

North Carolina Oral Health Section

Kindergarten and Fifth Grade

Oral Health Status

County Level Summary

2009 - 2010

North Carolina Calibrated Dental Screening Data

During 1995-1996, the Division of Public Health, Dental Health Section, staff developed and pilot tested an assessment technique which modified and standardized their dental screenings for kindergarten and fifth grade schoolchildren. The aim of the project was to develop a simple measurement of decayed and filled teeth to be used by public health dental hygienists to give an indication of the level of dental disease within each county. Results of the pilot tests showed the technique to be reliable, valid and practical. This standardization of data collection increased the comparability and accuracy, and therefore the usefulness, of the data at the state and local level for program planning, evaluation and accountability.

Historically, most counties were able to conduct the technique annually. However, due to budget reductions, some areas of the state do not have an adequate number of public health dental hygienists to be able to gather the data every year. Some of the larger counties which have locally funded dental hygienists do not regularly conduct the technique due to the large number of children in their areas and other pressing priorities. Attempts to address these issues continue.

These charts contain the following pieces of dental health information. Lower case letters, such as fmt, refer to primary or baby teeth, and upper case letters, such as FMT, refer to permanent teeth:

- “# Screened” is the number of students screened
- “% Screened” is the number of students screened divided by the enrollment for the first 30 days of school as reported by the Department of Public Instruction
- On the data by ethnicity reports, “% Screened” is calculated for Black, Hispanic and White only
- “fmt”, “FMT” (number of filled and missing teeth); “dt”, “DT” (number of decayed teeth); “dmft”, “DMTF” (number of decayed, missing, and filled teeth) are averages for each child in the school, county, or state
- “% dmft = 0”, “% DMFT = 0” is the percentage of children with no decayed, missing, or filled teeth, that is they have never had a cavity or filling in a primary tooth (for kindergarten) or permanent tooth (for fifth grade) students
- “% dt”, “% DT” is the percentage of children with untreated dental decay
- “% Sealants” is the percent of fifth grade students with preventive dental sealants

Data for groups of 4 or smaller are recorded as ***** on these charts since the sample size is so small. However, the data for these groups is included in the total school, county, and state level data. Also, rates on counts less than 20 may be statistically unreliable and should be interpreted with caution.

Keep in mind that, no matter how well calibrated the dental public health staff are, this is still a screening performed by a large number of people and that a difference of a fraction of a tooth surface does not demonstrate a significant difference between counties.

County Level Oral Health Status***2009-2010**

Total Counties Assessed / Reported: 95**Counties Not Assessed / Reported:**

County Name	Kindergarten		Grade 5	
	Total Enrollment	Percent of State Enrollment	Total Enrollment	Percent of State Enrollment
Burke	912	0.87%	1055	0.92%
Iredell	1922	1.83%	2253	1.96%
Jones	102	0.10%	91	0.08%
Lenoir	653	0.62%	811	0.70%
Wake	11172	10.64%	11486	9.98%
Total	14761	14.06%	15696	13.64%

The Total Enrollment for Counties Not Reported/Assessed is included in the denominator for % Screened on the State Totals line.

