmatic hernia							20 5.01	
Down syndrome							53 13.29	
Ebstein's anomaly							3 0.75	
Encephalocele							10 2.51	
Endocardial cushion defect							19 4.76	
Esophageal atresia/ tracheoesophageal fistula							12 3.01	
Hirschsprung's disease (congenital megacolon)							55 13.79	
Hydrocephalus without Spina Bifida							49 12.28	
Hypoplastic left heart syndrome							11 2.76	
Hypospadias and Epispadias							141 35.34	
Microcephalus							114 28.58	

Alaska

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		
Obstructive genitourinary defect							116 29.08	
Patent ductus arteriosus							195 48.88	Include birth weight \geq 2500 grams only
Pulmonary valve atresia and stenosis							35 8.77	Adjusted for over-reporting based on medical chart verification at Alaska's two largest reporting facilities
Pyloric stenosis							126 31.58	
Rectal and large intestinal atresia/stenosis							38 9.53	
Reduction deformity, lower limbs							23 5.77	
Reduction deformity, upper limbs							17 4.26	
Renal agenesis/hypoplasia							23 5.77	
Spina bifida without anencephalus							16 4.01	
Tetralogy of Fallot							30 7.52	
Transposition of great arteries							24 6.02	
Tricuspid valve atresia and stenosis							18 4.51	
Trisomy 13							7 1.75	
Trisomy 18							12 3.01	
Ventricular septal defect							315 78.96	
Total Live Births							39,894	

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. Not all congenital anomalies are currently verified by medical chart review, except for Fetal Alcohol Syndrome (FAS) and select birth defects.

Arizona

Birth Defects Counts and Rates 1996–1997

(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	13 1.70	0 0.00	4 0.72	0 0.00	1 0.94	0 0.00	18 1.19	
Anencephalus	16 2.10	0 0.00	24 4.34	0 0.00	4 3.77	1 19.69	45 2.99	
Aniridia	0 0.00	0 0.00	2 0.36	0 0.00	1 0.94	0 0.00	3 0.20	
Anophthalmia/ microphthalmia	18 2.36	1 2.07	13 2.35	0 0.00	7 6.60	0 0.00	39 2.59	
Anotia/microtia	24 3.14	0 0.00	15 2.71	2 6.60	11 10.38	0 0.00	52 3.45	
Aortic valve stenosis	23 3.01	1 2.07	17 3.07	2 6.60	3 2.83	0 0.00	46 3.05	
Atrial septal defect	81 10.61	8 16.59	54 9.76	3 9.90	25 23.59	1 19.69	172 11.42	
Biliary atresia	6 0.79	0 0.00	2 0.36	0 0.00	1 0.94	0 0.00	9 0.60	
Bladder exstrophy	2 0.26	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	2 0.13	
Choanal atresia	16 2.10	3 6.22	8 1.45	0 0.00	2 1.89	0 0.00	29 1.92	
Cleft lip with and without cleft palate	94 12.31	3 6.22	54 9.76	3 9.90	32 30.19	3 59.06	189 12.55	
Cleft palate without cleft lip	37 4.85	1 2.07	38 6.87	1 3.30	10 9.43	3 59.06	90 5.79	
Coarctation of aorta	43 5.63	1 2.07	26 4.70	4 13.21	3 2.83	0 0.00	77 5.11	
Common truncus	10 1.31	1 2.07	5 0.90	2 6.60	0 0.00	0 0.00	18 1.19	
Congenital cataract	11 1.44	0 0.00	8 1.45	0 0.00	2 1.89	1 0.00	22 1.46	
Congenital hip dislocation	54 7.07	1 2.07	48 8.67	0 0.00	18 16.98	0 0.00	121 8.03	
Diaphragmatic hernia	16 2.10	1 2.07	10 1.81	0 0.00	2 1.89	1 19.69	30 1.99	
Down syndrome	83 10.87	7 14.52	88 15.90	2 6.60	14 13.21	2 39.37	196 13.01	
Ebstein's anomaly	13 1.70	0 0.00	5 0.90	0 0.00	1 0.94	0 0.00	19 1.26	
Encephalocele	9 1.18	1 2.07	11 1.99	0 0.00	3 2.83	0 0.00	24 1.59	
Endocardial cushion defect	31 4.06	1 2.07	22 3.98	0 0.00	0 0.00	1 19.69	55 3.65	
Esophageal atresia/ tracheoesophageal fistula	26 3.40	0 0.00	10 1.81	0 0.00	2 1.89	0 0.00	38 2.52	
Fetal alcohol syndrome	2 0.26	0 0.00	1 0.18	0 0.00	12 11.32	3 59.06	18 1.19	
Gastroschisis	34 4.45	5 10.37	36 6.51	1 3.30	2 1.89	0 0.00	78 5.18	
Hirschsprung's disease (congenital megacolon)	12 1.57	0 0.00	5 0.90	0 0.00	0 0.00	0 0.00	17 1.13	
Hydrocephalus without Spina Bifida	37 4.85	2 4.15	23 4.16	0 0.00	6 5.66	0 0.00	68 4.51	

Arizona

Birth Defects Counts and Rates 1996–1997

(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		
Hypoplastic left heart syndrome	20 2.62	1 2.07	6 1.08	0 0.00	0 0.00	0 0.00	27 0.80	
Hypospadias and Epispadias	262 34.31	18 37.34	93 16.81	11 36.32	10 9.43	3 59.06	397 26.35	
Microcephalus	48 6.29	5 10.37	61 11.02	1 3.30	17 16.04	4 78.74	136 9.03	
Obstructive genitourinary defect	112 14.67	3 6.22	98 17.71	4 13.21	15 14.15	1 19.69	233 15.47	
Omphalocele	15 1.96	0 0.00	9 1.63	2 6.60	4 3.77	0 0.00	30 1.99	
Pulmonary valve atresia and stenosis	66 8.64	6 12.45	42 7.59	4 13.21	11 10.38	0 0.00	129 8.56	
Pyloric stenosis	162 21.21	4 8.30	96 17.35	0 0.00	23 21.70	7 37.80	292 19.38	
Rectal and large intestinal atresia/stenosis	25 3.27	1 2.07	22 3.98	1 3.30	0 0.00	0 0.00	49 3.25	
Reduction deformity, lower limbs	23 3.01	0 0.00	5 0.90	0 0.00	2 1.89	0 0.00	30 1.99	
Reduction deformity, upper limbs	30 3.93	0 0.00	16 2.89	0 0.00	2 1.89	0 0.00	48 3.19	
Renal agenesis/hypoplasia	34 4.45	1 2.07	25 4.52	4 13.21	6 5.66	2 39.37	72 4.78	
Spina bifida without anencephalus	24 3.14	0 0.00	31 5.60	0 0.00	4 3.77	3 59.06	62 4.12	
Tetralogy of Fallot	40 5.24	5 10.37	13 2.35	1 3.30	7 6.60	0 0.00	66 4.38	
Transposition of great arteries	36 4.71	3 6.22	26 4.70	2 6.60	5 4.72	1 19.69	73 4.85	
Tricuspid valve atresia and stenosis	6 0.79	0 0.00	8 1.45	0 0.00	1 0.94	0 0.00	15 1.00	
Trisomy 13	9 1.18	1 2.07	4 0.72	1 3.30	1 0.94	1 19.69	17 1.13	
Trisomy 18	17 2.23	2 4.15	8 1.45	0 0.00	4 3.77	0 0.00	31 2.06	
Ventricular septal defect	141 18.46	10 20.74	104 18.79	3 9.90	31 29.25	1 19.69	290 19.25	
Total Live Births	76,363	4,821	55,337	3,029	10,599	508	150,657	

Arizona

Trisomy Counts and Rates by Maternal Age 1996–1997

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	120	76	196
	8.98	44.73	13.01
Trisomy 13	12	5	17
	0.90	2.94	1.13
Trisomy 18	28	3	31
	2.10	1.77	2.06
Total Live Births	133,634	16,992	150,657

*Total includes unknown age.

Arkansas

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Amniotic bands	25 1.88	12 3.06	2 2.26	0 0.00	0 0.00	1	40 2.17	
Anencephalus	56 4.22	10 2.55	5 5.65	0 0.00	0 0.00	3	74 4.02	Include live births, still births, and terminations
Aniridia	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0	0 0.00	
Anophthalmia/microphthalmia	47 3.54	8 2.04	1 1.13	0 0.00	0 0.00	0	56 3.04	
Anotia/microtia	28 2.11	4 1.02	0 0.00	0 0.00	0 0.00	0	32 1.74	
Aortic valve stenosis	49 3.69	14 3.57	2 2.26	2 9.94	0 0.00	0	67 3.64	
Atrial septal defect	472 35.58	139 35.45	29 32.75	3 14.91	1 9.43	8	652 35.42	
Biliary atresia	8 0.60	4 1.02	2 2.26	0 0.00	0 0.00	0	14 0.76	
Bladder exstrophy	6 0.45	0 0.00	0 0.00	0 0.00	0 0.00	0	6 0.33	
Choanal atresia	17 1.28	4 1.02	2 2.26	0 0.00	0 0.00	0	23 1.25	
Cleft lip with and without cleft palate	166 12.51	33 8.42	11 12.42	1 4.97	1 9.43	4	216 11.73	
Cleft palate without cleft lip	110 8.29	16 4.08	3 3.39	1 4.97	0 0.00	1	131 7.12	
Coarctation of aorta	80 6.03	13 3.32	4 4.52	0 0.00	0 0.00	0	97 5.27	
Common truncus	11 0.83	1 0.26	1 1.13	0 0.00	0 0.00	1	14 0.76	
Congenital cataract	33 2.49	13 3.32	1 1.13	0 0.00	0 0.00	1	48 2.61	
Congenital hip dislocation	108 8.14	10 2.55	16 18.07	0 0.00	1 9.43	1	136 7.39	1999: inclusion criteria altered after 1998
Diaphragmatic hernia	63 4.75	11 2.81	2 2.26	0 0.00	0 0.00	0	76 4.13	
Down syndrome	146 11.00	39 9.95	15 16.94	1 4.97	0 0.00	3	204 11.08	
Ebstein's anomaly	14 1.06	1 0.26	2 2.26	0 0.00	0 0.00	0	17 0.92	
Encephalocele	23 1.73	11 2.81	0 0.00	0 0.00	0 0.00	1	35 1.90	
Endocardial cushion defect	55 4.15	19 4.85	0 0.00	0 0.00	0 0.00	1	75 4.07	
Esophageal atresia/tracheoesophageal fistula	32 2.41	7 1.79	2 2.26	1 4.97	0 0.00	0	42 2.28	
Fetal alcohol syndrome	5 0.38	30 7.65	0 0.00	0 0.00	0 0.00	0	35 1.90	
Gastroschisis	71 5.35	14 3.57	7 7.91	0 0.00	0 0.00	3	95 5.16	

Arkansas

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Hirschsprung's disease (congenital megacolon)	16 1.21	7 1.79	0 0.00	0 0.00	0 0.00	0	23 1.25	
Hydrocephalus without Spina Bifida	198 14.92	75 19.13	8 9.03	0 0.00	0 0.00	4	285 15.48	1998: inclusion criteria altered in 1998
Hypoplastic left heart syndrome	41 3.09	5 1.28	1 1.13	0 0.00	0 0.00	0	47 2.55	
Hypospadias and Epispadias	531 40.02	93 23.72	13 14.68	0 0.00	2 18.85	5	644 34.98	
Microcephalus	130 9.80	67 17.09	6 6.78	1 4.97	1 9.43	1	206 11.19	1998: inclusion criteria altered in 1998
Obstructive genitourinary defect	225 16.96	53 13.52	16 18.07	4 19.88	1 9.43	0	299 16.24	
Omphalocele	31 2.34	10 2.55	5 5.65	0 0.00	0 0.00	1	47 2.55	
Patent ductus arteriosus	395 29.77	126 32.13	32 36.14	4 19.88	0 0.00	2	559 30.36	only if weight ≥2500 grams
Pulmonary valve atresia and stenosis	131 9.87	38 9.69	6 6.78	2 9.94	0 0.00	2	179 9.72	
Pyloric stenosis	248 18.69	25 6.38	11 12.42	1 4.97	0 0.00	3	288 15.64	1999: inclusion criteria altered after 1998
Rectal and large intestinal atresia/stenosis	90 6.78	15 3.83	2 2.26	0 0.00	0 0.00	1	108 5.87	
Reduction deformity, lower limbs	20 1.51	10 2.55	3 3.39	0 0.00	0 0.00	1	34 1.85	
Reduction deformity, upper limbs	55 4.15	14 3.57	5 5.65	0 0.00	0 0.00	1	75 4.07	
Renal agenesis/hypoplasia	74 5.58	15 3.83	9 10.16	0 0.00	0 0.00	0	98 5.32	
Spina bifida without anencephalus	92 6.93	15 3.83	4 4.52	0 0.00	0 0.00	2	113 6.14	Include live births, still births, and terminations
Tetralogy of Fallot	47 3.54	14 3.57	6 6.78	1 4.97	0 0.00	1	69 3.75	
Transposition of great arteries	71 5.35	14 3.57	6 6.78	1 4.97	0 0.00	0	92 5.00	
Tricuspid valve atresia and stenosis	16 1.21	3 0.77	2 2.26	1 4.97	0 0.00	0	22 1.20	
Trisomy 13	14 1.06	4 1.02	0 0.00	0 0.00	0 0.00	0	18 0.98	
Trisomy 18	20 1.51	2 0.51	0 0.00	0 0.00	0 0.00	0	22 1.20	
Ventricular septal defect	548 41.31	153 39.02	44 49.69	5 24.85	0 0.00	10	760 41.28	
Total Live Births	132,671	39,215	8,855	2,012	1,061		184,097	

Arkansas

Trisomy Counts and Rates by Maternal Age 1996–2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	129	58	204
	7.54	44.34	11.08
Trisomy 13	15	3	18
	0.88	2.29	0.98
Trisomy 18	14	8	22
	0.82	6.12	1.20
Total Live Births	170,977	13,080	184,097

*Total includes unknown age.

Notes:

1. The data for 2000 are provisional.

California

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Amniotic bands	10 1.05	<5* 0.00	28 1.87	<5 0.00	5 4.04	0	48 1.71	
Anencephalus	44 4.62	<5 0.00	42 2.80	<5 0.00	9 7.27	6	105 3.73	
Anophthalmia/ microphthalmia	13 1.36	0 0.00	18 1.20	<5 0.00	<5 0.00	0	33 1.17	
Anotia/microtia	16 1.68	<5 0.00	70 4.67	0 0.00	<5 0.00	<5	93 3.31	
Aortic valve stenosis	26 2.73	<5 0.00	15 1.00	<5 0.00	<5 0.00	0	49 1.74	
Atrial septal defect	183 19.20	27 20.29	293 19.54	5 21.75	26 21.00	21	555 19.74	
Biliary atresia	<5 0.00	5 3.76	13 0.87	0 0.00	0 0.00	0	22 0.78	
Bladder exstrophy	<5 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0	<5 0.00	
Choanal atresia	7 0.73	0 0.00	5 0.33	0 0.00	<5 0.00	0	13 0.46	
Cleft lip with and without cleft palate	112 11.75	7 5.26	154 10.27	<5 0.00	12 9.69	6	293 10.42	
Cleft palate without cleft lip	52 5.46	5 3.76	63 4.20	<5 0.00	11 8.88	7	139 4.94	
Coarctation of aorta	45 4.72	6 4.51	53 3.53	<5 0.00	<5 0.00	<5	113 4.02	
Common truncus	7 0.73	0 0.00	8 0.53	0 0.00	<5 0.00	0	16 0.57	
Diaphragmatic hernia	25 2.62	<5 0.00	37 2.47	0 0.00	5 4.04	<5	71 2.53	
Down syndrome	87 9.13	11 8.27	171 11.40	0 0.00	7 5.65	9	285 10.14	
Ebstein's anomaly	10 1.05	0 0.00	5 0.33	0 0.00	0 0.00	<5	16 0.57	
Encephalocele	6 0.63	<5 0.00	13 0.87	<5 0.00	<5 0.00	<5	26 0.92	
Endocardial cushion defect	31 3.25	<5 0.00	49 3.27	0 0.00	<5 0.00	<5	87 3.09	
Esophageal atresia/ tracheoesophageal fistula	16 1.68	<5 0.00	15 1.00	0 0.00	<5 0.00	0	34 1.21	
Fetal alcohol syndrome	6 0.63	<5 0.00	8 0.53	0 0.00	<5 0.00	<5	18 0.64	
Gastroschisis	45 4.72	5 3.76	60 4.00	0 0.00	6 4.85	<5	118 4.20	
Hydrocephalus without Spina Bifida	35 3.67	7 5.26	46 3.07	<5 0.00	7 5.65	<5	98 3.49	
Hypoplastic left heart syndrome	29 3.04	5 3.76	30 2.00	<5 0.00	<5 0.00	0	70 2.49	
Hypospadias and Epispadias	25 2.62	<5 0.00	30 2.00	<5 0.00	<5 0.00	<5	64 2.28	
Omphalocele	14 1.47	<5 0.00	19 1.27	0 0.00	<5 0.00	0	37 1.32	
Pulmonary valve atresia and stenosis	9 0.94	<5 0.00	14 0.93	0 0.00	0 0.00	<5	27 0.96	

California

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Rectal and large intestinal atresia/stenosis	23 2.41	0 0.00	40 2.67	0 0.00	<5 0.00	<5	69 2.45	
Reduction deformity, lower limbs	15 1.57	<5 0.00	26 1.73	0 0.00	<5 0.00	0	47 1.67	
Reduction deformity, upper limbs	29 3.04	<5 0.00	69 4.60	0 0.00	<5 0.00	<5	105 3.73	
Renal agenesis/hypoplasia	<5 0.00	0 0.00	7 0.47	<5 0.00	<5 0.00	0	13 0.46	
Spina bifida without anencephalus	39 4.09	5 3.76	69 4.60	0 0.00	<5 0.00	5	121 4.30	
Tetralogy of Fallot	22 2.31	<5 0.00	38 2.53	0 0.00	7 5.65	<5	72 2.56	
Transposition of great arteries	41 4.30	7 5.26	62 4.13	0 0.00	7 5.65	<5	118 4.20	
Tricuspid valve atresia and stenosis	<5 0.00	<5 0.00	20 1.33	0 0.00	<5 0.00	0	26 0.92	
Trisomy 13	7 0.73	<5 0.00	18 1.20	0 0.00	<5 0.00	0	32 1.14	
Trisomy 18	18 1.89	<5 0.00	25 1.67	0 0.00	<5 0.00	<5	50 1.78	
Ventricular septal defect	142 14.90	23 17.28	248 16.54	<5 0.00	16 12.92	18	449 15.97	
Total Live Births	95,316	13,308	149,950	2,299	12,383		281,180	

California

Trisomy Counts and Rates by Maternal Age 1996–2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	158 6.26	120 41.62	285 10.14
Trisomy 13	24 0.95	8 2.77	32 1.14
Trisomy 18	26 1.03	21 7.28	50 1.78
Total Live Births	252,337	28,829	281,180

*Total includes unknown age.

Notes:

1. Anophthalmia/microphthalmia—Bilateral confirmed by geneticist (14), pathologist (25), ophthalmologist (22) or neurologist (19).
2. Anotia/microtia—exclude any case with Downs (758.000); 744.214—Diagnosis confirmed by geneticist (14), ENT (24) or pathologist (25).
3. Cardiovascular defects—Diagnosis confirmed by pathologist (25) or by echo (5), catheterization (16), pathology (15) or surgery (15).
4. ASD and VSD—A) Reportable in isolation only with positive catheterization, CHF, diuretics, medication or surgery. Prior to 1/1/00 were reportable only in combination. B) If the ASD and/or VSD is a component of another major heart malformation it is not counted. C) The only chromosomal abnormalities included in this dataset are Trisomy 13, 18, 21. If the baby had ASD and/or VSD and a chromosome anomaly that was not Trisomy 13, 18, 21, the ASD and/or VSD was excluded. D) ASD and/or VSD not confirmed to echo, cardiac catheterization, surgery, or baby must have congestive heart failure or be taking diuretics was excluded. E) ASD and/or VSD were excluded if physician review determined the baby did not have the defect. F) Case excluded if birth residence determined to not be in the study county.
5. Hypospadias and Epispadias—No epispadias in registry; 2nd and 3rd degree only.
6. Pulmonary valve atresia and stenosis—No stenosis in registry.
7. Rectal and large intestinal atresia/stenosis—Diagnosis confirmed by CT scan (3), x-ray (6), scope (11), surgery (15) or autopsy (18).
8. Trisomy 13, Down syndrome, and trisomy 18—Diagnosis confirmed by cytogeneticist (19, 119).
9. CBDPMP does not report rates based on <5 cases.

