ORANGE COUNTY, NC SCHOOLS ADEQUATE PUBLIC FACILITIES ORDINANCE

PREPARED BY A STAFF COMMITTEE: PLANNING DIRECTORS,
SCHOOL REPRESENTATIVES, TECHNICAL ADVISORY COMMITTEE
(SAPFOTAC)

(PURSUANT TO PROVISIONS OF A MEMORANDUM OF UNDERSTANDING ADOPTED IN 2002 & 2003)

(ORDINANCES ADOPTED IN JULY 2003)

Annual Report **2015**

(BASED ON NOVEMBER 2014 DATA)

CERTIFIED BY THE BOCC ON MAY X, 2015

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2015 SAPFOTAC Executive Summary

I. **Base Memorandum of Understanding**

Α.	Level of Service	(No	Change)	Pg. 1
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	Chapel Hill/Carrboro School District	Orange County School District
Elementary	105%	105%
Middle	107%	107%
High	110%	110%

		Chapel Hill/Ca	rrboro	Orange County				
		School Distr	rict	School District				
	Capacity	Membership	Increase from	Capacity	Membership Increase from			
	Prior Yea			_ ,	_	Prior Year		
Elementary	5829	5541	(13)	3694	3259	(174)		
Middle	2944	2861	3	2166	1762	15		
High	3875	3730	(34)	2439	2502	81		

C. Membership Date – November 15.....(No Change)......Pg.17

II. **Annual Update to SAPFO System**

- A. Capital Investment Plan (CIP)(No Change)Pg. 18
- B. Student Membership Projection Methodology(No Change)Pg. 19 The average of 3, 5, and 10 year history/cohort survival, linear and arithmetic projection models.

Analysis of 5 Years of Projections for 2014-15 School Year – Chapel Hill/Carrboro City Schools

(The first column for each year includes the student membership projection made for 2014-2015 in that given year. The second column for each year includes the number of students the projection was off compared to actual membership. An "L" indicates the projection

was low compared to the actual, whereas an "H" indicates the projection was high compared to the actual.)

				Year 1	Projectio	n Made for	2014-15	Membersl	hip		
	Actual 2014 Membership	2009	-2010	2010-2011		2011-2012		2012-2013		2013-2014	
Elementary	5541	5772	H231	5672	H131	5784	H243	5676	H135	5635	H94
Middle	2861	3006	H145	2894	H33	2930	H69	2934	H73	2925	H64
High	3730	3867	H137	3846	H116	3863	H133	3866	H136	3805	H75

Analysis of 5 Years of Projections for 2014-15 School Year – Orange County Schools

(The first column for each year includes the student membership projection made for 2014-2015 in that given year. The second column for each year includes the number of students the projection was off compared to actual membership. An "L" indicates the projection was low compared to the actual, whereas an "H" indicates the projection was high compared to the actual.)

		Year Projection Made for 2014-15 Membership									
	Actual 2014 Membership	2009-	2009-2010 2			2010-2011 2011-201		2012 2012-2013		2013-2014	
Elementary	3259	3408	H149	3519	H260	3546	H287	3479	H220	3472	H213
Middle	1762	1827	H65	1842	H80	1815	H53	1772	H10	1789	H27
High	2502	2400	L102	2349	L153	2347	L155	2366	L136	2406	L96

D. Student Membership Growth Rate(Change)..........Pg. 39

	Projected Average Annual Growth Rate over Next 10 Years											
		Chap	el Hill/Cari	rboro		Orange County						
		Sa	hool Distri	ct		School District						
Year												
Projection	2010-11	2011-12	2012-13	2013-14	2014-15	2010-11	2011-12	2012-13	2013-14	2014-15		
Made:												
Elementary	1.44%	1.59%	1.18%	1.44%	1.11%	1.57%	1.6%	1.31%	1.30%	0.55%		
Middle	1.67%	1.94%	1.59%	1.58%	1.15%	1.84%	2.01%	1.64%	1.42%	0.09%		
High	1.57%	1.73%	1.60%	1.27%	1.22%	1.59%	1.61%	1.43%	1.35%	0.39%		

SCHOOL ADEQUATE PUBLIC FACILITIES ORDINANCE STATUS

(based on future year Student Membership Projections)

CHAPEL HILL/CARRBORO SCHOOL DISTRICT

Elementary School Level

- A. Does not currently exceed 105% LOS standard (current LOS is 95.1%).
- B. The projected growth rate at this level is expected to decrease over the next 10 years, but remain positive (average ~1.1% per year compared to 1.7% over the past 10 years). A new charter school, The Expedition School, opened in Hillsborough this year and accepts students from all over. Part of the slowing in growth rate could be due to students transferring to the new charter school.
- C. Chapel Hill/Carrboro Elementary School #12 will be needed in 2023-24. This is three years later than last year's projections.

Middle School Level

- A. Does not currently exceed 107% LOS standard (current LOS is 97.2%).
- B. The projected growth rate at this level is expected to increase at a greater rate over the next 10 years than it has in the previous 10 years (average ~1.2% compared to an average of 0.91% over the past 10 years).
- C. Capacity has increased by 104 students due to the opening of the Culbreth Middle School addition. Projections show that Chapel Hill/Carrboro Middle School #5 is projected to be needed in 2023-24. This is three years later than last year's projections

High School Level

- A. Does not currently exceed the 110% LOS standard (current LOS is 96.3%).
- B. The projected growth rate at this level is expected to decrease, but remain positive over the next 10 years (average ~1.22% compared to 1.24% over the past 10 years).
- C. Projections are not showing a need for an expansion of Carrboro High School from the initial capacity of 800 students to the ultimate capacity of 1,200 students in the 10 year projection period. This is different than last year's projections which showed a need in 2023-24.

ORANGE COUNTY SCHOOL DISTRICT

Elementary School Level

- A. Does not currently exceed 105% LOS standard (current LOS is 88.2%).
- B. The projected growth rate at this level is expected decrease, but remain positive over the next 10 years (average ~0.55% compared to 1.5% over the past 10 years). A new charter school, The Expedition School, opened in Hillsborough this year and accepts students from all over. Part of the slowing growth rate could be due to students transferring to the new charter school.
- C. Projections are not showing a need for an additional Elementary School in the 10 year projection period. This is different than last year's projections which showed a need in 2023-24.

Middle School Level

- A. Does not currently exceed 107% LOS standard (current LOS is 81.3%).
- B. The projected growth rate at this level is expected to decrease, but remain positive over the next 10 years (average ~0.09% compared to 0.48% over the past 10 years).
- C. Similar to last year, projections are not showing a need for an additional Middle School in the 10 year projection period.

High School Level

- A. Does not currently exceed 110% LOS standard (current LOS is 102.6%).
- B. The projected growth rate at this level is expected to decrease, but remain positive over the next 10 years (average ~0.39% compared to 2.6% over the past 10 years).
- C. Expansion of Cedar Ridge High School from the initial capacity of 1,000 students to 1,500 students is projected to be needed in 2022-23. This is the same as last year's projections.

Orange County, NC School Adequate Public Facilities Ordinance

Introduction

The Schools Adequate Public Facilities Ordinance and its Memorandum of Understanding are ordinances and agreements, respectively. Supporting documents are anticipated to be dynamic to incorporate the annual changing conditions of membership, capacity and student projections that may affect School Capital Investment Plan (CIP) timing. This formal annual report will be forthcoming to all of the Schools Adequate Public Facilities Ordinance partners each year as new information is available.

This updated information is used in the schools capital needs process of the Capital Investment Plan (Process 1) and within elements of the Schools Adequate Public Facilities Ordinance Certificate of Adequate Public Schools (CAPS) spreadsheet system (Process 2).

This report and any comments from the Schools Adequate Public Facilities Ordinance partners will be considered in the first half of each year by the Board of County Commissioners at a regular or special meeting. The various elements of the report are then "certified" and formally considered in the process of the upcoming Capital Investment Plan. The Certificate of Adequate Public Schools system is updated after November 15 when data is received from the school districts with actual membership and pre-certified capacity (i.e. CIP capacity or prior "joint action" capacity changes).

The Schools Adequate Public Facilities Ordinance and Memorandum of Understanding have dynamic aspects. The derivation of the baseline and update to the variables will continue in the future as a variety of school related issues are fine-tuned by technical and policy groups.

The primary facet of this report includes the creation of mathematical projections for student memberships by school levels (Elementary, Middle and High) and by School Districts (Chapel Hill/Carrboro and Orange County). This information is found in Section II, Subsections B, C, D, and E.

In summary, this report serves as an update to the dynamic conditions of student membership and school capacity which affect future projected needs considered in Capital Investment Planning.

Interested parties may make their comments known to the Board of County

Commissioners prior to their review of the report and school CIP completion or ask questions of the SAPFOTAC members.

Schools Adequate Public Facilities Ordinance Partners

ANNUAL REPORT AS OUTLINED IN Schools Adequate Public Facilities Ordinance Memorandum of Understanding (Schools APFO MOU) SECTION 1d

RESPECTFULLY SUBMITTED TO SCHOOLS ADEQUATE PUBLIC FACILITIES ORDINANCE PARTNERS

Chapel Hill/Carrboro School District	Orange County School District				
School APFO	School APFO				
Board of County Commissioners	Board of County Commissioners				
Carrboro Board of Aldermen	Hillsborough Town Council				
Chapel Hill Town Council					
Chapel Hill/Carrboro School Board	Orange County School Board				

Planning Directors/School Representatives Technical Advisory Committee (aka SAPFOTAC)

Town of Carrboro
Trish McGuire, Planning Director
301 West Main Street
Carrboro, NC 27510

Town of Chapel Hill
Mary Jane Nirdlinger, Planning and Sustainability Executive Director
405 Martin Luther King, Jr. Blvd.
Chapel Hill, North Carolina 27514

Town of Hillsborough Margaret Hauth, Planning Director P.O. Box 429 Hillsborough, NC 27278

Orange County Planning Department
Craig Benedict, Planning Director and
Ashley Moncado, Special Projects Planner and
Paul Laughton, Deputy Director of Finance and Administrative Services
131 W. Margaret Lane
P.O. Box 8181
Hillsborough, NC 27278

Orange County School District Del Burns, Interim Superintendent 200 E. King Street Hillsborough, NC 27278

Chapel Hill-Carrboro School District
Todd LoFrese, Assistant Superintendent for Support Services and
Catherine Mau, Coordinator of Student Enrollment
750 Merritt Mill Road
Chapel Hill, NC 2751

I. Base Memorandum of Understanding

A. Level of Service

- **1.** Responsible Entity for Suggesting Change Change can only be effectuated by amendment to Memorandum of Understanding (MOU) by all School APFO partners.
- 2. Definition Level of Service (LOS) means the amount (level) of students that can be accommodated (serviced) at a certain school system grade group [i.e., Elementary level (K-5), Middle Level (6-8), High School Level (9-12)].

3.	Standard for:	Standard for:
•	Stantaan a jon	

Chapel Hill	/Carrboro S	chool District	Orange County School District				
Elementary	Middle	High School	Elementary	Middle	High School		
105%	107%	110%	105%	107%	110%		

4. Analysis of Existing Conditions:

Chapel Hill/Carrboro School District

These standards are acceptable at this time.

5. Recommendation:

Chapel Hill/Carrboro School District

No change from above standard

Orange County School District

Analysis of Existing Conditions:

These standards are acceptable at this time.

Recommendation:

Orange County School District

No change from above standard

B. Building Capacity and Membership

- 1. Responsible Entity for Suggesting Change The Planning Directors, School Representatives, and Technical Advisory Committee (SAPFOTAC) will receive requested changes that are CIP related and adopted in the prior year. CIP capacity changes will be updated along with actual membership received in November of each year. Other changes will be sent to a 'Joint Action Committee' of the BOCC and Board of Education, as noted in the MOU, who will make recommendations and forward changes (on the specific forms with justification) to the full Board of County Commissioners for review and action. These non-CIP changes would be updated in the upcoming November CAPS system recalibration and included in the SAPFOTAC report.
- 2. Definition "For purposes of this Memorandum, "building capacity" will be determined by reference to State guidelines and the School District guidelines (consistent with CIP School Construction Guidelines/policies developed by the School District and the Board of County Commissioners) and will be determined by a joint action of the School Board and the Orange County Board of Commissioners. As used herein the term "building capacity" refers to permanent buildings. Mobile classrooms and other temporary student accommodating classroom spaces are not permanent buildings and may not be counted in determining the school districts building capacity."

3. Standard for:

Chapel Hill/Carrboro School District

The original certified capacity for each of the schools was certified by the respective superintendent and incorporated in the initialization of the CAPS system (Chapel Hill Carrboro School District April 29, 2002 - Base) Capacity changes were made each year as follows: 2003: Increase of 619 at Rashkis Elementary. 2004: No changes at Elementary, Middle, or High School levels.

2005: No changes at Elementary, Middle, or High

Standard for:

Orange County School District

The original certified capacity for each of the schools was certified by the respective superintendent and incorporated in the initialization of the CAPS system (Orange County School District April 30, 2002 - Base)
Capacity changes were made each year as follows:

2003: No net increase in capacity at Elementary level. No changes at Middle School level.
Increase of 1,000 at Cedar Ridge High School.

2004: No net increase in capacity at Elementary

School levels.

2006: No changes at Elementary, Middle, or High School levels.

2007: An increase of 800 at the High School level with the opening of Carrboro High School.

2008: An increase of 323 at the Elementary School level due to the opening of Morris Grove Elementary School and the implementation of the 1:21 class size ratio in grades K-3

2009: No changes at Elementary, Middle, or High School levels.

2010: An increase in capacity of 40 students at the High School level with Phoenix Academy High School becoming official high school within the district

2011: No changes at Elementary, Middle, or High School levels.

2012: No changes at Elementary, Middle, or High School levels.

2013: An increase in capacity of 585 students due to the opening of Northside Elementary School.

