

Nationally Consistent Data Measures for Birth Defects

Prevalence of 12 Selected Birth Defects at the County Level (2005-2009)

Birth defects are commonly reported as birth prevalence. Birth prevalence measures how often birth defects happen and is the best way to report information about birth defects. It is calculated by counting how many times the birth defect occurs in every 10,000 live births. Where <5 cases of a birth defect occur during the time period in a county that measure is suppressed to protect confidentiality. The small numbers involved also may cause some prevalence measures to be unstable, because a small change in either the numerator or the denominator can cause large changes in the prevalence between time periods.

Birth Defects data in Iowa is collected by the Iowa Registry for Congenital and Inherited Disorders at the University of Iowa. The registry conducts active surveillance to ascertain cases of birth defects among live births, fetal deaths, and terminations.

This report includes the county level prevalence measures presented in two ways:

- Prevalence of Live Births with the Birth Defect per 10,000 Live Births,
- Prevalence of Live Births, Fetal Deaths, and Terminations with the Birth Defect per 10,000 Live Births;

for the following 12 Birth Defects in Iowa counties that had 5 or more cases during the time period reported:

- 1. Anencephaly
- 2. Spina Bifida (without anencephaly)
- 3. Hypoplastic Left Heart Syndrome
- 4. Transposition of the Great Arteries
- 5. Tetralogy of Fallot
- 6. Cleft Lip with or without Cleft Palate
- 7. Cleft Palate without Cleft Lip

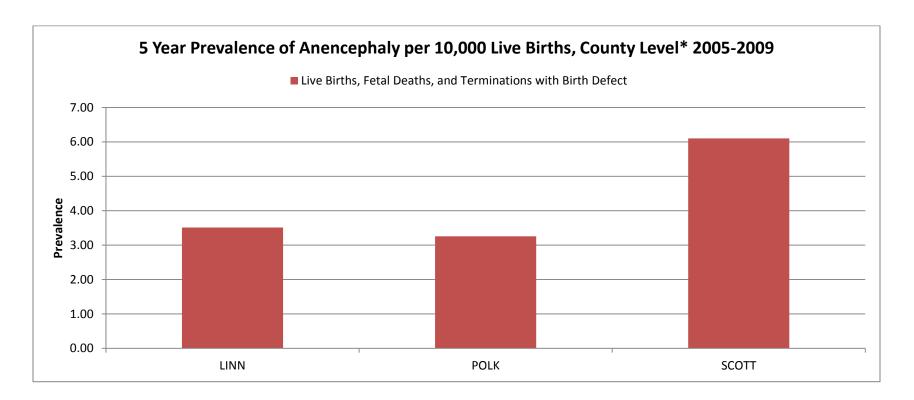
- 8. Hypospadias among Males
- 9. Gastroschisis
- 10. Upper Limb Deficiencies
- 11. Lower Limb Deficiencies
- 12. Trisomy 21
 - Maternal age <35
 - Maternal age >=35

Information about the 12 Birth Defects can be found on the Tracking Program Website (http://www.idph.state.ia.us/EHS/EPHT.aspx) under the Data & Indicators Section.



1. 5 year Prevalence of Anencephaly per 10,000 Live Births at the County Level. *Counties not shown are suppressed due to <5 cases.

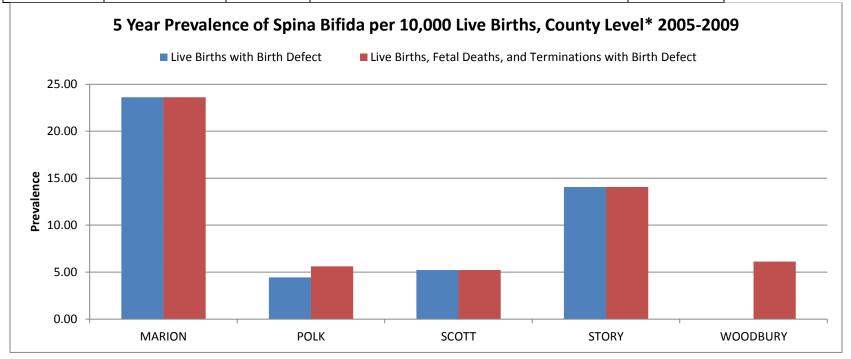
County	Live Births with Birth Defect		Live Births, Fetal Deaths, and Terminations with Birtl	n Defect
LINN	Suppressed	Unstable	3.51	Unstable
POLK	Suppressed	Unstable	3.25	Unstable
SCOTT	Suppressed	Unstable	6.10	Unstable
State of Iowa	0.65	Stable	3.14	Stable





