

Florida Actual versus Expected Teen births and Repeat Teen Births By County 2009 through 2011

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 from the statewide rates and if each county had the expected number of births to teens age 15 to 19 (for example) then each county would have the same teen birth rate as the statewide rate.

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.

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.

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HSFFM – Dan Thompson 09/10/12

**Florida Teen Birth Rates for Mothers Ages 15-17
2009 Through 2011**

County	2009 - 2011 Number of Females 15-17	2009 - 2011 Actual Number of Births to Mothers 15-17	2009 - 2011 Expected Number of Births to Mothers 15-17	2009 - 2011 Number of Births per 1,000 Females 15-17	Statistical Significance*
Statewide	1,065,448	16,425	16,425	15.4	
Alachua	18,985	224	293	11.8	L
Baker	1,565	43	24	27.5	H
Bay	9,203	207	142	22.5	H
Bradford	1,354	24	21	17.7	
Brevard	29,725	342	458	11.5	L
Broward	100,043	1,136	1,542	11.4	L
Calhoun	829	20	13	24.1	H
Charlotte	6,458	91	100	14.1	
Citrus	6,250	105	96	16.8	
Clay	13,435	150	207	11.2	L
Collier	15,460	250	238	16.2	
Columbia	3,751	77	58	20.5	H
Dade	147,829	1,948	2,279	13.2	L
Desoto	1,738	65	27	37.4	H
Dixie	808	25	12	30.9	H
Duval	51,775	964	798	18.6	H
Escambia	18,751	414	289	22.1	H
Flagler	5,016	67	77	13.4	
Franklin	452	15	7	33.2	H
Gadsden	2,751	84	42	30.5	H
Gilchrist	958	15	15	15.7	
Glades	580	12	9	20.7	
Gulf	704	14	11	19.9	
Hamilton	748	29	12	38.8	H
Hardee	1,669	84	26	50.3	H
Hendry	2,622	96	40	36.6	H
Hernando	8,903	111	137	12.5	L
Highlands	4,484	90	69	20.1	H
Hillsborough	76,264	1,431	1,176	18.8	H
Holmes	1,087	23	17	21.2	
Indian River	6,735	117	104	17.4	
Jackson	2,591	36	40	13.9	
Jefferson	710	12	11	16.9	
Lafayette	405	6	6	14.8	
Lake	15,091	281	233	18.6	H
Lee	30,511	521	470	17.1	H
Leon	22,214	178	342	8.0	L
Levy	2,303	40	36	17.4	
Liberty	416	5	6	12.0	
Madison	1,119	15	17	13.4	
Manatee	15,976	353	246	22.1	H
Marion	16,972	378	262	22.3	H
Martin	6,868	93	106	13.5	
Monroe	2,879	25	44	8.7	L
Nassau	4,281	59	66	13.8	
Okaloosa	10,031	145	155	14.5	
Okeechobee	2,373	84	37	35.4	H
Orange	74,992	1,194	1,156	15.9	
Osceola	18,663	316	288	16.9	
Palm Beach	70,277	907	1,083	12.9	L
Pasco	24,585	294	379	12.0	L
Pinellas	44,397	691	684	15.6	
Polk	34,693	758	535	21.8	H
Putnam	4,122	145	64	35.2	H
Saint Johns	11,149	95	172	8.5	L
Saint Lucie	15,656	245	241	15.6	
Santa Rosa	9,419	130	145	13.8	
Sarasota	15,996	217	247	13.6	L
Seminole	26,849	283	414	10.5	L
Sumter	2,639	50	41	18.9	
Suwannee	2,255	59	35	26.2	H
Taylor	1,156	46	18	39.8	H
Union	758	17	12	22.4	
Volusia	26,403	368	407	13.9	L
Wakulla	1,673	27	26	16.1	
Walton	2,706	51	42	18.8	
Washington	1,388	28	21	20.2	

* 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 Teen Birth Rates for Mothers Ages 15-19
2009 Through 2011**

