

# Student Enrollment Projections

Joint Meeting of the  
Board of County Commissioners  
&  
Board of Education  
February 18, 2009

## Student Enrollment

### ▸ Steps Taken To Date

- Analysis of 2008–2009 20<sup>th</sup> Day Enrollment of 137,706

- 2,737 students fewer than mid-range projection

Elementary	69,079	67,508	(1,571)	-2.27%
Middle	31,512	30,921	(591)	-1.88%
High	39,852	39,277	(575)	-1.44%

- Review of prior years' methodologies
  - 2007–2008 based on one year average growth rate (housing factor applied to kindergarten)
  - 2008 – 2009 based on three year average growth rate (housing factor applied to kindergarten)

## Methodology

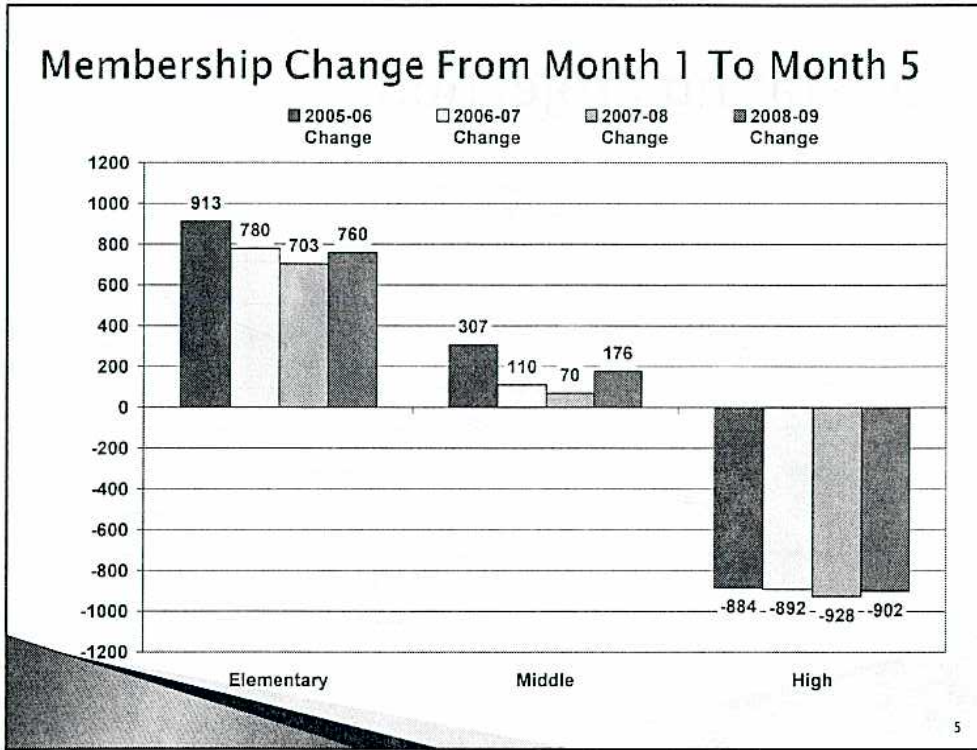
- ▶ Two distinct methodologies for two distinct projections
- ▶ Operating Projection
  - Projection for the 2009–2010 school year and subsequent school years
    - Updated annually after 20<sup>th</sup> day enrollment
    - Updated projection used for budget development for subsequent school year
- ▶ Capital Projection
  - Projection used to develop future building programs
    - Updated annually after 20<sup>th</sup> enrollment
    - A particular year's projection will be used to develop future building programs

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## Operating Projection

- ▶ Methodology
  - One year average
    - Based on student enrollment growth from 2007 20<sup>th</sup> day to 2008 20<sup>th</sup> day
    - Growth from 2007 – 2008 was 2.8%
  - Adjusted for new kindergarten enrollment cut-off date of August 31<sup>st</sup>
    - Prior enrollment cut-off was October 15<sup>th</sup>
    - 2009–2010 kindergarten enrollment will be impacted by 1,449 fewer kindergarten students
  - Adjusting for lower kindergarten enrollment results in projected growth for 2009–2010 of 1.7%

