

## The Oral Health of Alabama's Children, 2010-2012

Table 1: Demographic characteristics of children surveyed compared to participating schools, schools in the original sample and schools in the sampling frame (based on 2010-2011 enrollment data & children surveyed)

	Number of Schools	Number in Kinder.	Number in 3 <sup>rd</sup> Grade	Percent on FRL <sup>1</sup>	Percent White	Percent Black
All Schools in Sampling Frame	698	57,199	56,361	60%	59%	32%
Schools in Original Sample <sup>2</sup>	63	5,886	4,863	58%	59%	34%
Participating Schools <sup>3</sup>	63	5,597	4,950	60%	60%	32%
Children Screened <sup>4</sup>	NA	4,953	4,104	NA	58%	32%

<sup>1</sup> Free or reduced price school lunch program (FRL)

<sup>2</sup> Sampling was based on 3<sup>rd</sup> grade enrollment. Of the 63 schools originally selected, 6 did not have kindergarten. The kindergarten “feeder” schools for these 6 schools were added to the sample for a total of 69 schools from 63 sampling intervals.

<sup>3</sup> A total of 63 schools with third grade plus 5 kindergarten feeder schools participated for a total of 68 schools. Data is available for all 63 sampling intervals.

<sup>4</sup> One child in kindergarten had missing data for all of the oral health indicators.

NA=Not Available

**NOTE:** The participating schools are representative of the state in terms of socioeconomic status and race. The children screened are representative of the state in terms of race.

*Unless otherwise indicated, all estimates presented are adjusted for the complex cluster sampling design and non-response.*

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Table 2: Race/ethnicity, gender and age of participating children by grade

Demographic Characteristic	Kindergarten (n=4,953)	Third Grade (n=4,104)	Total (n=9,057)
<b>Race/Ethnicity (% of children)</b>			
White	57.7%	56.3%	57.0%
Black/African American	31.1%	34.2%	32.5%
Hispanic/Latino	6.1%	5.2%	5.7%
Asian	1.9%	1.1%	1.5%
American Indian/Alaska Native	0.0%	0.1%	0.1%
Native Hawaiian/Pacific Islander	0.0%	0.1%	0.1%
Multi-racial	1.8%	1.4%	1.6%
Missing/Unknown	1.4%	1.6%	1.5%
<b>Gender (% of children)</b>			
Male	51.4%	50.5%	51.0%
Female	48.4%	49.2%	48.7%
Missing/Unknown	0.3%	0.3%	0.3%
<b>Age (% of children)</b>			
3 years	0.0%	0.0%	0.0%
4 years	0.0%	0.0%	0.0%
5 years	51.8%	0.1%	28.4%
6 years	44.5%	0.1%	24.4%
7 years	1.3%	0.0%	0.7%
8 years	0.1%	46.8%	21.2%
9 years	0.3%	46.7%	21.3%
10 years	0.0%	4.5%	2.1%
Missing/Unknown	2.0%	1.7%	1.9%

Table 3: Number of children participating in each of Alabama's dental districts by grade

Dental District	Kindergarten (n=4,953)	Third Grade (n=4,104)	Total (n=9,057)
1	572	514	1,086
2	493	451	944
3	422	346	768
4	39	48	87
5	755	654	1,409
6	391	400	791
7	800	719	1,519
8	896	701	1,597
9	585	271	856
TOTAL	4,953	4,104	9,057

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Table 4: Oral health status of Alabama's kindergarten and third grade children (95% confidence interval)

Oral Health Variable	Kindergarten (n=4,953)		Third Grade (n=4,104)		Total (n=9,057)	
% with decay experience <sup>1</sup>	43.1		57.6		49.7	
95% confidence limits	38.7	47.5	54.2	61.0	45.9	53.6
% with untreated decay <sup>2</sup>	19.7		21.3		20.4	
95% confidence limits	16.8	22.5	18.8	23.8	18.0	22.8
% needing any dental treatment <sup>3</sup>	19.4		21.6		20.4	
95% confidence limits	16.3	22.5	18.8	24.4	17.7	23.1
% needing <b>urgent</b> dental treatment <sup>4</sup>	5.1		5.6		5.3	
95% confidence limits	3.7	6.6	4.1	7.1	4.0	6.7
% with dental sealants <sup>5</sup>	NA		29.0		NA	
95% confidence limits			25.7	32.4		

<sup>1</sup> Refers to having untreated decay or a dental filling, crown, or other type of restorative dental material. Also includes teeth that were extracted because of tooth decay.

<sup>2</sup> Describes dental cavities or tooth decay that have not received appropriate treatment.

<sup>3</sup> Needs dental treatment means that a child needs early or urgent dental care.

<sup>4</sup> Needs urgent dental treatment means that a child needs urgent dental care because of pain or infection.