Colorado

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Anencephalus	19	2	15	1	2	8	47	live births/ fetal deaths- any gestational age
	0.95	1.49	2.01	1.16	8.17	1.57		
Aniridia	3	0	1	1	0	0	5	
	0.15	0.00	0.13	1.16	0.00		0.17	
Anophthalmia/ microphthalmia	26	0	15	0	0	2	43	
	1.30	0.00	2.01	0.00	0.00		1.44	
Anotia/microtia	29	1	19	1	0	1	51	
	1.45	0.75	2.54	1.16	0.00		1.70	
Aortic valve stenosis	69	3	24	3	2	6	107	
	3.45	2.24	3.21	3.49	8.17		3.57	
Atrial septal defect	967	58	337	38	15	7	1,422	
	48.32	43.27	45.10	44.25	61.25		47.49	
Biliary atresia	26	4	8	2	0	0	40	
	1.30	2.98	1.07	2.33	0.00		1.34	
Bladder exstrophy	5	0	5	0	0	3	13	
	0.25	0.00	0.67	0.00	0.00		0.43	
Choanal atresia	38	0	8	1	0	2	49	
	1.90	0.00	1.07	1.16	0.00		1.64	
Cleft lip with and without cleft palate	241	11	79	8	4	10	353	
	12.04	8.21	10.57	9.32	16.33		11.79	
Cleft palate without cleft lip	165	4	48	6	0	4	227	
	8.25	2.98	6.42	6.99	0.00		7.58	
Coarctation of aorta	194	3	49	6	2	7	261	
	9.69	2.24	6.56	6.99	8.17		8.72	
Common truncus	18	3	7	0	1	1	30	
	0.90	2.24	0.94	0.00	4.08		1.00	
Congenital cataract	57	3	24	1	0	0	85	
	2.85	2.24	3.21	1.16	0.00		2.84	
Congenital hip dislocation	383	7	147	13	2	4	556	
	19.14	5.22	19.67	15.14	8.17		18.57	
Diaphragmatic hernia	85	9	34	5	0	9	142	
	4.25	6.71	4.55	5.82	0.00		4.74	
Down syndrome	244	16	87	12	2	141	502	
	12.19	11.94	11.64	13.97	8.17		16.77	
Ebstein's anomaly	25	0	8	0	0	4	37	
	1.25	0.00	1.07	0.00	0.00		1.24	
Encephalocele	20	0	11	0	0	6	37	
	1.00	0.00	1.47	0.00	0.00		1.24	
Endocardial cushion defect	79	6	26	6	0	10	127	
	3.95	4.48	3.48	6.99	0.00		4.24	
Esophageal atresia/ tracheoesophageal fistula	107	3	22	4	0	5	141	
	5.35	2.24	2.94	4.66	0.00		4.71	
Gastroschisis	54	3	40	4	0	3	104	medical record review
	2.70	2.24	5.35	4.66	0.00		3.47	
Hirschsprung's disease (congenital megacolon)	47	5	21	1	1	1	76	
	2.35	3.73	2.81	1.16	4.08		2.54	
Hydrocephalus without Spina Bifida	160	11	65	7	2	22	267	
	8.00	8.21	8.70	8.15	8.17		8.92	

Colorado

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Hypoplastic left heart syndrome	50 2.50	1 0.75	15 2.01	1 1.16	0 0.00	6 2.44	73	
Hypospadias and Epispadias	1,000 49.97	71 52.97	168 22.48	16 18.63	6 24.50	7 42.35	1,268	
Microcephalus	90 4.50	13 9.70	43 5.75	6 6.99	0 0.00	1 5.11	153	
Obstructive genitourinary defect	601 30.03	29 21.64	227 30.38	27 31.44	4 16.33	15 30.16	903	
Omphalocele	48 2.40	2 1.49	20 2.68	2 2.33	0 0.00	5 2.57	77	medical record review
Patent ductus arteriosus	800 39.98	56 41.78	278 37.20	37 43.09	9 36.75	0 39.41	1,180	cases w/birth weight of ≥2500 grams
Pulmonary valve atresia and stenosis	219 10.94	22 16.41	82 10.97	7 8.15	1 4.08	4 11.19	335	
Pyloric stenosis	410 20.49	6 4.48	130 17.40	5 5.82	2 8.17	0 18.47	553	
Rectal and large intestinal atresia/stenosis	109 5.45	7 5.22	51 6.82	3 3.49	0 0.00	5 5.84	175	
Reduction deformity, lower limbs	41 2.05	5 3.73	18 2.41	2 2.33	0 0.00	6 2.40	72	
Reduction deformity, upper limbs	77 3.85	8 5.97	25 3.35	4 4.66	0 0.00	8 4.07	122	
Renal agenesis/hypoplasia	83 4.15	8 5.97	37 4.95	3 3.49	1 4.08	11 4.78	143	
Spina bifida without anencephalus	67 3.35	1 0.75	26 3.48	0 0.00	0 0.00	11 3.51	105	live births/fetal deaths—any gestational age
Tetralogy of Fallot	82 4.10	9 6.71	19 2.54	2 2.33	1 4.08	2 3.84	115	
Transposition of great arteries	79 3.95	3 2.24	24 3.21	3 3.49	1 4.08	1 3.71	111	
Tricuspid valve atresia	27 1.35	1 0.75	15 2.01	2 2.33	1 4.08	0 1.54	46	
Trisomy 13	19 0.95	2 1.49	12 1.61	0 0.00	1 4.08	30 2.14	64	
Trisomy 18	45 2.25	8 5.97	19 2.54	3 3.49	0 0.00	54 4.31	129	
Ventricular septal defect	805 40.23	55 41.03	310 41.48	32 37.27	12 49.00	11 40.91	1,225	includes probable cases
Total Live Births	200,110	13,404	74,727	8,587	2,449	299,405		

Colorado

Trisomy Counts and Rates by Maternal Age 1996–2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	264 10.28	235 55.46	502 16.77
Trisomy 13	41 1.60	23 5.43	64 2.14
Trisomy 18	70 2.72	57 13.45	129 4.31
Total Live Births	256,900	42,375	299,405

*Total includes unknown age.

Notes:

1. See pregnancy outcome section of Colorado's program description for detailed pregnancy outcome collected for all birth defects.
2. Colorado residency rule has changed from previous years. Please contact CRCSN for further information.

Delaware

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Anencephalus	0	0	0	0	0	0	0	Live births only
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Aniridia	0	0	0	0	0	0	0	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Anophthalmia/microphthalmia	88	47	7	1	0	3	146	
	25.46	37.13	17.67	7.66	0.00		27.71	
Anotia/microtia	0	0	1	0	0	0	1	
	0.00	0.00	2.52	0.00	0.00		0.19	
Aortic valve stenosis	8	2	0	0	0	0	10	
	2.31	1.58	0.00	0.00	0.00		1.90	
Atrial septal defect	140	62	13	7	0	7	229	
	40.51	48.98	32.81	53.64	0.00		43.47	
Biliary atresia	2	3	0	0	0	0	5	
	0.58	2.37	0.00	0.00	0.00		0.95	
Bladder exstrophy	1	0	1	0	0	0	2	
	0.29	0.00	2.52	0.00	0.00		0.38	
Choanal atresia	7	2	0	0	0	0	9	
	2.03	1.58	0.00	0.00	0.00		1.71	
Cleft lip with and without cleft palate	34	7	3	0	0	0	44	
	9.84	5.53	7.57	0.00	0.00		8.35	
Cleft palate without cleft lip	17	9	1	0	0	1	28	
	4.92	7.11	2.52	0.00	0.00		5.31	
Coarctation of aorta	16	2	0	1	0	1	20	
	4.63	1.58	0.00	7.66	0.00		3.80	
Common truncus	1	1	0	0	0	0	2	
	0.29	0.79	0.00	0.00	0.00		0.38	
Congenital cataract	3	3	1	0	0	0	7	
	0.87	2.37	2.52	0.00	0.00		1.33	
Congenital hip dislocation	66	6	8	5	0	2	87	
	19.10	4.74	20.19	38.31	0.00		16.51	
Diaphragmatic hernia	10	3	0	0	0	1	14	
	2.89	2.37	0.00	0.00	0.00		2.66	
Down syndrome	31	8	5	3	0	1	48	
	8.97	6.32	12.62	22.99	0.00		9.11	
Ebstein's anomaly	2	0	0	0	0	0	2	
	0.58	0.00	0.00	0.00	0.00		0.38	
Encephalocele	1	2	1	0	0	1	5	
	0.29	1.58	2.52	0.00	0.00		0.95	
Endocardial cushion defect	14	4	3	2	0	0	23	
	4.05	3.16	7.57	15.33	0.00		4.37	
Esophageal atresia/tracheoesophageal fistula	9	1	1	0	0	1	12	
	2.60	0.79	2.52	0.00	0.00		2.28	
Fetal alcohol syndrome	7	9	1	0	0	0	17	
	2.03	7.11	2.52	0.00	0.00		3.23	
Hirschsprung's disease (congenital megacolon)	6	4	1	1	0	3	15	
	1.74	3.16	2.52	7.66	0.00		2.85	
Hydrocephalus without Spina Bifida	11	13	0	1	0	5	30	
	3.18	10.27	0.00	7.66	0.00		5.69	
Hypoplastic left heart syndrome	11	4	0	0	0	1	16	
	3.18	3.16	0.00	0.00	0.00		3.04	

Delaware

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Hypospadias and Epispadias	113 32.70	41 32.39	7 17.67	4 30.65	0 0.00	2	167 31.70	
Microcephalus	1 0.29	1 0.79	2 5.05	0 0.00	0 0.00	1	5 0.95	
Obstructive genitourinary defect	125 36.17	27 21.33	17 42.91	3 22.99	0 0.00	13	185 35.11	
Omphalocele	6 8.57	0 0.00	0 0.00	0 0.00	0 0.00	1	7 6.34	
Patent ductus arteriosus	154 44.56	83 65.57	14 35.34	5 38.31	0 0.00	9	265 50.30	1996–1999: cases with birthweight of ≥2500 grams
Pulmonary valve atresia and stenosis	10 2.89	9 7.11	1 2.52	0 0.00	0 0.00	1	21 3.99	
Pyloric stenosis	83 24.02	24 18.96	6 15.14	0 0.00	0 0.00	16	129 24.49	
Rectal and large intestinal atresia/stenosis	2 0.58	8 6.32	0 0.00	1 7.66	0 0.00	0	11 2.09	
Reduction deformity, lower limbs	1 0.29	1 0.79	0 0.00	1 7.66	0 0.00	0	3 0.57	
Reduction deformity, upper limbs	8 2.31	2 1.58	1 2.52	0 0.00	0 0.00	0	11 2.09	
Renal agenesis/hypoplasia	14 4.05	4 3.16	3 7.57	0 0.00	0 0.00	1	22 4.18	
Spina bifida without anencephalus	9 2.60	2 1.58	8 20.19	0 0.00	0 0.00	0	19 3.61	Livebirths only
Tetralogy of Fallot	17 4.92	9 7.11	1 2.52	0 0.00	0 0.00	0	27 5.12	
Transposition of great arteries	10 2.89	4 3.16	0 0.00	0 0.00	0 0.00	2	16 3.04	
Tricuspid valve atresia and stenosis	3 0.87	1 0.79	0 0.00	0 0.00	0 0.00	0	4 0.76	
Trisomy 13	4 1.16	1 0.79	0 0.00	0 0.00	0 0.00	0	5 0.95	
Trisomy 18	0 0.00	3 2.37	2 5.05	0 0.00	0 0.00	0	5 0.95	
Ventricular septal defect	130 37.61	50 39.50	18 45.43	5 38.31	1 78.13	9	213 40.43	1996–1999 do not include probable cases
Total Live Births	34,561	12,658	3,962	1,305	128		52,685	

Delaware

Trisomy Counts and Rates by Maternal Age 1996–2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	30 6.49	17 26.25	48 9.11
Trisomy 13	3 0.65	2 3.09	5 0.95
Trisomy 18	2 0.43	3 4.63	5 0.95
Total Live Births	46,209	6,476	52,685

*Total includes unknown age.

Florida

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		
Anencephalus	22 0.51	4 0.27	11 0.63	0 0.00	0 0.00	0	37 0.48	
Aniridia	4 0.09	3 0.20	3 0.17	0 0.00	0 0.00	0	10 0.13	
Anophthalmia/ microphthalmia	36 0.84	28 1.86	14 0.80	2 1.23	0 0.00	1	81 1.05	
Anotia/microtia	23 0.54	4 0.27	10 0.57	0 0.00	0 0.00	0	37 0.48	
Aortic valve stenosis	78 1.82	12 0.80	14 0.80	1 0.62	0 0.00	0	105 1.36	
Atrial septal defect	2,329 54.37	1,070 71.02	1,230 70.49	81 49.86	7 31.73	8	4,725 61.11	
Biliary atresia	38 0.89	23 1.53	15 0.86	1 0.62	0 0.00	0	77 1.00	
Bladder exstrophy	19 0.44	5 0.33	3 0.17	0 0.00	0 0.00	0	27 0.35	
Choanal atresia	69 1.61	23 1.53	21 1.20	2 1.23	1 4.53	0	116 1.50	
Cleft lip with and without cleft palate	447 10.44	97 6.44	153 8.77	12 7.39	3 13.60	0	712 9.21	
Cleft palate without cleft lip	261 6.09	65 4.31	49 2.81	9 5.54	3 13.60	0	387 5.01	
Coarctation of aorta	195 4.55	54 3.58	64 3.67	1 0.62	0 0.00	1	315 4.07	
Common truncus	44 1.03	16 1.06	17 0.97	0 0.00	0 0.00	0	77 1.00	
Congenital cataract	49 1.14	28 1.86	23 1.32	0 0.00	0 0.00	1	101 1.31	
Congenital hip dislocation	692 16.16	90 5.97	290 16.62	23 14.16	0 0.00	0	1,095 14.16	
Diaphragmatic hernia	122 2.85	36 2.39	51 2.92	4 2.46	1 4.53	0	214 2.77	
Down syndrome	530 12.37	144 9.56	229 13.12	21 12.93	2 9.07	0	926 11.98	
Ebstein's anomaly	24 0.56	5 0.33	12 0.69	2 1.23	0 0.00	0	43 0.56	
Encephalocele	38 0.89	16 1.06	9 0.52	0 0.00	0 0.00	0	63 0.81	
Endocardial cushion defect	153 3.57	50 3.32	55 3.15	3 1.85	0 0.00	1	262 3.39	
Esophageal atresia/ tracheoesophageal fistula	117 2.73	27 1.79	34 1.95	4 2.46	0 0.00	0	182 2.35	
Fetal alcohol syndrome	145 3.39	135 8.96	22 1.26	3 1.85	3 13.60	0	308 3.98	

Florida

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		
Hirschsprung's disease (congenital megacolon)	82 1.91	41 2.72	33 1.89	2 1.23	2 9.07	1	161 2.08	
Hydrocephalus without Spina Bifida	272 6.35	175 11.62	119 6.82	12 7.39	1 4.53	1	580 7.50	
Hypoplastic left heart syndrome	103 2.40	32 2.12	27 1.55	3 1.85	1 4.53	1	167 2.16	
Hypospadias and Epispadias	1,693 39.53	421 27.94	410 23.50	28 17.24	5 22.67	0	2,557 33.07	
Microcephalus	256 5.98	186 12.35	134 7.68	12 7.39	2 9.07	1	591 7.64	
Obstructive genitourinary defect	988 23.07	243 16.13	417 23.90	43 26.47	4 18.13	1	1,696 21.94	
Pulmonary valve atresia and stenosis	367 8.57	245 16.26	166 9.51	10 6.16	0 0.00	2	790 10.22	
Pyloric stenosis	655 20.42	120 10.51	169 12.61	7 5.63	3 17.81	0	954 16.33	
Rectal and large intestinal atresia/stenosis	147 3.43	57 3.78	60 3.44	7 4.31	0 0.00	1	272 3.52	
Reduction deformity, lower limbs	61 1.42	27 1.79	24 1.38	0 0.00	0 0.00	0	112 1.45	
Reduction deformity, upper limbs	89 2.08	40 2.66	30 1.72	2 1.23	0 0.00	1	162 2.10	
Renal agenesis/hypoplasia	135 3.15	51 3.39	69 3.95	4 2.46	2 9.07	1	262 3.39	
Spina bifida without anencephalus	196 4.58	62 4.12	86 4.93	2 1.23	1 4.53	0	347 4.49	
Tetralogy of Fallot	195 4.55	82 5.44	75 4.30	3 1.85	0 0.00	2	357 4.62	
Transposition of great arteries	154 3.60	48 3.19	62 3.55	5 3.08	1 4.53	0	270 3.49	
Tricuspid valve atresia and stenosis	50 1.17	27 1.79	21 1.20	4 2.46	0 0.00	0	102 1.32	
Trisomy 13	48 1.12	23 1.53	25 1.43	0 0.00	0 0.00	1	97 1.25	
Trisomy 18	47 1.10	13 0.86	29 1.66	2 1.23	0 0.00	0	91 1.18	
Ventricular septal defect	1,916 44.73	597 39.63	805 46.13	44 27.09	10 45.33	2	3,374 43.64	
Total Live Births	428,323	150,654	174,492	16,244	2,206		773,171	

Florida

Trisomy Counts and Rates by Maternal Age 1996–1999

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	577	349	926
	8.62	33.75	11.98
Trisomy 13	74	23	97
	1.11	2.22	1.25
Trisomy 18	59	32	91
	0.88	3.09	1.18
Total Live Births	669,581	103,401	773,171

*Total includes unknown age.

Notes:

1. 1996 data for Pyloric stenosis not reported, not reliable.

Georgia

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Amniotic bands	13 1.33	12 1.32	4 1.59	0 0.00	0 0.00	0	29 1.28	
Anencephalus	35 3.59	28 3.08	10 3.96	4 4.14	0 0.00	4	81 3.59	Includes terminations
Aniridia	1 0.10	1 0.11	0 0.00	0 0.00	0 0.00	0	2 0.09	
Anophthalmia/ microphthalmia	34 3.49	27 2.97	4 1.59	1 1.04	0 0.00	0	66 2.92	
Anotia/microtia	17 1.74	7 0.77	5 1.98	4 4.14	0 0.00	0	33 1.46	
Aortic valve stenosis	33 3.38	14 1.54	6 2.38	1 1.04	0 0.00	0	54 2.39	
Atrial septal defect	227 23.28	264 29.05	51 20.21	18 18.63	1 22.37	6	567 25.11	
Biliary atresia	6 0.62	11 1.21	0 0.00	1 1.04	0 0.00	0	18 0.80	
Bladder exstrophy	1 0.10	1 0.11	0 0.00	0 0.00	0 0.00	0	2 0.09	
Choanal atresia	20 2.05	19 2.09	3 1.19	0 0.00	0 0.00	0	42 1.86	
Cleft lip with and without cleft palate	107 10.97	57 6.27	28 11.10	10 10.35	0 0.00	1	203 8.99	
Cleft palate without cleft lip	85 8.72	47 5.17	11 4.36	9 9.32	0 0.00	2	154 6.82	
Coarctation of aorta	60 6.15	44 4.84	8 3.17	2 2.07	0 0.00	0	114 5.05	
Common truncus	8 0.82	10 1.10	1 0.40	1 1.04	0 0.00	0	20 0.89	
Congenital cataract	33 3.38	16 1.76	2 0.79	0 0.00	0 0.00	0	51 2.26	
Congenital hip dislocation	95 9.74	21 2.31	17 6.74	7 7.25	0 0.00	2	142 6.29	
Diaphragmatic hernia	22 2.26	20 2.20	8 3.17	1 1.04	0 0.00	0	51 2.26	
Down syndrome	138 14.15	102 11.23	28 11.10	13 13.46	0 0.00	1	282 12.49	
Ebstein's anomaly	5 0.51	4 0.44	2 0.79	1 1.04	0 0.00	0	12 0.53	
Encephalocele	19 1.95	12 1.32	4 1.59	0 0.00	0 0.00	1	36 1.59	Includes terminations
Endocardial cushion defect	49 5.03	53 5.83	4 1.59	5 5.18	0 0.00	0	111 4.92	
Esophageal atresia/ tracheoesophageal fistula	24 2.46	17 1.87	3 1.19	1 1.04	0 0.00	0	45 1.99	
Fetal alcohol syndrome	9 0.92	34 3.74	0 0.00	0 0.00	0 0.00	0	43 1.90	
Gastroschisis	15 1.54	20 2.20	12 4.76	2 2.07	0 0.00	0	49 2.17	

Georgia

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Hirschsprung's disease (congenital megacolon)	16 1.64	25 2.75	5 1.98	5 5.18	0 0.00	1	52 2.30	
Hydrocephalus without Spina Bifida	82 8.41	76 8.36	17 6.74	8 8.28	0 0.00	0	183 8.11	
Hypoplastic left heart syndrome	34 3.49	26 2.86	3 1.19	3 3.11	0 0.00	2	68 3.01	
Hypospadias and Epispadias	395 40.51	302 33.24	30 11.89	27 27.95	0 0.00	7	761 33.71	
Microcephalus	52 5.33	112 12.33	13 5.15	8 8.28	0 0.00	1	186 8.24	
Obstructive genitourinary defect	231 23.69	176 19.37	65 25.76	31 32.09	0 0.00	6	509 22.55	
Omphalocele	27 2.77	23 2.53	4 1.59	4 4.14	0 0.00	1	59 2.61	
Patent ductus arteriosus	293 30.05	239 26.30	66 26.15	36 37.27	1 22.37	6	641 28.39	
Pulmonary valve atresia and stenosis	62 6.36	72 7.92	13 5.15	6 6.21	0 0.00	2	155 6.87	
Pyloric stenosis	190 19.49	64 7.04	38 15.06	6 6.21	0 0.00	2	300 13.29	
Rectal and large intestinal atresia/stenosis	33 3.38	35 3.85	8 3.17	5 5.18	1 22.37	1	83 3.68	
Reduction deformity, lower limbs	14 1.44	20 2.20	4 1.59	1 1.04	0 0.00	0	39 1.73	
Reduction deformity, upper limbs	46 4.72	29 3.19	12 4.76	2 2.07	0 0.00	3	92 4.07	
Renal agenesis/hypoplasia	49 5.03	43 4.73	4 1.59	3 3.11	0 0.00	2	101 4.47	
Spina bifida without anencephalus	49 5.03	26 2.86	9 3.57	0 0.00	0 0.00	2	86 3.81	Includes terminations
Tetralogy of Fallot	43 4.41	40 4.40	7 2.77	4 4.14	0 0.00	0	94 4.16	
Transposition of great arteries	51 5.23	51 5.61	12 4.76	7 7.25	0 0.00	1	122 5.40	
Tricuspid valve atresia and stenosis	17 1.74	21 2.31	4 1.59	0 0.00	0 0.00	0	42 1.86	
Trisomy 13	16 1.64	16 1.76	1 0.40	0 0.00	0 0.00	0	33 1.46	
Trisomy 18	22 2.26	26 2.86	6 2.38	2 2.07	0 0.00	0	56 2.48	
Ventricular septal defect	409 41.95	284 31.26	116 45.97	36 37.27	1 22.37	6	852 37.74	
Total Live Births	97,506	90,864	25,235	9,660	447		225,770	

Georgia

Trisomy Counts and Rates by Maternal Age 1996–2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	170 8.89	110 31.92	282 12.49
Trisomy 13	23 1.20	10 2.90	33 1.46
Trisomy 18	34 1.78	22 6.38	56 2.48
Total Live Births	191,238	34,463	225,770

*Total includes unknown age.