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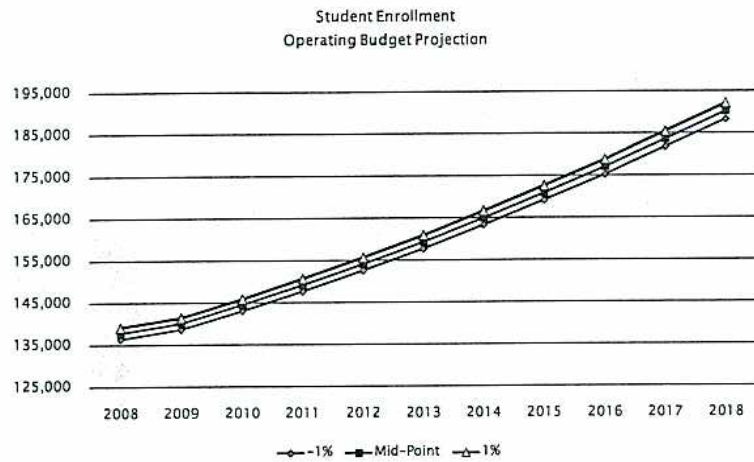
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### Operating Projection

School Year Starting	Operating Projection			
	-1%	Mid-Point	1%	Growth
2008	136,329	137,706	139,083	2.8%
2009	138,611	140,012	141,412	1.7%
2010	142,953	144,397	145,841	3.1%
2011	147,631	149,122	150,614	3.3%
2012	152,499	154,040	155,580	3.3%
2013	157,665	159,258	160,850	3.4%
2014	163,322	164,972	166,621	3.6%
2015	169,110	170,819	172,527	3.5%
2016	175,167	176,937	178,706	3.6%
2017	181,729	183,565	185,401	3.7%
2018	188,278	190,180	192,081	3.6%

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## Operating Projection



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## Capital Projection

### ► Why Use A Different Methodology?

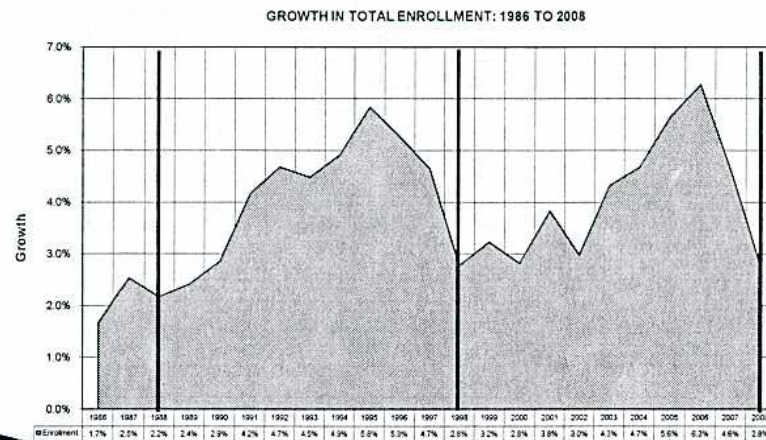
- We know from past growth cycles that a period of slow growth will be followed by a period of faster growth
- Capital planning needs to look at least 3–5 years into the future
- Capital expenditures can be slowed down if they are not needed but cannot quickly be accelerated

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## Capital Projection

### ► Methodology

- Research question: Can a review of the past help to predict future student enrollment growth?



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## Capital Projection

- Reviewed two distinct time periods:
  - 1988 - 1998
  - 1998 - 2008
- Analyzed: student enrollment growth, overall population growth, unemployment, building construction, school construction
- Selected period of 1988 - 1998 to model growth for the future
  - Similar decline in rate of student enrollment growth
    - 1988: 2.5 percent
    - 2008: 2.8 percent
  - Rate of County population growth declined in first few years
    - 4.1% in 1988, 3.7% in 1989, 3.0% in 1990
    - 4.9% in 2007, 4.2% in 2008, 4.0% (proj.) in 2009
  - Percentage change in Wake County unemployment rate
    - 2.4% in 1988, 3.2% in 1991, 3.6% in 1992
    - 2008: 3.8% in January, 4.8% in June, 6.1% in December
- The period of 1998 to 2008 was NOT modeled because this period experienced three incidences of slower enrollment growth (2.8% in 1998, 2.8% in 2000, 3.0% in 2002), one of which was 9/11.

