

## Chapel Hill – Carrboro City Schools

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**Neil Pedersen**, Superintendent

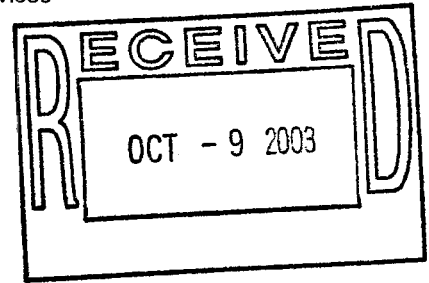
**Ray Reitz**, Chief Technology Officer

**Nettie Collins-Hart**, Assistant

Superintendent for Instructional Services

**Steve Scroggs**, Assistant Superintendent  
for Support Services

To: John Link  
Orange County Manager  
From: Neil Pedersen  
Superintendent  
Re: Response to Information request from BOCC  
Date: October 7, 2003



Included are responses to the request for additional information made by the County Commissioners at their September 15<sup>th</sup> meeting.

1. SAT Results
  - a. Raw data including participation, math scores, verbal scores and total scores for 1995-2003
  - b. Graphic comparison of participation for 1995-2002
  - c. Graphic comparison of total scores for 1995-2002
  - d. Disaggregated data by race and gender of students taking the SAT 1 in 2002
2. Free and Reduced Lunch
  - a. 2003-2004 F/R percentages by school
  - b. 2002-2003 F/R percentages by school
  - c. 2001-2002 F/R percentages summary
3. Average Class Size
  - a. Average class size for elementary schools by school
  - b. Average class size for grade levels by district
  - c. Middle school course and class size averages
  - d. High school course and class size averages
4. Dropout Rate
  - a. 1993-2002 Dropout comparisons, by percentage
  - b. 2004-2002 Dropout comparisons, by percentage, to the state average

5. Percentage of Students To Be Moved and Implications of Redistricting
  - a. Elementary school impact, by year for, 2004-2005 through 2013-2014
  - b. Middle school impact, by year for, 2004-2005 through 2013-2014
  - c. High school impact, by year for, 2004-2005 through 2013-2014
  - d. Elementary school attendance map
  - e. Middle school attendance map
  - f. High school attendance map

Please feel free to contact us if you have any further questions.

Cc: CHCCS Board of Education  
Shirley Carraway

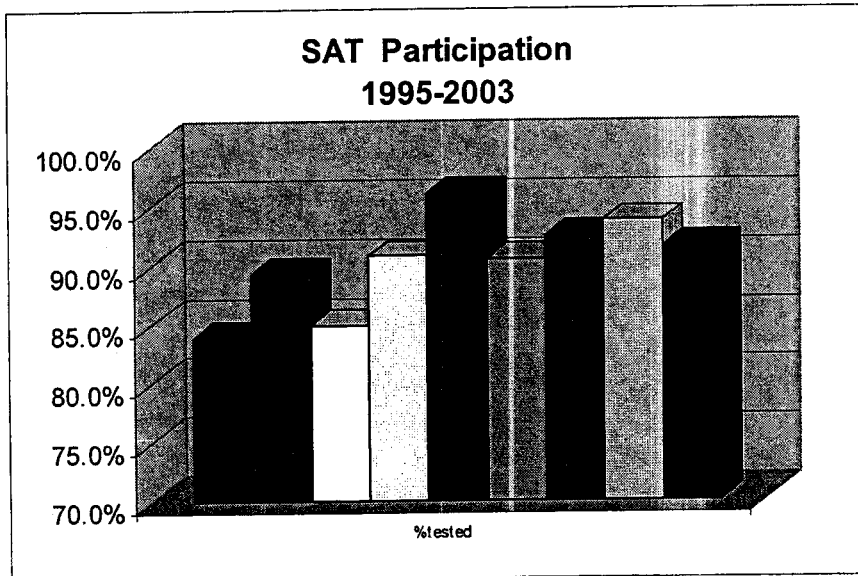
## SAT Results 1995 – 2003

The table below reports participation and total test scores for Chapel Hill-Carrboro City Schools since 1995. In response to the inquiry concerning who does and does not take the test, a table of disaggregated data, by gender and race is provided.

