

## Data Dictionary for the Birth Defect File

The birth defects file contains the number of children born from 2005-2009 along with the number of children with one or more of the congenital malformations listed in table 1. The birth defect estimates were derived from the NYSDOH Congenital Malformations Registry and the number of births were calculated from vital statistics records from the NYSDOH and NYCDOHMH.

The data was aggregated by ZIP Code. If the birth or birth defect record listed a post-office-box-only ZIP code the ZIP code was recoded to the enclosing ZIP code. If the ZIP code contained less than 100 births the ZIP Code was merged with neighboring ZIP Code areas using the NYSDOH Geographic Aggregation Tool to protect patient confidentiality.

The original number of ZIP Code areas in NYS was 1,600. The number after geographic aggregation was 1,143. The total number of birth defect cases was 24,940 which occurred in 1,237,189 births.

Population weighted centroids were calculated for each of the regions using census block populations from the 2010 US Census.

**Table 1. Children with one or more of the following birth defects were included.**

Birth Defect Name	British Pediatric Association (BPA) Codes
Atrial Septal Defect	745.510-745.599
Common Truncus	745.000-745.019
Endocardial Cushion Defect	745.600-745.699
Single Common Ventricle	745.300
Tetralogy of Fallot	745.200-745.219, 746.840-746.849
Transposition of the Great Arteries	745.100-745.199
Aortic Valve Stenosis	746.300-746.309
Ebstein's Anomaly	746.200-746.209
Hypoplastic Left Heart Syndrome	746.700-746.709
Tricuspid Valve Atresia and Stenosis	746.100-746.104, 746.106-746.109
Coarctation of Aorta	747.100-747.199
Total Anomalous Pulmonary Venous Connection	747.420
Down Syndrome/Trisomy 21	758.000-758.099
Edwards Syndrome/Trisomy 18	758.200-758.290
Patau Syndrome/Trisomy 13	758.100-758.199
Cleft Lip with or without Cleft Palate	749.100-749.299
Cleft Palate without Cleft Lip	749.000-749.099
Anencephaly	740.000-740.109
Spina Bifida w/o Anencephaly	741.000-741.999
Encephalocele	742.000-742.099
Hydrocephalus w/o Spina Bifida	742.300-742.399
Microcephalus	742.100-742.109
Esophageal Atresia/Tracheoesophageal Fistula	750.300-750.359

Pyloric Stenosis	750.510-750.519
Biliary Atresia	751.650-751.659
Cloacal Exstrophy/Persistent Cloaca	751.550
Hirschsprung's Disease	751.300-751.349
Rectal/Large Intestinal Atresia/Stenosis	751.200-751.249
Anotia/Microtia	744.010-744.019, 744.210-744.219
Aniridia	743.420-743.429
Anophthalmia/Microphthalmia	743.000-743.109
Congenital Cataract	743.320-743.326
Hypospadias	752.600-752.609, 752.620, 752.622-752.627
Bladder Exstrophy	753.500-753.509
Obstructive Genitourinary Defect	753.200-753.299, 753.600-753.699
Renal Agenesis/Hypoplasia	753.000-753.019
Lower Limb Deficiencies	755.300-755.399
Upper Limb Deficiencies	755.200-755.299
Craniosynostosis	756.000
Diaphragmatic Hernia	756.610-756.617
Gastroschisis	756.710-756.719
Omphalocele	756.700-756.709
Sacral Agenesis	756.170
Heterotaxia	759.390
Choanal Atresia	748.000-748.099

**Table 2. Data dictionary for Birth\_defects .dbf/shp file**

ZIP	ZIP code of the address at birth. If the ZIP code was merged with one or more ZIP codes the code starts with "GATid"
Defect	Number of children born with one or more birth defects 2005-2009
Nodefect	Number of children born 2005-2009 without a birth defect
Births	Number of births by ZIP code
Latitude	Population Weighted Centroid, NAD83
Longitude	Population Weighted Centroid, NAD83
Year	Used 2005 as a dummy value – the actual data is for 2005-2009