<sup>5</sup> Describes plastic-like coatings applied to the chewing surfaces of permanent back teeth. The applied sealant resin bonds into the grooves of teeth to form a protective physical barrier.

NA Not applicable. Because of permanent tooth eruption patterns, the sealant indicator is only appropriate for 3<sup>rd</sup> grade children.

**Note:** Information on decay experience was missing for 2 children. Information on untreated decay was missing for 2 children. Information on dental treatment needs was missing for 4 children and information on dental sealants was missing for 2 children in 3<sup>rd</sup> grade.

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Table 5A: Oral health status of Alabama's **kindergarten** children stratified by race and ethnicity

Oral Health Variable	White (n=2,857)		Black/African American (n=1,541)		Other/Unknown (n=555)	
	% with decay experience	38.7		48.1		52.2
95% confidence limits	33.8	43.7	43.4	52.7	43.8	60.6
% with untreated decay	18.5		21.2		21.3	
95% confidence limits	15.0	22.1	18.1	24.3	17.3	25.4
% needing dental treatment	17.9		21.1		22.2	
95% confidence limits	14.2	21.7	17.9	24.4	17.2	27.2
% needing <b>urgent</b> dental treatment	5.2		4.7		6.0	
95% confidence limits	3.6	6.7	3.0	6.5	2.1	9.9

Table 5B: Oral health status of Alabama's **third grade** children stratified by race and ethnicity

Oral Health Variable	White (n=2,310)		Black/ African American (n=1,402)		Other/Unknown (n=392)	
	% with decay experience	55.1		59.8		65.5
95% confidence limits	49.9	60.2	56.2	63.4	59.5	71.5
% with untreated decay	20.2		22.6		22.8	
95% confidence limits	17.4	23.0	19.1	26.1	17.7	27.9
% needing dental treatment	20.0		23.6		24.3	
95% confidence limits	16.8	23.1	20.2	27.1	17.6	31.1
% needing <b>urgent</b> dental treatment	4.5		6.8		7.8	
95% confidence limits	3.0	6.1	4.7	8.9	2.6	12.9
% with dental sealants	31.0		25.5		29.0	
95% confidence limits	26.5	35.5	21.5	29.6	22.8	35.3

Table 5C: Oral health status of Alabama's **kindergarten & third grade** children stratified by race and ethnicity

Oral Health Variable	White (n=5,167)		Black/African American (n=2,943)		Other/Unknown (n=947)	
	% with decay experience	46.1		53.7		57.6
95% confidence limits	41.3	51.0	50.4	56.9	50.9	64.3
% with untreated decay	19.3		21.9		21.9	
95% confidence limits	16.4	22.2	19.3	24.5	18.2	25.6
% needing dental treatment	18.9		22.3		23.1	
95% confidence limits	15.8	21.9	19.5	25.1	18.0	28.1
% needing <b>urgent</b> dental treatment	4.9		5.7		6.7	
95% confidence limits	3.5	6.2	4.0	7.5	2.5	10.9

## The Oral Health of Alabama's Children, 2010-2012

Table 6A: Oral health status of Alabama's **kindergarten** children stratified by school's FRL level

Oral Health Variable	"Higher Income"				"Lower Income"			
	< 25% FRL (n=199)		25-49% FRL (n=1,651)		50-74% FRL (n=1,997)		≥ 75% FRL (n=1,106)	
% with decay experience	24.2		34.1		47.5		50.7	
95% confidence limits	21.5	26.9	26.1	42.0	43.8	51.2	43.9	57.5
% with untreated decay	10.3		13.9		22.8		23.5	
95% confidence limits	8.3	12.3	8.8	19.1	19.7	25.9	20.8	26.1
% needing dental treatment	10.6		13.0		22.3		24.2	
95% confidence limits	9.0	12.1	7.8	18.2	18.6	25.9	21.1	27.3
% needing <b>urgent</b> treatment	0.6		2.7		6.1		7.3	
95% confidence limits	0.0	1.7	1.3	4.1	4.1	8.1	4.2	10.4

Table 6B: Oral health status of Alabama's **third grade** children stratified by school's FRL level

Oral Health Variable	"Higher Income"				"Lower Income"			
	< 25% FRL (n=189)		25-49% FRL (n=1,238)		50-74% FRL (n=1,728)		≥ 75% FRL (n=949)	
% with decay experience	33.9		49.6		63.4		62.7	
95% confidence limits	18.7	49.2	45.8	53.4	60.2	66.7	57.2	68.1
% with untreated decay	9.1		16.9		24.0		24.5	
95% confidence limits	1.5	16.8	13.8	19.9	20.6	27.4	19.9	29.1
% needing dental treatment	8.3		17.1		23.2		26.8	
95% confidence limits	0.0	16.9	13.9	20.2	19.2	27.1	21.4	32.1
% needing <b>urgent</b> treatment	1.9		2.8		5.3		9.5	
95% confidence limits	0.0	5.2	1.7	3.9	2.9	7.7	6.0	13.1
% with dental sealants	34.6		29.6		30.9		24.6	
95% confidence limits	33.9	35.3	22.9	36.3	24.5	37.4	19.0	30.3