2014: An increase in capacity of 104 students due to the opening of the Culbreth Middle School addition.

level. No changes at Middle or High School levels.

2005: An increase in capacity of 100 at Hillsborough Elementary with the completion of renovations.

2006: An increase in capacity of 700 at the Middle School level with the completion of Gravelly Hill Middle School and an increase of 15 at the High School level with the temporary location of Partnership Academy Alternative School. An increase of 2 at the Elementary level due to a change in the capacity calculation for each grade at each school.

2007: No changes at Elementary, Middle, or High School levels.

2008: A decrease of 228 at the Elementary School level due to the implementation of the 1:21 class size ratio in grades K-3 and an increase of 25 at the High School level with the completion of the new Partnership Academy Alternative School.

2009: No changes at Elementary, Middle, or High School levels.

2010: No changes at Elementary, Middle, or High School levels.

2011: No changes at Elementary, Middle, or High School levels.

2012: No changes at Elementary or Middle School levels. A decrease of 119 at High School level as a result of a N.C. Department of Public Instruction (DPI) study.

2013: No changes at Elementary, Middle, or High

4. Analysis of Existing Conditions:

Chapel Hill/Carrboro School District

The Schools Facilities Task Force developed a system to calculate capacity. Any changes year to year will be monitored, reviewed, and recorded by the SAPFOTAC on approved forms distributed to SAPFO partners and certified upon approval by the Board of County Commissioners each year. The requested 2014-15 capacity is noted on Attachment I.B.4

5. Recommendation:

Chapel Hill/Carrboro School District

Accept school capacities at all levels, as reported by CHCCS and shown in Attachment I.B.4.

School levels.

2014: No changes at Elementary, Middle, or High School levels.

Analysis of Existing Conditions:

Orange County School District

The Schools Facilities Task Force developed a system to calculate capacity. Any changes year to year will be monitored, reviewed, and recorded by the SAPFOTAC on approved forms distributed to SAPFO partners and certified upon approval by the Board of County Commissioners each year. The requested 2014-15 capacity is noted on Attachment I.B.3

Recommendation:

Orange County School District

Accept school capacities at all levels, as reported by OCS and shown in Attachment I.B.3.

Attachment I.B.1 Orange County School Capacity (Elementary, Middle, & High) (2013-14)

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School APFO Capacity, Membership and Change Request Form

School District: Orange County Schools

SAPFO CAPS Year: November 15, 2013 - November 14, 2014

Capacity and Membership Submittal Date: November 15, 2013

Elementary School	Square Feet	2009-2010 Requested Capacity	2010-2011 Requested Capacity	2011-2012 Requested Capacity	2012-2013 Requested Capacity	2013-2014 Requested Capacity	Justification Footnote #	Membership
Cameron Park	70,812	565	565	565	565	565		658
Central	52,492	455	455	455	455	455		354
Efland Cheeks	64,316	497	497	497	497	497		459
Grady Brown	74,016	544	544	544	544	544		456
Hillsborough	51,106	471	471	471	471	471		453
New Hope	100,164	586	586	586	586	586		636
Pathways	85,282	576	576	576	576	576	+	417
Total	498,188	3,694	3,694	3,694	3,694	3,694	200	3,433

Special Note(s): 1. For the November 15, 2002 base year the board accepted the superintendent-certified capacities as part of the School Facilities
Task Force review and 2003 Planners and School Representative Technical Advisory Committee Report. These capacities will remain effective until
changed by (1) the School CIP or (2) an amended version of this form that is certified by the BOCC.

Justification:

Capacity Certification:

Membership Certification:

Superintenden/t / Date

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School APFO Capacity, Membership and Change Request Form

School District: Orange County Schools

SAPFO CAPS Year: November 15, 2013 - November 14, 2014

Capacity and Membership Submittal Date: November 15, 2013

Middle School	Square Feet	2009-2010 Requested Capacity	2010-2011 Requested Capacity	2011-2012 Requested Capacity		2013-2014 Requested Capacity	Justification Footnote#	Membership
A.L. Stanback	136,000	740	740	740	740	740		632
C.W. Stanford	107,620	726	726	726	726	726		639
Gravelly Hill	123,000	700	700	700	700	700		476
Total	366,620	2,166	2,166	2,166	2,166	2,166		1,747

Special Note(s): 1. For the November 15, 2002 base year the board accepted the superintendent-certified capacities as part of the School Facilities Task Force review and 2003 Planners and School Representative Technical Advisory Committee Report. These capacities will remain effective until changed by (1) the School CIP or (2) an amended version of this form that is certified by the BOCC.

Justification:

Capacity Certification:

Superintendent Date

Membership Certification:

Superintendent

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Date

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School APFO Capacity, Membership and Change Request Form

School District: Orange County Schools

SAPFO CAPS Year: November 15, 2013 - November 14, 2014

Capacity and Membership Submittal Date: November 15, 2013

High School	Square Feet	2009-2010 Requested Capacity	2010-2011 Requested Capacity	2011-2012 Requested Capacity	2012-2013 Requested Capacity	2013-2014 Requested Capacity	Justification Footnote #	Membership
Orange	213,509	1,518	1,518	1,518	1,399	1,399		1,270
Cedar Ridge	206,900	1,000	1,000	1,000	1,000	1,000		1,130
Partnership	6,600	40	40	40	40	40		21
Total	427,009	2,558	2,558	2,558	2,439	2,439		2,421

Special Note(s): 1. For the November 15, 2002 base year the board accepted the superintendent-certified capacities as part of the School Facilities
Task Force review and 2003 Planners and School Representative Technical Advisory Committee Report. These capacities will remain effective until
changed by (1) the School CIP or (2) an amended version of this form that is certified by the BOCC. 2. The 2012-2013 capacity numbers for Orange High
School (1,399) is based on a capacity analysis and facilities study completed by the Department of Public Instruction in August 2012.

Justification:

Capacity Certification:

Superintendent Date

Membership Certification:

Superintendent Date

12-3-13 Date

Attachment I.B.2 Chapel Hill/Carrboro School Capacity (Elementary, Middle, & High) (2013-14)

BOCC Chair

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School APFO Capacity, Membership and Change Request Form

School District: Chapel Hill-Carrboro City Schools

SAPFO CAPS Year: November 15, 2013 - November 14, 2014

Capacity and Membership Submittal Date: November 15, 2013

Elementary School	Square Feet	2009-2010 Requested Capacity	2010-2011 Requested Capacity	2011-2012 Requested Capacity	2012-2013 Requested Capacity	2013-2014 Requested Capacity	Justification Footnote #	Membership (referenced school year)
Carrboro	60,832	533	533	533	533	533		461
Ephesus	66,952	448	448	448	448	448		436
Estes Hills	56,299	527	527	527	527	527		500
Glenwood	50,764	423	423	423	423	423		522
FP Graham	66,689	538	538	538	538	538		484
McDougle	98,000	564	564	564	564	564		497
Rashkis	95,729	585	585	585	585	585		522
Scroggs	90,980	575	575	575	575	575		552
Seawell	52,896	466	466	466	466	466		539
Morris Grove	90,221	585	585	585	585	585		548
Northside	99,500	0	0	0	0	585		493
Total	828,862	5,244	5,244	5,244	5,244	5,829		5,554

Special Note(s): 1. For the November 15, 2002 base year the board accepted the superintendent-certified capacities as part of the School Facilities
Task Force review and 2003 Planners and School Representative Technical Advisory Committee Report. These capacities will remain effective until
changed by (1) the School CIP or (2) an amended version of this form that is certified by the BOCC.

Justification:

Capacity Certification:

Superintendent Date

Membership/Certification:

Superintendent Date

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School APFO Capacity, Membership and Change Request Form

School District: Chapel Hill-Carrboro City Schools	
SAPFO CAPS Year: November 15, 2013 - November 14, 2014	
Capacity and Membership Submittal Date: November 15, 2013	

Middle School	Square Feet	2009-2010 Requested Capacity	2010-2011 Requested Capacity		2012-2013 Requested Capacity	2013-2014 Requested Capacity	Justification Footnote #	Membership (referenced school year)
Culbreth	108,058	670	670	670	670	670		699
McDougle	136,221	732	732	732	732	732		705
Phillips	109,498	706	706	706	706	706		658
Smith	128,764	732	732	732	732	732		796
Total	482,541	2,840	2,840	2,840	2,840	2,840		2,858

Special Note(s): 1. For the November 15, 2002 base year the board accepted the superintendent-certified capacities as part of the School Facilities

Task Force review and 2003 Planners and School Representative Technical Advisory Committee Report. These capacities will remain effective until changed by (1) the School CIP or (2) an amended version of this form that is certified by the BOCC.

Justification:

Superintendent

Date

Membership Certification:

Superintendent

Date

BOCC Chair Date

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School APFO Capacity, Membership and Change Request Form

School District: Chapel Hill-Carrboro City Schools

SAPFO CAPS Year: November 15, 2013 - November 14, 2014

Capacity and Membership Submittal Date: November 15, 2013

High School	Square Feet	2009-2010 Requested Capacity	2010-2011 Requested Capacity	2011-2012 Requested Capacity	2012-2013 Requested Capacity	2013-2014 Requested Capacity	Justification Footnote #	Membership (referenced school year)
Chapel Hill East Chapel Hill Carrboro Phoenix Acad.	241,111 259,869 148,023 5,207	1,515 800	1,520 1,515 800 40	1,515		1,515 800		1,423 1,413 898 30
Total	654,210	3,835	3,875	3,875	3,875	3,875		3,764

Special Note(s): 1. For the November 15, 2002 base year the board accepted the superintendent-certified capacities as part of the School Facilities Task Force review and 2003 Planners and School Representative Technical Advisory Committee Report. These capacities will remain effective until changed by (1) the School CIP or (2) an amended version of this form that is certified by the BOCC.

Justification:

Capacity Certification:

Superintendent

Date

Membership Certification:

Superintendent

Date

BOCC Chair Date

Ce Chair Date

Attachment I.B.3 Orange County School Capacity (Elementary, Middle, & High) (2014-15)

(page 1 of 3)

School APFO Capacity, Membership and Change Request Form

School District: Orange County Schools SAPFO CAPS Year: November 14, 2014 - November 13, 2015 Capacity and Membership Submittal Date: November 14, 2014

Elementary School	Square Feet	2010-2011 Requested Capacity	2011-2012 Requested Capacity	2012-2013 Requested Capacity	2013-2014 Requested Capacity	2014-2015 Requested Capacity	Justification Footnote #	Membership
Cameron Park	70,812	565	565	565	565	565		591
Central	52,492		455		455	455		305
Efland Cheeks	64,316		497	497	497	497		426
Grady Brown	74,016		544	544	544	544		466
Hillsborough	51,106		471	471	471	471		457
New Hope	100,164		586	586	586	586		614
Pathways	85,282	576	576	576	576	576		400
Total	498,188	3,694	3,694	3,694	3,694	3,694		3,259

Special Note(s): 1. For the November 15, 2002 base year the board accepted the superintendent-certified capacities as part of the School Facilities Task Force review and 2003 Planners and School Representative Technical Advisory Committee Report. These capacities will remain effective until changed by (1) the School CIP or (2) an amended version of this form that is certified by the BOCC. 2. Due to November 15th falling on a Saturday this year, membership and capacity numbers shall be provided for Friday, November 14, 2014.

Justification:

Capacity Certification:

Membership Certification:

Earl Miles Date

Earl Miles Date

Earl Miles Date

BOCC Chair Date

Attachment I.B.3 Orange County School Capacity (Elementary, Middle, & High) (2014-15)

(page 2 of 3)

School APFO Capacity, Membership and Change Request Form

School District: Orange County Schools SAPFO CAPS Year: November 14, 2014 - November 13, 2015 Capacity and Membership Submittal Date: November 14, 2014

Middle School	Square Feet	2010-2011 Requested Capacity	2011-2012 Requested Capacity	2012-2013 Requested Capacity	2013-2014 Requested Capacity	2014-2015 Requested Capacity	Justification Footnote #	Membership
A.L. Stanback	136,000	740	740	740	740	740		614
C.W. Stanford	107,620	726	726	726	726	726		650
Gravelly Hill	123,000	700	700	700	700	700		498
Total	366,620	2,166	2,166	2,166	2,166	2,166		1,762

Special Note(s): 1. For the November 15, 2002 base year the board accepted the superintendent-certified capacities as part of the School Facilities Task Force review and 2003 Planners and School Representative Technical Advisory Committee Report. These capacities will remain effective until changed by (1) the School CIP or (2) an amended version of this form that is certified by the BOCC. 2. Due to November 15th falling on a Saturday this year, membership and capacity numbers shall be provided for Friday, November 14, 2014.

Justification:

Capacity	Certification:
----------	----------------

Membership Certification:

Earl Milee Date

BOCC Chair Date

Earl Milee 12/9/14

BOCC Chair Date

Attachment I.B.3 Orange County School Capacity (Elementary, Middle, & High) (2014-15)

(page 3 of 3)

School APFO Capacity, Membership and Change Request Form

School District: Orange County Schools

SAPFO CAPS Year: November 14, 2014 - November 13, 2015

Capacity and Membership Submittal Date: November 14, 2014

High School	Square Feet	2010-2011 Requested Capacity	2011-2012 Requested Capacity	2012-2013 Requested Capacity	2013-2014 Requested Capacity	2014-2015 Requested Capacity	Justification Footnote #	Membership
Orange	213,509	1,518	1,518	1,399	1,399	1,399		1,318
Cedar Ridge	206,900	1,000	1,000	1,000	1,000	1,000		1,154
Partnership	6,600	40	40	40	40	40		30
Total	427,009	2,558	2,558	2,439	2,439	2,439		2,502

Special Note(s): 1. For the November 15, 2002 base year the board accepted the superintendent-certified capacities as part of the School Facilities Task Force review and 2003 Planners and School Representative Technical Advisory Committee Report. These capacities will remain effective until changed by (1) the School CIP or (2) an amended version of this form that is certified by the BOCC. 2. The 2012-2013 capacity numbers for Orange High School (1,399) is based on a capacity analysis and facilities study completed by the Department of Public Instruction in August 2012. 3. Due to November 15th falling on a Saturday this year, membership and capacity numbers shall be provided for Friday, November 14, 2014.