2. <u>5 year Prevalence of Spina Bifida (without Anencephaly) per 10,000 Live Births at the County Level. *Counties not shown are suppressed due to <5 cases.</u>

County	Live Births with Birth Defect		Live Births, Fetal Deaths, and Terminations with Birth Defect	
MARION	23.61	Unstable	23.61	Unstable
POLK	4.44	Stable	5.62	Stable
SCOTT	5.23	Unstable	5.23	Unstable
STORY	14.06	Unstable	14.06	Unstable
WOODBURY	Suppressed	Unstable	6.12	Unstable
State of Iowa	3.74	Stable	4.94	Stable





3. <u>5 year Prevalence of Hypoplastic Left Heart Syndrome per 10,000 Live Births at the County Level. *Counties not shown are suppressed due to <5 cases.</u>

County	Live Births with Birth Defect		Live Births, Fetal Deaths, and Terminations with Birtl	h Defect
POLK	1.77	Unstable	2.37	Unstable
State of Iowa	1.74	Stable	2.14	Stable

No chart provided because only one county has non-suppressed measures.

4. <u>5 year Prevalence of Transposition of the Great Arteries per 10,000 Live Births at the County Level. *Counties not shown are suppressed due to <5 cases.</u>

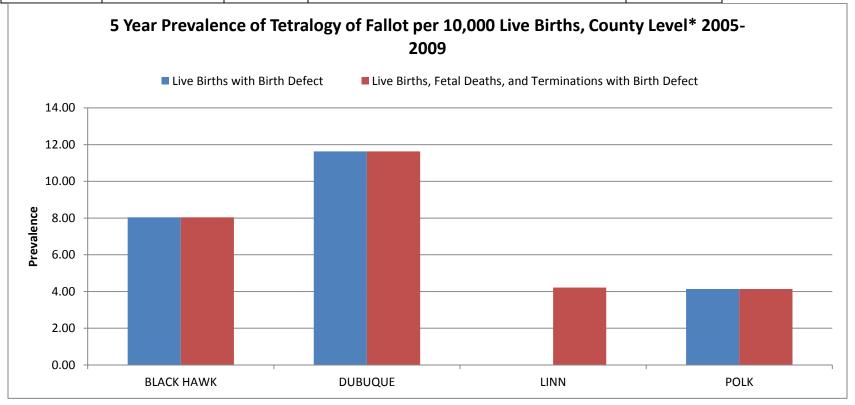
County	Live Births with Birth Defect		Live Births, Fetal Deaths, and Terminations with Birt	h Defect
POLK	4.14	Stable	4.14	Stable
State of Iowa	3.04	Stable	3.19	Stable

No chart provided because only one county has non-suppressed measures.



5. <u>5 year Prevalence of Tetralogy of Fallot per 10,000 Live Births at the County Level. *Counties not shown are suppressed due to <5 cases.</u>

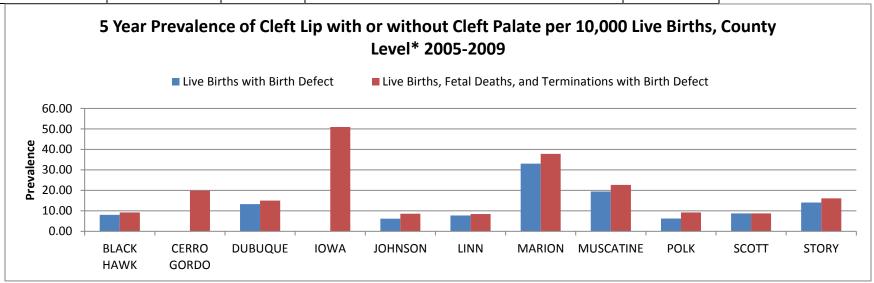
County	Live Births with Birth Defect		Live Births, Fetal Deaths, and Terminations with Birtl	h Defect
BLACK HAWK	8.04	Unstable	8.04	Unstable
DUBUQUE	11.63	Unstable	11.63	Unstable
LINN	Suppressed	Unstable	4.21	Unstable
POLK	4.14	Stable	4.14	Stable
State of Iowa	3.84	Stable	4.09	Stable





6. <u>5 year Prevalence of Cleft Lip with or without Cleft Palate per 10,000 Live Births at the County Level. *Counties not shown are suppressed</u> due to <5 cases.

