

Mission:

To protect, promote & improve the health of all people in Florida through integrated state, county & community efforts.



Rick Scott
Governor

John H. Armstrong, MD, FACS
State Surgeon General & Secretary

Vision: To be the Healthiest State in the Nation

Florida Actual versus Expected Teen Births and Repeat Teen Births By County 2011 through 2013

In this analysis, the actual number of teen births and repeat teen births are compared to the expected number for each county. The expected numbers are calculated by applying the state rates to the data for each county. The assumption is the expected rates for the counties are equal to the statewide rates.

The difference between the number of actual and expected births is also tested for statistical significance. In the following tables, an H appears for the counties where the number of actual births is statistically significantly higher than the expected number of births and an L appears for the counties where the number of actual births is statistically significantly lower than the expected number of births. For counties without an H or L the number of actual births is not statistically significantly different from the expected number of births. An alpha level of 0.05 is used for this test, which means that for the counties with an H or L there is a 5% chance that the difference between the actual and expected number is due to random variation.

Note that for larger counties, smaller differences between the statewide rate and the county rate may be statistically significant while the same or greater differences may not be statistically significant in smaller counties. This is because statistical significance depends in part on the magnitude of the numbers used in the calculations. Since the larger counties will have larger female teen populations and more teen births, the differences between the statewide rate and county rates are more likely to be statistically significant for the larger counties. In statistical testing, this is called statistical power.

All of the data for the following tables are from the Florida Department of Health CHARTS web site at: <http://www.floridacharts.com/charts/chart.aspx>. The Poisson function in Excel was used for the statistical testing.

Please contact Dan Thompson at Dan.Thompson@flhealth.gov if there are questions or comments.

CFHS – Dan Thompson 07/08/14

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**Florida Teen Birth Rates for Mothers Ages 15-17
2011 Through 2013**

County	2011 - 2013 Number of Females 15-17	2011 - 2013 Actual Number of Births to Mothers 15-17	2011 - 2013 Expected Number of Births to Mothers 15-17	2011 - 2013 Number of Births per 1,000 Females 15-17	Statistical Significance*
Statewide	1,057,573	12,639	12,639	12.0	
Alachua	22,680	145	271	6.4	L
Baker	1,534	26	18	16.9	
Bay	9,283	152	111	16.4	H
Bradford	1,247	25	15	20.0	H
Brevard	27,934	280	334	10.0	L
Broward	97,927	941	1,170	9.6	L
Calhoun	751	16	9	21.3	H
Charlotte	6,033	51	72	8.5	L
Citrus	5,775	95	69	16.5	H
Clay	12,631	112	151	8.9	L
Collier	15,174	164	181	10.8	
Columbia	3,519	57	42	16.2	H
Dade	145,117	1,429	1,734	9.8	L
Desoto	1,724	38	21	22.0	H
Dixie	718	15	9	20.9	H
Duval	51,244	747	612	14.6	H
Escambia	18,401	294	220	16.0	H
Flagler	4,792	54	57	11.3	
Franklin	443	12	5	27.1	H
Gadsden	2,647	65	32	24.6	H
Gilchrist	905	17	11	18.8	H
Glades	530	10	6	18.9	
Gulf	630	10	8	15.9	
Hamilton	693	15	8	21.6	H
Hardee	1,655	60	20	36.3	H
Hendry	2,515	70	30	27.8	H
Hernando	8,556	87	102	10.2	
Highlands	4,233	76	51	18.0	H
Hillsborough	77,727	1,101	929	14.2	H
Holmes	998	19	12	19.0	H
Indian River	6,471	98	77	15.1	H
Jackson	2,460	27	29	11.0	
Jefferson	632	10	8	15.8	
Lafayette	399	5	5	12.5	
Lake	14,780	229	177	15.5	H
Lee	31,118	422	372	13.6	H
Leon	26,942	129	322	4.8	L
Levy	2,086	25	25	12.0	
Liberty	373	6	4	16.1	
Madison	992	16	12	16.1	
Manatee	16,136	329	193	20.4	H
Marion	15,836	264	189	16.7	H
Martin	6,633	66	79	10.0	
Monroe	2,643	20	32	7.6	L
Nassau	4,017	45	48	11.2	
Okaloosa	10,015	134	120	13.4	
Okeechobee	2,231	54	27	24.2	H
Orange	78,223	878	935	11.2	L
Osceola	18,583	271	222	14.6	H
Palm Beach	68,628	677	820	9.9	L
Pasco	24,061	254	288	10.6	L
Pinellas	42,545	496	508	11.7	
Polk	34,523	670	413	19.4	H
Putnam	3,875	104	46	26.8	H
Saint Johns	11,491	48	137	4.2	L
Saint Lucie	15,069	190	180	12.6	
Santa Rosa	9,078	107	108	11.8	
Sarasota	15,623	176	187	11.3	
Seminole	26,725	176	319	6.6	L
Sumter	2,142	43	26	20.1	H
Suwannee	2,261	51	27	22.6	H
Taylor	1,059	36	13	34.0	H
Union	698	10	8	14.3	
Volusia	25,793	311	308	12.1	
Wakulla	1,613	12	19	7.4	
Walton	2,556	43	31	16.8	H
Washington	1,247	24	15	19.2	H