Justification:

Capacity Certification:

Earl M-kee 12/9/10

Membership Certification:

Superintendent Date

Earl M5 ker 12/9/47

BOCC Chair Date

Attachment I.B.4 Chapel Hill/Carrboro School Capacity (Elementary, Middle, & High) (2014-15)

(page 1 of 3)

School APFO Capacity, Membership and Change Request Form

School District: Chapel Hill-Carrboro City Schools

SAPFO CAPS Year: November 14, 2014 - November 13, 2015

Capacity and Membership Submittal Date: November 14, 2014

Elementary School	Square Feet	2010-2011 Requested Capacity	2011-2012 Requested Capacity	2012-2013 Requested Capacity	2013-2014 Requested Capacity	2014-2015 Requested Capacity	Justification Footnote #	Membership (referenced school year)
Carrboro	60,832	533	533	533	533	533		500
Ephesus	66,952	448	448	448	448	448		431
Estes Hills	56,299	527	527	527	527	527		480
FP Graham	66,689	538	538	538	538	538		496
Glenwood	50,764	423	423	423	423	423		483
McDougle	98,000	564	564	564	564	564		478
Morris Grove	90,221	585	585	585	585	585		550
Northside	99,500	0	0	0	585	585		520
Rashkis	95,729	585	585	585	585	585		526
Scroggs	90,980	575	575	575	575	575		554
Seawell	52,896		466	466	466	466		523
Total	828,862	5,244	5,244	5,244	5,829	5,829		5,541

Special Note(s): 1. For the November 15, 2002 base year the board accepted the superintendent-certified capacities as part of the School Facilities Task Force review and 2003 Planners and School Representative Technical Advisory Committee Report. These capacities will remain effective until changed by (1) the School CIP or (2) an amended version of this form that is certified by the BOCC. 2. Due to November 15th falling on a Saturday this year, membership and capacity numbers shall be provided for Friday, November 14, 2014.

Justification:

Superintendent Date

Earl Mike Digital BOCC Chair Date

Membership Certification:

(page 2 of 3)

School APFO Capacity, Membership and Change Request Form

School District: Chapel Hill-Carrboro City Schools

SAPFO CAPS Year: November 14, 2014 - November 14, 2015

Capacity and Membership Submittal Date: November 14, 2014

Middle School	Square Feet	2010-2011 Requested Capacity	2011-2012 Requested Capacity	2012-2013 Requested Capacity	2013-2014 Requested Capacity	2014-2015 Requested Capacity	Justification Footnote #	Membership (referenced school year)
							Science wing	
Culbreth	122,467	670	670	670	670	774	addition	686
McDougle	136,221	732	732	732	732	732		721
Phillips	109,498	706	706	706	706	706		625
Smith	128,764	732	732	732	732	732		829
Total	496,950	2,840	2,840	2,840	2,840	2,944		2,861

Special Note(s): 1. For the November 15, 2002 base year the board accepted the superintendent-certified capacities as part of the School Facilities Task Force review and 2003 Planners and School Representative Technical Advisory Committee Report. These capacities will remain effective until changed by (1) the School CIP or (2) an amended version of this form that is certified by the BOCC. 2. Due to November 15th falling on a Saturday this year, membership and capacity numbers shall be provided from Friday, November 14, 2014.

Justification:

Capacity Certification:	2/1/14	Earl Mike	12/2/14
Superintendent	Date	BOCC Chair	Date Date
Membership Certification	u :		
Superintendent	Date	Earl M-1ke BOCC Chair	12/9/10 Date

(page 3 of 3)

School APFO Capacity, Membership and Change Request Form

School District: Chapel Hill-Carrboro City Schools	
SAPFO CAPS Year: November 14, 2014 - November 13, 2015	
Capacity and Membership Submittal Date: November 14, 2014	

High School	Square Feet	2010-2011 Requested Capacity	2011-2012 Requested Capacity	2012-2013 Requested Capacity	2013-2014 Requested Capacity	2014-2015 Requested Capacity	Justification Footnote #	Membership (referenced school year)
Carrboro	148,023	800	800	800	800	800		833
Chapel Hill	241,111	1,520	1,520	1,520	1,520	1,520		1,454
East Chapel Hill	259,869	1,515	1,515	1,515	1,515	1,515		1,410
Phoenix Acad.	5,207	40	40	40	40	40		33
Total	654,210	3,875	3,875	3,875	3,875	3,875		3,730

Special Note(s): 1. For the November 15, 2002 base year the board accepted the superintendent-certified capacities as part of the School Facilities Task Force review and 2003 Planners and School Representative Technical Advisory Committee Report. These capacities will remain effective until changed by (1) the School CIP or (2) an amended version of this form that is certified by the BOCC. 2. Due to November 15th falling on a Saturday this year, membership and capacity numbers shall be provided for Friday, November 14, 2014.

Justification:

Superintendent Date

BOCC Chair

Date

| Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Dat

C. Membership Date

- 1. Responsible Entity for Suggesting Change Change can be effectuated only by amendment to Memorandum of Understanding (MOU) by all School APFO partners. The Planning Directors, School Representatives, and Technical Advisory Committee (SAPFOTAC) may advise if a change in date would improve the reporting or timeliness of the report.
- 2. Definition The date at which student membership is calculated. This date is updated each year and also serves as the basis for projections along with the history from previous years. "For purposes of this Memorandum, the term "school membership" means the actual number of students attending school as of November 15 of each year. The figure is determined by considering the number of students enrolled (i.e. registered, regardless of whether a student is no longer attending school) and making adjustments for withdrawals, dropouts, deaths, retentions and promotions. Students who are merely absent from class on the date membership is determined as a result of sickness or some other temporary reason are included in school membership figures. Each year the School District shall transmit its school membership to the parties to this agreement no later than five (5) school days after November 15.
- 3. Standard for: Standard for:

Chapel Hill/Carrboro School District

Orange County School District

November 15

November 15

of each year

of each year

4. Analysis of Existing Conditions:

This will be analyzed in the future years to determine if it is an exemplary date.

5. Recommendation:

Recommendation:

Chapel Hill/Carrboro School District

Orange County School District

No change at this time

No change at this time

II. Annual Update to Schools Adequate Public Facilities Ordinance System

A. Capital Investment Plan (CIP)

- 1. Responsible Entity for Suggesting Change The updating of this section will be conducted by the Board of County Commissioners (BOCC) after review of the CIP requests from the School Districts. Action regarding CIP programs usually occurs during the BOCC budget Public Hearing process in the winter and spring of each year. The development of the CIP considers the conditions noted in the SAPFOTAC report released in the same CIP development year including LOS (level of service), capacity, and membership projections.
- **2.** *Definition* The process and resultant program to determine school needs and provide funding for new school facilities through a variety of funding mechanisms.
- 3. Standard for:

Standard for:

Chapel Hill/Carrboro School District

Orange County School District

Not Applicable

Not Applicable

4. Analysis of Existing Conditions:

The MOU outlines a system of implementing the SAPFO, including issuing Certificates of Adequate Public Schools (CAPS) to new development if capacity is available. The Requests for CAPS will be evaluated using the most recently adopted Capital Investment Plan. A new Capital Investment Plan is currently under development for approval prior to June 30, 2015.

5. Recommendation:

Not subject to staff review.

B. Student Membership Projection Methodology

- Responsible Entity for Suggesting Change This section is reviewed and recommended by the Planning Directors, School Representatives, and Technical Advisory Committee (SAPFOTAC) to the BOCC for change, if necessary.
- 2. Definition The method(s) by which student memberships are calculated for future years to determine total membership at each combined school level (Elementary, Middle, and High School) which take into consideration historical membership totals at a specific time (November 15) in the school year. These methods are also known as 'models'.

3. Standard for:

Standard for:

Chapel Hill/Carrboro School District

Orange County School District

Presently, the <u>average of five models</u> is being used: namely 3, 5, and 10 year history/cohort survival methods, Orange County Planning Department Linear Wave, and Tischler Linear methods. Attachment II.B.1 includes a description of each model.

4. Analysis of Existing Conditions:

Performance of the models is monitored each year. The value of a projection model is in its prediction of school level capacities at least three years in advance of capacity shortfalls so the annual Capital Investment Plan (CIP) updates can respond proactively with siting, design, and construction. Attachment II.B.1 includes a description of each model. Attachment II.B.3 shows the performance of the models for the 2014-15 school year from the prior year projection.

5. Recommendation:

More than ten years of projection results are now available. Analysis on the accuracy of the results is showing that some models have better results in one district while others have better results in the other district. The historic growth rate is recorded by the models, but projected future growth is more difficult to accurately quantify. In all areas of the county, proposed growth is not included in the SAPFO projection system until actual students begin enrollment. The system is updated in November of each year, becoming part of the historical projection base. This is especially pertinent in the Orange County School District which serves students living within the Orange County portion of the City of Mebane which have had little historic enrollment

Section II

impact. The significant proposed residential growth occurring within Mebane's jurisdiction has yet to be fully entered into the historically based projection methods. Although construction activity in this portion of the county has slowed, there are still a substantial number of approved, but undeveloped residential lots.

STUDENT MEMBERSHIP PROJECTIONS

PROJECTION TYPE	DESCRIPTION / CHARACTERISTICS	FORMULA	ASSUMPTIONS
Tischler Linear (OCS & CHCCS)	Mathematical formula; straight line projection	y≖projected population; o=historical annual change; b=base year; x≖ projection years	Historical growth is reflected in projected growth
OCP Linear Wave (OCS)	Mathematical linear with percent variation among school levels; reflects progressing waves of membership	BYM + (BYI + 5(n)) = EYM EYM * %SL = EYM/SL BYM= base year 2nd month membership; BYI=year student membership increment base; EYM=ensuing year membership; n=projection year; %SL=% of total membership per school level (i.e. elementary, middle, high); EYM/SL=ensuing year member by school level	Base year growth reflects 10-year average; increase in BYI of 5 every other year reflects increases in housing growth; reflects buildout constraints
OCP Linear Wave (CHCCS)	Mathematical linear with percent variation among school levels; reflects progressing waves of membership	BYM + (BYI - 15(n)) = EYM EYM * %SL = EYM/SL BYM= base year 2nd month membership; BYI=year student membership increment base, EYM=ensuing year membership; n=projection year; %SL=% of total membership per school level (i.e. elementary, middle, high); EYM/SL=ensuing year member by school level	Base year growth reflects 10-year average; decrease in BYI of 15 until school year 2010-2011 reflects decreases in housing growth; reflects buildout constraints
3-Year Cohort (OCS & CHCCS)	Mathematical formula that computes the average advancement rate over the previous 3 years for each grade level and then uses each rate to calculate projected membership by school level; an assumed kindergarten membership is based on birth records and/or historical growth rates	K _n = k _n , + (k _n , * 0.01) n=1 a = {Σ G _n / g _n , 1} / 3 n=3 b=g _n , {a} K=kindergarten membership; n=given school year; G=given grade's membership(other than kindergarten); g= previous grade's membership; a=average advancement rate; b=projected membership	Assumes a 1% annual growth rate for the kindergarten grade level; assumes the same percentage of students in each grade level graduate to the next level each year
5 year Cohort (OCS & CHCCS)	Mathematical formula that computes the average advancement rate over the previous 5 years for each grade level and then uses each rate to calculate projected membership by school level; an assumed kindergarten membership is based on birth records and/or historical growth rates	K _n = k _{n·1} + (k _{n·1} * 0.01) n=1 a = (Σ G _n / g _{n·1}) / 5 n=5 b=g _{n·1} (a) K=kindergarten membership; n=given school year; G=given grade's membership(other than kindergarten); g= previous grade's membership; a=average advancement rate; b=projected membership	Assumes a 1% annual growth rate for the kindergarten grade level; assumes the same percentage of students in each grade level graduate to the next level each year
10 year Cohort (OCS & CHCCS)	Mathematical formula that computes the average advancement rate over the previous 10 years for each grade level and then uses each rate to calculate projected membership by school level; an assumed kindergarten membership is based on birth records and/or historical growth rates	K _n = k _{n·1} + (k _{n·1} * 0.01) n=1 a ={Σ G _n / g _{n·1} } / 10 n=10 b=g _{n·1} (a) K=kindergarten membership; n=given school year; G=given grade's membership(other than kindergarten); g= previous grade's membership advancement rate; b=projected membership	Assumes a 1% annual growth rate for the kindergarten grade level; assumes the same percentage of students in each grade level graduate to the next level each year

(page 1 of 4)

Orange County School District School Membership 2013-14 School Year (November 15, 2013)

	11/15/12 Actual 2012-13	2013 Report Projection for 2013-14	11/15/13 Actual 2013-14	Change between actual Nov 2012 - Nov 2013
Elementary	3403		3433	+30
<u>Model</u>			Projection is	
Т		3460	H27	
OCP		3462	H29	
10C		3416	L17	
5C		3415	L18	
3C		3411	L22	
AVG		3433	Equal	
			11/15/2013	
Middle	1684		1747	+63
<u>Model</u>			Projection is	
Т		1712	L35	
OCP		1709	L38	
10C		1750	H3	
5C		1755	H8	
3C		1740	L7	
AVG		1733	L14	
			11/15/2013	
High	2315		2421	+106
Model			Projection is	
T		2354	L67	
OCP		2356	L65	
10C		2334	L87	
5C		2362	L59	
3C		2367	L54	
AVG		2355	L66	
			11/15/2013	
Totals				
Elementary	3403		3433	
Middle	1684	П	1747	
High	2315		2421	
	7402		7601	+199
<u>Model</u>			Projection is	
Т		7526	L75	
OCP		7527	L74	
10C		7500	L101	
5C		7532	L69	
3C		7518	L83	
AVG		7521	L80	

H means High

L means Low

(page 2 of 4)

Orange County School District School Membership 2013-2014 School Year (November 15, 2013)

Statistical Findings

PROJECTION TYPE ABBR	REVIATIONS
ORANGE COLINTY PLANNING (OCP)	10-YEAR COHORT (10C) 5-YEAR COHORT (5C) 3-YEAR COHORT (3C)

Elementary School Level

- Projections were mixed low and high, ranging from 22 students low to 29 students high.
 The average of the projections equaled actual student membership.
- The membership actually increased by 30 students between November 15, 2012 and November 15, 2013.