County	2009 - 2011 Number of Females 15-19	2009 - 2011 Actual Number of Births to Mothers 15-19	2009 - 2011 Expected Number of Births to Mothers 15-19	2009 - 2011 Number of Births per 1,000 Females 15-19	Statistical Significance*
Statewide	1,771,336	58,267	58,267	32.9	
Alachua	36,897	763	1,214	20.7	L
Baker	2,617	157	86	60.0	H
Bay	15,199	816	500	53.7	H
Bradford	2,214	131	73	59.2	H
Brevard	48,619	1,267	1,599	26.1	L
Broward	163,533	4,064	5,379	24.9	L
Calhoun	1,315	72	43	54.8	H
Charlotte	10,454	336	344	32.1	
Citrus	9,984	418	328	41.9	H
Clay	21,645	601	712	27.8	L
Collier	25,044	817	824	32.6	
Columbia	6,127	355	202	57.9	H
Dade	244,959	6,817	8,058	27.8	L
Desoto	2,850	176	94	61.8	H
Dixie	1,276	72	42	56.4	H
Duval	86,053	3,557	2,831	41.3	H
Escambia	32,533	1,457	1,070	44.8	H
Flagler	7,956	242	262	30.4	
Franklin	748	61	25	81.6	H
Gadsden	4,553	286	150	62.8	H
Gilchrist	1,540	61	51	39.6	
Glades	934	43	31	46.0	H
Gulf	1,102	57	36	51.7	H
Hamilton	1,194	97	39	81.2	H
Hardee	2,779	225	91	81.0	H
Hendry	4,290	281	141	65.5	H
Hernando	14,349	481	472	33.5	
Highlands	7,286	357	240	49.0	H
Hillsborough	127,858	4,884	4,206	38.2	H
Holmes	1,791	89	59	49.7	H
Indian River	10,891	378	358	34.7	
Jackson	4,325	190	142	43.9	H
Jefferson	1,160	50	38	43.1	H
Lafayette	671	32	22	47.7	H
Lake	24,579	998	809	40.6	H
Lee	50,281	1,760	1,654	35.0	H
Leon	43,670	720	1,436	16.5	L
Levy	3,717	170	122	45.7	H
Liberty	650	26	21	40.0	
Madison	1,795	77	59	42.9	H
Manatee	26,260	1,155	864	44.0	H
Marion	27,814	1,304	915	46.9	H
Martin	11,040	317	363	28.7	L
Monroe	4,695	109	154	23.2	L
Nassau	6,827	268	225	39.3	H
Okaloosa	16,493	638	543	38.7	H
Okeechobee	3,895	263	128	67.5	H
Orange	127,258	3,902	4,186	30.7	L
Osceola	30,587	1,086	1,006	35.5	H
Palm Beach	115,461	3,111	3,798	26.9	L
Pasco	40,371	1,216	1,328	30.1	L
Pinellas	72,909	2,369	2,398	32.5	
Polk	57,617	2,775	1,895	48.2	H
Putnam	6,798	446	224	65.6	H
Saint Johns	18,461	348	607	18.9	L
Saint Lucie	25,558	911	841	35.6	H
Santa Rosa	15,145	458	498	30.2	L
Sarasota	26,130	736	860	28.2	L
Seminole	43,977	950	1,447	21.6	L
Sumter	4,251	232	140	54.6	H
Suwannee	3,707	200	122	54.0	H
Taylor	1,866	130	61	69.7	H
Union	1,210	70	40	57.9	H
Volusia	44,263	1,459	1,456	33.0	
Wakulla	2,715	84	89	30.9	
Walton	4,402	173	145	39.3	H
Washington	2,188	116	72	53.0	H

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**Florida Repeat Birth Rates for Mothers Ages 15-17
2009 Through 2011**

County	2009 - 2011 Number of Births to Females 15-17	2009 - 2011 Actual Number of Repeat Births to to Mothers 15-17	2009 - 2011 Expected Number of Repeat Births to to Mothers 15-17	2009 - 2011 Actual Percent Repeat Births to to Mothers 15-17	Statistical Significance*
Statewide	16,425	1,475	1,475	9.0%	
Alachua	224	28	20	12.5%	
Baker	43	5	4	11.6%	
Bay	207	13	19	6.3%	
Bradford	24	3	2	12.5%	
Brevard	342	21	31	6.1%	L
Broward	1,136	104	102	9.2%	
Calhoun	20	3	2	15.0%	
Charlotte	91	6	8	6.6%	
Citrus	105	8	9	7.6%	
Clay	150	11	13	7.3%	
Collier	250	23	22	9.2%	
Columbia	77	6	7	7.8%	
Dade	1,948	194	175	10.0%	
Desoto	65	4	6	6.2%	
Dixie	25	2	2	8.0%	
Duval	964	93	87	9.6%	
Escambia	414	47	37	11.4%	
Flagler	67	2	6	3.0%	L
Franklin	15	0	1	0.0%	
Gadsden	84	9	8	10.7%	
Gilchrist	15	1	1	6.7%	
Glades	12	0	1	0.0%	
Gulf	14	1	1	7.1%	
Hamilton	29	4	3	13.8%	
Hardee	84	10	8	11.9%	
Hendry	96	10	9	10.4%	
Hernando	111	2	10	1.8%	L
Highlands	90	12	8	13.3%	
Hillsborough	1,431	139	129	9.7%	
Holmes	23	4	2	17.4%	
Indian River	117	5	11	4.3%	L
Jackson	36	2	3	5.6%	
Jefferson	12	1	1	8.3%	
Lafayette	6	0	1	0.0%	
Lake	281	20	25	7.1%	
Lee	521	50	47	9.6%	
Leon	178	16	16	9.0%	
Levy	40	0	4	0.0%	
Liberty	5	1	0	20.0%	
Madison	15	1	1	6.7%	
Manatee	353	43	32	12.2%	H
Marion	378	31	34	8.2%	
Martin	93	8	8	8.6%	
Monroe	25	2	2	8.0%	
Nassau	59	1	5	1.7%	L
Okaloosa	145	6	13	4.1%	L
Okeechobee	84	5	8	6.0%	
Orange	1,194	108	107	9.0%	
Osceola	316	29	28	9.2%	
Palm Beach	907	103	81	11.4%	H
Pasco	294	16	26	5.4%	L
Pinellas	691	55	62	8.0%	
Polk	758	66	68	8.7%	
Putnam	145	16	13	11.0%	
Saint Johns	95	9	9	9.5%	
Saint Lucie	245	16	22	6.5%	
Santa Rosa	130	7	12	5.4%	
Sarasota	217	20	19	9.2%	
Seminole	283	20	25	7.1%	
Sumter	50	4	4	8.0%	
Suwannee	59	6	5	10.2%	
Taylor	46	2	4	4.3%	
Union	17	1	2	5.9%	
Volusia	368	33	33	9.0%	
Wakulla	27	3	2	11.1%	
Walton	51	3	5	5.9%	
Washington	28	1	3	3.6%	