Table 6C: Oral health status of Alabama's **kindergarten and third grade** children stratified by school's FRL level

Oral Health Variable	"Higher Income"				"Lower Income"			
	< 25% FRL (n=388)		25-49% FRL (n=2,889)		50-74% FRL (n=3,725)		≥ 75% FRL (n=2,055)	
% with decay experience	28.9		40.9		54.9		56.2	
95% confidence limits	19.7	38.1	34.3	47.5	51.8	58.0	50.4	61.9
% with untreated decay	9.7		15.2		23.4		23.9	
95% confidence limits	6.4	13.1	11.1	19.4	20.6	26.1	21.1	26.8
% needing dental treatment	9.5		14.8		22.7		25.4	
95% confidence limits	5.9	13.1	10.5	19.0	19.4	26.0	21.9	28.9
% needing <b>urgent</b> treatment	1.2		2.7		5.8		8.3	
95% confidence limits	0.0	3.5	1.6	3.9	4.0	7.5	5.2	11.5

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Table 7A: Oral health status of Alabama's **kindergarten and third grade** children stratified by dental district

Dental District	# screened	% with decay experience	% with untreated decay	% needing treatment	% needing urgent treatment
1	1,086	47.8	23.4	23.9	7.5
2	944	55.9	20.8	21.4	5.7
3	768	59.8	24.2	23.8	6.1
4	87	43.3	20.0	17.7	0.0
5	1,409	55.3	21.6	22.6	6.9
6	791	51.2	25.7	25.9	7.9
7	1,519	46.7	14.6	14.0	1.4
8	1,597	47.6	19.7	19.3	4.0
9	856	38.8	17.2	17.0	7.5

Table 7B: Prevalence of dental sealants among Alabama's **third grade** children stratified by dental district

Dental District	# 3 <sup>rd</sup> graders screened	% with dental sealants
1	514	26.9
2	451	33.7
3	346	35.7
4	48	25.9
5	654	24.6
6	400	17.7
7	719	35.9
8	701	30.2
9	271	25.5

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Table 8: Oral health status of Alabama's kindergarten and third grade children stratified by school (unadjusted)