Hawaii

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Amniotic bands	3	1	0	13	0	1	18	
	1.62	3.47	0.00	2.15	0.00		2.04	
Anencephalus	5	0	2	23	1	3	34	Includes stillbirths/terminations
	2.70	0.00	10.96	3.81	10.11		3.86	
Aniridia	0	0	0	2	0	0	2	
	0.00	0.00	0.00	0.33	0.00		0.23	
Anophthalmia/microphthalmia	6	0	1	17	0	0	24	
	3.24	0.00	5.48	2.81	0.00		2.72	
Anotia/microtia	1	0	2	21	3	0	27	
	0.54	0.00	10.96	3.48	30.33		3.07	
Aortic valve stenosis	1	0	0	7	0	1	9	
	0.54	0.00	0.00	1.16	0.00		1.02	
Atrial septal defect	45	4	7	157	1	1	215	
	24.30	13.86	38.36	25.98	10.11		24.41	
Biliary atresia	0	0	0	8	1	0	9	
	0.00	0.00	0.00	1.32	10.11		1.02	
Bladder exstrophy	1	0	0	3	1	0	5	
	0.54	0.00	0.00	0.50	10.11		0.57	
Choanal atresia	3	0	1	6	0	0	10	
	1.62	0.00	5.48	0.99	0.00		1.14	
Cleft lip with and without cleft palate	14	5	6	91	3	3	122	
	7.56	17.33	32.88	15.06	30.33		13.85	
Cleft palate without cleft lip	15	1	2	46	0	0	64	
	8.10	3.47	10.96	7.61	0.00		7.27	
Coarctation of aorta	9	0	1	9	0	1	20	
	4.86	0.00	5.48	1.49	0.00		2.27	
Common truncus	2	0	0	7	0	0	9	
	1.08	0.00	0.00	1.16	0.00		1.02	
Congenital cataract	3	0	2	5	0	0	10	
	1.62	0.00	10.96	0.83	0.00		1.14	
Congenital hip dislocation	9	0	0	37	0	0	46	
	4.86	0.00	0.00	6.12	0.00		5.22	
Diaphragmatic hernia	6	0	0	13	0	1	20	
	3.24	0.00	0.00	2.15	0.00		2.27	
Down syndrome	40	1	3	91	2	12	149	
	21.60	3.47	16.44	15.06	20.22		16.92	
Ebstein's anomaly	4	0	0	2	0	1	7	
	2.16	0.00	0.00	0.33	0.00		0.79	
Encephalocele	2	0	1	20	0	0	23	
	1.08	0.00	5.48	3.31	0.00		2.61	
Endocardial cushion defect	3	1	2	19	0	0	25	
	1.62	3.47	10.96	3.14	0.00		2.84	
Esophageal atresia/tracheoesophageal fistula	6	1	0	10	0	0	17	
	3.24	3.47	0.00	1.65	0.00		1.93	
Fetal alcohol syndrome	5	0	0	6	1	0	12	
	2.70	0.00	0.00	0.99	10.11		1.36	
Gastroschisis	6	1	2	23	0	0	32	
	3.24	3.47	10.96	3.81	0.00		3.63	

Hawaii

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Hirschsprung's disease (congenital megacolon)	2 1.08	2 6.93	0 0.00	16 2.65	1 10.11	0	21 2.38	
Hydrocephalus without Spina Bifida	18 9.72	2 6.93	4 21.92	59 9.76	1 10.11	7	91 10.33	
Hypoplastic left heart syndrome	2 1.08	0 0.00	1 5.48	9 1.49	0 0.00	1	13 1.48	
Hypospadias and Epispadias	59 31.86	5 17.33	8 43.84	176 29.13	3 30.33	2	253 28.72	
Microcephalus	7 3.78	1 3.47	0 0.00	59 9.76	3 30.33	1	71 8.06	
Obstructive genitourinary defect	30 16.20	4 13.86	4 21.92	84 13.90	3 30.33	2	127 14.42	
Omphalocele	7 3.78	1 3.47	0 0.00	19 3.14	1 10.11	3	31 3.52	
Patent ductus arteriosus	134 72.37	19 65.84	31 169.86	693 114.68	8 80.89	11	896 101.73	
Pulmonary valve atresia and stenosis	4 2.16	0 0.00	1 5.48	25 4.14	0 0.00	0	30 3.41	
Pyloric stenosis	26 14.04	3 10.40	6 32.88	24 3.97	0 0.00	0	59 6.70	
Rectal and large intestinal atresia/stenosis	9 4.86	2 6.93	1 5.48	37 6.12	0 0.00	1	50 5.68	
Reduction deformity, lower limbs	2 1.08	1 3.47	0 0.00	10 1.65	0 0.00	0	13 1.48	
Reduction deformity, upper limbs	3 1.62	2 6.93	0 0.00	26 4.30	0 0.00	0	31 3.52	
Renal agenesis/hypoplasia	13 7.02	3 10.40	0 0.00	27 4.47	0 0.00	4	47 5.34	
Spina bifida without anencephalus	10 5.40	1 3.47	2 10.96	26 4.30	0 0.00	3	42 4.77	Incl. stillbirths/terminations
Tetralogy of Fallot	7 3.78	1 3.47	0 0.00	24 3.97	0 0.00	0	32 3.63	
Transposition of great arteries	11 5.94	0 0.00	0 0.00	31 5.13	1 10.11	2	45 5.11	
Tricuspid valve atresia and stenosis	2 1.08	0 0.00	0 0.00	11 1.82	0 0.00	1	14 1.59	
Trisomy 13	8 4.32	0 0.00	2 10.96	12 1.99	0 0.00	3	25 2.84	
Trisomy 18	11 5.94	2 6.93	0 0.00	32 5.30	1 10.11	8	54 6.13	
Ventricular septal defect	78 42.12	5 17.33	11 60.27	269 44.52	5 50.56	5	373 42.35	
Total Live Births	18,517	2,886	1,825	60,427	989		88,079	

Hawaii

Trisomy Counts and Rates by Maternal Age 1996–2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	62 8.36	87 62.43	149 16.92
Trisomy 13	12 1.62	12 8.61	25 2.84
Trisomy 18	28 3.78	26 18.66	54 6.13
Total Live Births	74,132	13,935	88,079

*Total includes unknown age.

Illinois

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Anencephalus	96	20	44	3	1	2	166	Does not include terminations
	1.81	1.14	2.46	0.86	8.45		1.80	
Aniridia	0	1	0	0	0	0	1	
	0.00	0.06	0.00	0.00	0.00		0.01	
Anophthalmia/microphthalmia	54	16	10	0	0	1	81	
	1.02	0.91	0.56	0.00	0.00		0.88	
Anotia/microtia	23	2	12	2	0	0	39	
	0.43	0.11	0.67	0.57	0.00		0.42	
Aortic valve stenosis	68	5	11	0	0	1	85	
	1.28	0.29	0.61	0.00	0.00		0.92	
Atrial septal defect	1,322	383	315	51	3	54	2,128	
	24.89	21.83	17.61	14.58	25.36		23.08	
Biliary atresia	17	12	4	1	0	6	40	
	0.32	0.68	0.22	0.29	0.00		0.43	
Bladder exstrophy	30	3	1	1	0	0	35	
	0.56	0.17	0.06	0.29	0.00		0.38	
Choanal atresia	67	11	17	5	0	0	100	
	1.26	0.63	0.95	1.43	0.00		1.08	
Cleft lip with and without cleft palate	373	82	114	23	3	6	601	
	7.02	4.67	6.37	6.58	25.36		6.52	
Cleft palate without cleft lip	241	44	54	8	1	1	349	
	4.54	2.51	3.02	2.29	8.45		3.78	
Coarctation of aorta	148	34	40	5	0	3	230	
	2.79	1.94	2.24	1.43	0.00		2.49	
Common truncus	20	11	4	3	0	0	38	
	0.38	0.63	0.22	0.86	0.00		0.41	
Congenital cataract	40	9	12	0	0	0	61	
	0.75	0.51	0.67	0.00	0.00		0.66	
Congenital hip dislocation	105	14	38	3	0	1	161	
	1.98	0.80	2.12	0.86	0.00		1.75	
Diaphragmatic hernia	143	40	52	7	0	2	244	
	2.69	2.28	2.91	2.00	0.00		2.65	
Down syndrome	631	159	202	30	3	20	1,045	
	11.88	9.06	11.29	8.58	25.36		11.33	
Ebstein's anomaly	30	1	5	0	1	1	38	
	0.56	0.06	0.28	0.00	8.45		0.41	
Encephalocele	36	18	13	1	1	3	72	
	0.68	1.03	0.73	0.29	8.45		0.78	
Endocardial cushion defect	154	40	29	5	0	1	229	
	2.90	2.28	1.62	1.43	0.00		2.48	
Esophageal atresia/tracheoesophageal fistula	165	28	22	9	0	1	225	
	3.11	1.60	1.23	2.57	0.00		2.44	
Fetal alcohol syndrome	38	130	10	2	1	2	183	
	0.72	7.41	0.56	0.57	8.45		1.98	
Hirschsprung's disease (congenital megacolon)	79	58	24	7	0	4	172	
	1.49	3.31	1.34	2.00	0.00		1.87	
Hydrocephalus without Spina Bifida	309	177	102	13	1	12	614	
	5.82	10.09	5.70	3.72	8.45		6.66	

Illinois

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Hypoplastic left heart syndrome	103 1.94	18 1.03	23 1.29	4 1.14	0 0.00	1	149 1.62	
Hypospadias and Epispadias	452 8.51	90 5.13	62 3.47	11 3.15	2 16.91	5	622 6.75	
Lung agenesis/hypoplasia	174 3.28	56 3.19	46 2.57	7 2.00	1 8.45	4	288 3.12	
Microcephalus	128 2.41	155 8.84	60 3.35	4 1.14	0 0.00	9	356 3.86	
Obstructive genitourinary defect	598 11.26	148 8.44	153 8.55	34 9.72	2 16.91	5	940 10.19	
Patent ductus arteriosus	1,217 22.92	315 17.96	263 14.70	54 15.44	5 42.27	22	1,876 20.34	only birthweight ≥2500 grams
Pulmonary artery anomalies	719 13.54	260 14.82	150 8.38	25 7.15	4 33.81	17	1,175 12.74	
Pulmonary valve atresia and stenosis	229 4.31	68 3.88	59 3.30	9 2.57	0 0.00	11	376 4.08	
Pyloric stenosis	323 6.08	54 3.08	94 5.25	8 2.29	0 0.00	29	508 5.51	
Rectal and large intestinal atresia/stenosis	180 3.39	41 2.34	47 2.63	9 2.57	0 0.00	4	281 3.05	
Reduction deformity, lower limbs	49 0.92	14 0.80	13 0.73	2 0.57	0 0.00	2	80 0.87	
Reduction deformity, upper limbs	91 1.71	25 1.43	24 1.34	3 0.86	0 0.00	3	146 1.58	
Renal agenesis/hypoplasia	99 1.86	31 1.77	23 1.29	1 0.29	0 0.00	3	157 1.70	
Spina bifida without anencephalus	149 2.81	54 3.08	67 3.74	7 2.00	0 0.00	9	286 3.10	Does not include terminations
Tetralogy of Fallot	167 3.14	59 3.36	22 1.23	7 2.00	1 8.45	11	267 2.90	
Transposition of great arteries	144 2.71	37 2.11	37 2.07	2 0.57	0 0.00	4	224 2.43	
Tricuspid valve atresia and stenosis	24 0.45	14 0.80	12 0.67	0 0.00	0 0.00	0	50 0.54	
Trisomy 13	51 0.96	17 0.97	7 0.39	0 0.00	0 0.00	3	78 0.85	
Trisomy 18	93 1.75	41 2.34	31 1.73	6 1.72	0 0.00	4	175 1.90	
Ventricular septal defect	1,335 25.14	338 19.27	353 19.73	54 15.44	7 59.17	48	2,135 23.15	Includes probable cases
Total Live Births	531,069	175,435	178,912	34,976	1,183		922,124	

Illinois

Trisomy Counts and Rates by Maternal Age 1996–2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	504 6.31	381 30.83	1,044 11.32
Trisomy 13	52 0.65	25 2.02	78 0.85
Trisomy 18	103 1.29	60 4.85	176 1.91
Total Live Births	798,471	123,587	922,124

*Total includes unknown age.

Notes:

1. Illinois has a passive reporting system that collects information about infants and any diagnoses made during their newborn hospital stay. However, in 1995, 1996 and 1997 active case finding of cases up to 1 year old was undertaken at certain hospitals. In 1999 and 2000, active case-finding for cases up to 2 years old was undertaken at the major Chicago hospitals. In 2000, quality assurance activities identified birth defects among infants with very low birth weights, those who died and those who were not reported.
2. Illinois uses ICD-9 codes to define birth defects groups.
3. Still births (infants delivered after 20 weeks gestation, or who have a fetal death certificate issued) are included in case ascertainment. Terminations are not included in case ascertainment.
4. Probable/possible diagnoses may be included, since they may be reported by the hospital.

Iowa

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Amniotic bands	20 1.21	2 3.74	2 1.86	0 0.00	0 0.00	0	24 1.28	
Anencephalus	56 3.38	2 3.74	2 1.86	1 2.61	0 0.00	9	70 3.75	Includes live births, still births, and elective terminations
Aniridia	1 0.06	1 1.87	0 0.00	0 0.00	0 0.00	0	2 0.11	
Anophthalmia/microphthalmia	26 1.57	2 3.74	3 2.79	0 0.00	0 0.00	6	37 1.98	
Anotia/microtia	91 5.49	4 7.49	2 1.86	0 0.00	0 0.00	5	102 5.46	
Aortic valve stenosis	65 3.92	3 5.62	0 0.00	1 2.61	0 0.00	1	70 3.75	
Atrial septal defect	384 23.18	23 43.06	15 13.95	5 13.06	4 43.57	21	452 24.19	
Biliary atresia	11 0.66	0 0.00	1 0.93	0 0.00	0 0.00	1	13 0.70	
Bladder exstrophy	8 0.48	1 1.87	1 0.93	0 0.00	0 0.00	1	11 0.59	
Choanal atresia	48 2.90	3 5.62	1 0.93	1 2.61	0 0.00	4	57 3.05	
Cleft lip with and without cleft palate	214 12.92	7 13.10	11 10.23	3 7.84	0 0.00	13	248 13.27	
Cleft palate without cleft lip	123 7.42	3 5.62	4 3.72	2 5.22	0 0.00	9	141 7.55	
Coarctation of aorta	117 7.06	6 11.23	4 3.72	0 0.00	0 0.00	12	139 7.44	
Common truncus	20 1.21	0 0.00	1 0.93	0 0.00	0 0.00	1	22 1.18	
Congenital cataract	54 3.26	3 5.62	3 2.79	0 0.00	1 10.89	3	64 3.43	
Congenital hip dislocation	156 9.42	2 3.74	11 10.23	0 0.00	1 10.89	10	180 9.63	
Diaphragmatic hernia	48 2.90	2 3.74	1 0.93	1 2.61	1 10.89	2	55 2.94	
Down syndrome	227 13.70	6 11.23	10 9.30	1 2.61	0 0.00	17	261 13.97	
Ebstein's anomaly	12 0.72	0 0.00	0 0.00	0 0.00	0 0.00	0	12 0.64	
Encephalocele	18 1.09	1 1.87	1 0.93	0 0.00	1 10.89	1	22 1.18	
Endocardial cushion defect	91 5.49	7 13.10	1 0.93	2 5.22	0 0.00	4	105 5.62	
Esophageal atresia/tracheoesophageal fistula	46 2.78	0 0.00	0 0.00	0 0.00	0 0.00	2	48 2.57	
Fetal alcohol syndrome	7 0.42	2 3.74	0 0.00	0 0.00	1 10.89	3	13 0.70	
Gastroschisis	61 3.68	7 13.10	2 1.86	2 5.22	1 10.89	5	78 4.17	

Iowa

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Hirschsprung's disease (congenital megacolon)	32 1.93	2 3.74	0 0.00	2 5.22	0 0.00	3 7.49	39 2.09	
Hydrocephalus without Spina Bifida	159 9.60	4 7.49	10 9.30	2 5.22	1 10.89	12 10.89	188 10.06	
Hypoplastic left heart syndrome	69 4.16	4 7.49	0 0.00	0 0.00	0 0.00	1 7.49	74 3.96	
Hypospadias and Epispadias	585 35.31	15 28.08	14 13.02	4 10.45	2 21.79	21 21.79	641 34.31	
Microcephalus	128 7.73	14 26.21	7 6.51	1 2.61	3 32.68	18 32.68	171 9.15	
Obstructive genitourinary defect	349 21.06	16 29.95	15 13.95	2 5.22	3 32.68	32 32.68	417 22.32	
Omphalocele	44 2.66	0 0.00	2 1.86	0 0.00	1 10.89	3 10.89	50 2.68	
Patent ductus arteriosus	457 27.58	33 61.77	20 18.60	3 7.84	3 32.68	33 32.68	549 29.38	exclude infants with birth weights less than 2500 grams
Pulmonary valve atresia and stenosis	173 10.44	4 7.49	4 3.72	2 5.22	1 10.89	10 10.89	194 10.38	
Pyloric stenosis	461 27.82	7 13.10	21 19.53	0 0.00	2 21.79	28 21.79	519 27.78	
Rectal and large intestinal atresia/stenosis	90 5.43	3 5.62	4 3.72	0 0.00	0 0.00	6 5.62	103 5.51	
Reduction deformity, lower limbs	40 2.41	3 5.62	1 0.93	0 0.00	0 0.00	3 5.62	47 2.52	
Reduction deformity, upper limbs	86 5.19	3 5.62	1 0.93	1 2.61	0 0.00	7 5.62	98 5.25	
Renal agenesis/hypoplasia	84 5.07	1 1.87	2 1.86	0 0.00	0 0.00	5 1.87	92 4.92	
Spina bifida without anencephalus	100 6.04	3 5.62	6 5.58	0 0.00	1 10.89	6 10.89	116 6.21	Includes live births, still births, and elective terminations
Tetralogy of Fallot	61 3.68	2 3.74	1 0.93	0 0.00	0 0.00	3 3.74	67 3.59	
Transposition of great arteries	82 4.95	2 3.74	7 6.51	3 7.84	0 0.00	7 6.51	101 5.41	
Tricuspid valve atresia and stenosis	17 1.03	0 0.00	2 1.86	0 0.00	0 0.00	2 1.87	21 1.12	
Trisomy 13	21 1.27	1 1.87	2 1.86	0 0.00	1 10.89	1 1.87	26 1.39	
Trisomy 18	31 1.87	2 3.74	3 2.79	3 7.84	0 0.00	6 3.74	45 2.41	
Ventricular septal defect	686 41.40	27 50.54	33 30.68	6 15.67	1 10.89	53 10.89	806 43.14	
Total Live Births	165,684	5,342	10,755	3,828	918		186,832	

Iowa

Trisomy Counts and Rates by Maternal Age 1996–2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	130 7.78	79 40.24	261 13.97
Trisomy 13	15 0.90	4 2.04	26 1.39
Trisomy 18	23 1.38	12 6.11	45 2.41
Total Live Births	167,169	19,634	186,832

*Total includes unknown age.

Notes:

1. We are using the BPA coding system. Possible and probable diagnoses are not included, except for Down Syndrome. Birth defect counts include live births, still births, and terminations.