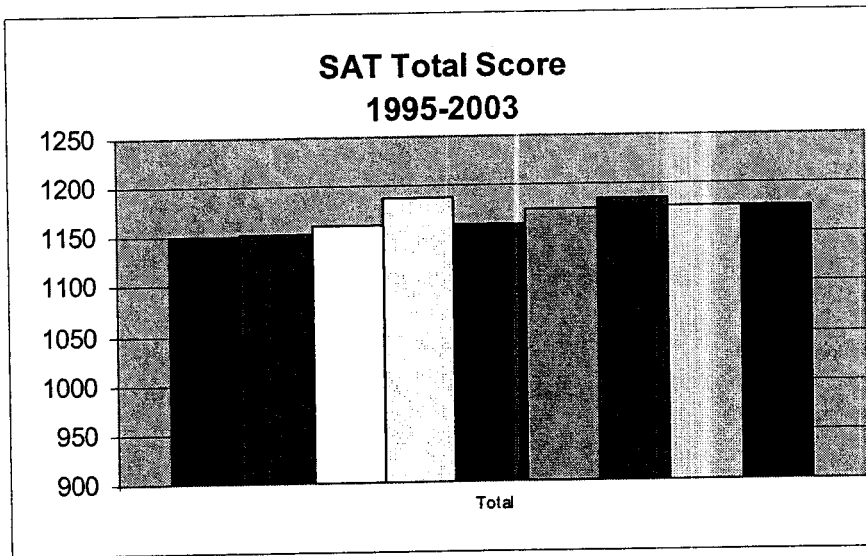
### Raw Data

District	Year	# tested	% tested	Math	Verbal	Total
CHCCS	1995	345	84.0%	576	574	1150
CHCCS	1996	391	89.3%	578	574	1152
CHCCS	1997	409	85.0%	581	580	1161
CHCCS	1998	394	90.8%	598	590	1188
CHCCS	1999	468	96.1%	576	584	1160
CHCCS	2000	460	90.6%	592	583	1175
CHCCS	2001	529	92.5%	601	584	1185
CHCCS	2002	561	93.8%	597	580	1177
CHCCS	2003	633	91.6%	596	582	1178

### Participation



## Total Test Score 1995-2003



Source: DPI

### Test Takers

The percentage of students who take the SAT 1 in the CHCCS is approaching 92% of seniors, yet to disaggregate that data is difficult. In 2002, 107 students chose not to identify themselves by race making any statistical comparison difficult.

All Seniors	A. Indian	Asian	African A.	Hispanic	White	Other	No Response	Total
Male	0	26	43	5	209	8		291
Female	1	18	28	6	247	6		306
Total	1	44	71	11	456	14	0	597

Seniors taking SAT 1	A. Indian	Asian	African A.	Hispanic	White	Other	No Response	Total
Male	0	25	28	2	145	7	59	266
Female	1	20	15	1	199	11	48	295
Total	1	45	43	3	344	18	107	561

## Free and Reduced Lunch

The free and reduced meal participation rate for the district is provided in tables below: 2003-2004 and 2002-2003 school detail is provided. A summary for 2001-2002 concludes the table.

The free and reduced participation rate is one of the lowest in the State of North Carolina. As with most districts, the free and reduced percentage declines as the student grade level increases.

As the economy struggles, a slight increase in the percentage of free and reduced lunches can be seen in the 2001-2001 rate of 13.2% to the present rate of 13.9%.

### FREE AND REDUCED MEAL PARTICIPATION BY SCHOOL 2003-2004

SCHOOL	FREE	REDUCED	TOTAL	% OF ENROLLED
Carrboro	125	16	141	25.5%
Ephesus	96	19	115	25.7%
Estes Hills	95	20	115	21.5%
FPG	128	28	156	28.0%
Glenwood	53	17	70	15.8%
McDougle	75	13	88	14.6%
Rashkis Elem.	52	11	63	15.5%
Mary Scroggs	66	14	80	12.4%
Seawell	61	20	81	25.7%
Culbreth	73	24	95	15.7%
McDougle	55	22	77	11.6%
Phillips	83	13	96	13.4%
Smith Middle	88	23	103	17.4%
CHHS	83	21	104	5.8%
East CHHS	79	23	102	6.3%
Total	1212	284	1496	13.9%