Middle School Level

- Projections were mixed low and high, ranging from 38 students low to 8 students high.
 On average, the projections were 14 students lower than the actual membership.
- The membership actually increased by 63 students between November 15, 2012 and November 15, 2013.

High School Level

- Projections were all low ranging from 54 students to 87 students low. On average, the projections were 66 students lower than the actual membership.
- The membership actually increased by 106 students between November 15, 2012 and November 15, 2013.

TOTAL

- The totals of all school level projections were low, ranging from 69 to 101 below actual membership. On average, the projections were low by 80 students.
- The membership increased in total by 199 students, which is the sum of +30 at Elementary, +63 at Middle, and +106 at High.

Chapel Hill/Carrboro School District School Membership 2013-2014 School Year (November 15, 2013)

	11/15/12 Actual 2012-13	2013 Report Projection for 2013-14	11/15/13 Actual 2013-14	Change between actual Nov 2012- Nov 2013
Elementary	5543		5554	+11
Model			Projection is	
T		5643	H89	
OCP		5643	H89	
10C		5603	H49	
5C		5583	H29	
3C		5589	H35	
AVG		5612	H58	
			11/15/2013	
Middle	2785		2858	+73
<u>Model</u>			Projection is	
T		2835	L23	
OCP		2840	L18	
10C		2888	H30	
5C		2873	H15	
3C		2872	H14	
AVG		2862	H4	
			11/15/2013	
High	3796		3764	-32
<u>Model</u>			Projection is	
T		3864	H100	
OCP		3890	H126	
10C		3794	H30	
5C		3782	H18	
3C		3810	H46	
AVG		3828	H64	
Tetale			11/15/2012	
Totals	5543		11/15/2013 5554	
Elementary Middle	2785	+		
High	3796	+	2858 3764	+
ı iigii	12,124		12,176	+52
	12,124		12,170	TJZ
Model			Projection is	
<u>σσσ.</u>		12,342	H166	
T				
T OCP		++	H197	
OCP		12,373	H197 H109	
OCP 10C		12,373 12,285	H109	
OCP		12,373		

H means High

L means Low

(page 4 of 4)

Chapel Hill/Carrboro School District School Membership 2013-2014 School Year (November 15, 2013)

Statistical Findings

PROJECTION TYPE ABBR	REVIATIONS
TISCHLER LINEAR (T) OPANGE COLINEY DLANNING (OCD)	10-YEAR COHORT (10C) 5-YEAR COHORT (5C) 3-YEAR COHORT (3C)

Elementary School Level

- Projections were all high, ranging from 29 students to 89 students high. On average, the projections were 58 students higher than the actual membership.
- The actual membership increased by 11 students between November 15, 2012 and November 15, 2013.

Middle School Level

- Projections were mixed low and high, ranging from 23 students low to 30 students high. On average, the projections were 4 students higher than the actual membership.
- The actual membership increased by 73 students between November 15, 2012 and November 15, 2013.

High School Level

- Projections were all high, ranging from 18 students to 126 students high. On average, the projections were 64 students higher than the actual membership.
- The actual membership decreased by 32 students between November 15, 2012 and November 15, 2013.

TOTAL

- The total of all school level projections were all high, ranging from 62 students to 197 students above actual membership. On average, the projections were high by 126 students.
- The membership increased in total by 52 students, which is the sum of +11 at Elementary, +73 at Middle, and -32 at High.

(page 1 of 4)

Orange County School District School Membership 2014-15 School Year (November 14, 2014)

	11/15/13	2014 Report	11/14/14	ember 14, 2014)
	Actual 2013-14	Projection for 2014-15		Change between actual Nov 2013 - Nov 2014
Elementary	3433		3259	-174
Model			Projection is	
T		3493	H234	
OCP		3492	H233	
10C		3457	H198	
5C		3471	H212	
3C		3488	H229	
AVG		3472	H213	
			11/14/2014	
Middle	1747		1762	+15
madic	17-77		1702	110
Model			Projection is	
T		1778	H16	
OCP		1777	H15	
10C		1796	H34	
5C		1799	H37	
3C		1793	H31	
AVG		1789	H27	
			11/14/2014	
High	2421		2502	+81
Model			Draination in	
Model T		0.400	Projection is	
T		2463	L39	
OCP		2434	L68	
10C 5C		2404	L98	
3C		2436	L66 L208	
AVG		2294 2406	L206	
AVG		2400	L90	
Totals			11/14/2014	
Elementary	3433		3259	
Middle	1747		1762	
High	2421		2502	
	7601		7523	-78
<u>Model</u>			Projection is	
Т		7734	H211	
OCP		7703	H180	
10C		7657	H134	
5C		7706	H183	
50				
3C		7575	H52	

H means High L means Low

(page 2 of 4)

Orange County School District School Membership 2014-2015 School Year (November 14, 2014)

Statistical Findings

PROJECTION TYPE ABBR	REVIATIONS
ORANGE COLINTY PLANNING (OCP)	10-YEAR COHORT (10C) 5-YEAR COHORT (5C) 3-YEAR COHORT (3C)

Elementary School Level

- Projections were all high, ranging from 198 students to 234 students high. On average, the projections were 213 students higher than actual membership.
- The membership actually decreased by 174 students between November 15, 2013 and November 14, 2014. Part of this decrease could be due to the opening of a new charter school in Hillsborough this year. It is suspected that many of the charter school students were previously enrolled in one of the school districts located in Orange County.

Middle School Level

- Projections were all high, ranging from 15 students to 37 students high. On average, the projections were 27 students higher than the actual membership.
- The membership actually increased by 15 students between November 15, 2013 and November 14, 2014.

High School Level

- Projections were all low, ranging from 39 students to 208 students low. On average, the projections were 96 students lower than the actual membership.
- The membership actually increased by 81 students between November 15, 2013 and November 14, 2014.

TOTAL

- The totals of all school level projections were high, ranging from 52 to 211 above actual membership. On average, the projections were high by 144 students.
- The membership decreased in total by 78 students, which is the sum of -174 at Elementary, +15 at Middle, and +81 at High.

Chapel Hill/Carrboro School District School Membership 2014-15 School Year (November 14, 2014)

	11/15/13 Actual 2013-14	2014 Report Projection for 2014-15	11/14/14 Actual 2014-15	Change between actual Nov 2013 - Nov 2014
Elementary	5554		5541	-13
<u>Model</u>			Projection is	
Т		5647	H106	
OCP		5655	H114	
10C		5637	H96	
5C		5610	H69	
3C		5628	H87	
AVG		5635	H94	
			11/14/2014	
Middle	2858		2861	+3
Middle	2030		2001	+3
Model		+	Projection is	
T		2906	H45	
OCP		2889	H28	
10C		2957	H96	
5C		2930	H69	
3C		2943	H82	
AVG		2925	H64	
			11/14/2014	
High	3764		3730	-34
N 4 - 1 - 1			Daria di ancia	
Model -		0007	Projection is	
T		3827	H97	
OCP		3875 3761	H145	
10C		1 13/n1	H31	
5C		++		
		3772	H42	
3C		3772 3788	H42 H58	
3C		3772	H42	
3C AVG		3772 3788	H42 H58 H75	
3C AVG Totals	5554	3772 3788	H42 H58 H75	
3C AVG Totals Elementary Middle	5554 2858	3772 3788	H42 H58 H75 11/14/2014 5541	
3C AVG Totals Elementary Middle	2858	3772 3788	H42 H58 H75 11/14/2014 5541 2861	
3C AVG Totals Elementary		3772 3788	H42 H58 H75 11/14/2014 5541	-44
3C AVG Totals Elementary Middle High	2858 <u>3764</u>	3772 3788	H42 H58 H75 11/14/2014 5541 2861 3730 12,132	-44
3C AVG Totals Elementary Middle High	2858 <u>3764</u>	3772 3788 3805	H42 H58 H75 11/14/2014 5541 2861 3730 12,132 Projection is	-44
Totals Elementary Middle High Model	2858 <u>3764</u>	3772 3788 3805	H42 H58 H75 11/14/2014 5541 2861 3730 12,132 Projection is H248	-44
3C AVG Totals Elementary Middle High Model T	2858 <u>3764</u>	3772 3788 3805 12,380 12,419	H42 H58 H75 11/14/2014 5541 2861 3730 12,132 Projection is H248 H287	-44
3C AVG Totals Elementary Middle High T OCP 10C	2858 <u>3764</u>	3772 3788 3805 12,380 12,419 12,355	H42 H58 H75 11/14/2014 5541 2861 3730 12,132 Projection is H248 H287 H223	-44
3C AVG Totals Elementary Middle High Model	2858 <u>3764</u>	3772 3788 3805 12,380 12,419	H42 H58 H75 11/14/2014 5541 2861 3730 12,132 Projection is H248 H287	-44

H means High

L means Low

Chapel Hill/Carrboro School District School Membership 2014-2015 School Year (November 14, 2014)

Statistical Findings

PROJECTION TYPE ABBR	REVIATIONS
ODANGE COUNTY DI ANNING (OCD)	10-YEAR COHORT (10C) 5-YEAR COHORT (5C) 3-YEAR COHORT (3C)

Elementary School Level

- Projections were all high, ranging from 69 students to 114 students high. On average, the projections were 94 students higher than the actual membership.
- The actual membership decreased by 13 students between November 15, 2013 and November 14, 2014. Part of this decrease could be due to the opening of a new charter school in Hillsborough this year. It is suspected that many of the charter school students were previously enrolled in one of the school districts located in Orange County.

Middle School Level

- Projections were all high, ranging from 28 students to 96 students high. On average, the projections were 64 students higher than the actual membership.
- The actual membership increased by 3 students between November 15, 2013 and November 14, 2014.

High School Level

- Projections were all high, ranging from 31 students to 145 students high. On average, the projections were 75 students higher than the actual membership.
- The actual membership decreased by 34 students between November 15, 2013 and November 14, 2014.

TOTAL

- The total of all school level projections were all high, ranging from 180 students to 287 students above actual membership. On average, the projections were high by 233 students.
- The membership decreased in total by 44 students, which is the sum of -13 at Elementary, +3 at Middle, and -34 at High.

C. Student Membership Projections

- 1. Responsible Entity for Suggesting Change The updating of this section will be conducted by the Planning Directors, School Representatives, and Technical Advisory Committee (SAPFOTAC) and referred to the BOCC for annual report certifications. Projections will be distributed to SAPFO partners for review and comments to the BOCC prior to certification.
- 2. Definition The result of the average of the five student projection models represented by 10 year numerical membership projections by school level (Elementary, Middle, and High) for each school district (Chapel Hill/Carrboro School District and Orange County School District).

3. Standard for:

Chapel Hill Carrboro School District

The 5 model average discussed in Section II.B (Student Projection Methodology)
See Attachment II.C.4

Standard for:

Orange County School District

The 5 model average discussed in Section II.B (Student Projection Methodology)
See Attachment II.C.3

4. Analysis of Existing Conditions

The membership figures and percentage growth on the attachments show continued growth in both systems. Average projected growth rates in the next 10 years for both school systems are showing a projected decrease in the increase, but are still showing average positive growth. Chapel Hill/Carrboro Schools projected average annual growth rates have decreased slightly, but remained positive. Future growth rates show varying, but continuous positive growth in the 10 year projection period for elementary, middle, and high school levels. Projected average annual growth rates for Orange County Schools have significantly decreased, but remained positive. Orange County Schools' future growth rates show varying positive and negative growth in the 10 year projection period for elementary, middle, and high school levels.

Attachment II.C.3 and Attachment II.C.4 show year by year percent growth and projected level of service (LOS). The projection models were updated using current (November 14, 2014) memberships. Membership numbers were collected on November 14 due to November 15 falling on a Saturday in 2014. Ten years of student membership were projected thereafter.

Chapel Hill/Carrboro School District

Elementary

The previous year (2013-14) projections for November 2014 at this level were overestimated by 94 students. The actual membership decreased by 13 students. Over the previous ten years, this level has shown varying increases in growth rates including a decrease in actual membership in 2009-10 which was most likely due to the shorter enrollment period caused by the institution of the new date requiring kindergarteners to be five years old. Following that dip, membership numbers experienced an increase each year with a significant jump (168 students) in 2011-12 before experiencing a decrease this year. Growth rates during the past ten years have ranged from -1.57% to +3.92%. The projections this year are showing the need for Elementary School #12 in 2023-24, this is three years later than last year's projections.

Although not included in SAPFO school capacity or membership numbers, Pre-K programs continue to impact operations at District elementary schools where Pre-K programs exist. Specific impacts of Pre-K programs at the elementary school level will continue to be reviewed and discussed in the coming year.

Middle

The previous year (2013-14) projections for November 2014 for this level were overestimated by 64 students. The actual membership increased by 3. Over the previous ten years, growth has been quite variable and included a decrease in actual membership in 2004-05. Following this decrease, membership and growth rates have experienced increases every school year since. Growth rates during this time period have ranged from -1.99% to +2.86. The addition to Culbreth Middle School opened for the 2014-15 school year with a capacity of 104 seats. The projections this year are showing that Chapel Hill/Carrboro Middle School #5 is projected to be needed in 2023-24. This is three years later than last year's projections.