* H - county rate is statistically significantly higher than the state rate (alpha=0.05)
 L - county rate is statistically significantly lower than the state rate (alpha= 0.05)
 Blank - no statistically significant difference between the county rate and the state rate

**Florida Teen Birth Rates for Mothers Ages 15-19
2011 Through 2013**

County	2011 - 2013 Number of Females 15-19	2011 - 2013 Actual Number of Births to Mothers 15-19	2011 - 2013 Expected Number of Births to Mothers 15-19	2011 - 2013 Number of Births per 1,000 Females 15-19	Statistical Significance*
Statewide	1,762,125	47,029	47,029	26.7	
Alachua	37,791	557	1,009	14.7	L
Baker	2,552	112	68	43.9	H
Bay	15,463	650	413	42.0	H
Bradford	2,067	100	55	48.4	H
Brevard	46,547	1,059	1,242	22.8	L
Broward	163,202	3,328	4,356	20.4	L
Calhoun	1,246	67	33	53.8	H
Charlotte	10,047	273	268	27.2	
Citrus	9,617	359	257	37.3	H
Clay	21,045	476	562	22.6	L
Collier	25,280	602	675	23.8	L
Columbia	5,854	244	156	41.7	H
Dade	241,854	5,172	6,455	21.4	L
Desoto	2,867	132	77	46.0	H
Dixie	1,188	57	32	48.0	H
Duval	85,399	2,848	2,279	33.3	H
Escambia	30,662	1,182	818	38.5	H
Flagler	7,982	199	213	24.9	
Franklin	733	43	20	58.7	H
Gadsden	4,405	196	118	44.5	H
Gilchrist	1,501	67	40	44.6	H
Glades	876	26	23	29.7	
Gulf	1,043	41	28	39.3	H
Hamilton	1,147	62	31	54.1	H
Hardee	2,749	168	73	61.1	H
Hendry	4,183	236	112	56.4	H
Hernando	14,253	387	380	27.2	
Highlands	7,048	285	188	40.4	H
Hillsborough	129,537	4,005	3,457	30.9	H
Holmes	1,660	69	44	41.6	H
Indian River	10,779	340	288	31.5	H
Jackson	4,094	155	109	37.9	H
Jefferson	1,046	36	28	34.4	
Lafayette	659	26	18	39.5	H
Lake	24,626	828	657	33.6	H
Lee	51,855	1,530	1,384	29.5	H
Leon	44,897	573	1,198	12.8	L
Levy	3,468	117	93	33.7	H
Liberty	615	34	16	55.3	H
Madison	1,648	65	44	39.4	H
Manatee	26,884	1,010	718	37.6	H
Marion	26,386	998	704	37.8	H
Martin	11,045	243	295	22.0	L
Monroe	4,398	106	117	24.1	
Nassau	6,686	191	178	28.6	
Okaloosa	16,686	552	445	33.1	H
Okeechobee	3,711	195	99	52.5	H
Orange	130,366	3,330	3,479	25.5	L
Osceola	30,967	969	826	31.3	H
Palm Beach	114,371	2,447	3,052	21.4	L
Pasco	40,095	1,056	1,070	26.3	
Pinellas	70,899	1,858	1,892	26.2	
Polk	57,530	2,226	1,535	38.7	H
Putnam	6,452	355	172	55.0	H
Saint Johns	19,144	281	511	14.7	L
Saint Lucie	25,104	738	670	29.4	H
Santa Rosa	15,125	432	404	28.6	
Sarasota	26,031	583	695	22.4	L
Seminole	44,532	732	1,189	16.4	L
Sumter	3,561	186	95	52.2	H
Suwannee	3,762	155	100	41.2	H
Taylor	1,760	100	47	56.8	H
Union	1,158	67	31	57.9	H
Volusia	42,981	1,175	1,147	27.3	
Wakulla	2,680	70	72	26.1	
Walton	4,254	164	114	38.6	H
Washington	2,072	104	55	50.2	H