**FREE AND REDUCED  
MEAL PARTICIPATION BY SCHOOL  
2002-2003**

<b>SCHOOL</b>	<b>FREE</b>	<b>REDUCED</b>	<b>TOTAL</b>	<b>% OF ENROLLED</b>
Carrboro	123	38	161	30.7%
Ephesus	56	12	68	12.5%
Estes Hills	89	32	121	22.4%
FPG	113	31	144	25.1%
Glenwood	72	13	85	19.8%
McDougle	69	15	84	12.9%
Mary Scroggs	58	17	75	12.6%
Seawell	107	21	138	18.6%
Culbreth	70	17	87	14.4%
McDougle	47	21	68	10.9%
Phillips	67	22	89	12.1%
Smith	97	18	115	17.5%
CHHS	80	10	90	5.2%
East CHHS	73	23	96	6.5%
<b>Total</b>	1121	290	1411	13.6%
<b>2001-2002 Totals</b>	1060	283	1343	13.2%

**Average Class Size in Elementary Schools  
2003-2004**

<b>School</b>	<b>Enrollment</b>	<b>No. Classroom Teachers</b>	<b>Class Size</b>
Carrboro	554	25	22.16
Ephesus	452	20	22.60
Estes Hills	534	22	24.27
FPG	564	25	22.56
Glenwood	390	18	21.67
McDougle	599	27	22.19
Rashkis	411	18	22.83
Scroggs	635	30	21.17
Seawell	510	22	23.18

**Average Class Size by Grade Level  
2003-2004**

<b>Grade</b>	<b>Enrollment</b>	<b>No. Classroom Teachers</b>	<b>Class Size</b>
K	723	35	20.66
K-1	18	1	18.00
1st	748	37	20.22
1st / 2nd	39	2	19.50
2nd	711	32	22.22
2nd / 3rd	23	1	23.00
3rd	789	33	23.91
4th	764	32	23.88
4th / 5th	41	2	20.50
5th	769	33	23.30
<b>Total</b>	<b>4625</b>	<b>208</b>	<b>22.24</b>

Note: Self-contained Exceptional Education classes are not included in these data

Class size in the elementary schools continues to be within the acceptable range as established by the State of N.C. Combination classes (K/1, 1/2, 2/3 and 4/5 ) are normally smaller than other classes to allow the teacher flexibility within the two grade levels. The Scroggs Elementary average exceeds the 1 to 20 class ratio cited in the model. Estes Hills maintains the highest average in the district. Average class size in 2002-2003 was 22.61 compared to 22.24 this school year.

## Middle School Course Averages 2003-04

<b>Subject</b>	<b><i>Culbreth McDougale Phillips Smith</i></b>				<b><i>District</i></b>
Language Arts	23.4	23.7	22.2	23.0	23.1
Foreign Language	21.8	20.0	20.0	21.7	20.9
Mathematics	21.4	20.5	19.9	18.8	20.2
Pre-algebra	20.8	23.0	21.9	22.6	22.1
Algebra	32.0	22.0	23.7	19.8	24.4
Geometry	22.0	16.0	18.5	24.0	20.1
Science	25.2	24.7	23.4	23.1	24.1
Social Studies	24.8	24.4	21.9	22.8	23.5
Musical Expression	22.0	20.2	24.1	23.1	22.4
Artistic Expression	24.8	19.3	13.0	22.7	20.0
Theatrical	19.0	11.1	18.0	16.8	16.2
Career	16.5	19.3	18.3	16.8	17.7
Health/PE	25.1	25.8	21.0	25.1	24.3

This chart indicates the average class size in major subject areas among the middle schools. Class averages can be compared as well as the number of classes that exceed the state maximum of 29. In music, band, art and P.E., classes may exceed 29. The Culbreth imbalance is caused by under enrollment in Chorus and over enrollment in Band.