County Level Oral Health Status*

2009-2010

County Name	Kindergarten							Grade 5							
	Screened		%dmft					Screened		%DMFT					
	#	%	fmt	dt	dmft	=0/0	%dt	#	%	FMT	DT	DMFT	=0/0	%DT	%Sealants
Alamance	1513	93%	0.84	0.31	1.15	67%	12%	1782	94%	0.39	0.03	0.41	76%	2%	32%
Alexander	355	95%	0.88	0.48	1.36	68%	14%	401	95%	0.41	0.14	0.55	78%	6%	40%
Alleghany	91	96%	0.89	0.60	1.49	57%	22%	119	98%	0.55	0.06	0.61	69%	3%	71%
Anson	239	93%	0.56	0.45	1.01	69%	18%	268	95%	0.19	0.06	0.26	85%	3%	24%
Ashe	210	91%	1.16	0.63	1.79	59%	22%	259	94%	0.29	0.05	0.35	82%	4%	71%
Avery	134	84%	1.14	0.53	1.67	57%	19%	167	89%	0.41	0.03	0.44	75%	2%	45%
Beaufort	470	93%	1.58	0.53	2.10	57%	20%	499	91%	0.74	0.06	0.80	67%	4%	34%
Bertie	163	89%	0.59	0.78	1.37	64%	25%	202	93%	0.38	0.27	0.65	76%	8%	19%
Bladen	322	89%	1.52	0.56	2.08	58%	18%	379	88%	0.47	0.06	0.54	75%	4%	17%
Brunswick	798	89%	0.78	0.40	1.18	68%	13%	908	88%	0.27	0.05	0.32	83%	3%	27%
Buncombe	1935	87%	1.57	0.30	1.87	61%	12%	697	28%	1.17	0.05	1.21	56%	3%	55%
Cabarrus	2163	89%	0.65	0.25	0.90	75%	11%	2354	90%	0.29	0.02	0.32	84%	2%	35%
Caldwell	830	95%	0.78	0.52	1.30	69%	17%	982	93%	0.41	0.16	0.58	76%	7%	44%
Camden	138	100%	0.76	0.60	1.36	62%	22%	140	94%	0.30	0.04	0.34	78%	4%	48%
Carteret	490	86%	0.86	0.44	1.30	70%	14%	599	92%	0.46	0.07	0.53	74%	5%	39%
Caswell	183	89%	1.05	0.41	1.46	61%	16%	212	91%	0.34	0.03	0.38	81%	2%	17%
Catawba	1645	98%	0.89	0.43	1.33	68%	15%	1879	99%	0.40	0.02	0.42	78%	2%	62%
Chatham	529	83%	0.74	0.29	1.02	71%	12%	542	79%	0.63	0.04	0.67	72%	3%	38%
Cherokee	192	83%	1.44	0.67	2.11	53%	26%	218	83%	0.52	0.02	0.54	72%	2%	46%
Chowan	148	95%	0.96	0.85	1.81	57%	31%	169	95%	0.36	0.09	0.45	75%	7%	41%
Clay	88	82%	1.69	0.49	2.18	47%	19%	92	95%	0.38	0.02	0.40	79%	1%	40%
Cleveland	1019	92%	0.55	0.25	0.80	74%	11%	1114	91%	0.20	0.02	0.22	88%	1%	36%
Columbus	615	89%	1.34	0.79	2.13	55%	22%	722	97%	0.45	0.06	0.50	76%	4%	23%
Craven	1040	92%	1.20	0.36	1.56	60%	15%	1078	94%	0.66	0.04	0.70	69%	3%	40%
Cumberland	874	24%	1.24	0.30	1.54	64%	14%	832	20%	0.63	0.03	0.66	70%	2%	46%
Currituck	263	95%	0.71	0.51	1.22	66%	19%	324	96%	0.37	0.04	0.41	78%	3%	45%
Dare	345	94%	0.75	0.44	1.19	66%	14%	340	96%	0.43	0.01	0.44	78%	1%	61%
For Comparison															
State Totals	77788	74%	1.08	0.42	1.50	64%	15%	78954	69%	0.49	0.05	0.55	75%	3%	44%

* All data are explained in the introduction to this report on page 1.