* H - county rate is statistically significantly higher than the state rate (alpha=0.05)
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Blank - no statistically significant difference between the county rate and the state rate

**Florida Repeat Birth Rates for Mothers Ages 15-17
2011 Through 2013**

County	2011 - 2013 Number of Births to Females 15-17	2011 - 2013 Actual Number of Repeat Births to Mothers 15-17	2011 - 2013 Expected Number of Repeat Births to Mothers 15-17	2011 - 2013 Actual Percent Repeat Births to Mothers 15-17	Statistical Significance*
Statewide	12,639	979	979	7.7%	
Alachua	145	15	11	10.3%	
Baker	26	1	2	3.8%	
Bay	152	9	12	5.9%	
Bradford	25	3	2	12.0%	
Brevard	280	17	22	6.1%	
Broward	941	67	73	7.1%	
Calhoun	16	0	1	0.0%	
Charlotte	51	3	4	5.9%	
Citrus	95	6	7	6.3%	
Clay	112	7	9	6.3%	
Collier	164	1	13	0.6%	L
Columbia	57	4	4	7.0%	
Dade	1,429	128	111	9.0%	
Desoto	38	6	3	15.8%	
Dixie	15	1	1	6.7%	
Duval	747	53	58	7.1%	
Escambia	294	20	23	6.8%	
Flagler	54	1	4	1.9%	
Franklin	12	0	1	0.0%	
Gadsden	65	7	5	10.8%	
Gilchrist	17	1	1	5.9%	
Glades	10	0	1	0.0%	
Gulf	10	1	1	10.0%	
Hamilton	15	1	1	6.7%	
Hardee	60	5	5	8.3%	
Hendry	70	4	5	5.7%	
Hernando	87	3	7	3.4%	
Highlands	76	8	6	10.5%	
Hillsborough	1,101	112	85	10.2%	H
Holmes	19	1	1	5.3%	
Indian River	98	4	8	4.1%	
Jackson	27	0	2	0.0%	
Jefferson	10	1	1	10.0%	
Lafayette	5	1	0	20.0%	
Lake	229	13	18	5.7%	
Lee	422	37	33	8.8%	
Leon	129	9	10	7.0%	
Levy	25	1	2	4.0%	
Liberty	6	1	0	16.7%	
Madison	16	0	1	0.0%	
Manatee	329	43	25	13.1%	H
Marion	264	19	20	7.2%	
Martin	66	5	5	7.6%	
Monroe	20	2	2	10.0%	
Nassau	45	3	3	6.7%	
Okaloosa	134	6	10	4.5%	
Okeechobee	54	4	4	7.4%	
Orange	878	65	68	7.4%	
Osceola	271	21	21	7.7%	
Palm Beach	677	72	52	10.6%	H
Pasco	254	12	20	4.7%	L
Pinellas	496	30	38	6.0%	
Polk	670	52	52	7.8%	
Putnam	104	9	8	8.7%	
Saint Johns	48	5	4	10.4%	
Saint Lucie	190	10	15	5.3%	
Santa Rosa	107	6	8	5.6%	
Sarasota	176	15	14	8.5%	
Seminole	176	16	14	9.1%	
Sumter	43	3	3	7.0%	
Suwannee	51	4	4	7.8%	
Taylor	36	0	3	0.0%	
Union	10	1	1	10.0%	
Volusia	311	19	24	6.1%	
Wakulla	12	0	1	0.0%	
Walton	43	2	3	4.7%	
Washington	24	3	2	12.5%	