High School

The previous year (2013-14) projections for November 2014 for this level were overestimated by 75 students. The actual membership decreased by 34 students. Over the previous ten years, change has been variable with decreases in membership in 2008-09 and in 2009-10. Following

these decreases, membership and growth rates began increasing again before experiencing a decrease in 2013-14. Growth rates during this time period have ranged from -0.90 to +5.31%. The need for additional high school capacity is not anticipated in the 10 year projection period. This is different than last year's projections which identified a need for the Carrboro High School expansion in 2023-24.

Additional Information for Chapel Hill/Carrboro School District

One Charter School, PACE Academy, is located within the Chapel Hill/Carrboro School District. The newest charter school, The Expedition School, opened in the Town of Hillsborough for the 2014-15 school year and currently serves elementary and middle school students. The opening of this school may have affected CHCCS membership numbers at the elementary and middle school levels. Charter schools are not included as part of the SAPFO Annual Report and, as a result, their membership and capacity numbers are not monitored or included in future projections.

Student projections illustrate when the adopted level of service capacities are forecasted to be met and/or exceeded in anticipation of CIP planning and the construction of a new school. However, as is being identified by both school districts, particularly CHCCS, a new trend is emerging to renovate and expand existing facilities to address school capacity needs in a more feasible way. As this trend continues, additional capacity resulting from school renovations and expansion will be added to the projection models in stages, once funding is approved, versus the addition of greater capacity when a new school is constructed and completed. As a result, the renovation and expansion of schools to increase capacity may delay construction of new schools further into the future.

Orange County School District

Elementary

The previous year (2013-14) projections for November 2014 at this level were overestimated by 213 students. Actual membership decreased by 174 students. Over the previous ten years, this level has experienced varying growth rates including a decrease in membership in 2005-06. Following this decrease, membership and growth rates increased every school year until this

school year. Growth rates during this period have ranged from -5.07% to +2.80%. In the Orange County school system, historic growth is more closely related to new residential development than in the Chapel Hill/Carrboro School District, which has a sizeable number of new families in older, existing housing stock. The need for an additional Elementary School is not anticipated in the 10 year projection period. Staff continues to closely monitor new sizeable residential projects in the Orange County portion of Mebane and Hillsborough.

Although not included in SAPFO school capacity or membership numbers, Pre-K programs continue to impact operations at District elementary schools where Pre-K programs exist. Specific impacts of Pre-K programs at the elementary school level will continue to be reviewed and discussed in the coming year.

Middle

The previous year (2013-14) projections for November 2014 for this level were overestimated by 27 students. The actual membership increased by 15. Over the previous ten years, growth has varied widely and includes decreases in student membership in five of the ten years. Growth rates during this period have ranged from -4.67% to +4.00%. The district's third Middle School, Gravelly Hill Middle School, opened in October 2006. The need for an additional Middle School is not anticipated in the 10-year projection period. Staff continues to closely monitor new sizeable residential projects in the Orange County portion of Mebane and Hillsborough.

High School

The previous year (2013-14) projections for November 2014 for this level were underestimated by 96 students. The actual membership increased by 81. Over the previous ten years, growth varied considerably and included a decrease in membership in 2009-10. Following this decrease, membership and growth rates have experienced increases every school year since. Growth rates during this period ranged from -1.12% to 9.01%. In 2011-12 student membership increased by 32 while capacity decreased by 199 at Orange County High School as a result of a N.C. Department of Public Instruction (DPI) study. This year's projections show that additional capacity is needed in 2022-23 by expanding Cedar Ridge High School from 1,000 to 1,500 students. This is similar to last year's projections.

Additional Information for Orange County School District

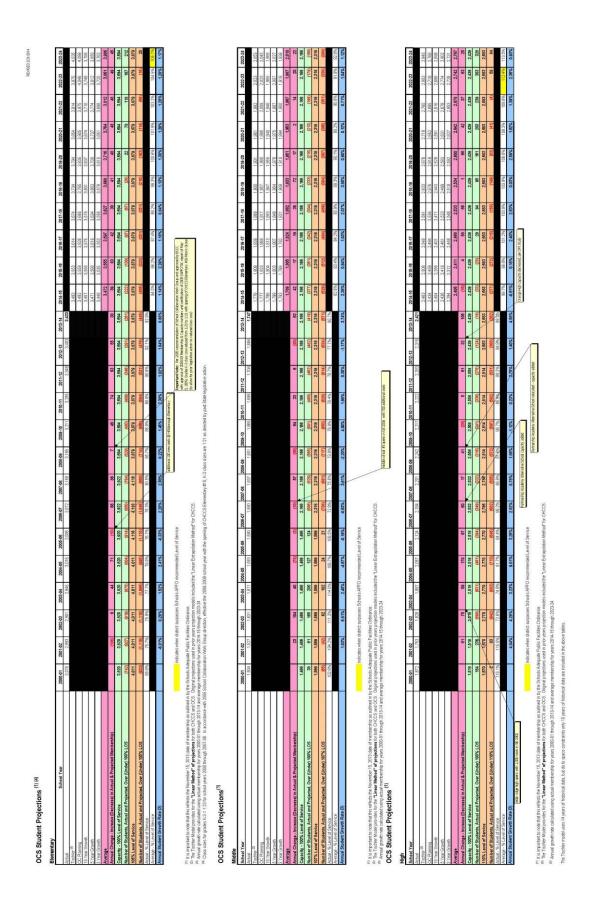
The City of Mebane lies partially within Orange County and students within the Orange County portion of Mebane attend Orange County schools. However, the City of Mebane is not a party to the SAPFO agreement and therefore does not require that CAPS (Certificate of Adequate Public Schools) be issued prior to development approvals. In previous years, development activity and platting of new subdivisions increased within the Orange County portion of Mebane. However, changed economic conditions have curbed new platting and new construction in the past few years. An uptick in residential activity is likely as the country emerges from "The Great Recession". Increased coordination with the City of Mebane regarding development issues may be necessary in the future. OCS currently has capacity to serve additional growth, but it is possible that development in the Orange County portion of Mebane could quickly encumber available capacity.

Following the economic downtown, there has been an increase in multi-family residential development which has added to increasing student memberships in both districts. Staff will need to continue monitoring and evaluating the demand and growth of the multi-family market in Hillsborough and the entire county as well as its effect on student membership rates.

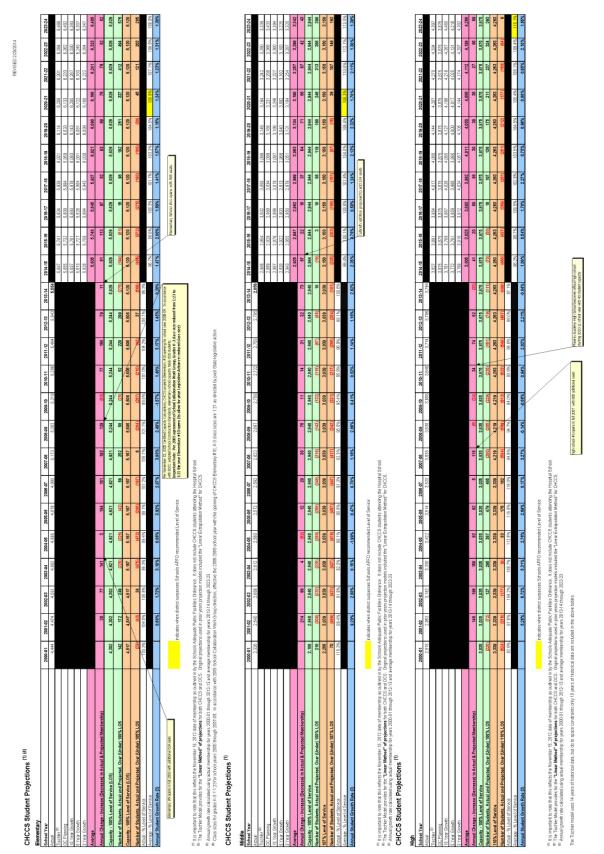
Orange Charter School, located in the Town of Hillsborough, continues operating in the Orange County School District. Additionally, a new charter school, The Expedition School, opened in the Town of Hillsborough for the 2014-15 school year and currently serves elementary and middle school students. The opening of this school may have caused the significant decrease in OCS membership at the elementary school level. Charter schools are not included as part of the SAPFO Annual Report and, as a result, their membership and capacity are not monitored or included in future projections.

5. Recommendation:

Use statistics as noted in 3 above



Attachment II.C.2 – Chapel Hill/Carrboro Student Projections (Elementary, Middle, & High) (2013-14)



Attachment II.C.3 – Orange County Student Projections (Elementary, Middle, & High) (2014-15)