County Level Oral Health Status*

2009-2010

County Name	Kindergarten							Grade 5							
	Screened		%dmft					Screened		%DMFT					
	#	%	fmt	dt	dmft	=0/0	%dt	#	%	FMT	DT	DMFT	=0/0	%DT	%Sealants
Davidson	1698	90%	1.20	0.61	1.81	58%	21%	1901	95%	0.77	0.10	0.87	62%	7%	60%
Davie	458	97%	1.03	0.42	1.45	68%	16%	508	96%	0.49	0.07	0.56	78%	3%	58%
Duplin	635	93%	2.34	0.87	3.21	44%	24%	646	93%	0.76	0.13	0.89	61%	8%	54%
Durham	2026	79%	2.20	0.28	2.48	40%	11%	1917	69%	1.25	0.05	1.30	53%	3%	32%
Edgecombe	494	93%	0.99	0.70	1.69	58%	23%	490	97%	0.42	0.07	0.49	73%	6%	40%
Forsyth	3670	90%	0.99	0.53	1.53	62%	21%	3817	90%	0.41	0.09	0.51	76%	6%	62%
Franklin	589	93%	1.63	0.53	2.16	54%	18%	595	94%	1.09	0.11	1.20	54%	7%	46%
Gaston	1998	89%	1.29	0.31	1.60	63%	12%	2375	89%	0.50	0.03	0.53	77%	2%	45%
Gates	104	97%	0.49	0.36	0.85	73%	15%	143	99%	0.37	0.05	0.42	77%	3%	29%
Graham	81	91%	1.89	0.26	2.15	57%	14%	99	92%	0.47	0.04	0.52	77%	4%	49%
Granville	540	94%	1.30	0.60	1.90	54%	21%	656	94%	1.09	0.06	1.16	54%	5%	43%
Greene	208	97%	1.15	1.08	2.23	52%	29%	250	93%	0.69	0.08	0.77	66%	6%	56%
Guilford	4558	90%	1.12	0.37	1.48	63%	14%	0							
Halifax	478	92%	0.62	0.63	1.25	64%	23%	507	93%	0.27	0.08	0.35	82%	4%	29%
Harnett	1166	85%	1.02	0.40	1.42	67%	15%	1190	81%	0.42	0.08	0.50	74%	5%	33%
Haywood	492	95%	1.85	0.29	2.14	54%	11%	576	97%	1.01	0.02	1.03	58%	2%	60%
Henderson	791	83%	1.31	0.35	1.66	60%	14%	941	87%	0.44	0.02	0.46	76%	1%	46%
Hertford	49	22%	0.45	0.78	1.22	59%	31%	54	22%	0.19	0.07	0.26	85%	7%	26%
Hoke	576	92%	1.47	0.73	2.20	56%	21%	617	94%	0.56	0.06	0.62	73%	3%	40%
Hyde	26	84%	3.04	0.50	3.54	50%	19%	28	72%	0.79	0.04	0.82	68%	4%	46%
Jackson	221	85%	2.06	0.51	2.57	52%	16%	285	87%	0.47	0.08	0.55	76%	5%	38%
Johnston	2049	87%	0.77	0.34	1.11	72%	12%	2232	84%	0.61	0.04	0.64	73%	3%	33%
Lee	583	79%	0.75	0.26	1.02	71%	12%	689	87%	0.58	0.04	0.62	72%	3%	54%
Lincoln	740	83%	1.02	0.28	1.30	69%	11%	856	86%	0.28	0.02	0.31	83%	2%	49%
Macon	307	92%	1.69	0.38	2.07	55%	14%	335	94%	0.76	0.03	0.79	63%	2%	44%
Madison	189	93%	1.46	0.61	2.06	53%	20%	224	95%	0.88	0.05	0.92	62%	3%	49%
Martin	306	100%	1.19	0.41	1.60	63%	16%	314	93%	0.54	0.03	0.56	75%	2%	39%
For Comparison															
State Totals	77788	74%	1.08	0.42	1.50	64%	15%	78954	69%	0.49	0.05	0.55	75%	3%	44%

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County Level Oral Health Status*