School Name	County	City	# Kinder Screened	# Third Screened	% with Decay Experience	% with Untreated Decay	% with Sealants 3 <sup>rd</sup> Only
J Larry Newton	Baldwin	Fairhope	52	74	53.2%	27.0%	44.6%
Robertsdale Elementary	Baldwin	Robertsdale	133	77	45.9%	18.7%	41.6%
Ohatchee Elementary	Calhoun	Ohatchee	65	62	64.6%	27.6%	43.5%
Coldwater Elementary	Calhoun	Oxford	71	62	69.2%	42.1%	27.4%
Oxford Elementary	Calhoun	Oxford	0	123	71.5%	39.8%	13.1%
W. O. Lance Elementary	Chambers	Lanett	70	53	60.2%	23.6%	3.8%
Maplesville High	Chilton	Maplesville	23	22	57.8%	20.0%	54.5%
Lyeffion Junior High	Conecuh	Evergreen	21	20	51.2%	22.0%	20.0%
Luverne High	Crenshaw	Luverne	61	54	55.7%	17.4%	18.5%
Cullman City Primary	Cullman	Cullman	213	0	39.9%	5.6%	NA
East Elementary	Cullman	Cullman	0	96	51.0%	8.3%	58.3%
Good Hope Elementary	Cullman	Cullman	0	80	71.3%	32.5%	46.3%
Good Hope Primary	Cullman	Cullman	89	0	43.8%	30.3%	NA
Harmony	Cullman	Logan	24	25	75.5%	40.8%	32.0%
Clark Elementary	Dallas	Selma	63	53	66.4%	20.7%	35.8%
Ruhuma Junior High	Dekalb	Ft Payne	22	20	52.4%	7.1%	40.0%
Pollard-Mccall Junior High	Escambia	Brewton	18	28	32.6%	17.4%	32.1%
West End Elementary	Etowah	Altoona	59	47	71.7%	22.6%	34.0%
Whitesboro Elementary	Etowah	Boaz	41	36	39.0%	14.3%	5.6%
W. E. Striplin Elementary	Etowah	Gadsden	56	46	54.9%	17.6%	10.9%
John S Jones Elementary	Etowah	Rainbow City	117	101	44.5%	16.1%	8.9%
Tharptown Elementary	Franklin	Russellville	57	43	69.0%	31.0%	34.9%
Mulkey Elementary	Geneva	Geneva	115	76	62.6%	24.2%	52.6%
Eutaw Primary	Greene	Eutaw	48	54	40.2%	22.5%	3.7%
Greensboro Elementary	Hale	Greensboro	78	64	62.0%	41.5%	14.1%
Headland Elementary	Henry	Headland	99	104	59.6%	25.6%	49.0%
Girard Elementary	Houston	Dothan	63	46	61.5%	25.7%	28.3%
Adamsville Elementary	Jefferson	Adamsville	59	54	51.3%	22.1%	38.9%
Robinson Elementary	Jefferson	Birmingham	63	66	62.0%	10.1%	39.4%
Wenonah K-8	Jefferson	Birmingham	57	47	65.4%	18.3%	46.8%
Leeds Elementary	Jefferson	Leeds	141	103	47.5%	17.2%	23.3%
Pleasant Grove Elementary	Jefferson	Pleasant Grove	101	116	44.2%	11.1%	34.5%
Vestavia Hills Elementary	Jefferson	Vestavia Hills	68	55	21.1%	8.1%	34.5%
Corner	Jefferson	Warrior	55	49	54.8%	16.3%	40.8%
Warrior Elementary	Jefferson	Warrior	41	33	54.1%	12.2%	33.3%
South Lamar	Lamar	Millport	34	37	53.5%	18.3%	32.4%
Vernon Elementary	Lamar	Vernon	84	70	59.1%	28.6%	7.1%
Auburn Early Education Cntr	Lee	Auburn	386	0	17.6%	4.7%	NA
Wrights Mill Road Elementary	Lee	Auburn	1	84	33.3%	4.8%	21.7%
Cedar Hill Elementary	Limestone	Ardmore	81	59	49.3%	19.3%	15.3%
George Washington Carver	Macon	Tuskegee	118	99	53.9%	24.9%	32.3%
Weatherly Heights Elementary	Madison	Huntsville	77	62	41.0%	30.2%	25.8%
West Mastin Lake Elementary	Madison	Huntsville	42	32	47.3%	14.9%	18.8%
Williams Elementary	Madison	Huntsville	67	68	34.8%	11.9%	30.9%
West Madison Elementary	Madison	Madison	40	48	38.6%	14.8%	35.4%
Boaz Elementary	Marshall	Boaz	169	0	45.0%	20.7%	NA
Corley Elementary	Marshall	Boaz	0	157	73.2%	22.9%	43.3%
Anna F Booth Elementary	Mobile	Irvington	51	25	25.0%	25.0%	0.0%
Elsie Collier Elementary	Mobile	Mobile	106	132	42.9%	16.4%	22.7%
Spencer Elementary	Mobile	Mobile	49	42	47.3%	26.4%	35.7%
Grant Elementary	Mobile	Prichard	61	55	58.6%	20.7%	18.2%

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School Name	County	City	# Kinder Screened	# Third Screened	% with Decay Experience	% with Untreated Decay	% with Sealants 3 <sup>rd</sup> Only
J E Turner Elementary	Mobile	Wilmer	79	66	46.2%	20.7%	18.2%
Catoma Elementary	Montgomery	Montgomery	43	31	66.2%	28.4%	29.0%
Fitzpatrick Elementary	Montgomery	Montgomery	94	106	58.5%	26.0%	25.5%
Forest Avenue Elementary	Montgomery	Montgomery	91	86	32.8%	7.3%	33.7%
Falkville Elementary	Morgan	Falkville	41	53	52.1%	21.3%	35.8%
Fe Burselson Elementary	Morgan	Hartselle	60	58	33.1%	11.0%	8.6%
Laceys Spring Elementary	Morgan	Laceys Spring	35	20	45.5%	23.6%	25.0%
Troy Elementary	Pike	Troy	145	120	54.7%	21.5%	14.2%
Mount Olive Elementary	Russell	Phenix City	78	88	49.4%	31.9%	34.5%
Oliver Elementary	Russell	Phenix City	50	47	54.6%	26.8%	38.3%
Creek View Elementary	Shelby	Maylene	215	196	44.0%	17.5%	34.7%
Kinterbish Junior High	Sumter	Cuba	13	23	44.4%	25.0%	13.0%
Indian Valley Elementary	Talladega	Sylacauga	155	0	38.7%	12.3%	NA
Cordova Elementary	Walker	Cordova	66	73	51.8%	24.5%	9.6%
Memorial Park Elementary	Walker	Jasper	68	79	37.4%	21.8%	32.9%
Mcintosh Elementary	Washington	Mcintosh	41	43	67.9%	32.1%	32.6%
Double Springs Elementary	Winston	Double Springs	70	57	56.7%	22.8%	21.1%