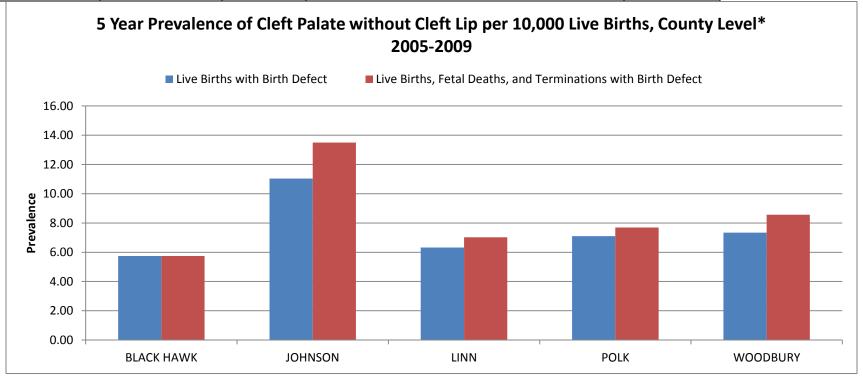
County	Live Births with Birth Defect		Live Births, Fetal Deaths, and Terminations with Birth Defect	
BLACK HAWK	8.04	Unstable	9.19	Unstable
CERRO GORDO	Suppressed	Unstable	19.84	Unstable
DUBUQUE	13.30	Unstable	14.96	Unstable
IOWA	Suppressed	Unstable	50.92	Unstable
JOHNSON	6.13	Unstable	8.59	Unstable
LINN	7.72	Unstable	8.43	Stable
MARION	33.05	Unstable	37.77	Unstable
MUSCATINE	19.43	Unstable	22.67	Unstable
POLK	6.21	Stable	9.17	Stable
SCOTT	8.71	Unstable	8.71	Unstable
STORY	14.06	Unstable	16.07	Unstable
State of Iowa	9.02	Stable	10.47	Stable





7. <u>5 year Prevalence of Cleft Palate without Cleft Lip per 10,000 Live Births at the County Level. *Counties not shown are suppressed due to <5 cases.</u>

County	Live Births with Birth Defect		Live Births, Fetal Deaths, and Terminations with Birtl	h Defect
BLACK HAWK	5.74	Unstable	5.74	Unstable
JOHNSON	11.04	Unstable	13.49	Unstable
LINN	6.32	Unstable	7.02	Unstable
POLK	7.10	Stable	7.69	Stable
WOODBURY	7.34	Unstable	8.57	Unstable
State of Iowa	5.78	Stable	6.48	Stable

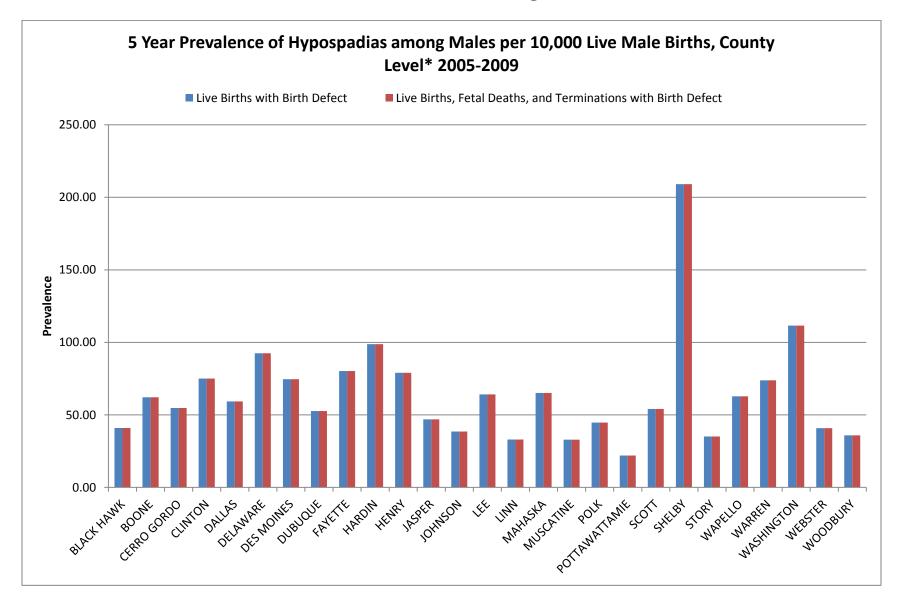




8. <u>5 year Prevalence of Hypospadias among Males per 10,000 Live Male Births at the County Level. *Counties not shown are suppressed due to <5 cases.</u>

