Iowa Environmental Public Health Tracking Network

Nationally Consistent Data Measures for Vital Statistics

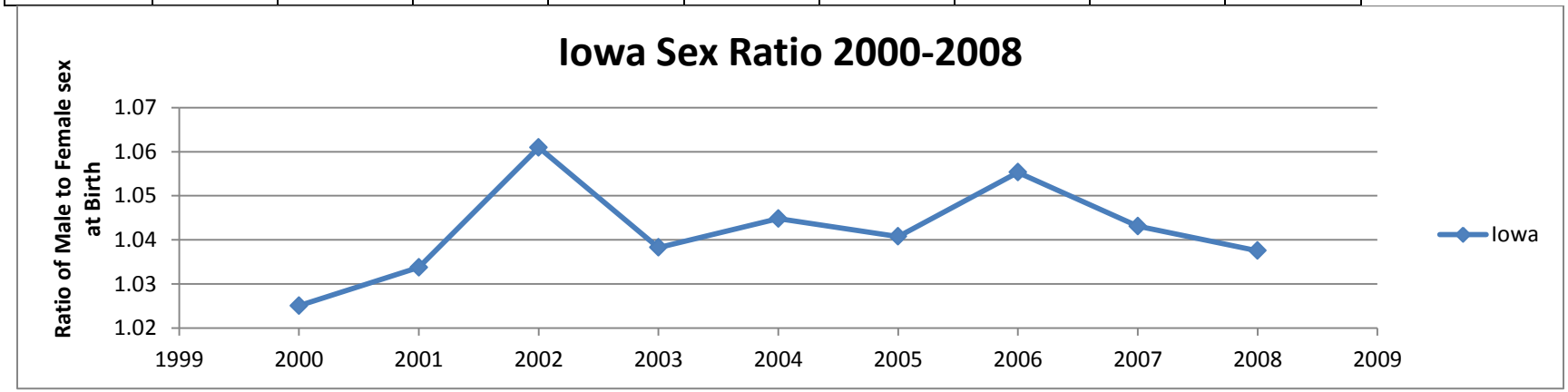
Sex Ratio

The Sex Ratio (SR) can be used to monitor the proportion of males to females in states and counties. If the SR is decreasing over time, the implication is that fewer males than females are born for that period of time. If consistent decreases in the SR occur, this outcome could be used to determine if such changes are the result of environmental hazards that can disrupt the endocrine system or some other physiological system related directly or indirectly to the expression of the neonates' sex at birth.

Presented below are data that represent the nationally consistent data measures related to the SR of all births at the State level:

1. Annual Sex Ratio at the State level.

Year	2000	2001	2002	2003	2004	2005	2006	2007	2008
Iowa TFR	1.03	1.03	1.06	1.04	1.04	1.04	1.06	1.04	1.04



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2. Annual Sex Ratio at the County level displayed by Public Health Region.

Region 1

Region 1: Sex Ratio 2000-2008									
County	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**	**2007**	**2008**
Boone	1.04	0.97	1.23	1.07	1.14	1.10	1.15	1.02	1.07
Calhoun	0.84	0.85	1.24	1.05	1.12	0.98	0.89	0.64	1.37
Carroll	0.80	1.18	1.05	1.09	0.83	0.98	1.08	1.20	1.03
Dallas	1.15	0.93	0.87	1.04	1.14	1.08	0.94	1.04	0.98
Greene	0.88	0.93	1.65	1.08	1.05	1.58	1.09	1.02	1.51
Grundy	1.34	0.90	0.93	0.86	0.92	1.06	1.09	1.02	0.91
Hamilton	1.17	0.96	1.20	1.29	0.97	1.11	1.25	1.19	0.69
Hardin	1.00	0.91	0.98	1.03	1.06	0.97	0.97	0.90	1.04
Jasper	0.98	1.24	1.01	1.07	1.18	0.98	1.00	1.12	1.02
Marshall	1.13	0.94	1.10	0.90	1.04	1.20	0.97	1.05	1.00
Polk	1.07	1.02	1.03	0.98	0.99	1.03	1.06	1.10	1.05
Poweshiek	1.23	1.09	0.97	0.77	1.12	1.09	1.13	1.01	0.95
Story	0.95	1.08	1.05	1.14	1.08	0.93	1.13	1.13	0.95
Tama	1.02	0.92	1.00	1.29	1.13	1.00	1.27	0.73	0.74
Warren	1.03	1.13	1.38	1.25	1.15	1.01	0.99	0.97	1.05
Webster	0.99	0.96	1.16	1.46	1.04	1.07	1.03	1.03	1.15
State of Iowa	1.03	1.03	1.06	1.04	1.04	1.04	1.06	1.04	1.04