## High School Course Averages 2003-04

<i>Subject</i>	<i>CHHS</i>	<i>ECHHS</i>	<i>District</i>
English	21.4	23.5	22.5
English-Honors	23.9	22.9	23.4
English-AP	26.3	26.5	26.4
Journalism	7.5	10.0	8.8
Foreign Language	23.5	21.8	22.7
Foreign Language-AP	12.4	18.4	15.4
Foreign Language-Honors	21.0	15.9	18.5
Algebra	17.2	20.0	18.6
Algebra Honors	29.3	18.1	23.7
Geometry	22.5	19.3	20.9
Geometry-Honors	30.0	27.8	28.9
Pre-calculus	28.7	25.4	27.1
Pre-calculus-Honors	24.7	22.8	23.8
Calculus	20.6	23.5	22.1
Trigonometry	29.5	18.0	23.8
Science	24.2	22.9	23.6
Science-AP	19.1	24.1	21.6
History	23.1	22.0	22.6
History-Honors	26.3	22.7	24.5
History-AP	23.8	25.3	24.6
Musical Expression	31.8	20.8	26.3
Artistic Expression	21.9	16.7	19.3
Theatrical Expression	17.1	10.5	13.8
Career Exploration	9.6	26.2	17.9
Health/PE	29.6	27.8	28.7

This table compares the average class size by major subject areas on the high school level. All grade levels are included in the averages. Band, PE and chorus classes are allowed to exceed the 32 limit. The larger than expected membership growth at CHHS may be the contributing factor to the larger class averages in some courses.

## Dropout Rates

The drop out rate for the Chapel Hill-Carrboro City Schools is provided below. Traditionally the dropout rate for CHCCS is one of the lowest in the state. It should be noted that the methodology for reporting dropouts changed in 1998-1999 resulting in substantial increases in percentages. Grade 9-12 data has been used for this table.

Dropout Rate Year	1993-2002	
	LEA CHCCS	State NC
1993-94	1.59	
1994-95	1.57	3.39
1995-96	1.03	3.45
1996-97	0.79	3.44
1997-98	0.87	3.16
1998-99	1.54	6.78
1999-00	0.75	6.43
2000-01	1.25	5.72
2001-02	1.37	5.25
2002-03	N/A	N/A

2003 data available in November

## **Redistricting**

The information submitted below is based on several assumptions and conclusions:

1. The County approved projections are correct
2. Elementary #10 would open in 2006 in the CHCCS
3. Middle school #3 would open in 2006 in OCS
4. High school #3 would open in 2006 in CHCCS
5. In most cases, Orange County Schools have available capacity and Chapel Hill-Carrboro is over capacity
6. Students moved would mostly be in the northern corridor of the CHCCS district. That includes the areas along and to the north of Dairyland Road, Homestead Road and the Weaver Dairy area. These students are the closest to the existing OCS schools.
7. Few students would be moved in the first years, but the number accelerates greatly in future years.

The numbers presented here are the certified numbers developed in February, 2003 by the Orange County staff. The only change has been the adjustment of CHCCS high school number 3 capacity from 1,000 students to 800 students. The movement numbers must be considered minimal because they do not address balancing enrollment among the schools, just keeping enrollments under 100% capacity.

It is important to look at projections each year as future schools will impact capacity. What can't be determined is the domino effect on school capacity. If 100 students were moved to a different elementary school, the receiving school may need to send students to another school to create capacity or balance. The recent experience in CHCCS indicates that for every student moved, another is moved by the domino effect. Redistricting also should strive to reduce enrollment below the 100% capacity level, excluding mobiles, not below a SAPFO limit. Schools over 100% capacity are overcrowded at that point. Therefore, the number of students reported here as being redistricted is probably about one-half of the total number of students who would be reassigned.

Each school level is presented below.

## Elementary

Excess capacity exists in the Orange County Schools during the time frame, after 2005-2006, thus movement would be from the northern sections of CHCCS to the southern schools in OCS. Once elementary #10 opens, student movement would slow for several years before beginning again. The table below assumes the opening of elementary #10 in 2006 and an additional 100 seats at Hillsborough Elementary in 2004-05.