Elementary																					
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	100	20070	2000004			2001-0	50-0007		2010-111	71-11	5102 5015	14 2014-10		71-0107	01-1107			27-1202		5053-54	27-6707
AGUAL	7,885	7,801	2,945	3,016	3,000	072 3,1	3,105	3,211	3,285	3,348	3,403 3	433 3,259	9	0.000	0 100	400	0000	2000	0000	0.15.0	0.70.4
11501167 (2)													5,308	3,358	5,409	3,450	3,550	3,610	3,550	3,/10	3,767
UC Planning													5,318	3,358	BB0'0	(45)	3,573	3,047	3,723	88/'8	3,875
10 Year Growth													3,279	3,239	3,148	101 3,0	3,098	3,129	3,160	3,192	3,224
5 Year Growth													3,268	3,223	3,130	3,0	52 3,082	3,113	3,144	3,175	3,207
3 Year Growth													3,251	3,191	3,084	.027 2.8	3,020	3,050	3,081	3,112	3,143
Average													3,285	3274	3,234	3,226	3,227 3,267	3,310	3,354	3,398	3,442
Annual Change - Increase (Decrease) in Actual & Projected Membership)	(185)	80	44	7.1	(10)	8 99	7 38	46	7.4	S	99	30 (17	1) 26	(11)	(40)	(8)	1	40 43	3 44	77	44
Capacity - 100% Level of Service	3.820	3.820	3,820	3,820	3,920	3,920 3,920	3,694	3,694	3,694	3,694	3,694 3	3.694 3.694	3,694	3.694	3,694	3,694	3,694 3,694	3,694	3,694	3,694	3.694
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Number of Students, Actual and Projected, Over (Under) 105% LOS	(1,118)	(1,119)	(1,066)	(986)	1,110) (1	044) (9	58) (714	(968)	(694)	(531)	(476) ((62)	(594)	(909)	(645)	(653)	(662) (6	(569	(625)	(481)	(437)
Actual - % Level of Service	75.7%	75.9%	77.1%	79.0%	76.7% 1 7.	3.4% 80.1	5% 85.79	86.9%	88.98	90.6%	92.1% 92	9% 88.2	90				ľ	ı			I
Average - % Level of Service						ш	ı							1	1					ı	93.2%
Annual Student Growth Rate (3)	-8.01%	0.28%	1.52%	2,41%	0.33% 2.20%	20% 2.80%	0% 0.22%	1,45%	2.30% 1.92%		1.64% 0.88%	8% -5.07%	% 0.80%	-0.33%	.122%	0.26%	0.03% 1.2	123% 1.33%	1.32%	1.31%	1.30%
					Add	tional 100 new seat	S & Hilborough St	ementary School							1						
	pu	cates when d	fishict surpasse	s Schools APR	indicates when district surpasses Schools APE0 recommended Level of Service	Level of Service	ga		with appro	Note: Per 2005 re	Important Note: Per 2015 recommendation of School Calaboration Wark Group and approved by BOCC. with approval of 2009-09 Membership & Capacity numbers and certification of 2009 SAFFOTAC report of	chool Calaboratio	there group and officiation of 2009	APPOTAC raport o	. 160						
									May 5, 200	9, Grades K-3 cla	ss size reduced from	123 to 121 art	opening of CHCCS	Elementary #10-							
(1) It is imported to note that this refacts the November 15, 2014 date of membership as outlined in by the Schools Adequate Public Facilities Ordinance.									Morris Gros	ne (to allow for pri	or legislative action	re: reduced class	(50)								
8	cluded the "Linear Extrapolation Method" for CHCCS	that for CHCCS.							J					ı							
9																					
 G. CHACK SIZES for grades (1/2) for about years 2001 for out 2001-1-28. In accordance with 2005 SIZEGO CHARGE BUT VERY CHARGE GRADEN, effective, the 20 	ne zuz-zuz szoo jes eurith	opering of cecus	ang of CHCC'S Easterfolly PTO, K-3 page		spice are 1,21 as prededily pad 33as agolasis	post se action.															
OCS Student Projections(1)																					
Middle																					
200	Г																				I
School Year	2001-02	002-03	2002-03 2003-04 2004-05		2005-06 2006-07	2007-0	2008-0	2009-10	2010-11 20	11-12 2012	2010-11 2011-12 2012-13 2013-14 2014-15	14 2014-16		2016-17	2017-18 20	18-19 201	2016-16 2016-17 2017-18 2018-19 2019-20 2020-21 2021-22 2022-23 2023-24 2024-26	2021-22	2022-23	2023-24	2024-25
Actual	1,527	1,631	1,671	1,593	1,590	580 1,6.	1,637 1,601	1,665	1,698	1,704	1,684	747 1,76	2								
Trschler (2)													1,789	1,816	1,843	1,870 1,8	1,898 1,925	1,952	1,979	2,006	2,033
OC Planning													1,791	1829	H	L	H	-	L	2006	2028
10 Voor Grouth													1 720	1714	1787	840 48	1740	1683	1831	1647	1884
TO LOST CHOWN													1000	1000	4 704	+	1000	2007	200	1000	1000
5 Year Growth													1,722	1,687	1,721		+	1,624	1573	1,588	1,604
3 Year Growth													1,721	1,683	1,713		1,773 1,648	1,574	1,520	1,535	1,550
Average													1,751	1,746	1,782	1,837	1,848 1,789	1,759	1,737	1,757	1,776
Annual Chance - Increase (Decrease) in Actual & Projected Membership)	23	104	40	(78)	(3)	(10)	25 (36)	29	33	9	(20)	63	15 (11)	(2)	38	38	11	(30)	1223	19	19
Canada 1006 and of Carales	4 400	207 1	4 455	4 400	4 466	2010	0 466	Ĺ	2010		2 466		0000	0010	L	L	2010	2010	2 455	2000	2000
Construction of the constr	000	004	004						4,100	L				2,100		1	1	1			2,100
Number of Students, Actual and Projected, Over (Under) 100% LUS	٥	8	97	171	124				(406)			(419)		(4.0)	(304)					(408)	(380)
107% Level of Service	1,569	1,569	1,569	1,569		2,318 2,31	18 2,318	2,318	2,318	2,318	2,318 2,	7,318	3 2,318	2,318	2,318	2,318	2,318 2,3	2,318 2,318	2,318	2,318	2,318
Number of Students, Actual and Projected, Over (Under) 107% LOS	(42)	62	102	24	21	738) (6	91) (71)	(663)	(620)	(614)	(634)	171) (65	(567)	(572)	(635)	(480)	(469) (6	(828)	(680)	(991)	(642)
Actual - % Level of Service	104.2%	111.3%	114.0%	108.7%	08.5%	2.9% 751	5% 73.9%	76.9%	78.4%	78.7%	77.7% 80	7% 813	20000	700.000	100.00		200		20.00	70.00	44.64
Average - to Level or Service	l	l		ı	ı		ı	۰							ı	ı	1	1		ı	02.0%
Annual Student Growth Rate (3)	1.53%	6.81%	2.45%	4.67%	0.19% 0.	0.63% 3.61%	1% -2.20%	6 4.00%	1,98%	0.35%	-1.17% 3.	3.74% 0.86%	% 40.66%	0.27%	2.08%	3.10%	0.60% 3.2	321% -1.70%	.1.23%	1,11%	1.10%
						Priddle S	thool #3 opers in f.	all 2005 with 700 a	difficnal seats												
	pu	cates when d	fishict surpasse	S Schools APR) recommended	Level of Service	indicates when district surpasses Schools APFO recommended Level of Service			1											
(2) The Tachier Mode provides for the Tunes Method" of projection for both CHCCS and CCS. Original projections used in price years projection models included in the control of the Commission o	destine "Linear Extrapolation Method" for CHCCS	that" for CHCCS.																			
OCS Student Projections (1)																					
	t	ŀ			1		П		ŀ	ŀ	ŀ	ŀ			ŀ	ŀ					
School Year	2001-02	2002-03 2003-04	03-04 2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11 2011-12 2012-13	11-12 2012	-13 2013-14	14 2014-15	2015-16	2016-17	2017-18 2018-19 2019-20	18:19 201	9.20 2020.5	2020-21 2021-22	2022-23	2023-24	2024-25
Total Control	1,700	070'	1,00,1	7,007	7 57 77	304 6,6	7577	717'7	77777	7,203	7 0107	7,00	25.00	0230	2010	020	002.0	0.110	0,00	0,000	7007
Inchies (2)													26.24	8107	20102	000	2000	7777	0.000	2010	2007
10 Valve Grouph													2,458	3,440	DLVC	76 NOV	2007	2536	2,00	2,910	2,400
EVEL CONTRACTOR													0.400	00000	+	+	t	t	6,000	2420	2000
o real county													0.500	5007	2,330	2442 2400	40 0070	2480	7500	2,870	2,303
3 Tear Grown													7,520	6967		1	1	1	1	/107	2,369
Average	l	ŀ			ı	ı	ı		I	ŀ	ı	ı		2,540	2,581	2,547	N	27,639	2,687	2,652	2,599
Annual Change - Increase (Decrease) in Actual & Projected Membership)	81	75	69								L			8							(54)
Capacity - 100% Level of Service	1,518	2,518	2,518	2,518	2,518 2,	2,533 2,533	33 2,558	2,558	2,558	2,558	2,439 2,	2,439 2,439	2,439	2,439	2,439	2,439	2,439 2,439	39 2,439	2,439	2,439	2,439
Number of Students, Actual and Projected, Over (Under) 100% LOS	235	(069)	(631)	(461)	(384)	(349) (332	32) (316)	(341)	(336)	(275)	(124)	(18) 63	3 71	101	142	108		183 200		213	160
110% Level of Service	1,670	2,770	2,770	2,770	2,770 2,	2,786 2,786	2,814	2,814	2,814	2,814	2,683 2,	2,683 2,683	3 2,683	2,683	2,683	2,683		2,683 2,683	3 2,683	2,683	2,683
Number of Students. Actual and Projected, Over (Under) 110% LOS	83	(942)	(883)	(713)	(646)	5021 (158	(5) (572)	1,6971	(592)	(631)	(368)	621 (18	1173)	(143)	(102)	(136)	(104)	181) (44	4	(15)	(84)
Actual: % Level of Service	115.5%	72.6%	74.9%	81.7%	844%	86.2% 86.9%	9% 87.6%	86.7%	86.98	89.2%	%676	3% 102.6	26		ı	ı					
Average - % Level of Service													102.9%	104 2%	105.8%			5% 108.2%	% 110.2%	108.7%	106.5%
Annual Student Growth Rate (3)	4.84%	4.28%	3,23%	9,01%	326% 2	2.82% 0.78%	1.86%	-1.12%	0.23%	2.75%	1,40% 4	4.58% 3.35%	% 0.32%	1.21%	1,60%	-1.30%	1,26% 1.6	1.63% 0.66%	1,81%	-1.29%	-2.02%
			Partnership Acad	S aug	ity ad	ı	l	┖				1	ı			ı	ı	ı			
				and a second				Pathership Academy	Attemethe	School relocated	capacity added										
	pu	cates when d	district surpasse.	s Schools APF	ndicates when district surpasses Schools APFO recommended Level of Service	Level of Service	00					1	Crange High capacity decreased, per ERI study	ty decreased, per	DPT study						
(1) It is imported to note that this well out the November 15, 2014 date of membership as outhers in bythe Schools Adequate Public Facilities Collection.																Ī					
(2) The Tladder Model provides for the "Linear Method" of projections for both OHCCS and OCS. Original projections used in prior years projection models include	of the "Linear Extrapolation M	polition Method" for CHCCS.																			
(3) Secure annual reference defined one actual mechanism for wear 2004 (2) forcing 2014.15 and accesses membership for wear 2014.05 through 2004.26																					
(A) Artist Both (A) Charles (A) Special Charle																					

Attachment II.C.4 – Chapel Hill/Carrboro Student Projections (Elementary, Middle, & High) (2014-15)

CHCCS Student Projections (1) (4)																						
Elementary	_ L	H		L	_	H	_ L	\perp	L	-	H	H		-	H	H	\perp		Н			
School Year	Z001-02 AA7A	2002-03	7 600	2004-00 4 606	2009-08	7008-07	5007-08	2008-09 200	2003-10 2010	2010-1 20102	2012-13 AGA ARA	2013-14	2014-15	91-9107	7016-17	201/-18	2018-19 20	12-0202 02-6102	72-1707	2027-23	2020-24	2024-25
Tischler (2)														5,625	5,710	5,794	5,879 5	5,963 6,048	8 6,132	6,217	6,301	6,386
OC Planning														5,641	5,769	5,898	Н	Н	97.59	6,416	6,491	6,565
10 Year Growth														5,606	5,647	Н	Н	Н	Н	5,944	6,004	6,064
5 Year Growth														5,586	5,606	5,650	5,695 5	5,701 5,758	5,816	5,874	5,933	5,992
3 Year Growth														5,573	5,578	5,603	5,629 5	5,632 5,689	9 2,746	5,803	5,861	5,920
Averge	ŀ	ŀ							ŀ	ı	ı		ı	909'9	2599'9	6,730	6,796	6,839 5	5,911 5,981	1 6,051	6,118	6,185
Annual Change - Increase (Decrease) in Actual & Projected Membership)	8	11	141	e	184	101	183	129	(83)	11	168	11 11	(13	909'9	99	8	99	17	72 7	70 70	29	67
Capacity - 100% Level of Service (LOS)	4,302	4,302	4,921	4,921	4,921	4,921	4,921	5,244	5,244	5,244 5,1	5,244	5,829	5,829	5,829	5,829	5,829	5,829	5,829 5	5,829 5,829	5,829	6,829	5,829
Number of Students, Actual and Projected Over Under 100% LOS	172	249	(229)	1922	(42)	69	282	89	(25)	62	220	229	/		(167)	(88)	(34)	10	152	222	289	386
Capacity - 105% Level of Service (LOS)	4,517	4,517	5,167	5,167	5,167	5,167	5,167	909'9	5,506		40	6,120	6,120	6,120	6,120	6,120	6,120		9	9	6,120	6,120
Number of Shidente Actual and Projected Over Anders 1959, 1 OS	NLSP!	7	02.07	102.07	1880/	14017		1000							10397	1080	(300)				60	5
Actual - % Level of Service		105.8%	95.3%	86.4%	99.1%	101.2%	105.1%	101.1%	L	L	104.2% 105.7%	95.3%	05		(0.26)	000	(070)	100	A))		9	3
Average - % Level of Service		ł	ı	ı	ı	l	ł								97.1%	98.3%	99.4%				105.0%	106.1%
Annual Student Growth Rate (3)	0.68%	1.72%	3.10%	%90'0	3.92%	2.07%	3.88%	2.49%	4.57%	1.48% 3.	3,17% 1,46%	1% 0.20%	40.23%	1.18%	0.89%	121%	1.13%	0.76%	1.23% 1.18%	1.16%	1.115	1.10%
	indica	e when diehi	T GIMBECRE SP	Benertary Scho	Benefity Stool 99 opers in sit 2003 with additional and in thirties when rithing surranges Schools ADD monumental is such in Services	IB with additional 619 of Service	3895	Per	Diember 15, 2005 Cer	offed Capadty Calcular	ions, OHCCS projects	Per Noember 15, 2005 Cardied Capacity Calculators, CHCS projects Beneriary #10 opering for school	ng for school	BenertarySt	Beneriary School #11 opers with 585 seats	Sseats						
								PEACO PEACO	600 students.	SWITH SULL SUCKED	Source Constitution is	Groats, earerays	stront capacity									
(1) The ingestation and buttles referst the linearches (5, 2014 date of membership as estimated in by the Goberte Adeptin Public Faritter Colleges, in show not locked CHTCS statests adventight	Bloom to the lade CHCCS student		Hespital School.					redu	ced from 1:23 to 1:	Us agreement of SC 21 the year Element	ary # 10 opens (to	York Group, Grades flow for prior Legisl	K-3 dass size ative Action									
(2) The Tiscibles Model provides for the "Linear Method" of projections for both CHICCS and OCIS. Original projections used in price years projections nobles included the "Linear Bidappid from Method" to C	sinds ded the "Union Extra platfor	Method: to CHDDS.						:	educed class size)													
(3) James gradt dat accidated umig actual merbandhig in yans 2001 CE though 2014 of and amage merbandhi in yans 2015 of through 2014 AS (4) Clean item for pades 163 = 152 for school years 2000 for only 2010 (3). In accordance with 2015 Stock of College of the C	5 * De 2009-2009 cobost year with th	- 5	* Berentary#10, 162 o	Gerriter av 121 av 6	GCS Bernestary # 1), includes stem are 121 as de ected by part State legislatine action	Wee action																
CHCCS Student Projections (1)																						
177																						
Middle	200					2000					\vdash		-	L	+					000000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	20,000
School Year	2001-02 2002-03		2003-04	2004-05	2005-06 2	2006-07 2007-08		2008-09 200	2009-10 2010-11	11 2011-12	2012-13	2013-14	2014	2015-16	2016-17	2017-18 20	2018-19 20	2019-20 2020-21	2021-22	2022-23	2023-24 2024-25	024-25
Actual	2,548	2,608	2,612	2,560	2,572	2,592	2,622	2,697	2,708	2,722	733 2,1	2,858	2,861	L	0000	0000	0 000	010	0000	0000	0.000	8000
Tischler(2)														2,905	2,948	2,992	3,035	3,12	3,166	3,210	3,253	3,297
OC Planning														2,898	2,938	3,003	3,069	3,186	3,255	3,323	3,391	3,459
10 Year Growth														2,910	2,962	+	+	+	+	3,139	3,170	3,202
5 Year Srowth														2,888	2,910	2,929	+	3,001 3,018	3,036	3,014	3,044	3,075
3 Year Growth														2,874	2,893	2,914	2,948	C4	ci	24	2,978	3,008
Average	ŀ	ŀ	ŀ	l					ı	ı	ı	ı	L		2,928	2,966	3,009		e	3,127	3,167	3,208
Annual Change - Increase (Decrease) in Actual & Projected Membership)	214	88	7	(52)	12	20	8	22	=	14	34				83	37	43				9	41
Capacity - 10% Level of Service	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840			2	64	2,944	2	2,944	2,944	2,944	1		"	2,944	2,944
Number of Students, Actual and Projected, Over (Under) 100% LOS	(300)	(222)	(228)	(082)	(388)	(248)	(218)	(143)	(132)	(118)	(187)			-	(16)	22	99				223	264
107% Level of Service	3,039	3,039	3,039	3,039	3,039	3,039	3,039	3,039			3,039	3,039	3,150	3,150	3,150	3,150	3,150	3,150 3	3,150 3,150	3,150	3,150	3,150
Number of Students, Actual and Projected, Over (Under) 107% LOS	(499)	(431)	(427)	(479)	(467)	(447)	(417)	(342)	(331)	(317)	286) (254)	(181	(289	(256)	(222)	(184)	(141)	(35)	(53)	(23)	11	200
Actuals St. Level of Service	88.4%	91.8%	87.0%	90.1%	30.0%	81.35	92.3%	80.0%	ı		36.3%	78 JUL 67	97.7%	36 00 a	20 66	WT 001	100 000	01 20 001	30 JUL 30 FOR 38	76-201	707.00	100 000
America Chieford County Cate Cal	100 0	0.000	10 461	1 000	0.478	301.0	1 400	1980	0.448	0.600	1 148	3000	2010		4 460	4 300	4.464			100 C	4 000	4 20%
Ammai suderi crown nake o	#07°6	1,002	0.10%	C001-	67473	6970	103	ı		ı	ı	ı	ı		1.103	1.65.1	1.40%			ı	1.623	1.63.1
	en albui	o substant district	4 curences as Deb	Ponte ADED race	solicitas udese diteleta surespone Deborde XDEO provinciandad la sal of Concess	of Contra																
	THICK	S WITERI DISCH	ct Suipasses Sc	nuns April 160	Difference Leve	DI SELVICE								Addton	Additional 104 new seets at Cultreth Middle School	breth Middle School						
(I) BE INJUSTATION ON BUILDS INSERT THE FOUND OF IS, 2014 date of manufacture and manufacture in the state of the part of the	Il doug not include CHCCS student	Manding the Hesp	olla School.																			
(c) the little in the primate from the wathout or presence to one cauche, bright presence and in processes processes the cauche of the processes and the processes one cauche one parties mercenny for your allow the received to processes the processes of the proc	indicestre undredapians	Memor Bit LHULS																				
CHCCS Student Projections (1)																						
High		-		-	-									_	\vdash				Н		ŀ	
School Year	2001-02 2002-03	-	2003-04	2004-05	2005-06 2	3 600 3 505		2008-09 200	3 506	41 2011-12 9 640 9 714	714 97	2012-13 2013-14	2014-15	2015-16	2016-17	2017-18 20	2018-19 20	2019-20 2020-21	2021-22		2022-23 2023-24 2024-25	024-25
Tscher (2)		ı												3,787	3,844	3,901	3,967 4	,014 4,07	4,128	4,185	4,242	4,299
OC Planning														3,818	3,875	3,906	3,949	3,990 4,056	3 4,126	4,194	4,275	4,358
10 Year Growth														3,701	3,772	3,862	3,977 4	4,064 4,098	4,156	4,261	4,283	4,325
3 Year Growth														3,696	3.733	3,782	3,902	387	3 900	3 969	8 953	3 967
- Constant														3.742	3.798	3.858	3.920	3.979	4.015 4.063	4.138	4.167	4.209
Annual Change - Increase (Decrease) in Actual & Projected Membership)	148	156	168	92	92	9	115	(9)			74	82 (32	100	3,742	99	9	19				83	42
Capacity - 100% Level of Service	3,035	3,036	3,035	3,036	3,035	3,035	3,835	3,836			Ш				3,875	3,875	3,875	Ц	69	6	3,875	3,875
Number of Students, Actual and Projected, Over (Under) 100% LOS	(72)	127	296	387	479	485	(200)	(202)		1					E	(1)	46				282	334
110% Level of Service	3,338	3,339	3,339	3,339	3,339	3,339	4,219	4,219	1	1		4			4,263	4,263	4.263	4,263 4	4,263 4,263	4,263	4,263	4,263
Number of Students, Actual and Projected, Over (Under) 110% LOS Actual (In lead of Semiles)	(376)	104 200	400 760	410 80	176	116.0%	04 840	(\$89) On Th.	(613)	00 00 00	(643) (467)	17) (499)	06.38	(621)	(484)	(404)	(343)	(283)	(248) (20	(124)	8	(23)
Accessors - % Level of Service	21.0%	04.23	105.130	112.00	112.030	110.0%	24.000	28.7.70							760 66	20.00	101 7%			ı	107.5%	108.6%
Annual Student Growth Rate (3)	5.26%	6.72%	5.31%	2.76%	2.69%	0.17%	3.27%	-0.14%	4990	0.94% 2.1	2.03% 2.21%	5 0.84%	-0.90%	6 0.32%	1.51%	1.58%	1.59%	1,52% 0	1.19%	1.86%	0.70%	1,015
	indicates when district surgasses Schools APFO recommended Level of Service	is when distric	rt surpasses Sci	hools APFO recu	umended Level	of Service		High School #3 opens in fall 2007 with 800 additional	in fall 2007 with 800	additional seats	Program Ac	Poens Academy High School becomes official high school starting 2010 11 school	Omes 11 school									
											Her with	Student capacity	200									
(1) the injoinance with the least the investment to a control of the control of the tenth of the ten	now as necessaries studies	Method to CHICS	HEDER SORGE								J		1									
(3) Annual grammer and extra back and an embership in year 2001 CD frough 2019 50 frough and embership with discussion for the page 5,000 CD frough 2005 from the page 5,000 CD and page 5,000 CD from the pag																						