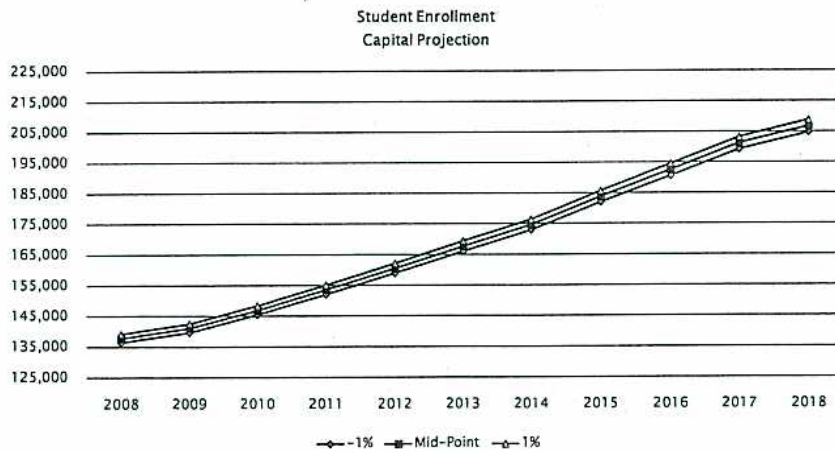
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# Capital Projection

School Year Starting	Capital/Building Program Projection			
	-1%	Mid-Point	1%	Growth
2008	136,329	137,706	139,083	2.8%
2009	139,631	141,042	142,452	2.4%
2010	145,335	146,803	148,271	4.1%
2011	151,942	153,477	155,012	4.5%
2012	158,829	160,434	162,038	4.5%
2013	165,955	167,631	169,307	4.5%
2014	172,855	174,601	176,347	4.2%
2015	181,968	183,806	185,644	5.3%
2016	190,530	192,455	194,379	4.7%
2017	199,089	201,100	203,111	4.5%
2018	204,592	206,659	208,725	2.8%

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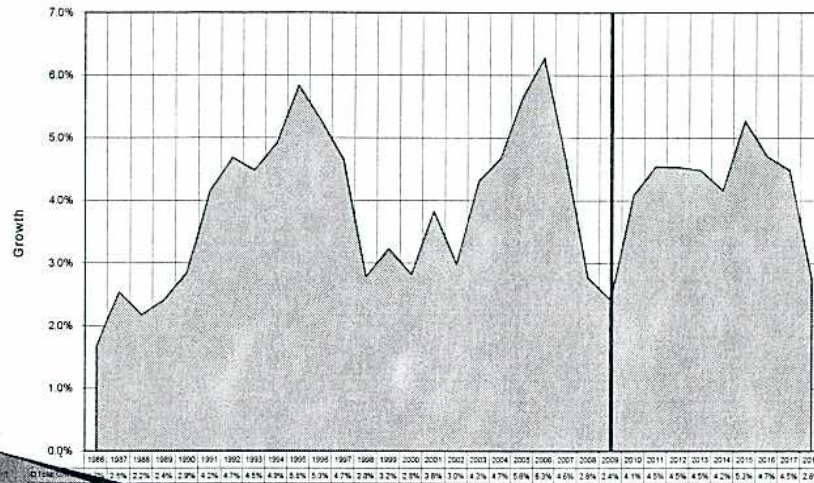
# Capital Projection



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# Capital Projection

GROWTH IN TOTAL ENROLLMENT: 1986 TO 2008



# Summary of Student Enrollment Projections

School Year Starting	Operating Projection				Capital/Building Program Projection			
	-1%	Mid-Point	1%	Growth	-1%	Mid-Point	1%	Growth
2008	136,329	137,706	139,083	2.8%	136,329	137,706	139,083	2.8%
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2017	181,729	183,565	185,401	3.7%	199,089	201,100	203,111	4.5%
2018	188,278	190,180	192,081	3.6%	204,582	206,659	208,725	2.8%