2009-2010

County Name	Kindergarten							Grade 5							
	Screened		%dmft					Screened		%DMFT					
	#	%	fmt	dt	dmft	=0/0	%dt	#	%	FMT	DT	DMFT	=0/0	%DT	%Sealants
McDowell	409	99%	1.75	0.85	2.59	52%	21%	485	96%	0.88	0.06	0.94	60%	4%	45%
Mecklenburg	9450	88%	0.86	0.21	1.07	71%	9%	9526	85%	0.36	0.03	0.39	82%	2%	36%
Mitchell	129	88%	1.58	0.58	2.16	50%	16%	144	92%	0.41	0.08	0.49	70%	7%	53%
Montgomery	259	100%	1.20	0.61	1.80	50%	26%	347	96%	0.56	0.05	0.61	68%	4%	64%
Moore	808	89%	1.05	0.37	1.42	64%	17%	911	92%	0.43	0.04	0.47	75%	3%	65%
Nash	1142	93%	0.75	0.45	1.20	67%	17%	1328	92%	0.37	0.05	0.42	79%	4%	29%
New Hanover	1629	91%	0.61	0.23	0.85	76%	8%	1681	91%	0.28	0.05	0.34	82%	3%	53%
Northampton	198	94%	0.97	0.57	1.55	56%	22%	257	92%	0.27	0.04	0.32	80%	4%	28%
Onslow	1797	96%	0.70	0.33	1.03	70%	13%	1823	95%	0.32	0.03	0.35	81%	2%	72%
Orange	1164	93%	0.77	0.20	0.97	73%	9%	1375	94%	0.25	0.03	0.28	85%	2%	38%
Pamlico	125	87%	1.51	0.43	1.94	58%	18%	129	96%	0.64	0.07	0.71	64%	4%	33%
Pasquotank	352	88%	0.67	0.55	1.22	66%	22%	473	93%	0.24	0.07	0.31	83%	4%	24%
Pender	431	92%	1.66	0.65	2.32	56%	19%	540	92%	0.73	0.11	0.84	63%	6%	56%
Perquimans	114	98%	1.07	0.78	1.85	61%	27%	128	96%	0.27	0.06	0.34	83%	5%	45%
Person	368	94%	0.83	0.32	1.15	68%	11%	364	82%	0.40	0.07	0.47	77%	4%	27%
Pitt	1514	93%	1.29	0.41	1.70	63%	15%	1691	92%	0.29	0.07	0.36	83%	5%	47%
Polk	142	97%	2.08	0.61	2.68	43%	25%	171	96%	1.44	0.01	1.45	51%	1%	52%
Randolph	1545	93%	0.89	0.36	1.25	65%	12%	1750	91%	0.49	0.03	0.52	73%	2%	30%
Richmond	449	92%	1.17	0.71	1.89	57%	22%	585	99%	0.60	0.06	0.67	71%	4%	33%
Robeson	1442	85%	1.85	0.90	2.75	44%	30%	1660	89%	0.97	0.12	1.09	54%	9%	31%
Rockingham	905	94%	1.24	0.54	1.78	58%	19%	1094	96%	0.61	0.05	0.66	69%	4%	43%
Rowan	1273	89%	0.97	0.68	1.65	60%	25%	1402	91%	0.28	0.11	0.39	82%	6%	51%
Rutherford	716	98%	1.82	0.57	2.39	52%	21%	763	96%	1.19	0.08	1.27	57%	5%	44%
Sampson	767	88%	1.59	0.50	2.08	55%	19%	820	91%	0.35	0.06	0.40	76%	4%	21%
Scotland	390	85%	0.99	0.81	1.80	56%	28%	426	89%	0.56	0.05	0.61	72%	4%	20%
Stanly	585	85%	0.65	0.24	0.89	73%	11%	586	84%	0.28	0.02	0.30	84%	1%	45%
Stokes	423	93%	1.45	0.55	2.00	54%	19%	499	95%	0.45	0.04	0.48	79%	2%	60%
For Comparison															
State Totals	77788	74%	1.08	0.42	1.50	64%	15%	78954	69%	0.49	0.05	0.55	75%	3%	44%

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County Level Oral Health Status*

2009-2010

County Name	Kindergarten							Grade 5							
	Screened		fmt	dt	dmft	%dmft		Screened		FMT	DT	%DMFT		%Sealants	
	#	%				#	%	=0/0	%dt			#	%		=0/0
Surry	615	73%	1.62	0.73	2.35	49%	24%	737	78%	0.50	0.04	0.54	73%	2%	70%
Swain	123	77%	1.59	0.54	2.13	53%	17%	126	79%	0.77	0.03	0.80	64%	2%	58%
Transylvania	181	72%	1.40	0.36	1.76	55%	18%	247	90%	0.55	0.03	0.59	72%	2%	40%
Tyrrell	36	95%	1.53	0.69	2.22	47%	22%	46	94%	0.57	0.11	0.67	76%	4%	37%
Union	2345	84%	0.48	0.38	0.86	73%	14%	2554	80%	0.17	0.07	0.23	88%	4%	67%
Vance	492	90%	1.91	1.12	3.04	41%	33%	589	95%	1.37	0.07	1.44	47%	6%	41%
Warren	156	90%	0.78	0.67	1.45	64%	22%	196	94%	0.40	0.07	0.47	77%	5%	29%
Washington	122	70%	1.19	0.79	1.98	60%	24%	98	64%	1.08	0.05	1.13	59%	3%	17%
Watauga	262	85%	0.74	0.52	1.26	70%	13%	295	90%	0.27	0.04	0.31	82%	2%	65%
Wayne	1106	76%	1.06	0.34	1.40	64%	16%	1325	85%	0.42	0.04	0.46	76%	3%	53%
Wilkes	572	89%	0.96	0.29	1.25	67%	9%	706	87%	0.36	0.04	0.40	78%	2%	86%
Wilson	877	84%	0.83	0.69	1.52	63%	21%	955	85%	0.34	0.08	0.42	81%	5%	36%
Yadkin	398	98%	1.65	0.62	2.26	51%	17%	454	97%	0.66	0.02	0.67	69%	1%	61%
Yancey	153	89%	1.56	0.53	2.08	55%	20%	145	91%	0.63	0.11	0.74	68%	5%	48%

For Comparison

State Totals	77788	74%	1.08	0.42	1.50	64%	15%	78954	69%	0.49	0.05	0.55	75%	3%	44%
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