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**Florida Repeat Birth Rates for Mothers Ages 15-19
2009 Through 2011**

County	2009 - 2011 Number of Births to Females 15-19	2009 - 2011 Actual Number of Repeat Births to to Mothers 15-19	2009 - 2011 Expected Number of Repeat Births to to Mothers 15-19	2009 - 2011 Actual Percent Repeat Births to to Mothers 15-19	Statistical Significance*
Statewide	58,267	10,560	10,560	18.1%	
Alachua	763	151	138	19.8%	
Baker	157	29	28	18.5%	
Bay	816	144	148	17.6%	
Bradford	131	23	24	17.6%	
Brevard	1,267	188	230	14.8%	L
Broward	4,064	700	737	17.2%	
Calhoun	72	13	13	18.1%	
Charlotte	336	58	61	17.3%	
Citrus	418	63	76	15.1%	
Clay	601	79	109	13.1%	L
Collier	817	147	148	18.0%	
Columbia	355	64	64	18.0%	
Dade	6,817	1,215	1,235	17.8%	
Desoto	176	29	32	16.5%	
Dixie	72	9	13	12.5%	
Duval	3,557	682	645	19.2%	
Escambia	1,457	311	264	21.3%	H
Flagler	242	37	44	15.3%	
Franklin	61	8	11	13.1%	
Gadsden	286	69	52	24.1%	H
Gilchrist	61	11	11	18.0%	
Glades	43	7	8	16.3%	
Gulf	57	8	10	14.0%	
Hamilton	97	23	18	23.7%	
Hardee	225	51	41	22.7%	
Hendry	281	53	51	18.9%	
Hernando	481	67	87	13.9%	L
Highlands	357	76	65	21.3%	
Hillsborough	4,884	999	885	20.5%	H
Holmes	89	22	16	24.7%	
Indian River	378	60	69	15.9%	
Jackson	190	41	34	21.6%	
Jefferson	50	10	9	20.0%	
Lafayette	32	7	6	21.9%	
Lake	998	164	181	16.4%	
Lee	1,760	325	319	18.5%	
Leon	720	125	130	17.4%	
Levy	170	28	31	16.5%	
Liberty	26	4	5	15.4%	
Madison	77	9	14	11.7%	
Manatee	1,155	270	209	23.4%	H
Marion	1,304	273	236	20.9%	H
Martin	317	65	57	20.5%	
Monroe	109	14	20	12.8%	
Nassau	268	46	49	17.2%	
Okaloosa	638	105	116	16.5%	
Okeechobee	263	43	48	16.3%	
Orange	3,902	708	707	18.1%	
Osceola	1,086	169	197	15.6%	L
Palm Beach	3,111	598	564	19.2%	
Pasco	1,216	173	220	14.2%	L
Pinellas	2,369	406	429	17.1%	
Polk	2,775	532	503	19.2%	
Putnam	446	86	81	19.3%	
Saint Johns	348	48	63	13.8%	L
Saint Lucie	911	171	165	18.8%	
Santa Rosa	458	50	83	10.9%	L
Sarasota	736	111	133	15.1%	L
Seminole	950	147	172	15.5%	L
Sumter	232	44	42	19.0%	
Suwannee	200	41	36	20.5%	
Taylor	130	18	24	13.8%	
Union	70	15	13	21.4%	
Volusia	1,459	257	264	17.6%	
Wakulla	84	11	15	13.1%	
Walton	173	29	31	16.8%	
Washington	116	21	21	18.1%	

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