County	Live Births with Birt	h Defect	Live Births, Fetal Deaths, and Terminations with Birtl	h Defect
BLACK HAWK	40.90	Stable	40.90	Stable
BOONE	62.11	Unstable	62.11	Unstable
CERRO GORDO	54.73	Unstable	54.73	Unstable
CLINTON	75.00	Stable	75.00	Stable
DALLAS	59.25	Stable	59.25	Stable
DELAWARE	92.42	Unstable	92.42	Unstable
DES MOINES	74.57	Unstable	74.57	Unstable
DUBUQUE	52.67	Stable	52.67	Stable
FAYETTE	80.26	Unstable	80.26	Unstable
HARDIN	98.81	Unstable	98.81	Unstable
HENRY	78.99	Unstable	78.99	Unstable
JASPER	46.86	Unstable	46.86	Unstable
JOHNSON	38.50	Stable	38.50	Stable
LEE	64.10	Unstable	64.10	Unstable
LINN	32.97	Stable	32.97	Stable
MAHASKA	65.10	Unstable	65.10	Unstable
MUSCATINE	32.92	Unstable	32.92	Unstable
POLK	44.73	Stable	44.73	Stable
POTTAWATTAMIE	21.96	Unstable	21.96	Unstable
SCOTT	54.12	Stable	54.12	Stable
SHELBY	209.06	Unstable	209.06	Unstable
STORY	35.10	Unstable	35.10	Unstable
WAPELLO	62.75	Unstable	62.75	Unstable
WARREN	73.86	Unstable	73.86	Unstable
WASHINGTON	111.58	Unstable	111.58	Unstable
WEBSTER	40.85	Unstable	40.85	Unstable
WOODBURY	35.85	Stable	35.85	Stable
State of Iowa	43.96	Stable	43.96	Stable

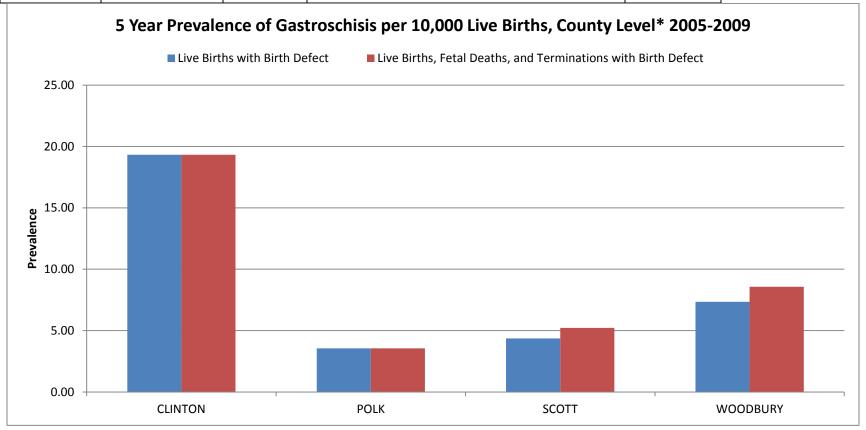






9. <u>5 year Prevalence of Gastroschisis per 10,000 Live Births at the County Level. *Counties not shown are suppressed due to <5 cases.</u>

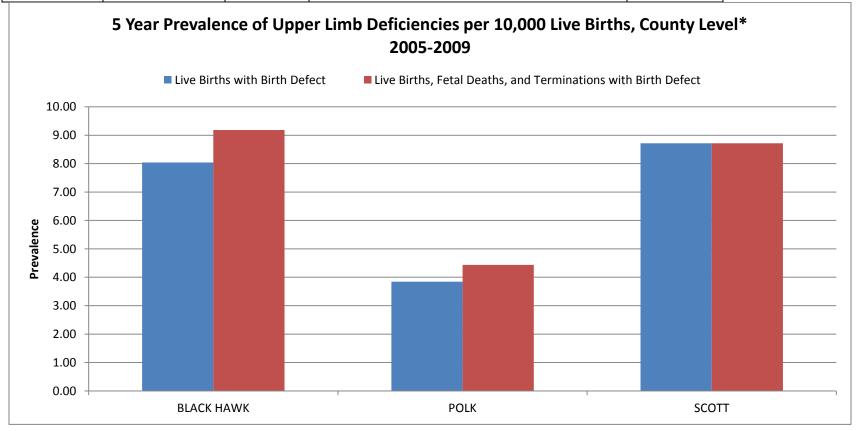
County	Live Births with Birth Defect		Live Births, Fetal Deaths, and Terminations with Birth Defect	
CLINTON	19.33	Unstable	19.33	Unstable
POLK	3.55	Stable	3.55	Stable
SCOTT	4.36	Unstable	5.23	Unstable
WOODBURY	7.34	Unstable	8.57	Unstable
State of Iowa	3.99	Stable	4.44	Stable





10. 5 year Prevalence of Upper Limb Deficiencies per 10,000 Live Births at the County Level. *Counties not shown are suppressed due to <5 cases.