Kentucky

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Amniotic bands	15 1.04	4 2.68	0 0.00	0 0.00	0 0.00	0	19 1.15	
Anencephalus	87 3.68	3 1.23	1 2.52	1 3.93	0 0.00	0	92 3.38	Data for 1996–2000
Aniridia	5 0.35	2 1.34	0 0.00	0 0.00	0 0.00	0	7 0.42	
Anophthalmia/ microphthalmia	6 0.42	2 1.34	0 0.00	1 6.25	0 0.00	0	9 0.54	
Anotia/microtia	19 1.31	0 0.00	1 3.68	2 12.50	0 0.00	0	22 1.33	
Aortic valve stenosis	43 2.97	3 2.01	0 0.00	0 0.00	0 0.00	0	46 2.78	
Atrial septal defect	860 59.50	174 116.49	9 33.10	8 50.00	2 83.68	0	1,053 63.55	
Biliary atresia	10 0.69	2 1.34	0 0.00	0 0.00	0 0.00	1	13 0.78	
Bladder exstrophy	8 0.55	1 0.67	0 0.00	0 0.00	0 0.00	1	10 0.60	
Choanal atresia	23 1.59	2 1.34	0 0.00	0 0.00	0 0.00	0	25 1.51	
Cleft lip with and without cleft palate	172 11.90	6 4.02	0 0.00	3 18.75	0 0.00	2	183 11.04	
Cleft palate without cleft lip	139 9.62	6 4.02	0 0.00	3 18.75	0 0.00	3	151 9.11	
Coarctation of aorta	91 6.30	8 5.36	1 3.68	1 6.25	0 0.00	0	101 6.10	
Common truncus	9 0.62	2 1.34	1 3.68	0 0.00	0 0.00	0	12 0.72	
Congenital cataract	17 1.18	2 1.34	0 0.00	0 0.00	0 0.00	0	19 1.15	
Congenital hip dislocation	171 11.83	5 3.35	1 3.68	2 12.50	1 41.84	4	184 11.10	
Diaphragmatic hernia	59 4.08	4 2.68	0 0.00	0 0.00	0 0.00	2	65 3.92	
Down syndrome	159 11.00	10 6.69	1 5.01	2 18.35	0 0.00	2	174 10.50	
Ebstein's anomaly	12 0.83	2 1.34	0 0.00	0 0.00	0 0.00	0	14 0.84	
Encephalocele	23 0.97	1 0.41	1 2.52	0 0.00	0 0.00	0	25 0.92	Data for 1996–2000
Endocardial cushion defect	59 4.08	8 5.36	0 0.00	0 0.00	0 0.00	0	67 4.04	
Esophageal atresia/ tracheoesophageal fistula	53 3.67	4 2.68	0 0.00	1 6.25	0 0.00	1	59 3.56	
Fetal alcohol syndrome	5 0.51	8 7.91	0 0.00	0 0.00	0 0.00	0	13 1.17	
Gastroschisis	58 4.01	3 2.01	3 11.03	1 6.25	0 0.00	2	67 4.04	1998–2000: 756.72
Hirschsprung's disease (congenital megacolon)	30 2.08	4 2.68	0 0.00	0 0.00	0 0.00	1	35 2.11	

Kentucky

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Hydrocephalus without Spina Bifida	145 10.03	20 13.39	0 0.00	0 0.00	0 0.00	0	165 9.96	
Hypoplastic left heart syndrome	45 3.11	3 2.01	0 0.00	0 0.00	1 41.84	1	50 3.02	
Hypospadias and Epispadias	544 37.63	54 36.15	2 7.36	3 18.75	0 0.00	10	613 37.00	
Microcephalus	113 7.82	10 6.69	0 0.00	2 12.50	0 0.00	2	127 7.66	
Obstructive genitourinary defect	287 19.85	23 15.40	4 14.71	7 43.75	0 0.00	9	330 19.92	
Omphalocele	26 1.80	5 3.35	0 0.00	2 12.50	0 0.00	1	34 2.05	1998–2000: 756.73
Patent ductus arteriosus	583 40.33	88 58.91	4 14.71	4 25.00	1 41.84	0	680 41.04	1998–2000: >2500 g
Pulmonary valve atresia and stenosis	176 12.18	8 5.36	3 11.03	0 0.00	0 0.00	0	187 11.29	
Pyloric stenosis	390 26.98	24 16.07	1 3.68	1 6.25	1 41.84	7	424 25.59	
Rectal and large intestinal atresia/stenosis	68 4.70	7 4.69	1 3.68	0 0.00	0 0.00	3	79 4.77	
Reduction deformity, lower limbs	35 2.42	6 4.02	0 0.00	0 0.00	0 0.00	3	44 2.66	
Reduction deformity, upper limbs	43 2.97	10 6.69	1 3.68	0 0.00	0 0.00	3	57 3.44	
Renal agenesis/hypoplasia	44 3.04	3 2.01	1 3.68	1 6.25	0 0.00	1	50 3.02	
Spina bifida without anencephalus	111 4.70	8 3.28	2 5.03	0 0.00	0 0.00	0	121 4.45	Data for 1996– 2000
Tetralogy of Fallot	60 4.15	9 6.03	0 0.00	0 0.00	0 0.00	0	69 4.16	
Transposition of great arteries	63 4.36	6 4.02	1 3.68	1 6.25	0 0.00	0	71 4.28	
Tricuspid valve atresia and stenosis	14 0.97	2 1.34	0 0.00	0 0.00	1 41.84	0	17 1.03	
Trisomy 13	14 0.97	2 1.34	0 0.00	1 9.17	0 0.00	1	18 1.09	
Trisomy 18	40 2.77	8 5.36	2 10.01	0 0.00	0 0.00	0	50 3.02	
Ventricular septal defect	769 53.20	91 60.92	18 66.20	4 25.00	1 41.84	0	883 53.29	
Total Live Births	236,330	24,407	3,973	2,543	393		271,818	

Kentucky

Trisomy Counts and Rates by Maternal Age 1998–2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	108 7.14	66 46.04	174 10.50
Trisomy 13	15 0.99	3 2.09	18 1.09
Trisomy 18	34 2.25	16 11.16	50 3.02
Total Live Births	151,285	14,336	165,696

*Total includes unknown age.

Notes:

1. Births covered include live births and fetal deaths.
2. Unknown race category includes unknowns for Hispanic origin or an unknown race.
3. Data sources include: Vital Statistics live birth certificate files, death certificate files, and fetal death certificate files, Hospital discharge (UB92 data), Hospital/Physician reporting, Spina Bifida Association of Kentucky, Commission for Children with Special Health Care Needs, and Local Health Department Reporting.
4. Coding System Used: ICD-9.
5. Heart defects include probable diagnoses.
6. Neural tube defect data is available from 1996 through 2000. The remaining codes are available for 1998–2000 only.

Maryland

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Anencephalus	55 2.60	23 2.28				16	94 2.78	
Cleft lip with and without cleft palate	188 8.88	59 5.85				25	272 8.04	
Cleft palate without cleft lip	117 5.52	32 3.17				14	163 4.82	
Congenital hip dislocation	74 3.49	13 1.29				10	97 2.87	
Down syndrome	255 12.04	103 10.21				50	408 12.06	
Esophageal atresia/tracheoesophageal fistula	29 1.37	15 1.49				4	48 1.42	
Hydrocephalus without Spina Bifida	63 2.97	47 4.66				17	127 3.75	
Hypospadias and Epispadias	539 25.45	189 18.74				35	763 22.55	
Rectal and large intestinal atresia/stenosis	55 2.60	23 2.28				4	82 2.42	
Reduction deformity, lower limbs	45 2.12	30 2.98				4	79 2.34	
Reduction deformity, upper limbs	67 3.16	24 2.38				10	101 2.99	
Spina bifida without anencephalus	91 4.30	18 1.79				10	119 3.52	
Total Live Births	211,819	100,840					338,325	

Maryland

Trisomy Counts and Rates by Maternal Age 1996–2000

(Rates per 10,000 Live Births)

Defect	Age		
	<35	35 and >	Total*
Down syndrome	242 8.53	166 30.48	408 12.06
Total Live Births	283,770	54,457	338,325

*Total includes unknown age.

Massachusetts

Birth Defects Counts and Rates 1999–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Amniotic bands	11 0.91	0 0.00	1 0.55	0 0.00	0 0.00	1	13 0.80	
Anencephalus	7 0.58	2 1.72	1 0.55	0 0.00	0 0.00	2	12 0.74	
Aniridia	3 0.25	0 0.00	0 0.00	0 0.00	0 0.00	0	3 0.18	
Anophthalmia/ microphthalmia	6 0.50	2 1.72	1 0.55	2 2.27	0 0.00	0	11 0.68	
Anotia/microtia	10 0.83	0 0.00	6 3.32	1 1.14	0 0.00	2	19 1.17	
Aortic valve stenosis	20 1.66	1 0.86	1 0.55	0 0.00	0 0.00	1	23 1.42	
Atrial septal defect	175 14.53	20 17.24	32 17.72	9 10.22	0 0.00	11	247 15.20	
Biliary atresia	5 0.42	2 1.72	1 0.55	0 0.00	0 0.00	0	8 0.49	
Bladder exstrophy	3 0.25	0 0.00	1 0.55	0 0.00	0 0.00	0	4 0.25	
Choanal atresia	6 0.50	0 0.00	0 0.00	0 0.00	0 0.00	0	6 0.37	
Cleft lip with and without cleft palate	97 8.05	4 3.45	19 10.52	11 12.49	0 0.00	4	135 8.31	Excludes bifid uvula, cleft gum
Cleft palate without cleft lip	74 6.14	1 0.86	11 6.09	4 4.54	1 37.45	3	94 5.79	
Coarctation of aorta	40 3.32	7 6.04	8 4.43	0 0.00	0 0.00	4	59 3.63	
Common truncus	3 0.25	1 0.86	0 0.00	0 0.00	0 0.00	0	4 0.25	
Congenital cataract	11 0.91	1 0.86	2 1.11	1 1.14	0 0.00	0	15 0.92	
Diaphragmatic hernia	28 2.32	0 0.00	5 2.77	1 1.14	0 0.00	1	35 2.15	
Down syndrome	110 9.13	13 11.21	17 9.41	1 1.14	1 37.45	11	153 9.42	
Ebstein's anomaly	6 0.50	1 0.86	3 1.66	0 0.00	0 0.00	1	11 0.68	
Encephalocele	4 0.33	1 1.74	0 0.00	0 0.00	0 0.00	0	5 0.31	
Endocardial cushion defect	42 3.49	7 6.04	6 3.32	1 1.14	0 0.00	3	59 3.63	
Esophageal atresia/ tracheoesophageal fistula	29 2.41	2 1.72	5 2.77	2 2.27	0 0.00	2	40 2.46	
Fetal alcohol syndrome	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0	0 0.00	
Gastroschisis	21 1.74	0 0.00	6 3.32	2 2.27	0 0.00	1	30 1.85	
Hirschsprung's disease (congenital megacolon)	16 1.33	2 1.72	4 2.21	2 2.27	0 0.00	1	25 1.54	

Massachusetts

Birth Defects Counts and Rates 1999–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Hydrocephalus without Spina Bifida	32 2.66	7 6.04	8 4.43	3 3.41	0 0.00	0	50 3.08	
Hypoplastic left heart syndrome	17 1.41	4 3.45	5 2.77	0 0.00	0 0.00	0	26 1.60	
Hypospadias and Epispadias	94 7.80	10 8.62	17 9.41	8 9.09	0 0.00	2	131 8.06	Excludes 1st degree hypospadias & epispadias
Microcephalus	25 2.08	4 3.45	5 2.77	2 2.27	0 0.00	0	36 2.22	Defined as head circ 2 std below normal
Obstructive genitourinary defect	81 6.72	5 4.31	18 9.97	4 4.54	0 0.00	1	109 6.71	Excludes isolated diagnosis w/o surgical intervention & 2nd diagnosis w/o postnatal confirmation
Omphalocele	18 1.49	5 4.31	3 1.66	2 2.27	0 0.00	1	29 1.79	
Patent ductus arteriosus	175 14.53	23 19.83	26 14.39	7 7.95	0 0.00	8	239 14.71	Excludes GA <36 wks and if isolated, if persists <5 days
Pulmonary valve atresia and stenosis	50 4.15	7 6.04	7 3.88	2 2.27	0 0.00	3	69 4.25	
Rectal and large intestinal atresia/stenosis	29 2.41	1 0.86	11 6.09	2 2.27	0 0.00	1	44 2.71	
Reduction deformity, lower limbs	15 1.25	2 1.72	3 1.66	0 0.00	0 0.00	2	22 1.35	
Reduction deformity, upper limbs	32 2.66	1 0.86	5 2.77	2 2.27	0 0.00	3	43 2.65	
Renal agenesis/hypoplasia	5 0.42	1 0.86	2 1.11	0 0.00	0 0.00	1	9 0.55	Excludes isolated renal agenesis/hypoplasia
Spina bifida without anencephalus	20 1.66	3 2.59	2 1.11	3 3.41	0 0.00	0	28 1.72	
Tetralogy of Fallot	45 3.74	7 6.04	7 3.88	5 5.68	0 0.00	0	64 3.94	
Transposition of great arteries	34 2.82	3 2.59	7 3.88	1 1.14	0 0.00	1	46 2.83	
Tricuspid valve atresia and stenosis	9 0.75	1 0.86	5 2.77	0 0.00	0 0.00	1	16 0.98	

Massachusetts

Birth Defects Counts and Rates 1999–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Trisomy 13	7	1	1	1	0	0	10	
	0.58	0.86	0.55	1.14	0.00		0.62	
Trisomy 18	15	3	3	0	0	2	23	
	1.25	2.59	1.66	0.00	0.00		1.42	
Ventricular septal defect	164	20	29	2	1	8	224	Excludes muscular VSDs
	13.62	17.24	16.06	2.27	37.45		13.79	
Total Live Births	120,453	11,599	18,062	8,805	267		162,448	

Massachusetts

Trisomy Counts and Rates by Maternal Age 1999–2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	64	89	153
	5.00	25.92	9.42
Trisomy 13	5	5	10
	0.39	1.46	0.62
Trisomy 18	11	12	23
	0.86	3.49	1.42
Total Live Births	128,107	34,337	162,448

*Total includes unknown age.

Notes:

1. Includes stillbirth cases for all defects. Stillbirth is defined as ≥ 20 weeks gestational age or ≥ 350 grams.
2. BPA coding is used to define birth defect groups.
3. In year 2000, Massachusetts began ascertaining birth defect cases at 2 out of state hospitals and 1 in-state specialty hospital.

Michigan

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Anencephalus	56 1.13	6 0.50	2 0.69	2 1.28	0 0.00	5	71 1.06	
Aniridia	9 0.18	1 0.08	1 0.34	0 0.00	1 2.73	1	13 0.19	
Anophthalmia/ microphthalmia	65 1.31	14 1.16	9 3.09	6 3.85	1 2.73	4	99 1.48	
Anotia/microtia	43 0.86	5 0.42	4 1.38	2 1.28	0 0.00	3	57 0.85	
Aortic valve stenosis	128 2.57	7 0.58	5 1.72	0 0.00	2 5.46	6	148 2.21	
Atrial septal defect	2,580 51.85	700 58.20	135 46.42	54 34.68	22 60.11	60	3,551 52.96	
Biliary atresia	51 1.02	25 2.08	3 1.03	2 1.28	0 0.00	5	86 1.28	
Bladder exstrophy	16 0.32	3 0.25	0 0.00	0 0.00	1 2.73	1	21 0.31	
Choanal atresia	78 1.57	14 1.16	2 0.69	2 1.28	0 0.00	5	101 1.51	
Cleft lip with and without cleft palate	534 10.73	57 4.74	28 9.63	19 12.20	7 19.13	25	670 9.99	
Cleft palate without cleft lip	277 5.57	48 3.99	13 4.47	8 5.14	1 2.73	14	361 5.38	
Coarctation of aorta	315 6.33	40 3.33	12 4.13	5 3.21	4 10.93	8	384 5.73	
Common truncus	60 1.21	12 1.00	3 1.03	0 0.00	0 0.00	5	80 1.19	
Congenital cataract	99 1.99	22 1.83	3 1.03	3 1.93	1 2.73	3	131 1.95	
Congenital hip dislocation	720 14.47	50 4.16	29 9.97	24 15.41	3 8.20	18	844 12.59	
Diaphragmatic hernia	139 2.79	45 3.74	7 2.41	4 2.57	1 2.73	5	201 3.00	
Down syndrome	571 11.47	97 8.06	34 11.69	15 9.63	3 8.20	20	740 11.04	
Ebstein's anomaly	76 1.53	5 0.42	1 0.34	0 0.00	1 2.73	10	93 1.39	
Encephalocele	34 0.68	15 1.25	2 0.69	0 0.00	0 0.00	0	51 0.76	
Endocardial cushion defect	199 4.00	47 3.91	8 2.75	2 1.28	0 0.00	16	272 4.06	
Esophageal atresia/ tracheoesophageal fistula	156 3.13	32 2.66	7 2.41	1 0.64	3 8.20	4	203 3.03	
Fetal alcohol syndrome	65 1.31	55 4.57	2 0.69	1 0.64	0 0.00	2	125 1.86	
Gastroschisis	152 3.05	66 5.49	7 2.41	3 1.93	0 0.00	2	230 3.43	
Hirschsprung's disease (congenital megacolon)	145 2.91	51 4.24	8 2.75	3 1.93	1 2.73	8	216 3.22	
Hydrocephalus without Spina Bifida	367 7.37	154 12.80	14 4.81	7 4.50	4 10.93	13	559 8.34	
Hypoplastic left heart syndrome	188 3.78	26 2.16	7 2.41	4 2.57	2 5.46	21	248 3.70	

Michigan

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Hypospadias and Epispadias	1,338 26.89	198 16.46	33 11.35	15 9.63	6 16.39	60	1,650 24.61	
Microcephalus	294 5.91	106 8.81	12 4.13	10 6.42	2 5.46	16	440 6.56	
Obstructive genitourinary defect	839 16.86	168 13.97	59 20.29	20 12.85	6 16.39	27	1,119 16.69	
Patent ductus arteriosus	1,270 25.52	339 28.18	69 23.73	28 17.98	10 27.32	11	1,727 25.76	
Pulmonary valve atresia and stenosis	488 9.81	139 11.56	30 10.32	14 8.99	4 10.93	21	696 10.38	
Pyloric stenosis	999 20.08	110 9.15	61 20.98	6 3.85	7 19.13	26	1,209 18.03	
Rectal and large intestinal atresia/stenosis	236 4.74	55 4.57	11 3.78	12 7.71	1 2.73	11	326 4.86	
Reduction deformity, lower limbs	60 1.21	20 1.66	4 1.38	0 0.00	0 0.00	2	86 1.28	
Reduction deformity, upper limbs	111 2.23	32 2.66	2 0.69	2 1.28	0 0.00	4	151 2.25	
Renal agenesis/hypoplasia	290 5.83	53 4.41	15 5.16	11 7.06	1 2.73	6	376 5.61	
Spina bifida without anencephalus	191 3.84	48 3.99	11 3.78	4 2.57	1 2.73	9	264 3.94	
Tetralogy of Fallot	253 5.08	53 4.41	21 7.22	11 7.06	4 10.93	16	358 5.34	
Transposition of great arteries	231 4.64	39 3.24	12 4.13	7 4.50	1 2.73	22	312 4.65	
Tricuspid valve atresia and stenosis	48 0.96	20 1.66	8 2.75	1 0.64	0 0.00	2	79 1.18	
Trisomy 13	41 0.82	14 1.16	4 1.38	4 2.57	0 0.00	1	64 0.95	
Trisomy 18	65 1.31	11 0.91	3 1.03	3 1.93	1 2.73	4	87 1.30	
Ventricular septal defect	1,985 39.89	327 27.19	87 29.92	59 37.89	16 43.72	90	2,564 38.24	
Total Live Births	497,633	120,279	29,082	15,570	3,660		670,482	

Michigan

Trisomy Counts and Rates by Maternal Age 1996–2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	435 7.37	290 36.25	740 11.04
Trisomy 13	50 0.85	13 1.62	64 0.95
Trisomy 18	56 0.95	28 3.50	87 1.30
Total Live Births	590,342	80,003	670,450

*Total includes unknown age.

Notes:

1. Michigan uses ICD-9 coding and presently includes only live births in the registry.
2. Probable cases are included in the data.
3. There is an overlap in the race definitions such that Hispanics that report race as Asian or Native American could be double counted. They are attributed to the specific race categories rather than as Hispanic in the figures.

Mississippi

Birth Defects Counts and Rates 2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Anencephalus	2	4	0	0	0	1	7	Include only live births.
	0.87	2.01	0.00	0.00	0.00		1.59	
Aniridia	0	1	0	0	0	0	1	
	0.00	0.50	0.00	0.00	0.00		0.23	
Anophthalmia/microphthalmia	2	4	0	0	0	0	6	
	0.87	2.01	0.00	0.00	0.00		1.36	
Anotia/microtia	1	1	0	0	1	0	3	
	0.44	0.50	0.00	0.00	40.49		0.68	
Aortic valve stenosis	0	1	0	0	0	0	1	
	0.00	0.50	0.00	0.00	0.00		0.23	
Atrial septal defect	41	59	1	1	2	0	104	
	17.86	29.66	16.81	25.58	80.97		23.60	
Biliary atresia	2	2	0	0	0	0	4	
	0.87	1.01	0.00	0.00	0.00		0.91	
Bladder exstrophy	2	0	0	0	0	0	2	
	0.87	0.00	0.00	0.00	0.00		0.45	
Choanal atresia	1	0	0	0	0	0	1	
	0.44	0.00	0.00	0.00	0.00		0.23	
Cleft lip with and without cleft palate	14	21	0	0	0	0	35	
	6.10	10.56	0.00	0.00	0.00		7.94	
Cleft palate without cleft lip	18	13	1	0	0	0	32	
	7.84	6.54	16.81	0.00	0.00		7.26	
Coarctation of aorta	8	6	0	0	1	0	15	
	3.49	3.02	0.00	0.00	40.49		3.40	
Common truncus	5	1	0	0	0	0	6	
	2.18	0.50	0.00	0.00	0.00		1.36	
Congenital cataract	2	1	0	0	0	0	3	
	0.87	0.50	0.00	0.00	0.00		0.68	
Congenital hip dislocation	11	5	0	1	0	0	17	
	4.79	2.51	0.00	25.58	0.00		3.86	
Diaphragmatic hernia	4	7	1	0	1	0	13	
	1.74	3.52	16.81	0.00	40.49		2.95	
Down syndrome	25	10	0	0	1	1	37	
	10.89	5.03	0.00	0.00	40.49		8.39	
Ebstein's anomaly	2	2	0	0	0	0	4	
	0.87	1.01	0.00	0.00	0.00		0.91	
Encephalocele	4	3	0	0	0	0	7	
	1.74	1.51	0.00	0.00	0.00		1.59	
Endocardial cushion defect	5	5	0	0	0	0	10	
	2.18	2.51	0.00	0.00	0.00		2.27	
Esophageal atresia/tracheoesophageal fistula	5	7	0	0	0	0	12	
	2.18	3.52	0.00	0.00	0.00		2.72	
Fetal alcohol syndrome	1	1	0	0	1	0	3	
	0.44	0.50	0.00	0.00	40.49		0.68	
Hirschsprung's disease (congenital megacolon)	3	11	0	0	0	0	14	
	1.31	5.53	0.00	0.00	0.00		3.18	
Hydrocephalus without Spina Bifida	6	22	1	0	1	0	30	
	2.61	11.06	16.81	0.00	40.49		6.81	
Hypoplastic left heart syndrome	7	3	1	0	1	1	13	
	3.05	1.51	16.81	0.00	40.49		2.95	
Hypospadias and Epispadias	27	28	0	0	0	0	55	
	11.76	14.08	0.00	0.00	0.00		12.48	

Mississippi

Birth Defects Counts and Rates 2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Microcephalus	6 2.61	29 14.58	0 0.00	0 0.00	1 40.49	2	38 8.62	
Obstructive genitourinary defect	4 1.74	6 3.02	0 0.00	0 0.00	0 0.00	0	10 2.27	
Patent ductus arteriosus	32 13.94	47 23.63	1 16.81	0 0.00	1 40.49	0	81 18.38	Included if birthweight is >2500 g.
Pulmonary valve atresia and stenosis	6 2.61	16 8.04	0 0.00	0 0.00	1 40.49	0	23 5.22	
Pyloric stenosis	42 18.30	18 9.05	1 16.81	0 0.00	1 40.49	0	62 14.07	
Rectal and large intestinal atresia/stenosis	6 2.61	9 4.52	0 0.00	0 0.00	0 0.00	0	15 3.40	
Reduction deformity, lower limbs	1 0.44	2 1.01	0 0.00	0 0.00	0 0.00	0	3 0.68	
Reduction deformity, upper limbs	3 1.31	5 2.51	0 0.00	0 0.00	0 0.00	0	8 1.82	
Renal agenesis/hypoplasia	5 2.18	9 4.52	0 0.00	0 0.00	0 0.00	0	14 3.18	
Spina bifida without anencephalus	9 3.92	5 2.51	3 50.42	0 0.00	2 80.97	0	19 4.31	
Tetralogy of Fallot	6 2.61	4 2.01	0 0.00	0 0.00	0 0.00	0	10 2.27	
Transposition of great arteries	16 6.97	8 4.02	0 0.00	0 0.00	0 0.00	0	24 5.45	
Tricuspid valve atresia and stenosis	1 0.44	1 0.50	0 0.00	0 0.00	0 0.00	0	2 0.45	
Trisomy 13	1 0.44	1 0.50	0 0.00	0 0.00	0 0.00	0	2 0.45	
Trisomy 18	2 0.87	3 1.51	0 0.00	0 0.00	0 0.00	0	5 1.13	
Ventricular septal defect	54 23.53	62 31.17	0 0.00	0 0.00	2 80.97	0	118 26.77	
Total Live Births	22,950	19,890	595	391	247		44,075	

Mississippi

Trisomy Counts and Rates by Maternal Age 2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	22 5.39	14 42.71	37 8.39
Trisomy 13	2 0.49	0 0.00	2 0.45
Trisomy 18	1 0.25	4 12.20	5 1.13
Total Live Births	40,795	3,278	44,075

*Total includes unknown age.