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Region 2

Region 2: Sex Ratio 2000-2008									
County	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**	**2007**	**2008**
Allamakee	0.83	1.03	1.13	1.28	1.00	1.03	1.47	1.15	1.48
Bremer	0.99	1.14	1.15	0.90	1.13	1.05	0.95	1.23	1.04
Butler	1.29	1.08	1.03	0.99	1.46	1.10	0.99	0.85	1.03
Cerro Gordo	1.12	1.04	1.08	1.03	1.12	1.00	0.89	0.91	1.20
Chickasaw	0.78	1.08	0.85	1.03	1.02	0.88	1.03	1.12	0.97
Emmet	1.15	1.07	0.95	0.99	0.91	1.03	1.46	1.26	0.98
Fayette	0.88	1.04	1.16	0.76	1.53	1.03	1.26	1.14	1.01
Floyd	1.10	0.87	0.95	1.36	1.11	1.35	0.94	1.01	1.06
Franklin	0.96	1.15	1.06	1.02	1.18	1.57	1.42	0.94	1.53
Hancock	0.97	0.86	1.35	1.15	1.13	0.86	1.05	0.91	1.02
Howard	1.17	1.20	0.92	1.20	1.27	1.23	0.93	0.97	1.16
Humboldt	0.90	0.55	1.00	1.00	1.06	0.98	0.85	1.04	1.07
Kossuth	0.75	0.92	1.27	0.94	1.15	1.25	1.08	1.24	1.04
Mitchell	0.80	1.01	0.78	0.96	1.70	0.69	1.08	1.24	1.02
Winnebago	1.08	0.87	0.91	1.16	1.07	1.27	1.07	0.87	1.00
Winneshiek	1.05	1.02	1.20	1.30	1.00	1.19	1.13	0.90	1.21
Worth	0.76	1.05	0.88	1.41	1.07	0.66	1.24	0.97	1.32
Wright	0.88	0.96	1.04	0.94	1.08	0.92	1.08	0.94	0.86
State of Iowa	1.03	1.03	1.06	1.04	1.04	1.04	1.06	1.04	1.04

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Region 3

Region 3: Sex Ratio 2000-2008									
County	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**	**2007**	**2008**
Buena Vista	0.85	0.98	1.05	1.12	1.04	0.98	1.12	1.03	1.24
Cherokee	0.94	0.95	1.32	0.84	0.84	0.98	0.95	1.07	1.07
Clay	1.22	0.94	0.87	0.99	1.03	1.05	0.85	1.41	0.90
Crawford	1.00	1.26	0.99	1.10	1.04	0.87	1.01	1.12	1.30
Dickinson	1.00	1.29	1.77	1.06	0.90	1.14	1.28	1.21	1.30
Ida	0.85	1.38	1.02	0.79	0.97	1.06	0.87	1.37	1.13
Lyon	0.96	1.44	1.40	1.11	0.89	1.10	0.99	1.26	1.37
Monona	1.18	1.10	0.98	0.95	1.13	1.19	0.95	1.15	0.93
Obrien	1.06	1.23	1.15	1.38	1.23	1.32	1.21	1.03	1.01
Osceola	1.03	1.14	1.23	1.33	1.19	1.30	0.78	1.40	0.74
Palo Alto	1.06	1.56	1.17	0.96	0.87	1.04	1.09	1.08	0.83
Plymouth	0.96	1.01	1.42	1.15	1.00	0.89	1.38	1.09	0.89
Pocahontas	0.83	1.35	0.70	1.04	0.75	1.63	1.10	0.84	1.26
Sac	1.05	0.85	1.32	1.17	0.95	1.12	0.78	1.22	0.79
Sioux	1.19	1.17	0.93	1.01	1.02	0.90	0.89	1.06	1.00
Woodbury	1.06	1.10	1.07	0.92	1.00	1.06	1.08	1.00	1.01
State of Iowa	1.03	1.03	1.06	1.04	1.04	1.04	1.06	1.04	1.04