* H - county percentage is statistically significantly higher than the state rate (alpha=0.05)
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Blank - no statistically significant difference between the county rate and the state rate

**Florida Repeat Birth Rates for Mothers Ages 15-19
2011 Through 2013**

County	2011 - 2013 Number of Births to Females 15-19	2011 - 2013 Actual Number of Repeat Births to to Mothers 15-19	2011 - 2013 Expected Number of Repeat Births to to Mothers 15-19	2011 - 2013 Actual Percent Repeat Births to to Mothers 15-19	Statistical Significance*
Statewide	47,029	7,964	7,964	16.9%	
Alachua	557	110	94	19.7%	
Baker	112	28	19	25.0%	H
Bay	650	116	110	17.8%	
Bradford	100	19	17	19.0%	
Brevard	1,059	142	179	13.4%	L
Broward	3,328	569	564	17.1%	
Calhoun	67	14	11	20.9%	
Charlotte	273	41	46	15.0%	
Citrus	359	47	61	13.1%	L
Clay	476	63	81	13.2%	L
Collier	602	80	102	13.3%	L
Columbia	244	34	41	13.9%	
Dade	5,172	861	876	16.6%	
Desoto	132	27	22	20.5%	
Dixie	57	9	10	15.8%	
Duval	2,848	485	482	17.0%	
Escambia	1,182	220	200	18.6%	
Flagler	199	27	34	13.6%	
Franklin	43	11	7	25.6%	
Gadsden	196	44	33	22.4%	H
Gilchrist	67	8	11	11.9%	
Glades	26	6	4	23.1%	
Gulf	41	4	7	9.8%	
Hamilton	62	12	10	19.4%	
Hardee	168	35	28	20.8%	
Hendry	236	45	40	19.1%	
Hernando	387	44	66	11.4%	L
Highlands	285	41	48	14.4%	
Hillsborough	4,005	786	678	19.6%	H
Holmes	69	10	12	14.5%	
Indian River	340	51	58	15.0%	
Jackson	155	25	26	16.1%	
Jefferson	36	5	6	13.9%	
Lafayette	26	4	4	15.4%	
Lake	828	137	140	16.5%	
Lee	1,530	241	259	15.8%	
Leon	573	87	97	15.2%	
Levy	117	18	20	15.4%	
Liberty	34	3	6	8.8%	
Madison	65	5	11	7.7%	L
Manatee	1,010	209	171	20.7%	H
Marion	998	174	169	17.4%	
Martin	243	44	41	18.1%	
Monroe	106	12	18	11.3%	
Nassau	191	36	32	18.8%	
Okaloosa	552	76	93	13.8%	L
Okeechobee	195	35	33	17.9%	
Orange	3,330	618	564	18.6%	H
Osceola	969	135	164	13.9%	L
Palm Beach	2,447	458	414	18.7%	H
Pasco	1,056	150	179	14.2%	L
Pinellas	1,858	305	315	16.4%	
Polk	2,226	395	377	17.7%	
Putnam	355	61	60	17.2%	
Saint Johns	281	47	48	16.7%	
Saint Lucie	738	129	125	17.5%	
Santa Rosa	432	52	73	12.0%	L
Sarasota	583	87	99	14.9%	
Seminole	732	112	124	15.3%	
Sumter	186	31	31	16.7%	
Suwannee	155	21	26	13.5%	
Taylor	100	15	17	15.0%	
Union	67	14	11	20.9%	
Volusia	1,175	179	199	15.2%	
Wakulla	70	6	12	8.6%	L
Walton	164	31	28	18.9%	
Washington	104	18	18	17.3%	

* H - county percentage is statistically significantly higher than the state rate (alpha=0.05)
L - county percentage is statistically significantly lower than the state rate (alpha= 0.05)
Blank - no statistically significant difference between the county rate and the state rate