Missouri

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Anencephalus	68	10	5	2	0	0	85	Live births & stillbirths 20+ weeks
	2.27	1.79	4.72	3.26	0.00		2.27	
Aniridia	12	2	0	0	0	0	14	
	0.50	0.45	0.00	0.00	0.00		0.47	
Anophthalmia/microphthalmia	58	15	3	0	0	0	76	
	1.93	2.69	2.83	0.00	0.00		2.03	
Anotia/microtia	16	5	2	0	0	0	23	
	0.53	0.90	1.89	0.00	0.00		0.61	
Aortic valve stenosis	69	10	2	0	0	0	81	
	2.30	1.79	1.89	0.00	0.00		2.16	
Atrial septal defect	1,890	561	78	32	9	7	2,577	
	62.98	100.59	73.63	52.19	65.55		68.79	
Biliary atresia	31	12	0	2	0	0	45	
	1.03	2.15	0.00	3.26	0.00		1.20	
Bladder exstrophy	17	1	0	0	0	0	18	
	0.57	0.18	0.00	0.00	0.00		0.48	
Choanal atresia	77	13	1	2	0	0	93	
	2.57	2.33	0.94	3.26	0.00		2.48	
Cleft lip with and without cleft palate	388	31	15	8	0	0	442	
	12.93	5.56	14.16	13.05	0.00		11.80	
Cleft palate without cleft lip	188	26	7	3	1	1	226	
	6.26	4.66	6.61	4.89	7.28		6.03	
Coarctation of aorta	209	27	4	5	0	0	245	
	6.96	4.84	3.78	8.16	0.00		6.54	
Common truncus	32	5	0	0	0	0	37	
	1.07	0.90	0.00	0.00	0.00		0.99	
Congenital cataract	79	12	3	0	0	0	94	
	2.63	2.15	2.83	0.00	0.00		2.51	
Congenital hip dislocation	477	29	11	2	2	0	521	
	15.90	5.20	10.38	3.26	14.57		13.91	
Diaphragmatic hernia	131	30	3	6	0	0	170	
	4.37	5.38	2.83	9.79	0.00		4.54	
Down syndrome	436	72	16	7	0	1	532	
	14.53	12.91	15.10	11.42	0.00		14.20	
Ebstein's anomaly	23	3	0	0	0	1	27	
	0.77	0.54	0.00	0.00	0.00		0.72	
Encephalocele	41	3	2	1	0	0	47	
	1.37	0.54	1.89	1.63	0.00		1.25	
Endocardial cushion defect	151	24	2	2	0	0	179	
	5.03	4.30	1.89	3.26	0.00		4.78	
Esophageal atresia/tracheoesophageal fistula	88	13	4	0	0	0	105	
	2.93	2.33	3.78	0.00	0.00		2.80	
Fetal alcohol syndrome	30	20	0	1	0	0	51	
	1.00	3.59	0.00	1.63	0.00		1.36	
Hirschsprung's disease (congenital megacolon)	104	26	3	2	0	0	135	
	3.47	4.66	2.83	3.26	0.00		3.60	
Hydrocephalus without Spina Bifida	277	75	8	7	0	3	370	
	9.23	13.45	7.55	11.42	0.00		9.88	
Hypoplastic left heart syndrome	108	21	3	1	2	0	135	
	3.60	3.77	2.83	1.63	14.57		3.60	

Missouri

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Hypospadias and Epispadias	1,361 45.35	226 40.52	28 26.43	12 19.57	2 14.57	5	1,634 43.62	
Microcephalus	175 5.83	62 11.12	4 3.78	1 1.63	1 7.28	0	243 6.49	
Obstructive genitourinary defect	647 21.56	111 19.90	14 13.22	12 19.57	4 29.13	2	790 21.09	
Patent ductus arteriosus	1,509 50.28	380 68.14	49 46.25	29 47.30	3 21.85	4	1,974 52.70	
Pulmonary valve atresia and stenosis	364 12.13	114 20.44	8 7.55	8 13.05	0 0.00	4	498 13.29	
Pyloric stenosis	1,061 35.36	90 16.14	20 18.88	6 9.79	6 43.70	0	1,183 31.58	
Rectal and large intestinal atresia/stenosis	166 5.53	15 2.69	7 6.61	1 1.63	1 7.28	0	190 5.07	
Reduction deformity, lower limbs	52 1.73	15 2.69	2 1.89	0 0.00	1 7.28	0	70 1.87	
Reduction deformity, upper limbs	92 3.07	20 3.59	2 1.89	2 3.26	2 14.57	0	118 3.15	
Renal agenesis/hypoplasia	150 5.00	26 4.66	4 3.78	2 3.26	0 0.00	0	182 4.86	
Spina bifida without anencephalus	166 5.53	19 3.41	10 9.44	0 0.00	0 0.00	0	195 5.21	Live births & stillbirths 20+ weeks
Tetralogy of Fallot	165 5.50	35 6.28	9 8.50	6 9.79	1 7.28	0	216 5.77	
Transposition of great arteries	142 4.73	26 4.66	0 0.00	3 4.89	0 0.00	0	171 4.56	
Tricuspid valve atresia and stenosis	46 1.53	10 1.79	2 1.89	0 0.00	0 0.00	0	58 1.55	
Trisomy 13	24 0.80	8 1.43	0 0.00	1 1.63	0 0.00	0	33 0.88	
Trisomy 18	66 2.20	17 3.05	2 1.89	1 1.63	0 0.00	0	86 2.30	
Ventricular septal defect	1,349 44.95	253 45.36	39 36.81	16 26.10	4 29.13	5	1,666 44.47	
Total Live Births	300,093	55,770	10,594	6,131	1,373		374,604	

Missouri

Trisomy Counts and Rates by Maternal Age 1996–2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	324 9.68	208 51.99	532 14.20
Trisomy 13	23 0.69	10 2.50	33 0.88
Trisomy 18	61 1.82	25 6.25	86 2.30
Total Live Births	334,542	40,008	374,604

*Total includes unknown age.

Notes:

1. Data are for live births and still births (20+ weeks gestation). No data for TABs are included in this report.

2. Data coding: ICD-10 for fetal/infants deaths 1999–2000; ICD-9-CM for all other sources. Possible cases cannot be separated from probable and confirmed cases.

Montana

Birth Defects Counts and Rates 2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Anencephalus	1 1.09	0 0.00	0 0.00	0 0.00	0 0.00	1 1.83	2 1.83	
Aortic valve stenosis	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	3 2.74	3 2.74	
Atrial septal defect	11 12.03	0 0.00	0 0.00	0 0.00	2 15.29	27 36.54	40 36.54	
Choanal atresia	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	
Cleft lip with and without cleft palate	5 5.47	0 0.00	0 0.00	0 0.00	3 22.94	6 12.79	14 12.79	
Cleft palate without cleft lip	2 2.19	0 0.00	0 0.00	0 0.00	0 0.00	4 5.48	6 5.48	
Coarctation of aorta	1 1.09	0 0.00	0 0.00	0 0.00	0 0.00	0 0.91	1 0.91	
Common truncus	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	1 0.91	1 0.91	
Down syndrome	16 17.50	0 0.00	1 30.40	0 0.00	1 7.65	11 22.84	25 22.84	
Ebstein's anomaly	2 2.19	0 0.00	0 0.00	0 0.00	0 0.00	1 2.74	3 2.74	
Encephalocele	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	
Endocardial cushion defect	0 0.00	0 0.00	1 30.40	0 0.00	0 0.00	2 2.74	3 2.74	
Hydrocephalus without Spina Bifida	1 1.09	0 0.00	0 0.00	0 0.00	0 0.00	1 1.83	2 1.83	
Hypoplastic left heart syndrome	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	1 0.91	1 0.91	
Microcephalus	5 5.47	0 0.00	0 0.00	0 0.00	1 7.65	8 12.79	14 12.79	
Patent ductus arteriosus	3 3.28	0 0.00	0 0.00	0 0.00	0 0.00	23 23.75	26 23.75	>2500 g
Pulmonary valve atresia and stenosis	1 1.09	0 0.00	0 0.00	0 0.00	0 0.00	6 6.40	7 6.40	
Spina bifida without anencephalus		0 0.00	0 0.00	0 0.00	1 7.65	1 1.83	2 1.83	
Tetralogy of Fallot	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	4 3.65	4 3.65	
Transposition of great arteries	1 1.09	0 0.00	0 0.00	0 0.00	0 0.00	0 0.91	1 0.91	
Tricuspid valve atresia and stenosis	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	
Trisomy 13	2 2.19	0 0.00	0 0.00	0 0.00	0 0.00	0 1.83	2 1.83	
Trisomy 18	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	1 0.91	1 0.91	
Ventricular septal defect	5 5.47	0 0.00	0 0.00	0 0.00	0 0.00	36 37.46	41 37.46	
Total Live Births	9,141	37	329	109	1,308	22	10,946	

Montana

Trisomy Counts and Rates by Maternal Age 2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	11	12	25
	11.48	102.56	22.84
Trisomy 13	1	1	2
	1.04	7.33	1.83
Trisomy 18	0	1	1
	0.00	7.33	0.91
Total Live Births	9,581	1,365	10,946

*Total includes unknown age.

Notes:

1. ICD-9 coding used.
2. Counts include fetal deaths >20 weeks gestation and elective terminations at any gestational age.
3. Diagnoses are confirmed by medical records or physician reports; no probable cases are included.
4. Trisomy cases are cytogenetically confirmed.
5. 2000 data may not be complete due to voluntary referral only.

New Jersey

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Amniotic bands	14 0.43	9 0.94	7 0.68	0 0.00	1 13.05	0	31 0.55	
Anencephalus	11 0.34	2 0.21	10 0.97	1 0.26	0 0.00	0	24 0.42	
Aniridia	2 0.06	0 0.00	0 0.00	0 0.00	0 0.00	0	2 0.04	
Anophthalmia/ microphthalmia	30 0.92	10 1.05	10 0.97	2 0.52	0 0.00	0	52 0.91	
Anotia/microtia	29 0.89	3 0.31	22 2.14	2 0.52	0 0.00	1	57 1.00	
Aortic valve stenosis	51 1.56	6 0.63	9 0.88	6 1.56	0 0.00	0	72 1.27	
Atrial septal defect	2,351 71.90	1,067 112.02	813 79.26	264 68.58	10 130.55	43	4,548 79.99	
Biliary atresia	14 0.43	5 0.52	6 0.58	2 0.52	0 0.00	0	27 0.47	
Bladder extrophy	9 0.28	1 1.10	1 0.10	1 0.26	0 0.00	0	12 0.21	
Choanal atresia	61 1.87	16 1.68	6 0.58	3 0.78	0 0.00	0	86 1.51	
Cleft lip with and without cleft palate	243 7.43	54 5.67	88 8.58	44 11.43	0 0.00	5	434 7.63	
Cleft palate without cleft lip	199 6.09	55 5.77	57 5.56	16 4.16	0 0.00	1	328 5.77	
Coarctation of aorta	129 3.95	27 2.83	34 3.31	10 2.60	1 13.05	2	203 3.57	
Common truncus	27 0.83	5 0.52	5 0.49	0 0.00	0 0.00	0	37 0.65	
Congenital cataract	36 1.10	11 1.15	18 1.75	2 0.52	0 0.00	0	67 1.18	
Congenital hip dislocation	320 9.79	35 3.67	105 10.24	34 8.83	1 13.05	0	495 8.71	
Diaphragmatic hernia	75 2.29	27 2.83	16 1.56	10 2.60	1 13.05	4	133 2.34	
Down syndrome	356 10.89	111 11.65	132 12.87	27 7.01	1 13.05	7	634 11.15	
Ebstein's anomaly	16 0.49	2 0.21	5 0.49	2 0.52	0 0.00	0	25 0.44	
Encephalocele	9 0.28	6 0.63	7 0.68	2 0.52	0 0.00	0	24 0.42	
Endocardial cushion defect	90 2.75	40 4.20	28 2.73	9 2.34	0 0.00	1	168 2.95	
Esophageal atresia/ tracheoesophageal fistula	72 2.20	16 1.68	26 2.53	6 1.56	0 0.00	2	122 2.15	

New Jersey

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Fetal alcohol syndrome	12 0.37	12 1.26	2 0.19	0 0.00	0 0.00	0	26 0.46	
Gastroschisis	52 1.59	32 3.36	44 4.29	2 0.52	1 13.05	2	133 2.34	
Hirschsprung's disease (congenital megacolon)	46 1.41	26 2.73	13 1.27	5 1.30	0 0.00	2	92 1.62	
Hydrocephalus without Spina Bifida	90 2.75	66 6.93	51 4.97	10 2.60	0 0.00	5	222 3.90	
Hypoplastic left heart syndrome	73 2.23	26 2.73	17 1.66	10 2.60	1 13.05	3	130 2.29	
Hypospadias and Epispadias	1,444 44.16	295 30.97	251 24.47	108 28.05	0 0.00	30	2,128 37.43	
Microcephalus	111 3.39	138 14.49	66 6.43	16 4.16	0 0.00	6	337 5.93	
Obstructive genitourinary defect	783 23.95	167 17.53	233 22.72	97 25.20	2 26.11	8	1,290 22.69	
Omphalocele	20 0.61	11 1.15	7 0.68	2 0.52	0 0.00	0	40 0.70	
Patent ductus arteriosus	1,698 51.93	602 63.20	456 44.46	170 44.16	6 78.33	21	2,953 51.94	
Pulmonary valve atresia and stenosis	317 9.70	220 23.10	107 10.43	30 7.79	1 13.05	8	683 12.01	
Pyloric stenosis	608 18.60	114 11.97	242 23.59	21 5.45	2 26.11	13	1,000 17.59	
Rectal and large intestinal atresia/stenosis	102 3.12	31 3.25	41 4.00	16 4.16	1 13.05	2	193 3.39	
Reduction deformity, lower limbs	45 1.38	19 1.99	13 1.27	2 0.52	2 26.11	1	82 1.44	
Reduction deformity, upper limbs	92 2.81	31 3.25	37 3.61	7 1.82	1 13.05	2	170 2.99	
Renal agenesis/hypoplasia	110 3.36	30 3.15	36 3.51	11 2.86	2 26.11	4	193 3.39	
Spina bifida without anencephalus	59 1.80	19 1.99	26 3.24	11 2.86	0 0.00	3	118 2.08	
Tetralogy of Fallot	122 3.73	44 4.62	39 3.80	13 3.38	2 26.11	3	223 3.92	
Transposition of great arteries	119 3.64	30 3.15	38 3.70	16 4.16	0 0.00	2	205 3.61	
Tricuspid valve atresia and stenosis	23 0.70	16 1.68	4 0.39	4 1.04	0 0.00	1	48 0.84	
Trisomy 13	25 0.76	8 0.84	6 0.58	1 0.26	0 0.00	0	40 0.70	
Trisomy 18	32 0.98	12 1.26	10 0.97	4 1.04	0 0.00	0	58 1.02	
Ventricular septal defect	1,691 51.72	455 47.77	512 49.92	154 40.00	2 26.11	25	2,839 49.93	
Total Live Births	326,969	95,248	102,570	38,497	766		568,564	

New Jersey

Trisomy Counts and Rates by Maternal Age 1996–2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	356 7.73	270 25.03	645 11.34
Trisomy 13	27 0.59	13 1.21	40 0.70
Trisomy 18	33 0.72	24 2.22	58 1.02
Total Live Births	460,504	107,882	568,564

*Total includes unknown age.

New Mexico

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Amniotic bands	0 0.00	0 0.00	0 0.00		0 0.00	0	0 0.00	
Anencephalus	7 1.48	0 0.00	18 2.67		5 3.77	4	34 2.51	1996–1999: Includes 740
Aniridia	1 0.21	0 0.00	1 0.15		0 0.00	0	2 0.15	
Anophthalmia/ microphthalmia	4 0.85	0 0.00	3 0.45		0 0.00	0	7 0.52	
Anotia/microtia	4 0.85	4 16.21	10 1.48		6 4.52	0	24 1.77	1996: Includes 744
Aortic valve stenosis	3 0.64	0 0.00	4 0.59		1 0.75	0	8 0.59	
Atrial septal defect	108 22.90	2 8.10	125 18.56		44 33.16	3	282 20.79	
Biliary atresia	1 0.21	0 0.00	1 0.15		2 1.51	1	5 0.37	
Bladder exstrophy	3 0.64	0 0.00	1 0.15		0 0.00	0	4 0.29	
Choanal atresia	2 0.42	1 4.05	0 0.00		0 0.00	0	3 0.22	
Cleft lip with and without cleft palate	81 17.17	2 8.10	113 16.78		57 42.95	6	259 19.10	1996, 1998– 2000: Includes 749
Cleft palate without cleft lip	8 1.70	1 4.05	22 3.27		7 5.28	0	38 2.80	
Coarctation of aorta	11 2.33	0 0.00	4 0.59		0 0.00	0	15 1.11	
Common truncus	0 0.00	0 0.00	0 0.00		0 0.00	0	0 0.00	
Congenital cataract	5 1.06	0 0.00	7 1.04		3 2.26	0	15 1.11	
Congenital hip dislocation	148 31.38	4 16.21	215 31.93		93 70.08	7	467 34.43	1996–1998: Includes 754
Diaphragmatic hernia	9 1.91	0 0.00	23 3.42		10 7.54	1	43 3.17	
Down syndrome	50 10.60	1 4.05	67 9.95		18 13.56	0	136 10.03	
Ebstein's anomaly	4 0.85	0 0.00	6 0.89		1 0.75	0	7 0.52	
Encephalocele	1 0.21	0 0.00	1 0.15		1 0.75	1	4 0.29	
Endocardial cushion defect	6 1.27	1 4.05	5 0.74		0 0.00	0	12 0.88	
Esophageal atresia/ tracheoesophageal fistula	3 0.64	0 0.00	11 1.63		2 1.51	0	16 1.18	
Fetal alcohol syndrome	6 1.27	0 0.00	8 1.19		2 1.51	0	16 1.18	
Hirschsprung's disease (congenital megacolon)	12 2.54	0 0.00	8 1.19		0 0.00	0	20 1.47	

New Mexico

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Hydrocephalus without Spina Bifida	33 7.00	1 4.05	42 6.24		14 10.55	0	90 6.64	
Hypoplastic left heart syndrome	9 1.91	0 0.00	4 0.59		3 2.26	0	16 1.18	
Hypospadias and Epispadias	62 13.15	4 16.21	48 7.13		8 6.03	1	123 9.07	
Microcephalus	44 9.33	0 0.00	59 8.76		7 5.28	1	111 8.18	
Obstructive genitourinary defect	22 4.66	2 8.10	29 4.31		6 4.52	0	59 4.35	
Patent ductus arteriosus	60 20.70	6 40.60	85 21.36		25 25.44	2	178 21.90	
Pulmonary valve atresia and stenosis	19 4.03	0 0.00	34 5.05		5 3.77	1	59 4.35	
Pyloric stenosis	13 2.76	0 0.00	38 5.64		8 6.03	0	59 4.35	
Rectal and large intestinal atresia/stenosis	21 4.45	0 0.00	23 3.42		9 6.78	0	53 3.91	
Reduction deformity, lower limbs	8 1.70	1 4.05	17 2.52		6 4.52	1	33 2.43	
Reduction deformity, upper limbs	13 2.76	0 0.00	25 3.71		6 4.52	1	45 3.32	
Renal agenesis/hypoplasia	9 1.91	2 8.10	4 0.59		1 0.75	0	16 1.18	
Spina bifida without anencephalus	29	2	42		4	3	80	1996–1997, 1999–2000: Includes 741; 1998: Includes 741 and prenatally diagnosed
	6.15	8.10	6.24		3.01		5.90	
Tetralogy of Fallot	13 2.76	1 4.05	31 4.60		9 6.78	0	54 3.98	
Transposition of great arteries	11 2.33	0 0.00	9 1.34		3 2.26	0	26 1.92	
Tricuspid valve atresia and stenosis	6 1.27	0 0.00	7 1.04		1 0.75	0	14 1.03	
Trisomy 13	3 0.64	0 0.00	9 1.34		2 1.51	0	14 1.03	
Trisomy 18	3 0.64	0 0.00	6 0.89		3 2.26	0	12 0.88	
Ventricular septal defect	184 39.01	7 28.36	267 39.65		99 74.60	7	564 41.59	
Total Live Births	47,163	2,468	67,342		13,270		135,618	

New Mexico

Trisomy Counts and Rates by Maternal Age 1996–2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	100 8.25	36 25.06	136 10.03
Trisomy 13	8 0.66	6 4.18	14 1.03
Trisomy 18	11 0.91	1 0.70	12 0.88
Total Live Births	121,250	14,368	135,618

*Total includes unknown age.