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Region 4

Region 4: Sex Ratio 2000-2008									
County	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**	**2007**	**2008**
Adair	0.85	0.84	0.66	1.21	0.89	0.69	0.74	0.82	1.72
Adams	1.00	0.95	1.50	1.00	0.79	0.67	0.80	0.68	1.46
Audubon	0.91	0.96	1.05	0.76	0.86	1.25	1.08	1.19	1.14
Cass	1.04	1.32	1.08	1.17	1.10	1.36	1.23	1.03	0.95
Clarke	1.05	1.17	1.50	1.13	1.02	1.15	1.15	0.95	1.18
Decatur	1.09	0.94	0.90	1.09	0.88	1.07	1.29	1.11	1.06
Fremont	1.30	1.29	1.67	1.15	1.09	0.86	1.15	1.16	1.00
Guthrie	0.82	0.94	1.02	1.20	1.07	1.11	0.96	1.37	1.12
Harrison	1.04	0.93	1.05	0.96	1.02	1.04	1.27	0.84	1.17
Madison	1.11	0.93	1.11	0.93	1.23	1.26	1.17	0.84	1.03
Mills	0.79	1.19	1.25	1.27	0.86	1.26	1.54	1.02	0.82
Montgomery	0.87	1.05	1.18	1.13	1.29	1.26	1.19	1.41	1.10
Page	1.11	1.16	1.04	0.89	1.43	1.10	1.18	0.91	0.96
Pottawattamie	1.04	1.06	1.08	1.01	1.12	1.02	1.11	1.02	1.00
Ringgold	1.39	1.11	0.76	0.96	1.09	1.06	0.75	0.71	1.23
Shelby	1.05	1.12	1.15	1.89	1.35	1.00	0.93	1.03	0.84
Taylor	0.88	0.79	1.06	1.44	0.87	1.31	0.93	1.07	0.94
Union	1.22	0.72	0.94	0.90	1.22	1.03	1.42	1.18	1.14
State of Iowa	1.03	1.03	1.06	1.04	1.04	1.04	1.06	1.04	1.04

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Region 5

Region 5: Sex Ratio 2000-2008									
County	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**	**2007**	**2008**
Appanoose	0.97	1.00	0.90	1.00	0.95	0.96	1.64	1.05	0.94
Davis	1.07	1.31	1.16	1.17	1.12	1.19	0.90	1.07	0.72
Des Moines	1.06	0.84	1.03	1.18	1.06	0.88	0.96	1.21	0.96
Henry	0.90	1.05	1.19	1.46	0.98	1.25	1.14	1.08	1.17
Jefferson	0.80	1.15	1.06	1.20	1.06	0.88	1.05	1.27	1.04
Keokuk	1.25	1.02	1.31	1.20	0.86	1.00	1.54	0.85	1.10
Lee	1.06	1.07	0.87	0.99	0.85	1.02	1.24	0.92	1.15
Louisa	1.17	0.99	1.31	1.02	1.41	0.95	1.19	1.18	0.78
Lucas	1.24	1.04	1.26	0.80	1.29	1.34	1.19	0.76	1.38
Mahaska	1.08	1.05	0.96	1.19	1.46	1.02	1.15	1.02	1.00
Marion	1.13	0.93	1.04	0.91	1.09	1.04	1.32	1.32	1.16
Monroe	0.88	1.06	1.18	1.05	0.71	0.86	0.95	1.69	1.00
Muscatine	1.01	1.00	0.99	1.10	1.06	1.03	1.01	0.79	1.01
Van Buren	1.15	1.10	0.93	1.03	1.16	1.11	1.37	1.00	1.31
Wapello	0.90	1.14	0.97	1.11	1.03	1.09	0.91	1.08	1.13
Washington	0.89	0.99	1.15	1.16	0.89	1.15	1.01	1.00	1.12
Wayne	0.92	0.63	0.76	1.07	0.95	0.74	0.76	0.95	0.86
State of Iowa	1.03	1.03	1.06	1.04	1.04	1.04	1.06	1.04	1.04