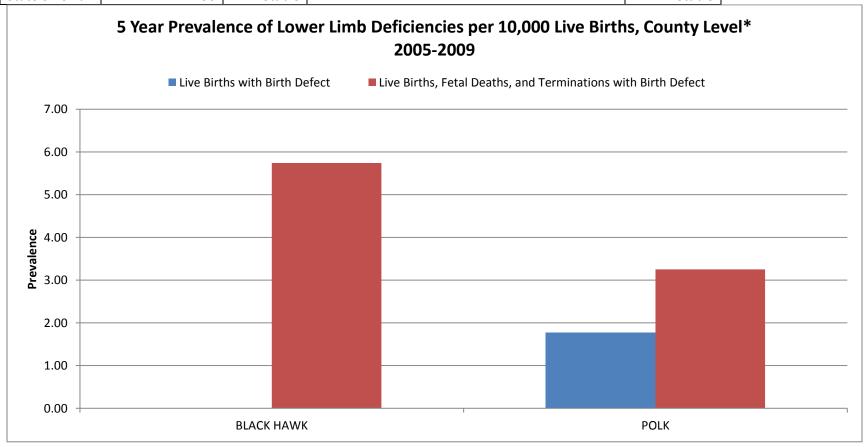
County	Live Births with Birth Defect		Live Births, Fetal Deaths, and Terminations with Birtl	h Defect
BLACK HAWK	8.04	Unstable	9.19	Unstable
POLK	3.85	Stable	4.44	Stable
SCOTT	8.71	Unstable	8.71	Unstable
State of Iowa	3.49	Stable	4.54	Stable





11. 5 year Prevalence of Lower Limb Deficiencies per 10,000 Live Births at the County Level. *Counties not shown are suppressed due to <5 cases.

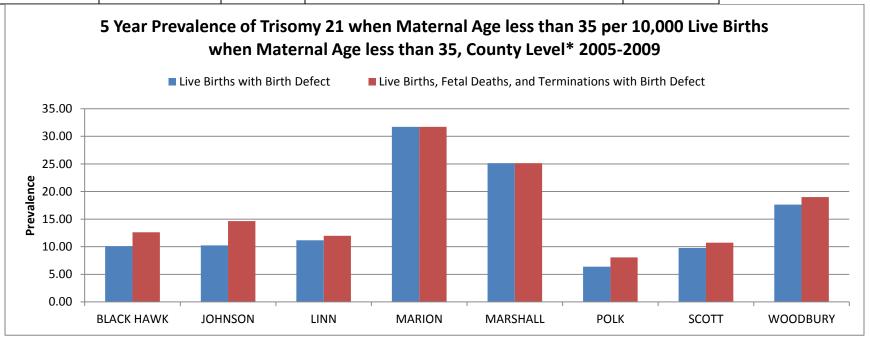
County	Live Births with Birth Defect		Live Births, Fetal Deaths, and Terminations with Birtl	n Defect
BLACK HAWK	Suppressed	Unstable	5.74	Unstable
POLK	1.77	Unstable	3.25	Unstable
State of Iowa	1.50	Stable	2.14	Stable





12. <u>5 year Prevalence of Trisomy 21 when Maternal Age <35 per 10,000 Live Births when Maternal age < 35 at the County Level. *Counties not shown are suppressed due to <5 cases.</u>

County	Live Births with Birth Defect		Live Births, Fetal Deaths, and Terminations with Birth	n Defect
BLACK HAWK	10.10	Unstable	12.62	Unstable
JOHNSON	10.24	Unstable	14.63	Unstable
LINN	11.18	Stable	11.98	Stable
MARION	31.71	Unstable	31.71	Unstable
MARSHALL	25.14	Unstable	25.14	Unstable
POLK	6.39	Stable	8.07	Stable
SCOTT	9.76	Unstable	10.74	Unstable
WOODBURY	17.64	Stable	19.00	Stable
State of Iowa	8.22	Stable	62.53	Stable





13. 5 year Prevalence of Trisomy 21 when Maternal Age >= 35 per 10,000 Live Births when Maternal age >= 35 at the County Level. *Counties not shown are suppressed due to <5 cases.

County	Live Births with Birth Defect		Live Births, Fetal Deaths, and Terminations with Birth Defect	
BUCHANAN	348.26	Unstable	348.26	Unstable
JOHNSON	Suppressed	Unstable	37.99	Unstable
LINN	34.94	Unstable	52.42	Unstable
POLK	59.16	Stable	78.88	Stable
WOODBURY	75.00	Unstable	87.50	Unstable
State of Iowa	49.20	Stable	62.53	Stable