*Total includes unknown age.

Notes:

1. Patent ductus arteriosus data for 1999–2000 not available.

New York

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Amniotic bands	20 0.29	4 0.17	5 0.19	1 0.12	0 0.00	0	30 0.23	
Anencephalus	29 0.42	10 0.41	14 0.54	3 0.36	1 3.22	1	58 0.45	
Aniridia	7 0.13	3 0.15	3 0.14	1 0.15	0 0.00	0	14 0.11	
Anophthalmia/ microphthalmia	59 0.85	26 1.07	23 0.88	5 0.60	0 0.00	0	113 0.87	
Anotia/microtia	55 0.79	7 0.29	27 1.03	6 0.71	0 0.00	2	97 0.75	
Aortic valve stenosis	142 2.05	15 0.62	22 0.84	5 0.60	0 0.00	3	187 1.45	
Atrial septal defect	1,584 22.86	1,149 47.48	653 25.01	201 23.95	5 16.11	25	3,617 28.00	
Biliary atresia	48 0.69	37 1.53	20 0.77	15 1.79	1 3.22	1	122 0.94	
Bladder exstrophy	23 0.33	3 0.12	6 0.23	0 0.00	0 0.00	0	32 0.25	
Choanal atresia	139 2.01	24 0.99	44 1.69	6 0.71	0 0.00	1	214 1.66	
Cleft lip with and without cleft palate	559 8.07	100 4.13	154 5.90	65 7.74	2 6.44	12	892 6.90	
Cleft palate without cleft lip	431 6.22	90 3.72	131 5.02	48 5.72	1 3.22	4	705 5.46	
Coarctation of aorta	302 4.36	74 3.06	77 2.95	23 2.74	4 12.89	4	484 3.75	
Common truncus	46 0.66	18 0.74	16 0.61	2 0.24	0 0.00	0	82 0.63	
Congenital cataract	104 1.50	29 1.20	21 0.80	8 0.95	0 0.00	0	162 1.25	
Congenital hip dislocation	954 13.77	136 5.62	320 12.26	129 15.37	3 9.66	4	1,546 11.97	
Diaphragmatic hernia	110 1.59	34 1.40	32 1.23	12 1.43	1 3.22	1	190 1.47	
Down syndrome	784 11.32	230 9.50	242 9.27	60 7.15	3 9.66	9	1,328 10.28	
Ebstein's anomaly	39 0.56	6 0.25	13 0.50	5 0.60	0 0.00	1	64 0.50	
Encephalocele	42 0.61	17 0.70	26 1.00	3 0.36	1 3.22	0	89 0.69	
Endocardial cushion defect	213 3.07	75 3.10	37 1.42	16 1.91	0 0.00	1	342 2.65	
Esophageal atresia/ tracheoesophageal fistula	188 2.71	41 1.69	41 1.57	5 0.60	1 3.22	1	277 2.14	
Gastroschisis	88 1.27	29 1.20	34 1.30	3 0.36	0 0.00	0	154 1.19	
Hirschsprung's disease (congenital megacolon)	127 1.83	57 2.36	49 1.88	17 2.03	1 3.22	1	252 1.95	
Hydrocephalus without Spina Bifida	417 6.02	250 10.33	196 7.51	49 5.84	1 3.22	9	922 7.14	
Hypoplastic left heart syndrome	124 1.79	53 2.19	50 1.91	3 0.36	0 0.00	2	232 1.80	

New York

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Hypospadias and Epispadias	2,781 40.14	674 27.85	491 18.81	178 21.21	8 25.77	19	4,151 32.13	
Microcephalus	236 3.41	213 8.80	145 5.55	48 5.72	2 6.44	0	644 4.98	
Obstructive genitourinary defect	1,747 25.22	420 17.35	620 23.75	220 26.21	2 6.44	13	3,022 23.39	
Omphalocele	70 1.01	42 1.74	21 0.80	6 0.71	0 0.00	2	141 1.09	
Patent ductus arteriosus	276 3.98	179 7.40	115 4.40	36 4.29	1 3.22	4	611 4.73	
Pulmonary valve atresia and stenosis	527 7.61	323 13.35	198 7.58	41 4.88	1 3.22	8	1,098 8.50	
Pyloric stenosis	1,448 20.90	221 9.13	530 20.30	56 6.67	3 9.66	4	2,262 17.51	
Rectal and large intestinal atresia/stenosis	275 3.97	68 2.81	90 3.45	29 3.45	1 3.22	2	465 3.60	
Reduction deformity, lower limbs	77 1.11	36 1.49	25 0.96	5 0.60	0 0.00	1	144 1.11	
Reduction deformity, upper limbs	151 2.18	34 1.40	47 1.80	8 0.95	0 0.00	1	241 1.87	
Renal agenesis/hypoplasia	234 3.38	62 2.56	70 2.68	12 1.43	1 3.22	3	382 2.96	
Spina bifida without anencephalus	139 2.01	55 2.27	85 3.26	18 2.14	0 0.00	1	298 2.31	
Tetralogy of Fallot	267 3.85	100 4.13	90 3.45	37 4.41	1 3.22	7	502 3.89	
Transposition of great arteries	285 4.11	67 2.77	72 2.76	25 2.98	2 6.44	5	456 3.53	
Tricuspid valve atresia and stenosis	57 0.82	31 1.28	27 1.03	6 0.71	1 3.22	0	122 0.94	
Trisomy 13	42 0.61	22 0.91	26 1.00	7 0.83	0 0.00	1	98 0.76	
Trisomy 18	4 0.06	8 0.33	6 0.23	0 0.00	0 0.00	0	18 0.14	
Ventricular septal defect	2,588 37.36	759 31.36	840 32.17	267 31.81	11 35.44	24	4,489 34.75	
Total Live Births	692,785	242,022	261,100	83,938	3,104		1,291,911	

New York

Trisomy Counts and Rates by Maternal Age 1996–2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	732	595	1,328
	6.86	26.55	10.28
Trisomy 13	65	33	98
	0.61	1.47	0.76
Trisomy 18	14	4	18
	0.13	0.18	0.14
Total Live Births	1,067,500	224,123	1,291,911

*Total includes unknown age.

North Carolina

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Anencephalus	58 1.64	23 1.64	22 5.18	2 1.72	1 1.21	6	112 2.01	
Aniridia	41 1.16	18 1.29	6 1.41	2 1.72	1 1.21	0	68 1.22	
Anophthalmia/ microphthalmia	58 1.64	17 1.21	5 1.18	1 0.86	2 2.41	0	83 1.49	
Anotia/microtia	175 4.94	107 7.64	45 10.60	11 9.46	6 7.24	0	344 6.18	
Aortic valve stenosis	77 2.17	23 1.64	6 1.41	1 0.86	0 0.00	0	107 1.92	
Atrial septal defect	1,211 34.18	647 46.22	197 46.39	33 28.37	37 44.67	1	2,126 38.17	
Biliary atresia	65 1.83	37 2.64	8 1.88	3 2.58	4 4.83	1	118 2.12	
Bladder exstrophy	21 0.59	8 0.57	1 0.24	1 0.86	1 1.21	0	32 0.57	
Choanal atresia	67 1.89	29 2.07	8 1.88	0 0.00	2 2.41	0	106 1.90	
Cleft lip with and without cleft palate	379 10.70	88 6.29	37 8.71	20 17.19	10 12.07	3	537 9.64	
Cleft palate without cleft lip	242 6.83	72 5.14	31 7.30	4 3.44	8 9.66	0	357 6.41	
Coarctation of aorta	208 5.87	76 5.43	23 5.42	1 0.86	3 3.62	0	311 5.58	
Common truncus	36 1.02	13 0.93	6 1.41	0 0.00	1 1.21	0	56 1.01	
Congenital cataract	59 1.67	25 1.79	7 1.65	4 3.44	5 6.04	0	100 1.80	
Congenital hip dislocation	627 17.69	83 5.93	95 22.37	11 9.46	16 19.32	1	833 14.95	
Diaphragmatic hernia	119 3.36	51 3.64	18 4.24	4 3.44	4 4.83	0	196 3.52	
Down syndrome	420 11.85	168 12.00	82 19.31	13 11.18	4 4.83	2	689 12.37	
Ebstein's anomaly	21 0.59	2 0.14	1 0.24	1 0.86	1 1.21	0	26 0.47	
Encephalocele	39 1.10	23 1.64	10 2.35	3 2.58	0 0.00	2	77 1.38	
Endocardial cushion defect	132 3.73	58 4.14	21 4.95	4 3.44	2 2.41	1	218 3.91	
Esophageal atresia/ tracheoesophageal fistula	122 3.44	43 3.07	14 3.30	2 1.72	5 6.04	1	187 3.36	
Gastroschisis	67 4.60	17 2.96	10 4.49	0 0.00	3 8.78	1	98 4.19	1999–2000 data
Hirschsprung's disease (congenital megacolon)	99 2.79	54 3.86	7 1.65	4 3.44	2 2.41	0	166 2.98	
Hydrocephalus without Spina Bifida	343 9.68	191 13.64	35 8.24	14 12.04	8 9.66	1	592 10.63	
Hypoplastic left heart syndrome	108 3.05	42 3.00	11 2.59	1 0.86	1 1.21	2	165 2.96	
Hypospadias and Epispadias	1,861 52.52	700 50.01	126 29.67	64 55.02	51 61.57	1	2,803 50.32	

North Carolina

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Microcephalus	178 5.02	127 9.07	36 8.48	8 6.88	4 4.83	1	354 6.36	
Obstructive genitourinary defect	716 20.21	262 18.72	81 19.07	18 15.47	19 22.94	1	1,097 19.69	
Omphalocele	19 1.31	15 2.61	2 0.90	1 1.92	1 2.93	1	39 1.67	1999–2000 data
Patent ductus arteriosus	1,216 34.32	662 47.29	174 40.97	33 28.37	29 35.01	0	2,114 37.95	
Pulmonary valve atresia and stenosis	402 11.35	225 16.07	61 14.36	11 9.46	12 14.49	0	711 12.76	
Pyloric stenosis	933 26.33	169 12.07	66 15.54	1 0.86	12 14.49	1	1,182 21.22	
Rectal and large intestinal atresia/stenosis	188 5.31	77 5.50	25 5.89	5 4.30	11 13.28	0	306 5.49	
Reduction deformity, lower limbs	63 1.78	25 1.79	6 1.41	3 2.58	3 3.62	0	100 1.80	
Reduction deformity, upper limbs	105 2.96	51 3.64	9 2.12	3 2.58	2 2.41	2	172 3.09	
Renal agenesis/hypoplasia	176 4.97	59 4.21	15 3.53	2 1.72	2 2.41	2	256 4.60	
Spina bifida without anencephalus	189 5.33	50 3.57	40 9.42	4 3.44	2 2.41	6	291 5.22	
Tetralogy of Fallot	183 5.16	91 6.50	14 3.30	5 4.30	5 6.04	1	299 5.37	
Transposition of great arteries	165 4.66	60 4.29	24 5.65	5 4.30	5 6.04	1	260 4.67	
Tricuspid valve atresia and stenosis	37 1.04	16 1.14	3 0.71	0 0.00	2 2.41	1	59 1.06	
Trisomy 13	46 1.30	33 2.36	12 2.83	3 2.58	0 0.00	5	99 1.78	
Trisomy 18	86 2.43	35 2.50	11 2.59	2 1.72	0 0.00	2	136 2.44	
Ventricular septal defect	1,381 38.97	539 38.50	222 52.28	35 30.09	41 49.50	1	2,219 39.84	
Total Live Births	354,338	139,983	42,465	11,632	8,283		557,010	

North Carolina

Trisomy Counts and Rates by Maternal Age 1996–2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	460 9.22	229 39.61	689 12.37
Trisomy 13	75 1.50	20 3.46	99 1.78
Trisomy 18	95 1.90	40 6.92	136 2.44
Total Live Births	499,176	57,816	557,010

*Total includes unknown age.

North Dakota

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Anencephalus							10 2.50	
Aortic valve stenosis							14 3.50	
Atrial septal defect							141 35.45	
Cleft lip with and without cleft palate							57 14.27	
Cleft palate without cleft lip							27 6.76	
Coarctation of aorta							21 5.26	
Common truncus							8 2.00	
Ebstein's anomaly							3 0.75	
Endocardial cushion defect							15 3.76	
Hypoplastic left heart syndrome							12 3.00	
Patent ductus arteriosus							151 37.80	
Pulmonary valve atresia and stenosis							63 15.77	
Spina bifida without anencephalus							28 7.01	
Tetralogy of Fallot							20 5.01	
Transposition of great arteries							12 3.00	
Tricuspid valve atresia and stenosis							3 0.75	
Ventricular septal defect							193 48.53	
Total Live Births							39,945	

Oklahoma

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Amniotic bands	20 1.16	3 1.30	3 1.67	0 0.00	2 0.85	0	28 1.16	
Anencephalus	43 2.50	5 2.16	3 1.67	0 0.00	5 2.12	2	58 2.40	
Aniridia	5 0.29	0 0.00	0 0.00	0 0.00	0 0.00	0	5 0.21	
Anophthalmia/ microphthalmia	33 1.92	3 1.30	1 0.56	0 0.00	4 1.70	0	41 1.70	
Anotia/microtia	2 0.12	0 0.00	0 0.00	0 0.00	0 0.00	0	2 0.08	
Aortic valve stenosis	66 3.84	5 2.16	6 3.34	0 0.00	5 2.12	0	82 3.39	
Atrial septal defect	797 46.33	100 43.29	58 32.32	6 14.01	118 50.06	10	1,089 45.04	
Biliary atresia	16 0.93	3 1.30	0 0.00	0 0.00	1 0.42	0	20 0.83	
Bladder exstrophy	6 0.35	1 0.43	0 0.00	0 0.00	0 0.00	0	7 0.29	
Choanal atresia	31 1.80	5 2.16	4 2.23	0 0.00	5 2.12	0	45 1.86	
Cleft lip with and without cleft palate	234 13.60	18 7.79	16 8.92	5 11.68	27 11.46	0	300 12.41	
Cleft palate without cleft lip	136 7.91	9 3.90	11 6.13	2 4.67	13 5.52	0	171 7.07	
Coarctation of aorta	78 4.53	7 3.03	6 3.34	2 4.67	5 2.12	1	99 4.09	
Common truncus	11 0.64	3 1.30	1 0.56	1 2.34	2 0.85	0	18 0.74	
Congenital cataract	34 1.98	2 0.87	3 1.67	1 2.34	4 1.70	2	46 1.90	
Congenital hip dislocation	153 8.89	6 2.60	8 4.46	2 4.67	18 7.64	0	187 7.73	
Diaphragmatic hernia	79 4.59	3 1.30	4 2.23	1 2.34	10 4.24	1	98 4.05	
Down syndrome	231 13.43	22 9.52	31 17.27	8 18.68	21 8.91	5	318 13.15	
Ebstein's anomaly	12 0.70	0 0.00	2 1.11	2 4.67	0 0.00	0	16 0.66	
Encephalocele	20 1.16	3 1.30	2 1.11	0 0.00	4 1.70	0	29 1.20	
Endocardial cushion defect	72 4.19	14 6.06	6 3.34	0 0.00	7 2.97	1	100 4.14	
Esophageal atresia/ tracheoesophageal fistula	54 3.14	6 2.60	4 2.23	2 4.67	9 3.82	0	75 3.10	
Fetal alcohol syndrome	7 0.41	3 1.30	0 0.00	0 0.00	4 1.70	0	14 0.58	
Gastroschisis	80 4.65	3 1.30	2 1.11	0 0.00	8 3.39	1	94 3.89	
Hirschsprung's disease (congenital megacolon)	41 2.38	7 3.03	0 0.00	1 2.34	2 0.85	0	51 2.11	
Hydrocephalus without Spina Bifida	145 8.43	19 8.23	9 5.01	1 2.34	17 7.21	0	191 7.90	

Oklahoma

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Hypoplastic left heart syndrome	38 2.21	6 2.60	2 1.11	0 0.00	6 2.55	0	52 2.15	
Hypospadias and Epispadias	537 31.21	60 25.98	32 17.83	5 11.68	35 14.85	3	672 27.79	
Microcephalus	168 9.77	28 12.12	14 7.80	3 7.01	32 13.58	2	247 10.22	
Obstructive genitourinary defect	365 21.22	25 10.82	45 25.07	13 30.36	41 17.39	4	493 20.39	
Omphalocele	43 2.50	8 3.46	2 1.11	2 4.67	9 3.82	0	64 2.65	
Pulmonary valve atresia and stenosis	114 6.63	9 3.90	12 6.69	2 4.67	21 8.91	2	160 6.62	
Pyloric stenosis	420 24.41	16 6.93	27 15.04	1 2.34	47 19.94	1	512 21.17	
Rectal and large intestinal atresia/stenosis	139 8.08	13 5.63	10 5.57	3 7.01	28 11.88	2	195 8.06	
Reduction deformity, lower limbs	31 1.80	2 0.87	4 2.23	1 2.34	3 1.27	0	41 1.70	
Reduction deformity, upper limbs	54 3.14	10 4.33	7 3.90	0 0.00	9 3.82	2	82 3.39	
Renal agenesis/hypoplasia	91 5.29	10 4.33	7 3.90	1 2.34	8 3.39	1	118 4.88	
Spina bifida without anencephalus	88 5.12	9 3.90	11 6.13	2 4.67	12 5.09	0	122 5.05	
Tetralogy of Fallot	78 4.53	6 2.60	7 3.90	4 9.34	9 3.82	0	104 4.30	
Transposition of great arteries	86 5.00	4 1.73	10 5.57	0 0.00	9 3.82	1	110 4.55	
Tricuspid valve atresia and stenosis	13 0.76	1 0.43	3 1.67	0 0.00	1 0.42	0	18 0.74	
Trisomy 13	33 1.92	4 1.73	3 1.67	1 2.34	0 0.00	0	41 1.70	
Trisomy 18	42 2.44	8 3.46	2 1.11	2 4.67	3 1.27	1	58 2.40	
Ventricular septal defect	780 45.34	76 32.90	85 47.36	19 44.37	99 42.00	7	1,066 44.09	
Total Live Births	172,034	23,098	17,947	4,282	23,570		241,797	

Oklahoma

Trisomy Counts and Rates by Maternal Age 1996–2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	207 9.35	110 55.49	318 13.15
Trisomy 13	33 1.49	8 4.04	41 1.70
Trisomy 18	38 1.72	20 10.09	58 2.40
Total Live Births	221,393	19,823	241,797

*Total includes unknown age.