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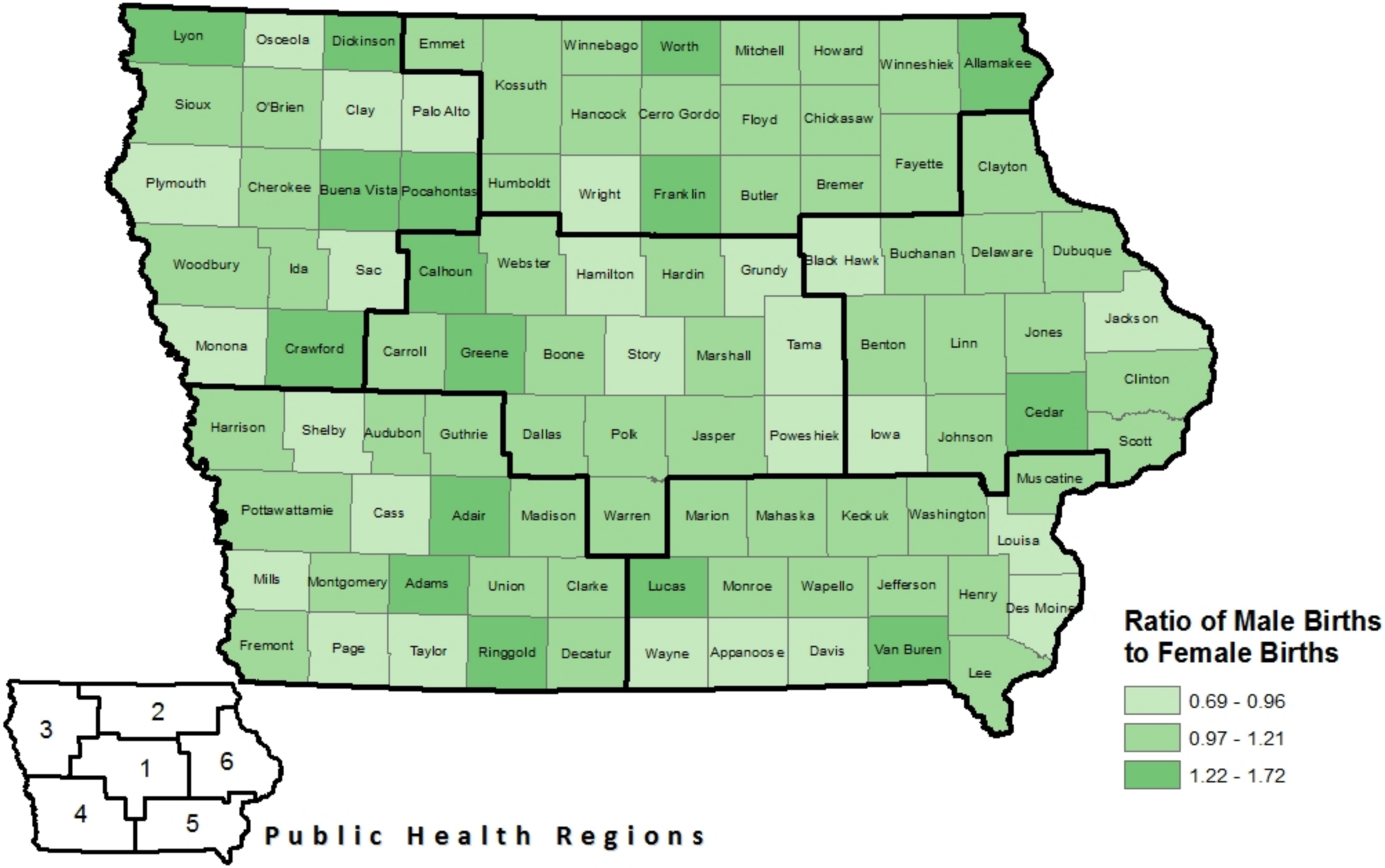
Region 6

Region 6: Sex Ratio 2000-2008									
County	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**	**2007**	**2008**
Benton	1.04	0.78	0.90	0.82	1.09	1.13	0.97	0.90	1.09
Black Hawk	0.94	0.97	1.04	1.09	1.04	1.09	1.04	0.96	0.96
Buchanan	1.04	0.94	1.28	0.86	1.36	1.00	0.94	1.01	1.13
Cedar	1.27	0.93	1.25	1.19	1.01	0.93	0.86	0.97	1.30
Clayton	0.99	1.24	0.96	1.03	1.03	1.14	1.09	1.25	1.14
Clinton	0.97	1.03	1.09	1.08	1.05	0.89	1.11	1.05	1.04
Delaware	1.39	1.16	1.03	0.95	1.07	0.90	1.24	1.16	1.01
Dubuque	1.01	0.99	1.11	1.02	1.11	0.98	1.00	1.00	1.06
Iowa	0.87	1.10	0.93	1.13	1.22	1.13	0.96	0.87	0.80
Jackson	0.85	1.12	1.01	1.15	1.13	1.00	1.03	0.87	0.91
Johnson	1.04	1.04	1.08	1.14	0.97	1.00	1.03	1.04	1.01
Jones	1.07	0.97	0.99	1.05	1.13	1.16	1.05	1.07	1.01
Linn	1.00	1.05	1.06	0.97	1.07	1.09	1.00	1.04	1.01
Scott	1.04	1.13	1.04	1.02	0.96	1.05	1.07	1.05	1.13
State of Iowa	1.03	1.03	1.06	1.04	1.04	1.04	1.06	1.04	1.04

Sex Ratio: Male Births to Female Births
2008