CHCCS Elementary	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
Average	4,745	4,925	5,083	5,235	5,405	5,498	5,585	5,673	5,761	5,844	5,928
Capacity - 100%	4,921	4,921	4,921	5,521	5,521	5,521	5,521	5,521	5,521	5,521	5,521
Seats +/-	176	(4)	(162)	286	116	23	(64)	(152)	(240)	(323)	(407)

Elementary #10

OCS Elementary	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
Average	2,922	2,954	2,962	3,017	3,067	3,110	3,154	3,199	3,244	3,290	3,336
Capacity - 100%	3,820	3,920	3,920	3,920	3,920	3,920	3,920	3,920	3,920	3,920	3,920
Seats +/-	898	966	958	903	853	810	766	721	676	630	584

100 seats at Hillsborough

## Elementary Student Movement

- 2005-2006** Move 162 students from CHCCS to OCS (if CHCCS Elementary #10 opens in 2006-2007, this may not be considered)
- 2006-2007** Elementary #10 opens (capacity exists in both districts)
- 2007-2008** Capacity exists in both districts
- 2008-2009** Capacity exists in both districts
- 2009-2010** Move 64 Students from CHCCS to OCS (this may be too small to consider)
- 2010-2011** Move 152 Students from CHCCS to OCS
- 2011-2012** Move 240 Students from CHCCS to OCS
- 2012-2013** Move 323 Students from CHCCS to OCS
- 2013-2014** Move 407 Students From CHCCS to OCS

## Middle School

CHCCS has available middle school capacity through 2005-2006. When the third middle school opens in Orange County in 2006-2007, excess capacity is created in the county. Without a fifth middle school in the CHCCS, student movement would increase dramatically. This would require large numbers of students to be moved by the domino effect to create capacity in the OCS.

CHCCS Middle	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
Average	2,687	2,712	2,783	2,883	2,954	3,077	3,197	3,337	3,390	3,445	3,499
Capacity - 100%	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840
Seats +/-	153	128	57	(43)	(114)	(237)	(357)	(497)	(550)	(605)	(659)

OCS Middle	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
Average	1,638	1,597	1,590	1,581	1,587	1,596	1,611	1,643	1,666	1,690	1,715
Capacity - 100%	1,466	1,466	1,466	2,166	2,166	2,166	2,166	2,166	2,166	2,166	2,166
Seats +/-	(172)	(131)	(124)	585	579	570	555	523	500	476	451

Middle #3

- 2005-2006** Move 124 students from OCS to CHCCS (with OCS middle #3 opening in 2006-2007, this may not be considered and may overcrowd CHCCS)
- 2006-2007** Move 43 students from CHCCS to OCS (this may be too small to consider)
- 2007-2008** Move 114 students from CHCCS to OCS
- 2008-2009** Move 237 students from CHCCS to OCS
- 2009-2010** Move 357 students from CHCCS to OCS
- 2010-2011** Move 497 students from CHCCS to OCS
- 2011-2012** Move 500 students from CHCCS to OCS
- 2012-2013** Move 476 students from CHCCS to OCS
- 2013-2014** Move 451 students from CHCCS to OCS