Puerto Rico

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Anencephalus			106 3.45				106 3.45	
Cleft lip with and without cleft palate			70 5.88				70 5.88	
Cleft palate without cleft lip			37 3.11				37 3.11	
Encephalocele			28 0.91				28 0.91	
Spina bifida without anencephalus			214 6.97				214 6.97	
Total Live Births			307,135				307,135	

Rhode Island

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Amniotic bands	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0	0 0.00	
Anencephalus	3 0.88	0 0.00	0 0.00	0 0.00	0 0.00	1	4 0.68	
Aniridia	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0	0 0.00	Data Missing
Anophthalmia/ microphthalmia	3 0.88	1 2.87	0 0.00	1 7.51	0 0.00	0	5 0.85	
Anotia/microtia	2 0.80	1 3.71	1 2.15	0 0.00	0 0.00	0	4 0.68	
Aortic valve stenosis	3 0.90	1 3.71	1 1.70	0 0.00	0 0.00	0	5 0.85	
Atrial septal defect	232 55.03	43 99.91	47 66.08	11 67.48	1 227.27	14	348 59.11	
Biliary atresia	0 0.00	0 0.00	1 2.15	0 0.00	0 0.00	0	1 0.17	
Bladder exstrophy	1 0.40	0 0.00	0 0.00	0 0.00	0 0.00	0	1 0.17	
Choanal atresia	6 1.77	0 0.00	2 4.30	0 0.00	0 0.00	0	8 1.36	
Cleft lip with and without cleft palate	32 7.59	3 8.62	4 6.81	1 10.01	0 0.00	3	43 7.30	
Cleft palate without cleft lip	18 4.27	2 5.74	0 0.00	1 10.01	0 0.00	0	21 3.57	
Coarctation of aorta	8 1.90	0 0.00	1 1.70	0 0.00	0 0.00	0	9 1.53	
Common truncus	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0	0 0.00	Data Missing
Congenital cataract	6 1.42	1 2.84	2 4.30	0 0.00	0 0.00	2	11 1.87	
Congenital hip dislocation	63 14.94	4 11.49	6 12.91	1 7.51	0 0.00	6	80 13.59	
Diaphragmatic hernia	7 1.66	0 0.00	2 3.40	0 0.00	0 0.00	1	10 1.70	
Down syndrome	43 10.20	7 16.26	9 19.37	1 10.01	0 0.00	6	66 11.21	
Ebstein's anomaly	2 0.80	0 0.00	0 0.00	0 0.00	0 0.00	0	2 0.34	
Encephalocele	2 0.59	0 0.00	0 0.00	0 0.00	0 0.00	2	4 0.68	
Endocardial cushion defect	8 1.90	0 0.00	0 0.00	0 0.00	0 0.00	1	9 1.53	
Esophageal atresia/ tracheoesophageal fistula	8 1.90	1 3.71	1 2.15	0 0.00	0 0.00	0	10 1.70	
Fetal alcohol syndrome	3 0.88	3 8.52	0 0.00	0 0.00	1 227.27	2	9 1.53	
Gastroschisis	1 1.20	0 0.00	2 15.21	1 28.82	0 0.00	0	4 1.71	Total for gastroschisis & omphalocele
Hirschsprung's disease (congenital megacolon)	5 1.47	0 0.00	1 2.15	0 0.00	0 0.00	1	7 1.19	

Rhode Island

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Hydrocephalus without Spina Bifida	11 2.61	6 17.04	2 3.40	1 10.01	0 0.00	1	21 3.57	
Hypoplastic left heart syndrome	4 1.18	0 0.00	0 0.00	0 0.00	0 0.00	0	4 0.68	
Hypospadias and Epispadias	133 31.55	11 31.59	10 17.00	2 20.33	1 227.27	14	171 29.04	
Microcephalus	6 1.80	2 5.68	1 2.15	2 20.02	0 0.00	1	12 2.04	
Obstructive genitourinary defect	96 22.77	7 16.26	17 23.90	4 40.04	0 0.00	2	126 21.40	
Omphalocele							0	See gastrochisis
	1.20	0.00	15.21	28.82	0.00		0.00	
Patent ductus arteriosus	221 52.42	36 83.64	38 53.42	11 82.58	0 0.00	12	318 54.01	Unable to exclude birth weights
Pulmonary valve atresia and stenosis	63 14.94	17 39.50	7 9.84	2 20.02	0 0.00	2	91 15.46	
Pyloric stenosis	5 1.19	1 2.84	3 5.10	0 0.00	0 0.00	0	9 1.53	
Rectal and large intestinal atresia/stenosis	13 3.08	1 3.71	6 10.20	0 0.00	0 0.00	2	22 3.74	
Reduction deformity, lower limbs	4 0.95	1 3.71	0 0.00	0 0.00	0 0.00	0	5 0.85	
Reduction deformity, upper limbs	4 1.18	2 7.41	2 4.30	0 0.00	0 0.00	0	8 1.36	
Renal agenesis/hypoplasia	5 1.19	1 3.71	0 0.00	0 0.00	0 0.00	1	7 1.19	
Spina bifida without anencephalus	11 2.61	0 0.00	3 5.10	0 0.00	0 0.00	3	17 2.89	
Tetralogy of Fallot	9 2.69	3 8.62	5 7.03	1 10.01	0 0.00	1	19 3.23	
Transposition of great arteries	5 1.47	1 3.71	1 1.70	0 0.00	0 0.00	0	7 1.19	
Tricuspid valve atresia and stenosis	6 1.80	0 0.00	2 3.40	0 0.00	0 0.00	0	8 1.36	
Trisomy 13	1 0.40	1 2.84	0 0.00	0 0.00	0 0.00	0	2 0.34	
Trisomy 18	4 1.59	1 3.71	0 0.00	0 0.00	0 0.00	0	5 0.85	
Ventricular septal defect	201 47.68	19 44.14	26 36.55	10 61.35	1 175.44	18	275 46.71	
Total Live Births	42,156	4,304	7,113	1,630	67		58,877	

Rhode Island

Trisomy Counts and Rates by Maternal Age 1998–2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	19 6.27	22 37.01	42 11.59
Trisomy 13	0 0.00	1 1.68	1 0.28
Trisomy 18	2 0.66	1 1.68	5 1.38
Total Live Births	30,292	5,945	36,246

*Total includes unknown age.

Notes:

1. One RI Hospital failed to code approximately 500 births/year for years '96, '97 & '98.

South Carolina

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity					Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native		
Anencephalus	81 4.78	31 3.25	5 7.72			2 119 4.30	
Encephalocele	28 1.65	13 1.36				41 1.48	
Spina bifida without anencephalus	75 4.43	29 3.04	5 6.67		1	109 3.93	
Total Live Births	169,424	95,466	7,493			277,032	

Tennessee

Birth Defects Counts and Rates 2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Anencephalus	5 0.90	1 0.55	0 0.00	0 0.00	0 0.00	0	6 0.75	
Aniridia	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0	0 0.00	
Anophthalmia/ microphthalmia	4 0.72	0 0.00	1 2.41	1 7.05	0 0.00	1	7 0.88	
Anotia/microtia	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0	0 0.00	
Aortic valve stenosis	11 1.98	1 0.55	0 0.00	0 0.00	0 0.00	0	12 1.51	
Atrial septal defect	175 31.52	56 30.89	3 7.23	2 14.10	0 0.00	16	252 31.68	
Biliary atresia	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0	0 0.00	
Bladder exstrophy	2 0.36	0 0.00	0 0.00	0 0.00	0 0.00	0	2 0.25	
Choanal atresia	10 1.80	2 1.10	0 0.00	0 0.00	0 0.00	0	12 1.51	
Cleft lip with and without cleft palate	56 10.09	11 6.07	1 2.41	2 14.10	0 0.00	0	70 8.80	
Cleft palate without cleft lip	37 6.67	8 4.41	1 2.41	0 0.00	0 0.00	1	47 5.91	
Coarctation of aorta	19 3.42	5 2.76	0 0.00	0 0.00	0 0.00	0	24 3.02	
Common truncus	3 0.54	2 1.10	1 2.41	0 0.00	0 0.00	1	7 0.88	
Congenital cataract	2 0.36	1 0.55	0 0.00	0 0.00	0 0.00	0	3 0.38	
Congenital hip dislocation	58 10.45	5 2.76	3 7.23	0 0.00	0 0.00	8	74 9.30	
Diaphragmatic hernia	17 3.06	3 1.65	1 2.41	0 0.00	0 0.00	1	22 2.77	
Down syndrome	54 9.73	23 12.69	4 9.64	2 14.10	0 0.00	1	84 10.56	
Ebstein's anomaly	4 0.72	0 0.00	1 2.41	0 0.00	0 0.00	1	6 0.75	
Encephalocele	7 1.26	2 1.10	0 0.00	0 0.00	0 0.00	1	10 1.26	
Endocardial cushion defect	9 1.62	2 1.10	0 0.00	0 0.00	0 0.00	1	12 1.51	
Esophageal atresia/ tracheoesophageal fistula	14 2.52	6 3.31	1 2.41	0 0.00	0 0.00	0	21 2.64	
Fetal alcohol syndrome	16 2.88	18 9.93	0 0.00	0 0.00	0 0.00	2	36 4.53	
Hirschsprung's disease (congenital megacolon)	17 3.06	1 0.55	0 0.00	0 0.00	0 0.00	1	19 2.39	
Hydrocephalus without Spina Bifida	30 5.40	13 7.17	2 4.82	0 0.00	0 0.00	2	47 5.91	
Hypoplastic left heart syndrome	20 3.60	4 2.21	0 0.00	0 0.00	0 0.00	1	25 3.14	
Hypospadias and Epispadias	185 33.33	46 25.37	4 9.64	1 7.05	0 0.00	29	265 33.32	

Tennessee

Birth Defects Counts and Rates 2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Microcephalus	20 3.60	10 5.52	2 4.82	0 0.00	0 0.00	0	32 4.02	
Obstructive genitourinary defect	8 1.44	4 2.21	0 0.00	1 7.05	0 0.00	0	13 1.63	
Patent ductus arteriosus	140 25.22	57 31.44	11 26.52	3 21.16	0 0.00	0	211 26.53	birthweight = 2500
Pulmonary valve atresia and stenosis	7 1.26	5 2.76	0 0.00	0 0.00	0 0.00	3	15 1.89	
Pyloric stenosis	160 28.82	20 11.03	5 12.05	1 7.05	0 0.00	6	192 24.14	
Rectal and large intestinal atresia/stenosis	24 4.32	10 5.52	1 2.41	0 0.00	0 0.00	1	36 4.53	
Reduction deformity, lower limbs	5 0.90	2 1.10	1 2.41	0 0.00	0 0.00	0	8 1.01	
Reduction deformity, upper limbs	12 2.16	4 2.21	0 0.00	0 0.00	0 0.00	1	17 2.14	
Renal agenesis/hypoplasia	20 3.60	6 3.31	2 4.82	0 0.00	0 0.00	1	24 3.65	
Spina bifida without anencephalus	17 3.06	5 2.76	1 2.41	0 0.00	0 0.00	1	13 3.02	
Tetralogy of Fallot	25 4.50	8 4.41	1 2.41	0 0.00	0 0.00	0	34 4.27	
Transposition of great arteries	18 3.24	5 2.76	1 2.41	0 0.00	0 0.00	1	25 3.14	
Tricuspid valve atresia and stenosis	7 1.26	0 0.00	0 0.00	0 0.00	0 0.00	1	8 1.01	
Trisomy 13	5 0.90	2 1.10	0 0.00	0 0.00	0 0.00	0	7 0.88	
Trisomy 18	9 1.62	5 2.76	1 2.41	0 0.00	0 0.00	2	17 2.14	
Ventricular septal defect	182 32.79	43 23.72	7 16.88	4 28.21	0 0.00	19	255 32.06	
Total Live Births	55,513	18,129	4,148	1,418	250		79,539	

Tennessee

Trisomy Counts and Rates by Maternal Age 2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	44 6.20	24 27.96	84 10.56
Trisomy 13	6 0.85	1 1.17	7 0.88
Trisomy 18	8 1.13	5 5.83	17 2.14
Total Live Births	70,956	8,583	79,539

*Total includes unknown age.

Notes:

1. Total live births and birth weight are from the Vital Statistics System. Diagnostic data are from the Hospital Discharge Data System. As there is no direct link between systems a constrained probabilistic matching algorithm was used to assess birthweight and amend 'unknown' race classifications in the diagnostic data. However, a number of records failed to match. Modifications to the Vital Statistics System will support a direct link beginning in 2004.

2. Data are for live births only and based on ICD-9.

Texas

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Amniotic bands	29 0.58	11 0.78	55 0.89	3 0.80	1 3.49	2	100 0.77	
Anencephalus	132 2.62	24 1.71	241 3.89	7 1.87	0 0.00	7	411 3.15	
Aniridia	5 0.10	1 0.07	3 0.05	0 0.00	0 0.00	0	9 0.07	
Anophthalmia/ microphthalmia	127 2.53	32 2.28	198 3.20	5 1.33	1 3.49	0	363 2.78	
Anotia/microtia	83 1.65	18 1.28	241 3.89	5 1.33	2 6.98	0	349 2.67	
Aortic valve stenosis	144 2.86	19 1.35	139 2.24	5 1.33	1 3.49	0	308 2.36	
Atrial septal defect	1,926 38.30	526 37.49	2,608 42.09	110 29.36	13 45.39	8	5,191 39.77	
Biliary atresia	19 0.38	15 1.07	42 0.68	8 2.13	0 0.00	0	84 0.64	
Bladder exstrophy	13 0.26	1 0.07	13 0.21	0 0.00	0 0.00	0	27 0.21	
Choanal atresia	57 1.13	11 0.78	88 1.42	2 0.53	0 0.00	0	158 1.21	
Cleft lip with and without cleft palate	521 10.36	101 7.20	748 12.07	47 12.54	7 24.44	1	1,425 10.92	
Cleft palate without cleft lip	362 7.20	58 4.13	336 5.42	24 6.40	4 13.97	1	785 6.01	
Coarctation of aorta	260 5.17	42 2.99	270 4.36	13 3.47	0 0.00	0	585 4.48	
Common truncus	36 0.72	10 0.71	50 0.81	5 1.33	0 0.00	0	101 0.77	
Congenital cataract	59 1.17	22 1.57	91 1.47	0 0.00	0 0.00	0	172 1.32	
Congenital hip dislocation	291 5.79	43 3.06	335 5.41	10 2.67	1 3.49	0	680 5.21	
Diaphragmatic hernia	138 2.74	34 2.42	161 2.60	7 1.87	1 3.49	1	342 2.62	
Down syndrome	573 11.39	102 7.27	793 12.80	42 11.21	2 6.98	14	1,526 11.69	
Ebstein's anomaly	30 0.60	3 0.21	47 0.74	4 1.07	0 0.00	0	83 0.64	
Encephalocele	43 0.86	15 1.07	74 1.19	6 1.60	0 0.00	0	138 1.06	
Endocardial cushion defect	195 3.88	70 4.99	205 3.31	9 2.40	1 3.49	3	483 3.70	
Esophageal atresia/ tracheoesophageal fistula	125 2.49	22 1.57	127 2.05	3 0.80	1 3.49	0	278 2.13	
Fetal alcohol syndrome	13 0.26	6 0.43	10 0.16	0 0.00	0 0.00	0	29 0.22	
Gastroschisis	176 3.50	32 2.28	276 4.45	9 2.40	3 10.47	1	497 3.81	
Hirschsprung's disease (congenital megacolon)	78 1.55	40 2.85	49 0.79	4 1.07	1 3.49	0	172 1.32	
Hydrocephalus without Spina Bifida	365 7.26	127 9.05	477 7.70	21 5.60	1 3.49	3	994 7.62	

Texas

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Hypoplastic left heart syndrome	118 2.35	18 1.28	127 2.05	8 2.13	0 0.00	3	274 2.10	
Hypospadias and Epispadias	1,861 37.01	461 32.86	1,101 17.77	88 23.48	4 13.97	4	3,519 26.96	
Microcephalus	239 4.75	144 10.26	415 6.70	27 7.21	2 6.98	1	828 6.34	
Obstructive genitourinary defect	996 19.81	241 17.18	1,154 18.63	59 15.75	6 20.95	4	2,460 18.85	
Omphalocele	112 2.23	39 2.78	129 2.08	7 1.87	2 6.98	6	295 2.26	
Patent ductus arteriosus	2,032 40.41	568 40.49	3,151 50.86	137 36.56	11 38.41	6	5,905 45.25	
Pulmonary valve atresia and stenosis	295 5.87	90 6.42	378 6.10	20 5.34	6 20.95	2	791 6.06	
Pyloric stenosis	1,075 21.38	104 7.41	1,199 19.35	15 4.00	2 6.98	1	2,396 18.36	
Rectal and large intestinal atresia/stenosis	201 4.00	66 4.70	326 5.26	10 2.67	1 3.49	1	605 4.64	
Reduction deformity, lower limbs	70 1.39	35 2.49	117 1.89	6 1.60	1 3.49	2	231 1.77	
Reduction deformity, upper limbs	193 3.84	53 3.78	277 4.47	13 3.47	2 6.98	1	539 4.13	
Renal agenesis/hypoplasia	245 4.87	77 5.49	323 5.21	12 3.20	1 3.49	1	659 5.05	
Spina bifida without anencephalus	180 3.58	44 3.14	322 5.20	5 1.33	2 6.98	5	558 4.28	
Tetralogy of Fallot	145 2.88	37 2.64	187 3.02	14 3.74	0 0.00	1	384 2.94	
Transposition of great arteries	261 5.19	51 3.64	299 4.83	12 3.20	2 6.98	1	626 4.80	
Tricuspid valve atresia and stenosis	94 1.87	37 2.64	130 2.10	10 2.67	1 3.49	0	272 2.08	
Trisomy 13	52 1.03	22 1.57	78 1.26	6 1.60	0 0.00	3	161 1.23	
Trisomy 18	122 2.43	28 2.00	126 2.03	14 3.74	1 3.49	9	300 2.30	
Ventricular septal defect	1,817 36.13	435 31.01	3,014 48.65	99 26.42	7 24.44	7	5,379 41.22	
Total Live Births	502,880	140,296	619,565	37,472	2,864	2,016	1,305,093	

Texas

Trisomy Counts and Rates by Maternal Age 1996–2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	917 7.82	609 46.24	1,526 11.69
Trisomy 13	107 0.91	54 4.10	161 1.23
Trisomy 18	170 1.45	130 9.87	300 2.30
Total Live Births	1,173,182	131,690	1,305,093

*Total includes unknown age.

Notes:

1. The Birth Defects Registry covered small parts of Texas at first and gradually expanded to cover the entire State beginning with deliveries in January 1999.
2. Coding system used: CDC/BPA.
3. Pregnancy outcomes included: live births, pregnancy terminations, and stillbirths/spontaneous fetal deaths. The first two are at any gestational age. The last has been at 20 weeks GA and above for most of the deliveries in 1996–2000. However, we recently began collecting spontaneous fetal deaths at any gestational age. That change should have a very small impact on the data.
4. Possible/probable diagnoses are excluded.
5. Data for deliveries in 2000 should be considered provisional.

Utah

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Amniotic bands	4	0	2	0	0	0	6	'99-'00 data; 1999: Collect as part of specific bd
	0.52	0.00	1.75	0.00	0.00		0.64	
Anencephalus	39	0	8	0	1	5	53	1999: Includes 1 SAB
	2.09	0.00	3.26	0.00	3.14		2.37	
Aniridia	1	0	0	0	0	0	1	'99-'00 data
	0.13	0.00	0.00	0.00	0.00		0.11	
Anophthalmia/microphthalmia	16	0	5	0	0	0	21	'99-'00 data
	2.08	0.00	4.37	0.00	0.00		2.24	
Anotia/microtia	35	0	0	1	2	1	39	'99-'00 data
	4.54	0.00	0.00	3.61	15.82		4.17	
Aortic valve stenosis	50	0	6	1	1	0	58	'97-'00 data
	3.31	0.00	2.91	1.90	3.89		3.19	
Atrial septal defect	139	3	24	2	3	3	174	'99-'00 data
	18.04	52.72	20.99	7.22	23.73		18.59	
Biliary atresia	7	0	1	0	0	0	8	'99-'00 data
	0.91	0.00	0.87	0.00	0.00		0.85	
Bladder exstrophy	3	0	0	0	0	0	3	'99-'00 data
	0.39	0.00	0.00	0.00	0.00		0.32	
Choanal atresia	10	1	1	0	0	0	12	'99-'00 data
	1.30	17.57	0.87	0.00	0.00		1.28	
Cleft lip with and without cleft palate	267	2	42	6	4	6	327	
	14.29	14.36	17.12	11.43	12.54		14.61	
Cleft palate without cleft lip	150	1	17	4	6	2	180	
	8.03	7.18	6.93	7.62	18.81		8.04	
Coarctation of aorta	133	0	11	1	0	2	147	'97-'00 data
	8.80	0.00	5.34	1.90	0.00		8.09	
Common truncus	18	0	2	0	0	0	20	'97-'00 data
	1.19	0.00	0.97	0.00	0.00		1.10	
Congenital cataract	19	0	2	0	0	0	21	'99-'00 data
	2.47	0.00	1.75	0.00	0.00		2.24	
Diaphragmatic hernia	24	0	5	0	0	0	29	'99-'00 data
	3.11	0.00	4.37	0.00	0.00		3.10	
Down syndrome	280	2	34	9	1	5	331	
	14.99	14.36	13.86	17.14	3.14		14.79	
Ebstein's anomaly	7	0	0	0	0	0	7	'99-'00 data
	0.91	0.00	0.00	0.00	0.00		0.75	
Encephalocele	16	0	3	0	0	0	19	
	0.86	0.00	1.22	0.00	0.00		0.85	
Endocardial cushion defect	61	0	7	2	0	0	70	'99-'00 data
	7.92	0.00	6.12	7.12	0.00		7.48	
Esophageal atresia/tracheoesophageal fistula	19	0	4	0	1	0	24	'99-'00 data
	2.47	0.00	3.50	0.00	7.91		2.56	
Gastroschisis	65	0	9	2	2	1	79	'97-'00 data
	4.30	0.00	4.37	3.81	7.78		4.35	
Hirschsprung's disease (congenital megacolon)	12	0	5	2	0	1	20	'99-'00 data
	1.56	0.00	4.37	7.22	0.0		2.14	
Hydrocephalus without Spina Bifida	38	0	4	3	0	0	45	'99-'00 data
	4.93	0.00	3.50	10.82	0.00		4.81	

Utah

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Hypoplastic left heart syndrome	52 3.44	0 0.00	8 3.88	2 3.81	0 0.00	1	63 3.47	'97-'00 data
Hypospadias and Epispadias	248 32.18	1 17.57	15 13.12	7 25.25	1 7.91	1	273 29.17	'99-'00 data
Microcephalus	16 2.08	0 0.00	1 0.87	0 0.00	0 0.00	0	17 1.82	'99-'00 data
Obstructive genitourinary defect	150 19.47	1 17.57	17 14.87	6 21.65	3 23.73	0	177 18.92	'99-'00 data
Omphalocele	42 2.78	0 0.00	1 0.49	2 3.81	0 0.00	0	45 2.48	'97-'00 data
Pulmonary valve atresia and stenosis	80 5.29	1 9.32	12 5.83	2 3.81	1 3.89	1	97 5.34	'97-'00 data
Pyloric stenosis	107 13.89	0 0.00	15 13.12	0 0.00	0 0.00	1	123 13.14	'99-'00 data
Rectal and large intestinal atresia/stenosis	28 3.63	0 0.00	2 1.75	0 0.00	0 0.00	1	31 3.31	'99-'00 data
Reduction deformity, lower limbs	31 2.05	0 0.00	2 0.97	0 0.00	0 0.00	0	33 1.82	'97-'00 data
Reduction deformity, upper limbs	91 6.02	0 0.00	10 4.85	1 1.90	0 0.00	2	104 5.72	'97-'00 data; 1999: Some cases had both upper & lower LRD, counted in both
Renal agenesis/hypoplasia	26 3.37	0 0.00	1 0.87	1 3.61	0 0.00	0	28 2.99	'99-'00 data
Spina bifida without anencephalus	69 3.69	0 0.00	8 3.26	3 5.71	3 9.41	0	83 3.71	
Tetralogy of Fallot	58 3.84	1 9.32	5 2.43	2 3.81	0 0.00	0	66 3.63	'97-'00 data
Transposition of great arteries	79 5.23	0 0.00	13 6.31	3 5.71	2 7.78	0	97 5.34	'97-'00 data
Tricuspid valve atresia and stenosis	13 1.69	0 0.00	1 0.87	1 3.61	0 0.00	0	15 1.60	'99-'00 data
Trisomy 13	22 1.18	0 0.00	1 0.41	2 3.81	1 3.14	3	29 1.30	
Trisomy 18	69 3.69	0 0.00	8 3.26	4 7.62	1 3.14	5	87 3.89	
Ventricular septal defect	251 13.44	0 0.00	29 11.82	5 9.52	2 6.27	4	291 13.00	part of a multiple case only
Total Live Births	186,796	1,393	24,536	5,250	3,189		223,767	

Utah

Trisomy Counts and Rates by Maternal Age 1996–2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	192	139	331
	9.44	68.56	14.79
Trisomy 13	24	5	29
	1.18	2.47	1.30
Trisomy 18	55	32	87
	2.70	15.78	3.89
Total Live Births	203,422	20,273	223,767

*Total includes unknown age.