D. Student Membership Growth Rate

- 1. Responsible Entity for Suggesting Change The updating of this section will be conducted by the Planning Directors, School Representatives, and Technical Advisory Committee (SAPFOTAC) each year and referred to the BOCC for annual report certification. Projections will be distributed to SAPFO partners for review and comments to the BOCC prior to certification.
- **2.** *Definition* The annual percentage growth rate calculated from the projections resulting from the average of the five models represented by 10 year numerical membership projections by school level for each school district. This does not represent the year-by- year growth rate that may be positive or negative, but rather the average of the annual anticipated growth rates over the next ten (10) years.
- 3. Standard for:

Standard for:

Chapel Hill/Carrboro School District

Orange County School District

See Attachment II.D.2

See Attachment II.D.2

4. Analysis of Existing Conditions: Chapel Hill/Carrboro School District

The membership figures and percentage growth on the attachments show continued growth at each school level within the system.

Analysis of Existing Conditions:

Orange County School District

The membership figures and percentage growth on the attachments show continued growth at each school level within the system.

Projected Average Annual Growth Rate over next ten years:

Year Projection	2010-	2011-	2012-	2013-	2014-
Made:	2011	2012	2013	2014	2015
Elementary	1.44%	1.59%	1.18%	1.44%	1.11%
Middle	1.67%	1.94%	1.59%	1.58%	1.15%
High	1.57%	1.73%	1.60%	1.27%	1.22%

Projected Average Annual Growth Rate over next ten years:

Year Projection Made:	2010- 2011	2011- 2012	2012- 2013	2013- 2014	2014- 2015
Elementary	1.57%	1.6%	1.31%	1.30%	0.55%
Middle	1.84%	2.01%	1.64%	1.42%	0.09%
High	1.59%	1.61%	1.43%	1.35%	0.39%

5. Recommendation:

Recommendation:

Chapel Hill/Carrboro School District

Orange County School District

Use statistics as noted.

Use statistics as noted.

Attachment II.D.1 – Orange County and Chapel Hill/Carrboro Student Growth Rates (Chart dates from 2014-2024 based on 11/15/13 membership numbers) (2013-14)

2013-2014	
	ctions
	ntv Student Droie

2013-2014 2014-2015 3,433 3,472 3,433 3,472 3,433 3,472 1,14% 1,14% 1,747 1,789 1,747 1,789 2,421 2,406 2,421 2,406 2,421 2,406 2,421 2,406 2,421 2,406 2,421 2,406 2,421 2,406 2,421 2,406 2,421 2,406 2,421 2,406 2,421 2,406 3,433 3,472 4,789 5,554 2,635 6,635 6,635 7,636 2,925 1,47% 1,47% 2013-2014 2014-2015 2,858 2,925 1,47% 2,835% 2,835% 2,835% 2,835% 2,835% 2,835% 2,835% 2,835% 2,835% 2,835% 2,835% 2,835% 3,433 4,42015 4,42015 4,442015									
2013-2014 2014-20 (actual) 2,427 2.389 2,427 2.406 (actual) 2,427 2.406 (actual) 2,427 2.407 2013-2014 2014-20 (actual) 2,554 5,636 (actual) 2,858 2,926 2,858 2,926 (actual)		2015-2016 2016-2017	2017-2018	2017-2018 2018-2019	2019-2020	2019-2020 2020-2021	2021-2022	202-2023	2023-2024
2013-2014 2014-20 (actual) 2,427 2.389 (actual) 2,427 2.406 (actual) 5,554 5,636 (actual) 2,013-2014 2014-20 (actual) 2,858 2,926 2,926 2,858 2,926 (actual) 2,858 2,926 (actual) 2,858 2,926 (actual) 2,858 2,926 (actual)	3,555	3,597	3,627	3,668	3,716	3,764	3,812	3,861	3,906
2013-2014 2014-20 (actual) 2,427 2,389 (actual) 2,427 2,407 2013-2014 2014-20 (actual) 2,554 5,634 2,635 2,635 2,1479 2013-2014 2014-20 (actual) 2,858 2,926 2,858 2,926 2,858 2,359 2,013-2014 2014-20 (actual)	6 2.39%	1.18%	0.84%	1.13%	1.30%	1.29%	1.28%	1.28%	1.17%
2013-2014 2014-20 (actual) 2.389 (actual) 2.427 2.406 (actual) 2.427 2.406 (actual) 5.554 5.636 (actual) 2.427 2.014-20 (actual) 2.013-2014 2014-20 (actual) 2.858 2.926 (actual) 2.013-2014 2014-20 (actual) 2.926 (actual) 2.926 (actual) 2.926 (actual) 2.926									
2013-2014 2014-20 2,421 2,400 2,421 2,400 2,421 2,400 2,654 5,636 5,554 5,636 2013-2014 2014-20 (actual) 2,858 2,926 2,858 2,926 2,858 2,926 (actual) 2,858 2,926 2,359	15 2015-2016	2016-2017	2017-2018	2017-2018 2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
2013-2014 2014-20 (actual) 2,421 2,400 2,421 2,400 2,421 2,400 (actual) 5,554 5,636 (actual) 2,858 2,926 (actual)	H	1,824	1,862	1,933	1,951	1,953	1,967	1,987	2,010
2013-2014 2014-20 (actual) 2,400 2,421 2,400 2013-2014 2014-20 (actual) 5,554 5,638 (actual) 2,928 2,858 2,928 2,858 2,928 2,858 2,928 2,858 2,928 2,858 2,928 2,858 2,928 2,858 2,928 2,858 2,928 (actual) 2,014-20 (actual) 2,928 (actual) 2,928 (actual) 2,928 (actual) 2,928	% 0.94%	1.03%	2.07%	3.85%	%06.0	0.12%	0.71%	1.04%	1.12%
2,421 2,406 2,421 2,406 2,421 2,406 2,421 2,406 2,654 2014-20 2,554 5,638 2,554 2,638 2,858 2,928 2,858 2,928 2,858 2,928 2,013-2014 2014-20 (actual)									
2,421 2,406 2013-2014 2014-20 (actual) 5,554 5,635 2,1352014 2014-20 (actual) 2,926 2,858 2,926 2,858 2,926 2,858 2,926 2,858 2,926 2,359 2,013-2014 2014-20 (actual) 2014-20	15 2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
2013-2014 2014-20 (actual) 5,554 5,636 2,13-2014 2014-20 (actual) 2,926 2,858 2,926 2,858 2,926 2,858 2,926 2,858 2,926 2,359	3 2,411	2,468	2,533	2,534	2,600	2,642	2,678	2,742	2,767
2013-2014 2014-20 (actual) 5,554 5,636 1.479 2013-2014 2014-20 2,858 2,926 2,858 2,926 2,858 2,926 2,858 2,926 2,858 2,926 2,359	% 0.18%	2.40%	2.63%	0.03%	2.59%	1.62%	1.39%	2.36%	0.93%
2013-2014 2014-2015 (actual) 2,554 5,635 1,47% 2013-2014 2014-2015 2,858 2,925 2,858 2,925 2,013-2014 2014-2015 (actual) 2,013-2014 2014-2015									
2013-2014 2014-2015 2,858 2,925 2,858 2,35% 2013-2014 2014-2015 (actual)	15 2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
2013-2014 2014-2015 (actual) 2,858 2,925 2,858 2,925 2,35% 2013-2014 2014-2015 (actual)	5,748	5,845	5,927	6,021	6,090	6,166	6,241	6,323	6,405
2013-2014 2014-2015 (actual) 2,858 2,925 2,858 2,925 2.35% 2013-2014 2014-2015 (actual)	% 00.2	1.69%	1.41%	1.57%	1.15%	1.24%	1.23%	1.31%	1.30%
2,858 2,925 2,858 2,925 2,858 2,925 2,35% 2013-2014 2014-2015									
2,858 2,925 2.35% 2013-2014 2014-2015 (actual)	15 2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
2.35% 2013-2014 2014-2015 (actual)		2,962	2,999	3,063	3,134	3,190	3,257	3,299	3,342
2013-2014 2014-2015 (actual)	%92'0 %	0.50%	1.24%	2.13%	2.32%	1.78%	2.11%	1.30%	1.30%
2013-2014 2014-2015 (actual)									
	15 2015-2016	2016-2017	2017-2018	2017-2018 2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
Membership 3,764 3,805 (3,893	3,982	4,011	4,050	4,086	4,112	4,199	4,268
Average % Increase 1.08% C	0.54%	1.78%	2.27%	0.75%	0.96%	0.88%	0.65%	2.10%	1.65%

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Orange County Student Projections

Elementary											
School Year	2014-2015 (actual)	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025
Membership	3,259	3,285	3,274	3,234	3,226	3,227	3,267	3,310	3,354	3,398	3,442
Average % Increase		0.80%	-0.33%	-1.22%	-0.26%	0.03%	1.23%	1.33%	1.32%	1.31%	1.30%