## High School

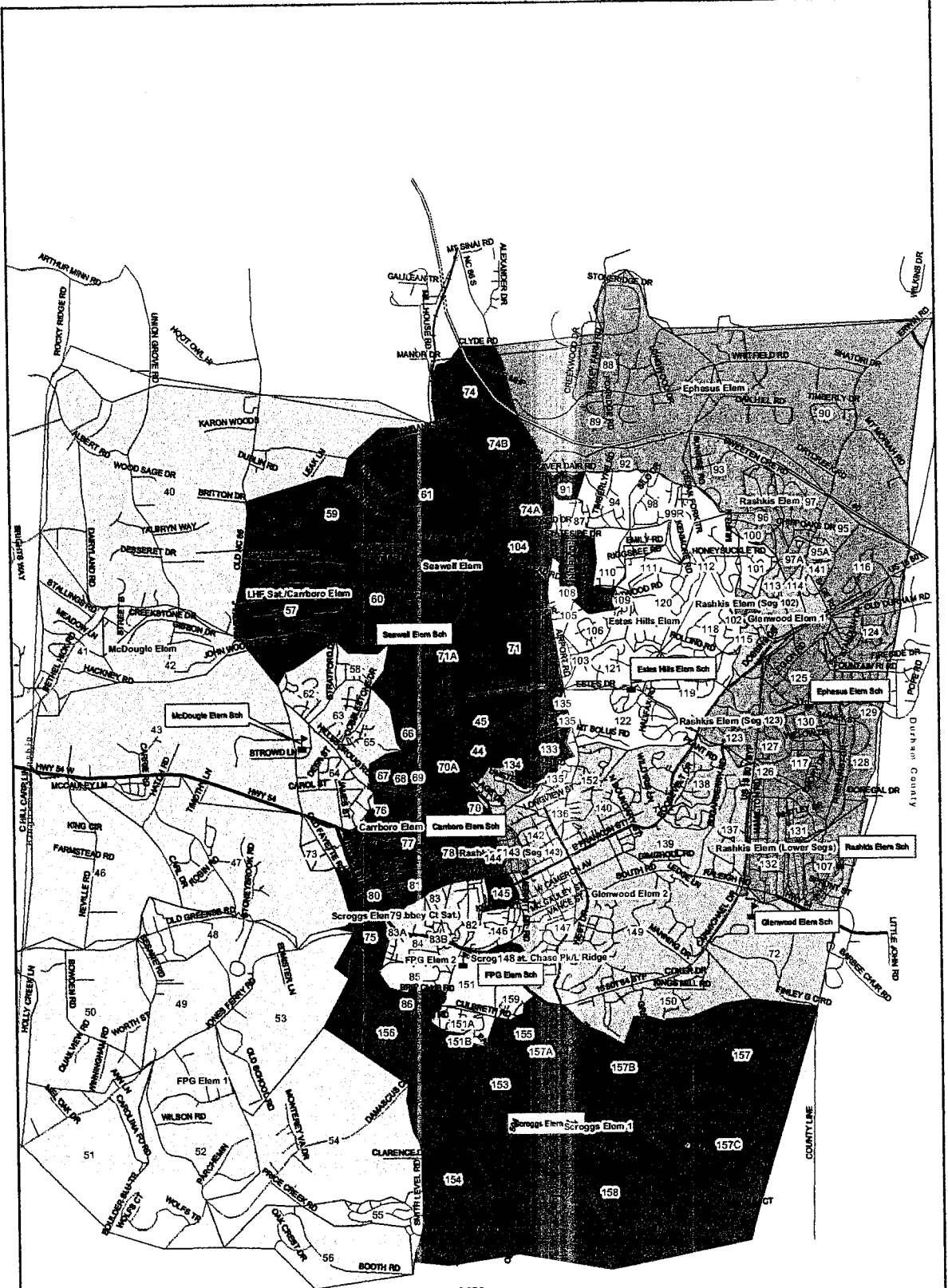
Present excess capacity in OCS offsets the overcrowding in CHCCS on a temporary basis. With the completion of the third high school, only a three year reprieve exists before schools are over capacity again and student movement would be required.

CHCCS High	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
Average	3,250	3,425	3,552	3,629	3,719	3,790	3,889	3,981	4,159	4,310	4,447
Capacity - 100%	3,035	3,035	3,035	3,835	3,835	3,835	3,835	3,835	3,835	3,835	3,835
Seats +/-	(215)	(390)	(517)	206	116	45	(54)	(146)	(324)	(475)	(612)

HS #3

OCS High	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
Average	1,868	1,926	1,958	1,950	1,952	1,957	1,912	1,915	1,938	1,942	1,980
Capacity - 100%	2,518	2,518	2,518	2,518	2,518	2,518	2,518	2,518	2,518	2,518	2,518
Seats +/-	650	592	560	568	566	561	606	603	580	576	538

- 2005-2006** Move 517 students from CHCCS to OCS (may not do for a one year window)
- 2006-2007** High School # 3 opens, capacity exists in both districts
- 2007-2008** Capacity exists in both districts
- 2008-2009** Capacity exists in both districts
- 2009-2010** Move 54 students from CHCCS to OCS (this may be too small to consider)
- 2010-2011** Move 146 students from CHCCS to OCS
- 2011-2012** Move 324 students from CHCCS to OCS
- 2012-2013** Move 475 students from CHCCS to OCS
- 2013-2014** Move 538 students from CHCCS to OCS