Virginia

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Anencephalus	30 0.98	8 0.75	4 1.33	1 0.47	0 0.00	0	43 0.92	
Aniridia	2 0.07	0 0.00	0 0.00	0 0.00	0 0.00	0	2 0.04	
Anophthalmia/ microphthalmia	18 0.59	6 0.56	2 0.66	0 0.00	0 0.00	0	26 0.56	
Anotia/microtia	9 0.29	6 0.56	2 0.66	2 0.94	0 0.00	0	19 0.41	
Aortic valve stenosis	31 1.01	7 0.65	1 0.33	3 1.41	0 0.00	0	42 0.90	
Atrial septal defect	820 26.81	246 23.02	108 35.82	66 31.02	3 37.64	7	1,250 26.74	
Biliary atresia	12 0.39	6 0.56	1 0.33	2 0.94	0 0.00	0	21 0.45	
Bladder exstrophy	9 0.29	0 0.00	0 0.00	0 0.00	0 0.00	0	9 0.19	
Choanal atresia	31 1.01	8 0.75	2 0.66	0 0.00	0 0.00	0	41 0.88	
Cleft lip with and without cleft palate	279 9.12	57 5.33	26 8.62	17 7.99	0 0.00	0	379 8.11	
Cleft palate without cleft lip	133 4.35	40 3.74	8 2.65	10 4.70	0 0.00	1	192 4.11	
Coarctation of aorta	140 4.58	28 2.62	6 1.99	7 3.29	0 0.00	1	182 3.89	
Common truncus	23 0.75	8 0.75	1 0.33	1 0.47	0 0.00	0	33 0.71	
Congenital cataract	25 0.82	4 0.37	1 0.33	0 0.00	0 0.00	0	30 0.64	
Congenital hip dislocation	370 12.10	40 3.74	22 7.30	13 6.11	0 0.00	4	449 9.61	
Diaphragmatic hernia	74 2.42	19 1.78	6 1.99	7 3.29	0 0.00	1	107 2.29	
Down syndrome	272 8.89	74 6.92	35 11.61	14 6.58	2 25.09	1	398 8.52	
Ebstein's anomaly	10 0.33	1 0.09	1 0.33	1 0.47	0 0.00	0	13 0.28	
Encephalocele	7 0.23	9 0.84	1 0.33	0 0.00	0 0.00	0	17 0.36	
Endocardial cushion defect	58 1.90	16 1.50	5 1.66	0 0.00	0 0.00	2	81 1.73	
Esophageal atresia/ tracheoesophageal fistula	70 2.29	15 1.40	6 1.99	2 0.94	0 0.00	1	94 2.01	
Fetal alcohol syndrome	28 0.92	36 3.37	6 1.99	0 0.00	1 12.55	1	72 1.54	
Hirschsprung's disease (congenital megacolon)	48 1.57	27 2.53	5 1.66	0 0.00	0 0.00	0	80 1.71	
Hydrocephalus without Spina Bifida	109 3.56	68 6.36	15 4.98	3 1.41	1 12.55	0	196 4.19	
Hypoplastic left heart syndrome	54 1.77	12 1.12	0 0.00	1 0.47	0 0.00	0	67 1.43	
Hypospadias and Epispadias	446 14.58	156 14.60	22 7.30	13 6.11	2 25.09	1	640 13.69	

Virginia

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Microcephalus	84 2.75	54 5.05	9 2.99	7 3.29	0 0.00	0	154 3.29	
Obstructive genitourinary defect	198 6.47	65 6.08	12 3.98	11 5.17	0 0.00	1	287 6.14	
Patent ductus arteriosus	1,378 45.05	701 65.59	162 53.73	98 46.06	6 75.28	10	2,355 50.39	
Pulmonary valve atresia and stenosis	247 8.08	141 13.19	22 7.30	18 8.46	1 12.55	3	432 9.24	
Pyloric stenosis	306 10.00	40 3.74	14 4.64	8 3.76	1 12.55	2	371 7.94	
Rectal and large intestinal atresia/stenosis	107 3.50	36 3.37	6 1.99	9 4.23	0 0.00	0	158 3.38	
Reduction deformity, lower limbs	31 1.01	12 1.12	3 1.00	1 0.47	0 0.00	0	47 1.01	
Reduction deformity, upper limbs	53 1.73	19 1.78	2 0.66	0 0.00	1 12.55	0	75 1.60	
Renal agenesis/hypoplasia	97 3.17	25 2.34	11 3.65	3 1.41	0 0.00	0	136 2.91	
Spina bifida without anencephalus	133 4.35	29 2.71	18 5.97	6 2.82	0 0.00	1	187 4.00	
Tetralogy of Fallot	110 3.60	30 2.81	10 3.32	6 2.82	0 0.00	2	158 3.38	
Transposition of great arteries	103 3.37	16 1.50	12 3.98	0 0.00	0 0.00	0	131 2.80	
Tricuspid valve atresia and stenosis	20 0.65	15 1.40	0 0.00	2 0.94	0 0.00	2	39 0.83	
Trisomy 13	12 0.39	7 0.65	2 0.66	0 0.00	0 0.00	0	21 0.45	
Trisomy 18	23 0.75	8 0.75	1 0.33	0 0.00	0 0.00	0	32 0.68	
Ventricular septal defect	786 25.70	211 19.74	94 31.18	37 17.39	2 25.09	9	1,139 24.37	
Total Live Birth	305,852	106,883	30,148	21,278	797		467,391	

Virginia

Trisomy Counts and Rates by Maternal Age 1996–2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	223 5.60	174 25.49	398 8.52
Trisomy 13	17 0.43	4 0.59	21 0.45
Trisomy 18	19 0.48	13 1.90	32 0.68
Total Live Births	398,192	68,253	467,391

*Total includes unknown age.

Notes:

1. Only live births are included in the report.
2. Only children who were born to VA residents are included in the report.
3. Race is the mother's race reported on the birth certificate.
4. Data for 2000 may not be completed.
5. ICD9 codes were used to define birth defects.
6. We can not distinct defect codes 40, 41, the combined number is listed with code 40.
7. We do not have information for defect code 48. This category was not included in our report.

West Virginia

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Amniotic bands	0 0.00	0 0.00	0 0.00	0 0.00	0	0	0 0.00	
Anencephalus	23 2.30	0 0.00	0 0.00	0 0.00	0	0	23 2.20	
Aniridia	7 0.70	0 0.00	0 0.00	0 0.00	0	0	7 0.70	
Anophthalmia/ microphthalmia	10 1.00	0 0.00	0 0.00	0 0.00	0	0	10 1.00	
Anotia/microtia	7 0.70	0 0.00	0 0.00	0 0.00	0	1	8 0.80	
Aortic valve stenosis	18 1.80	1 2.70	0 0.00	0 0.00	0	0	19 1.80	
Atrial septal defect	483 48.90	16 42.60	0 0.00	1 17.30	0	10	510 49.10	
Biliary atresia	3 0.30	0 0.00	0 0.00	0 0.00	0	0	3 0.30	
Bladder exstrophy	3 0.30	0 0.00	0 0.00	0 0.00	0	1	4 0.40	
Choanal atresia	8 0.80	0 0.00	0 0.00	0 0.00	0	0	8 0.80	
Cleft lip with and without cleft palate	106 10.70	7 18.60	0 0.00	0 0.00	0	3	116 11.20	
Cleft palate without cleft lip	43 4.40	0 0.00	0 0.00	0 0.00	0	0	43 4.10	
Coarctation of aorta	53 5.40	2 5.30	0 0.00	1 17.30	0	0	56 5.40	
Common truncus	9 0.90	0 0.00	0 0.00	0 0.00	0	0	9 0.90	
Congenital cataract	12 1.20	0 0.00	0 0.00	0 0.00	0	0	12 1.20	
Congenital hip dislocation	42 4.30	0 0.00	0 0.00	0 0.00	0	0	42 4.00	
Diaphragmatic hernia	29 2.90	0 0.00	0 0.00	0 0.00	0	1	30 2.90	
Down syndrome	82 8.30	7 18.60	0 0.00	0 0.00	0	6	95 9.20	
Ebstein's anomaly	5 0.50	0 0.00	0 0.00	0 0.00	0	0	5 0.50	
Encephalocele	2 0.20	0 0.00	0 0.00	0 0.00	0	0	2 0.20	
Endocardial cushion defect	29 2.90	4 10.70	0 0.00	0 0.00	0	0	33 3.20	
Esophageal atresia/ tracheoesophageal fistula	17 1.70	0 0.00	0 0.00	0 0.00	0	0	17 1.60	
Fetal alcohol syndrome	32 3.20	4 10.70	0 0.00	0 0.00	0	0	36 3.50	
Gastroschisis	9 0.90	1 2.70	0 0.00	0 0.00	0	0	10 1.00	
Hirschsprung's disease (congenital megacolon)	11 1.10	0 0.00	0 0.00	0 0.00	0	0	11 1.10	
Hydrocephalus without Spina Bifida	60 6.10	2 5.30	0 0.00	0 0.00	0	1	63 6.10	

West Virginia

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Hypoplastic left heart syndrome	31 3.10	3 8.00	0 0.00	0 0.00	0 0	0 0	34 3.30	
Hypospadias and Epispadias	132 13.40	4 10.70	0 0.00	0 0.00	0 0	2 2	138 13.30	
Microcephalus	42 4.30	1 2.70	0 0.00	0 0.00	0 0	0 0	43 4.10	
Obstructive genitourinary defect	97 9.80	2 5.30	0 0.00	0 0.00	0 0	2 2	101 9.70	
Omphalocele	0 0.00	0 0.00	0 0.00	0 0.00	0 0	0 0	0 0.00	
Patent ductus arteriosus	461 46.70	14 37.30	0 0.00	1 17.30	0 0	7 7	483 46.50	
Pulmonary valve atresia and stenosis	85 8.60	1 2.70	0 0.00	0 0.00	0 0	1 1	87 8.40	
Pyloric stenosis	34 3.40	1 2.70	0 0.00	0 0.00	0 0	1 1	36 3.50	
Rectal and large intestinal atresia/stenosis	24 2.40	0 0.00	0 0.00	0 0.00	1 175.4	0 0	25 2.40	
Reduction deformity, lower limbs	9 0.90	2 5.30	0 0.00	0 0.00	0 0	0 0	11 1.10	
Reduction deformity, upper limbs	9 0.90	0 0.00	0 0.00	0 0.00	0 0	0 0	9 0.90	
Renal agenesis/hypoplasia	28 2.80	1 2.70	0 0.00	0 0.00	0 0	0 0	29 2.80	
Spina bifida without anencephalus	29 2.90	1 2.70	0 0.00	0 0.00	0 0	1 1	32 3.10	
Tetralogy of Fallot	23 2.30	2 5.30	0 0.00	0 0.00	0 0	0 0	25 2.40	
Transposition of great arteries	40 4.00	1 2.70	0 0.00	0 0.00	0 0	0 0	40 3.90	
Tricuspid valve atresia and stenosis	14 1.40	0 0.00	0 0.00	0 0.00	0 0	0 0	14 1.30	
Trisomy 13	4 0.40	0 0.00	0 0.00	0 0.00	0 0	0 0	4 0.40	
Trisomy 18	7 0.70	0 0.00	0 0.00	0 0.00	0 0	0 0	7 0.70	
Ventricular septal defect	203 20.60	9 24.00	0 0.00	1 17.30	0 0	7 7	220 21.20	
Total Live Births	98,771	3,754	450	577	57		103,799	

West Virginia

Trisomy Counts and Rates by Maternal Age 1996–2000

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	47	16	66
	4.93	19.59	6.36
Trisomy 13	3	1	4
	0.31	1.22	0.39
Trisomy 18	4	1	5
	0.42	1.22	0.48
Total Live Births	95,317	8,166	103,799

*Total includes unknown age.

Wisconsin

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Amniotic bands	53						63	
	1.93						1.86	
Anencephalus	31						42	
	1.13						1.24	
Anophthalmia/ microphthalmia	12						13	
	0.43						0.38	
Anotia/microtia	11						12	
	0.40						0.35	
Aortic valve stenosis	20						23	
	0.73						0.67	
Atrial septal defect	613						713	
	22.37						21.06	
Bladder exstrophy	17						18	
	0.62						0.53	
Choanal atresia	39						48	
	1.42						1.41	
Cleft lip with and without cleft palate	402						461	
	14.67						13.61	
Cleft palate without cleft lip	171						203	
	6.24						5.99	
Coarctation of aorta	35						39	
	1.27						1.15	
Common truncus	7						9	
	0.25						0.26	
Congenital cataract	34						38	
	1.24						1.12	
Congenital hip dislocation	339						388	
	12.37						11.46	
Diaphragmatic hernia	78						91	
	2.84						2.68	
Down syndrome	333						411	
	12.15						12.14	
Ebstein's anomaly	5						7	
	0.18						0.20	
Encephalocele	15						21	
	0.54						0.62	
Endocardial cushion defect	42						45	
	1.53						1.32	
Esophageal atresia/ tracheoesophageal fistula	76						83	
	2.77						2.45	
Fetus or newborn affected by maternal alcohol use	27						75	
	0.98						2.21	
Hirschsprung's disease (congenital megacolon)	14						23	
	0.51						0.67	
Hydrocephalus without Spina Bifida	92						130	
	3.35						3.84	
Hypoplastic left heart syndrome	44						50	
	1.60						1.47	
Hypospadias and Epispadias	920						1,092	
	33.58						32.26	
Microcephalus	49						68	
	1.78						2.00	

Wisconsin

Birth Defects Counts and Rates 1996–2000

(Rates per 10,000 Live Births)

Defect	Race/Ethnicity						Total	Notes
	Non-Hispanic White	Non-Hispanic Black or African	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Other/Unknown		
Obstructive genitourinary defect	429 15.65						523 15.45	
Patent ductus arteriosus	638 23.28						761 22.48	
Pulmonary valve atresia and stenosis	131 4.78						196 5.79	
Pyloric stenosis	6 0.21						6 0.17	
Rectal and large intestinal atresia/stenosis	121 4.41						151 4.46	
Reduction deformity, lower limbs	35 1.27						43 1.27	
Reduction deformity, upper limbs	66 2.40						83 2.45	
Renal agenesis/hypoplasia	94 3.43						114 3.36	
Spina bifida without anencephalus	103 3.75						123 3.63	
Tetralogy of Fallot	54 1.97						70 2.06	
Transposition of great arteries	54 1.97						58 1.71	
Tricuspid valve atresia and stenosis	11 0.40						14 0.41	
Trisomy 13	24 0.87						31 0.91	
Trisomy 18	30 1.09						42 1.24	
Ventricular septal defect	588 21.46						713 21.06	
Total Live Births	273,950						338,497	

Department of Defense

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		
Anencephalus	13 1.06	6 1.80	2 1.38	0 0.00		0	21 1.13	
Aniridia	0 0.00	0 0.00	0 0.00	0 0.00		0	0 0.00	
Anophthalmia/ microphthalmia	7 0.57	3 0.90	2 1.38	1 1.75		0	13 0.70	
Anotia/microtia	10 0.81	1 0.30	4 2.76	0 0.00		0	15 0.81	
Aortic valve stenosis	23 1.87	2 0.60	1 0.69	1 1.75		3	30 1.62	
Atrial septal defect	461 37.45	114 34.27	42 28.96	19 33.33		63	699 37.68	
Biliary atresia	10 0.81	3 0.90	0 0.00	0 0.00		2	15 0.81	
Bladder exstrophy	1 0.08	0 0.00	0 0.00	0 0.00		0	1 0.05	
Choanal atresia	27 2.19	13 3.91	2 1.38	0 0.00		5	47 2.53	
Cleft lip with and without cleft palate	126 10.24	20 6.01	19 13.10	6 10.52		21	192 10.35	
Cleft palate without cleft lip	72 5.85	23 6.91	6 4.14	7 12.28		7	115 6.20	
Coarctation of aorta	86 6.99	12 3.61	14 9.65	2 3.51		6	120 6.47	
Common truncus	10 0.81	1 0.30	2 1.38	2 3.51		3	18 0.97	
Congenital cataract	10 0.81	6 1.80	2 1.38	0 0.00		0	18 0.97	
Congenital hip dislocation	201 16.33	20 6.01	18 12.41	9 15.79		16	264 14.23	
Diaphragmatic hernia	45 3.66	14 4.21	3 2.07	1 1.75		3	66 3.56	
Down syndrome	166 13.49	29 8.72	21 14.48	11 19.29		32	259 13.96	
Ebstein's anomaly	11 0.89	0 0.00	0 0.00	1 1.75		3	15 0.81	
Encephalocele	5 0.41	1 0.30	2 1.38	0 0.00		1	9 0.49	
Endocardial cushion defect	53 4.31	15 4.51	6 4.14	2 3.51		6	82 4.42	
Esophageal atresia/ tracheoesophageal fistula	40 3.25	5 1.50	7 4.83	0 0.00		4	56 3.02	
Fetal alcohol syndrome	5 0.41	0 0.00	0 0.00	0 0.00		0	5 0.27	
Hirschsprung's disease (congenital megacolon)	43 3.49	17 5.11	8 5.52	1 1.75		13	82 4.42	
Hydrocephalus without Spina Bifida	91 7.39	29 8.72	13 8.96	4 7.02		7	144 7.76	
Hypoplastic left heart syndrome	47 3.82	17 5.11	3 2.07	1 1.75		5	73 3.94	
Hypospadias and Epispadias	504 40.94	123 36.98	36 24.82	19 33.33		38	720 38.81	

Department of Defense

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		
Microcephalus	23 1.87	13 3.91	6 4.14	2 3.51		7	51 2.75	
Obstructive genitourinary defect	293 23.80	61 18.34	42 28.96	6 10.52		23	425 22.91	
Pulmonary valve atresia and stenosis	97 7.88	46 13.83	8 5.52	5 8.77		21	177 9.54	
Pyloric stenosis	328 26.65	45 13.53	30 20.69	4 7.02		33	440 23.72	
Rectal and large intestinal atresia/stenosis	62 5.04	20 6.01	8 5.52	2 3.51		4	96 5.18	
Reduction deformity, lower limbs	20 1.62	9 2.71	2 1.38	2 3.51		2	35 1.89	
Reduction deformity, upper limbs	30 2.44	9 2.71	3 2.07	3 5.26		2	47 2.53	
Renal agenesis/hypoplasia	46 3.74	14 4.21	3 2.07	2 3.51		2	67 3.61	
Spina bifida without anencephalus	46 3.74	7 2.10	6 4.14	2 3.51		7	68 3.67	
Tetralogy of Fallot	85 6.91	22 6.61	5 3.45	2 3.51		7	121 6.52	
Transposition of great arteries	60 4.87	12 3.61	5 3.45	5 8.77		13	95 5.12	
Tricuspid valve atresia and stenosis	7 0.57	6 1.80	2 1.38	1 1.75		3	19 1.02	
Trisomy 13	8 0.65	5 1.50	0 0.00	0 0.00		3	16 0.86	
Trisomy 18	22 1.79	8 2.41	2 1.38	2 3.51		1	35 1.89	
Ventricular septal defect	463 37.61	105 31.57	50 34.48	14 24.56		52	684 36.87	
Total Live Births	123,097	33,262	14,503	5,701			185,503	

Department of Defense

Trisomy Counts and Rates by Maternal Age 1998–1999

(Rates per 10,000 Live Births)

Defect	Age		Total*
	<35	35 and >	
Down syndrome	149 8.97	89 58.31	259 13.96
Trisomy 13	12 0.72	2 1.31	16 0.86
Trisomy 18	28 1.68	7 4.59	35 1.89
Total Live Births	166,199	15,263	185,503

*Total includes unknown age.

Notes:

1. DoD Registry data unable to distinguish "American Indian or Alaskan Native" race/ethnicity category.