School Year	(actual)					-0-0-				(actual)	
Membership	3,259	3,285	3,274	3,234	3,285 3,274 3,234 3,226 3,227 3,267 3,310	3,227	3,267	3,310	3,354	3,398	3,44
Average % Increase		0.80%	-0.33%	-1.22%	0.80% -0.33% -1.22% -0.26% 0.03%	0.03%	1.23%	1.33%	1.32%	1.31%	1.30
Middle											
School Year	2014-2015 (actual)	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2014-2015 2015-2016 2016-2017 2017-2018 2018-2019 2019-2020 2020-2021 2021-2022 2022-2023 2023-2024 2024-2020 (actual)	2024-2

High School											
School Year	2014-2015 (actual)	014-2015 2015-2016 (actual)	2016-2017	016-2017 2017-2018	2018-2019	2019-2020	2020-2021	020-2021 2021-2022 2022-202	2022-2023	2023-2024	2024-2025
Membership	2,502	2,510	2,540	2,581	2,547	2,579	2,622	2,639	2,687	2,652	2,599
Average % Increase		0.32%	1.21%	1.60%	-1.30%	1.26%	1.63%	%99.0	1.81%	-1.29%	-2.02%

Chapel Hill/Carrboro Student Projections

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Elementary			7605				2				
School Year	2014-2015 (actual)	2014-2015 2015-2016 2016-2017 2017-2018 (actual)	2016-2017	2017-2018	2018-2019	2018-2019 2019-2020 2020-2021 2021-2022 2022-2023	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025
Membership	5,541	5,606	5,662	5,730	5,795	5,839	5,911	5,981	6,051	6,118	6,185
Average % Increase		1.18%	0.99%	1.21%	1.13%	0.76%	1.23%	1.18%	1.16%	1.11%	1.10%
Middle											
School Year	2014-2015 (actual)	2014-2015 2015-2016 2016-2017 2017-2018 2018-2019 2019-2020 2020-2021 2021-2022 2022-2023 2023-2024 (actual)	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025
Membership	2,861	2,895	2,928	2,966	3,009	3,058	3,087	3,118	3,127	3,167	3,208
Average % Increase		1.18%	1.15%	1.28%	1.46%	1.63%	0.95%	0.99%	0.29%	1.29%	1.29%
High School											
School Year	2014-2015 (actual)	2015-2016	2016-2017	2017-2018		2018-2019 2019-2020	2020-2021	2021-2022 2022-2023	2022-2023	2023-2024	2024-2025
Membership	3,730	3,742	3,798	3,858	3,920	3,979	4,015	4,063	4,138	4,167	4,209
Average % Increase		0.32%	1.51%	1.58%	1.59%	1.52%	0.89%	1.19%	1.86%	0.70%	1.01%

Middle											
School Year	2014-2015 (actual)	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2014-2015 2015-2016 2016-2017 2017-2018 2018-2019 2019-2020 2020-2021 2021-2022 2022-2023 2023-2024 2024-2 (actual)	2024-2
Membership	2,861	2,895	2,928	2,966	3,009	3,058	3,087	3,118	3,127	3,167	3,20
Average % Increase		1.18%	1.15%	1.28%	1.46%	1.63%	0.95%	%66.0	0.29%	1.29%	1.29
High School											
School Year	2014-2015 (actual)	2014-2015 2015-2016 2016-2017 2017-2018 2018-2019 2019-2020 2020-2021 2021-2022 2022-2023 (actual)	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024 2024-2	2024-2
Membership	3,730	3,742	3,798	3,858	3,920	3,979	4,015	4,063	4,138	4,167	4,20
Average % Increase		0.32%	1.51%	1.58%	1.59%	1.52%	0.89%	1.19%	1.86%	0.70%	1.01

E. Student / Housing Generation Rate

- Responsible Entity for Suggesting Change The updating of this section will be conducted by Planning Directors, School Representatives, and Technical Advisory Committee (SAPFOTAC) and referred to the BOCC for certification.
 Projections will be distributed to SAPFO partners for review and comments to the BOCC prior to certification.
- **2. Definition** Student generation rate refers to the number of public school students per housing unit constructed in each school district, as defined in the Student Generation Rate Study completed by TischlerBise on October 28, 2014. Housing units include single family detached, single family attached/duplex, multifamily, and manufactured homes.
- 3. Standard for:

Standard for:

Chapel Hill/Carrboro School District

Orange County School District

See Attachment II.E.1

See Attachment II.E.1

4. Analysis of Existing Conditions:

At the January 2014 SAPFOTAC meeting, members discussed the increased number of students generated in both school districts from new development, particularly multifamily housing. At that time, the SAPFOTAC recommended further evaluation of the adopted Student Generation Rates and the impacts different types of housing may have on student membership rates. As a result, Orange County entered into a contract with TischlerBise to update the student generation rate analysis. Planning staff has followed the process outlined in the SAPFO MOU to update student generation rates as they pertain to the SAPFO process. The new standards are shown in Attachment II.E.1. Previous numbers used for SAPFO and CAPS purposes were from the 2007 Impact Fee Study which developed student generation rates based on the entire housing stock in each school district. New rates from the 2014 Student Generation Rates for Orange County Schools and Chapel Hill-Carrboro School District Report are based on an inventory of recently built units from January 1, 2004 to December 31, 2013. It is important to note that an updated student generation rate could not be provided for manufactured homes with 0-2 bedrooms in the CHCCS district because no units were constructed during the study period. As a result, the

pre-existing student generation rate (0.268) from the 2007 TischlerBise School Impact Fee Report will be utilized.

Also, it should be noted that students are generated from new housing as well as from existing housing where new families have moved in. The CAPS system estimates new development impacts and associated student generation, but it is important to understand that student increases are a composite of both of these factors. This effect can be dramatic and can vary greatly between areas and districts where either new housing is dominant or new families move into a large inventory of existing housing stock.

5. Recommendation:

Change

The SAPFOTAC reviewed and discussed the most recent student generation rate analysis included in the 2014 TischlerBise report. They recommend the BOCC and other governing boards accept the new rates as reported in Attachment II.E.1 and adopt them as the standard for the SAPFO and CAPS system.

Attachment II.E.1 – Current Student Generation Rates (2015)

TischlerBise Student Generation Rates - 2014

	Chapel I	Chapel Hill/Carrboro Schools	slo	
	0-3 Bedrooms	4 Bedrooms	5+ Bedrooms	Weighted Average
Single-Family Detached	0.61	0.84	1.13	0.84
	0-2 Bedrooms	3+ Bedrooms		Weighted Average
Single-Family Attached	0.18	0.44		0.34
Multifamily/Other	0.13	0.43		0.20
Manufactured Home	0.268	0.86		0.78
	Weight Average	Weight Average for Chapel Hill/Carrboro School District	ooro School District	0.49

	Oranç	Orange County Schools		
	0-3 Bedrooms	4 Bedrooms	5+ Bedrooms	Weighted Average
Single-Family Detached	0.35	0.57	0.57	0.44
	0-2 Bedrooms	3+ Bedrooms		Weighted Average
Single-Family Attached	0.07	0.17		0.15
Multifamily/Other	0.08	0.67		0.17
Manufactured Home	0.67	0.47		0.52
	Weight Av	Weight Average for Orange County School District	unty School District	0.37

Source: Student Generation Rates for Orange County School District and Chapel Hill-Carrboro School District, TischlerBise, October 28, 2014

III. Flowchart of Schools Adequate Public Facilities Ordinance Process

Abstract: The Schools Adequate Public Facilities Ordinance process has two distinct components:

A. Capital Investment Plan (CIP) (Process 1)

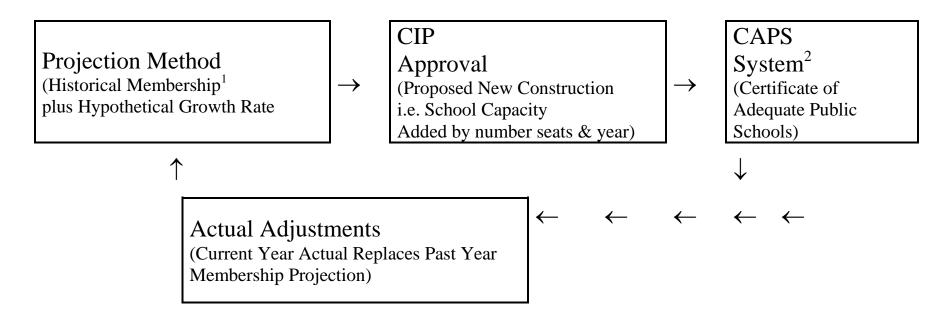
Timeframe: In November of each year, Student Membership and Building Capacity is transmitted from the school districts to the Orange County Board of Commissioners for consideration and approval and used in the following years CIP (e.g. November 15, 2014 membership numbers used to develop a CIP to be considered for adoption in June 2015).

Process Framework

- 1. SAPFOTAC projects future student membership from historical data, current membership and hypothetical growth rates from established methodologies.
- 2. School Districts and BOCC compare projections to existing capacity and proposed Capital Investment Plan.
- 3. SAPFOTAC forwards data and projections to all Schools APFO partners.
- 4. School Districts develop Capital Investment Plan Needs Assessment during this process
- 5. The Capital Investment Plan work sessions and Public Hearings are conducted by the BOCC in the spring of each year.
- 6. The adoption of CIP that sets forth monies and timeframe for school construction (future capacity) by BOCC.

School Adequate Public Facilities Ordinance

Process 1 - Capital Investment Planning (CIP)



¹Historical Membership is a product of students generated from: (1) pre-existing/approved undeveloped lots where new housing is built, (2) existing housing stock with new families/children, and (3) newly approved housing development (in the future this component will be known as CAPS approved development)

²The only part of the CAPS System (i.e., computer spreadsheet subdivision tracking) that receives data from the Process 1 CIP includes the actual membership (November 15 of preceding CIP year) and new school capacity amount (seats) in a specific year pursuant to the CIP.

B. Schools Adequate Public Facilities Ordinance Certificate of Adequate Public Schools (CAPS) Update (Process 2)

Timeframe: The CAPS system is updated approximately November 15 of each year when the school districts report actual membership and 'pre-certified' capacity, whether it is CIP associated or prior 'joint action' agreement. 'Joint action' determinations of changes in capacity due to State rules or other non-construction related items are anticipated to be done prior to the November 15 capacity and membership reporting date. This update may reflect the Board of County Commissioners action on the earlier year Capital Investment Plan (CIP) as it affects capacity and addition of new actual fall membership. The Schools Adequate Public Facilities Ordinance Certificate of Adequate Public Schools (CAPS) stays in effect until the following year – (e.g.: November 15, 2005 to November 14, 2006).

New development is originally logged for a certain year. As the CAPS system is updated, each CAPS projection year is 'absorbed' by the actual estimate of a given year. Later year CAPS projections of the same development remain in the future year CAPS system accordingly. For example, if a 50-lot subdivision is issued a CAPS, 15 lots may be assigned to "Year 1," 10 lots to "Year 2," 10 lots to "Year 3," 10 lots to "Year 4," and 5 lots to "Year 5." When "Year 1" is updated, the students generated from the 15 lots are absorbed by the actual estimate. The students generated in "Years 2, 3, 4, and 5" are held in the CAPS system and added to the appropriate year when the CAPS system is updated.

As was discussed in Section II.C, The City of Mebane is not a party to the SAPFO and does not require that CAPS be issued prior to approving development activities. However, residential development within the Orange County portion of Mebane has increased dramatically prior to 2009, but has slowed considerably due to the current economic climate. Currently, there are approximately 1,000 approved undeveloped residential lots in the portion of Mebane that lies within Orange County. Increasing development within this area of the county has the potential to encumber a significant portion of the available capacity within the Orange County School District. Although the SAPFO system is not formally regulated in Mebane, staff monitors

development activity and when students enter the school system their enrollment is calculated and used in future school projection needs.

Please note that the two processes (CIP and CAPS) are on separate, but parallel tracks. However, the CIP does create a crossover of capacity information between the two processes. For example, the Schools APFO system for both school districts that will be established / initiated / certified each year in November and is based on prior year created and/or planned CIP capacity and current school year membership. The SAPFOTAC report including new current year membership and projections are to be used for upcoming CIP development as noted in Process 1.

CIP Process 1 (for CIP 2015 - 2025) November 2014 – June 2015 (using 2015 SAPFOTAC Report)

Schools APFO CAPS Process 2 (for Schools APFO System 2015 – 2016) November 2014 - November 2015

School Adequate Public Facilities Ordinance

Process 2 - Certificate of Adequate Public Schools (CAPS) Allocation

2015 CAPS system is effective November 15, 2014 through November 14, 2015.

The system is updated with new membership, CIP capacity changes, and any other BOCC/School District joint action approved capacity prior to November 15, 2014. This information is received within 5 days of November 15 and posted within the next 15 days. This CAPS system recalibration is retroactive to November 15, 2014.

CAPS Allocation System

- 1. Certified Capacity
- 2 LOS Capacity
- 3. Actual Membership
- 4. Year Start Available Capacity
- 5. Ongoing Current Available Capacity (includes available capacity decreases from approved CAPS development by year)
- 6. CAPS approved development
 - a. Total units
 - b. Single Family¹
 - c. Other Housing¹

CAPS System

$$AC^2=SC^2 - (ADM^2+ND1^2+ND2^2+...)$$

AC≥0 - Issue CAPS AC<0 - Defer CAPS to later date

¹Student Generation Rates from CAPS housing type create future membership estimate. Please note that this CAPS membership future <u>estimate</u> is different than the <u>projection</u> based on historical data and projection models used in the CIP process 1. This estimate only captures new development impact, which is the component that the SAPFO can regulate.

ADM - Average Daily Membership

²AC - Available Capacity - Starts at Annual Update Capacity and reduces as CAPS approved development is entered into the system.

SC - Certified School Level Capacity

ND - New Development; ND1 means first approved CAPS approved development