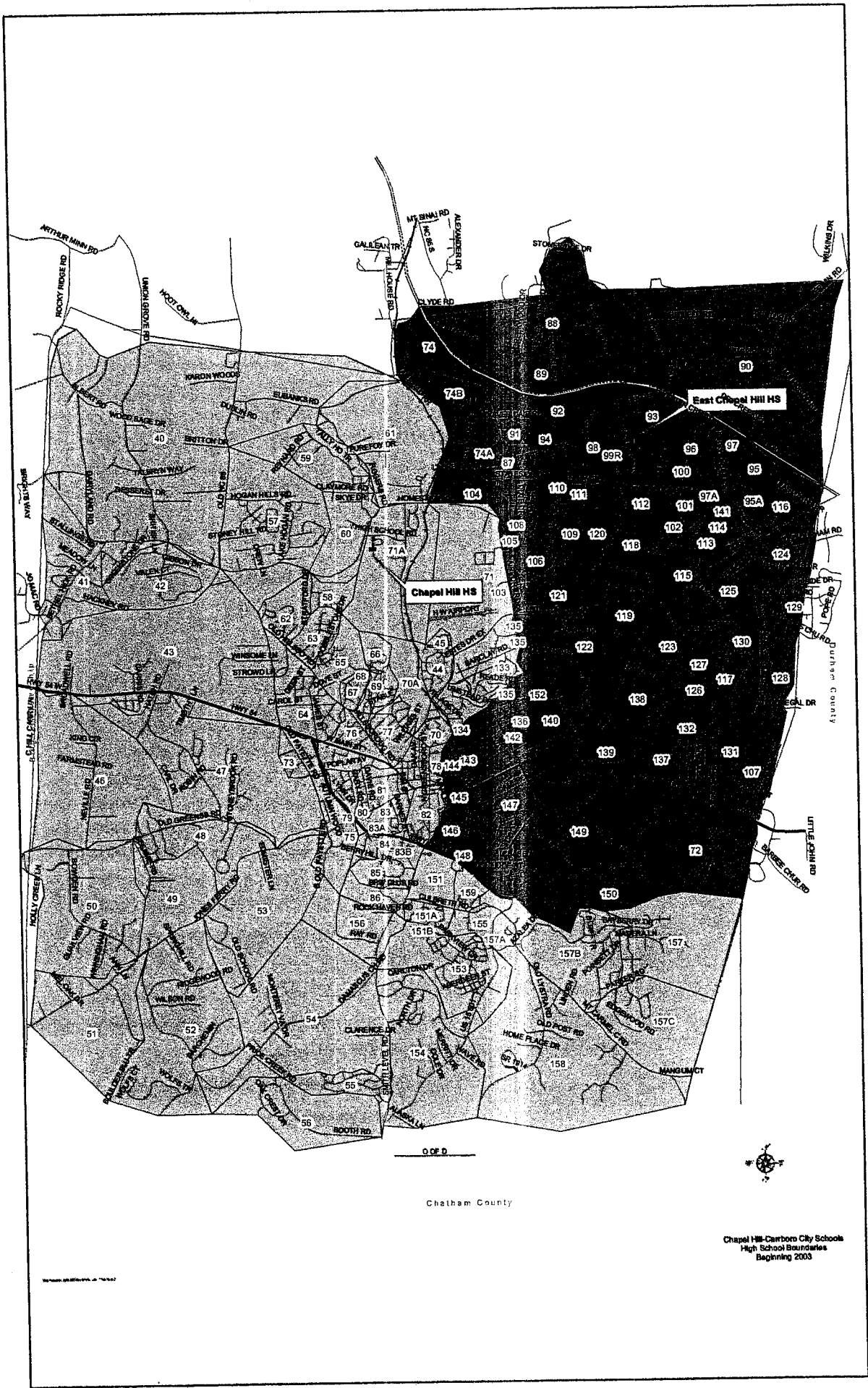
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Chatham County



Chapel Hill-Carboro City Schools  
 Elementary Boundaries  
 Beginning 2003





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Chatham County

Chapel Hill-Carboro City Schools  
 High School Boundaries  
 Beginning 2003