

WCPSS Enrollment Projection February 2011 Update

Wake County Board of Commissioners and Board of Education
Joint Board Meeting
February 16, 2011

Nicole Kreiser, Wake County Debt and Capital Director
Laura Evans, Senior Director Growth and Planning for WCPSS

Presentation Overview

- ▶ Review of Student Enrollment and Demographic Data
 - ▶ Presentation of Joint Staff Enrollment Projections
 - ▶ Operating
 - ▶ Capital
 - ▶ Summary and Next Steps
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2010 20th Day

▶ Enrollment Projection & Actual 20th Day

	2010-2011 Joint Projection	20th Day Enrollment	Difference from Joint Projection
Elementary	69,787	69,140	(647)
Middle	32,498	32,742	244
High	41,148	41,407	259
Total	143,433	143,289	(144)

▶ Change from 2009 20th Day:

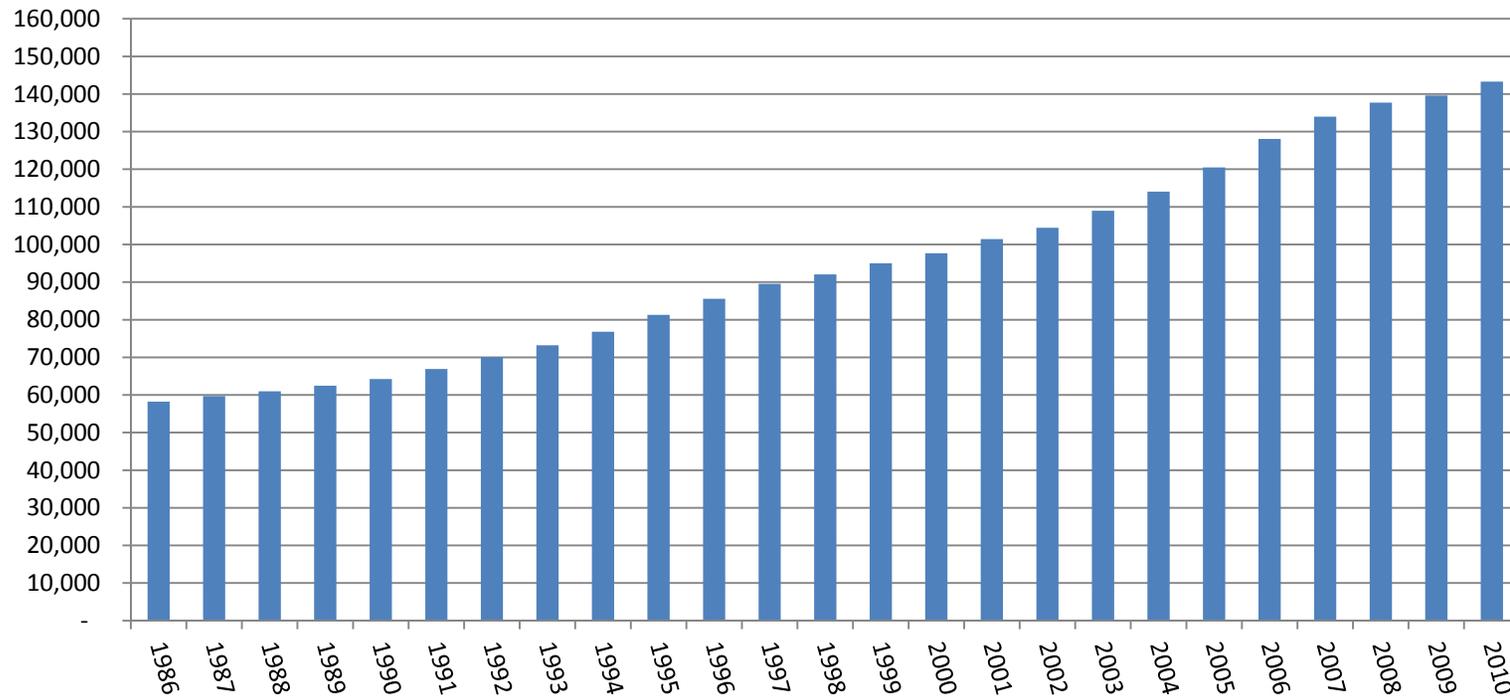
- ▶ 3,690 more WCPSS students (2.6%)

Note:

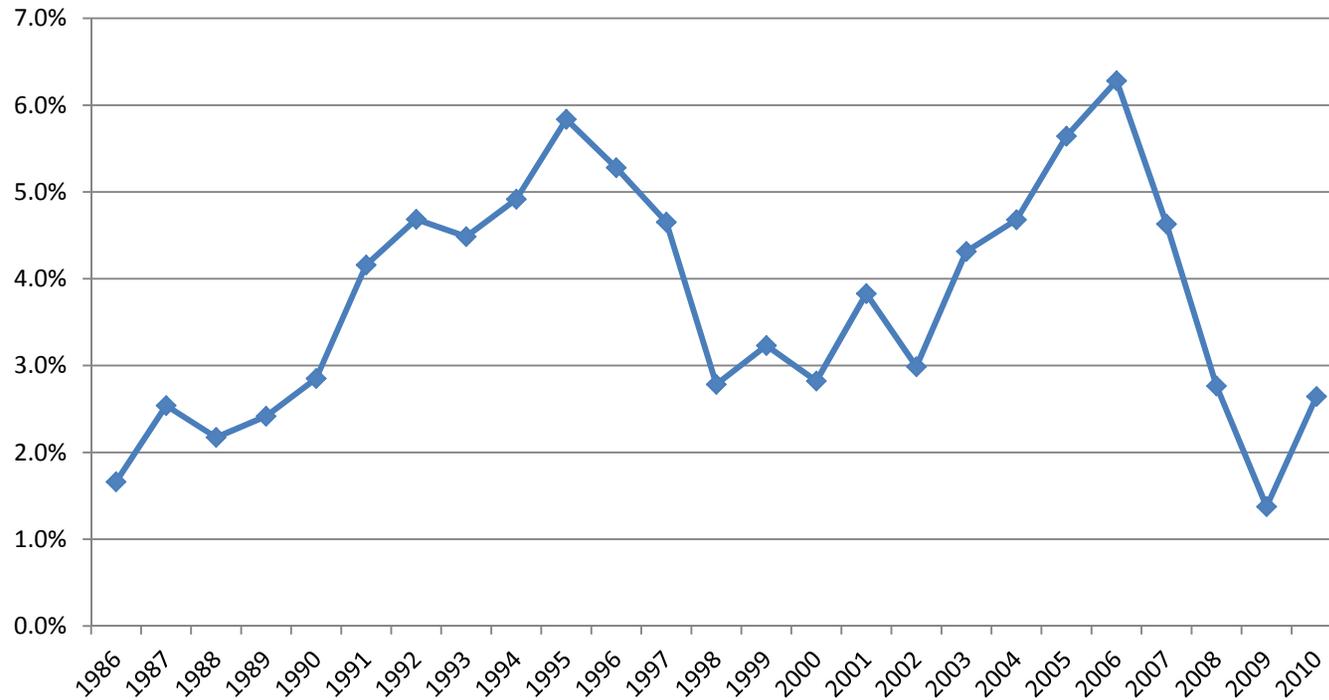
- Joint staff projection shared with BOC and BOE at 11/18/09 Joint Board Meeting.

Historical WCPSS Enrollment

WCPSS 20th Day



Enrollment Growth over Prior Year



Note: 2009 growth equals 2.4% after adjusting for kindergarten enrollment change



2011 Operating Projection

▶ Methodology

- ▶ Review enrollment growth in prior years
 - ▶ Review other indicators
 - ▶ Progression of age cohorts
 - ▶ In-migration
 - ▶ Home school/private/charter (market share)
 - ▶ Applied a three-year average to project student enrollment growth for the 2011-2012 school year to smooth out impact of change in age cut-off for kindergarten enrollment .
 - ▶ 2010-2011 projections include system-wide totals produced by joint staff model, with grade-level distribution performed by OR/Ed based upon geo-coded WCPSS data.
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Market Share

FY	Academic Year	Private Schools	Home Schools	Charter Schools	WCPSS 20th Day ¹	K-12 Totals	Private Schools	Home Schools	Charter Schools	WCPSS 20th Day	Total (Rounded)
1998	1997-1998	8968	1663	568	89,525	100,724	8.9%	2.8%	0.6%	88.9%	101%
1999	1998-1999	9826	1990	1553	92,023	105,392	9.3%	2.8%	1.5%	87.3%	101%
2000	1999-2000	10255	2457	2158	95,010	109,880	9.3%	2.8%	2.0%	86.5%	101%
2001	2000-2001	12,006	3,131	2,334	97,691	115,162	10.4%	2.8%	2.0%	84.8%	100%
2002	2001-2002	12,615	4,490	2,964	101,432	121,501	10.4%	3.7%	2.4%	83.5%	100%
2003	2002-2003	13,267	5,042	3,471	104,461	126,241	10.5%	4.0%	2.8%	82.7%	100%
2004	2003-2004	12,951	5,374	3,962	108,969	131,256	9.9%	4.1%	3.0%	83.0%	100%
2005	2004-2005	13,375	5,801	4,531	114,068	137,775	9.7%	4.2%	3.3%	82.8%	100%
2006	2005-2006	13,525	6,361	4,997	120,504	145,387	9.3%	4.4%	3.4%	82.9%	100%
2007	2006-2007	14,021	6,516	4,985	128,072	153,594	9.1%	4.2%	3.3%	83.4%	100%
2008	2007-2008	14,696	7,059	5,319	134,002	161,076	9.1%	4.4%	3.3%	83.2%	100%
2009	2008-2009	15,123	7,571	4,990	137,706	165,390	9.1%	4.6%	3.0%	83.3%	100%
2010	2009-2010	15,689	7,890	5,299	139,599	168,477	9.3%	4.7%	3.1%	82.9%	100%
2011	2010-2011			5,398	143,289			0.0%			

¹ NC Department of Public Instruction 1st month membership last day reports for Wake County Public School System: 20th day.

Note: Private and Home schools data compiled from the North Carolina Division of Non-Public Education website. Charter schools data compiled from North Carolina Department of Public Instruction reports. Home and Private Schools data collection may not reflect 20th day enrollment.

Operating Projection

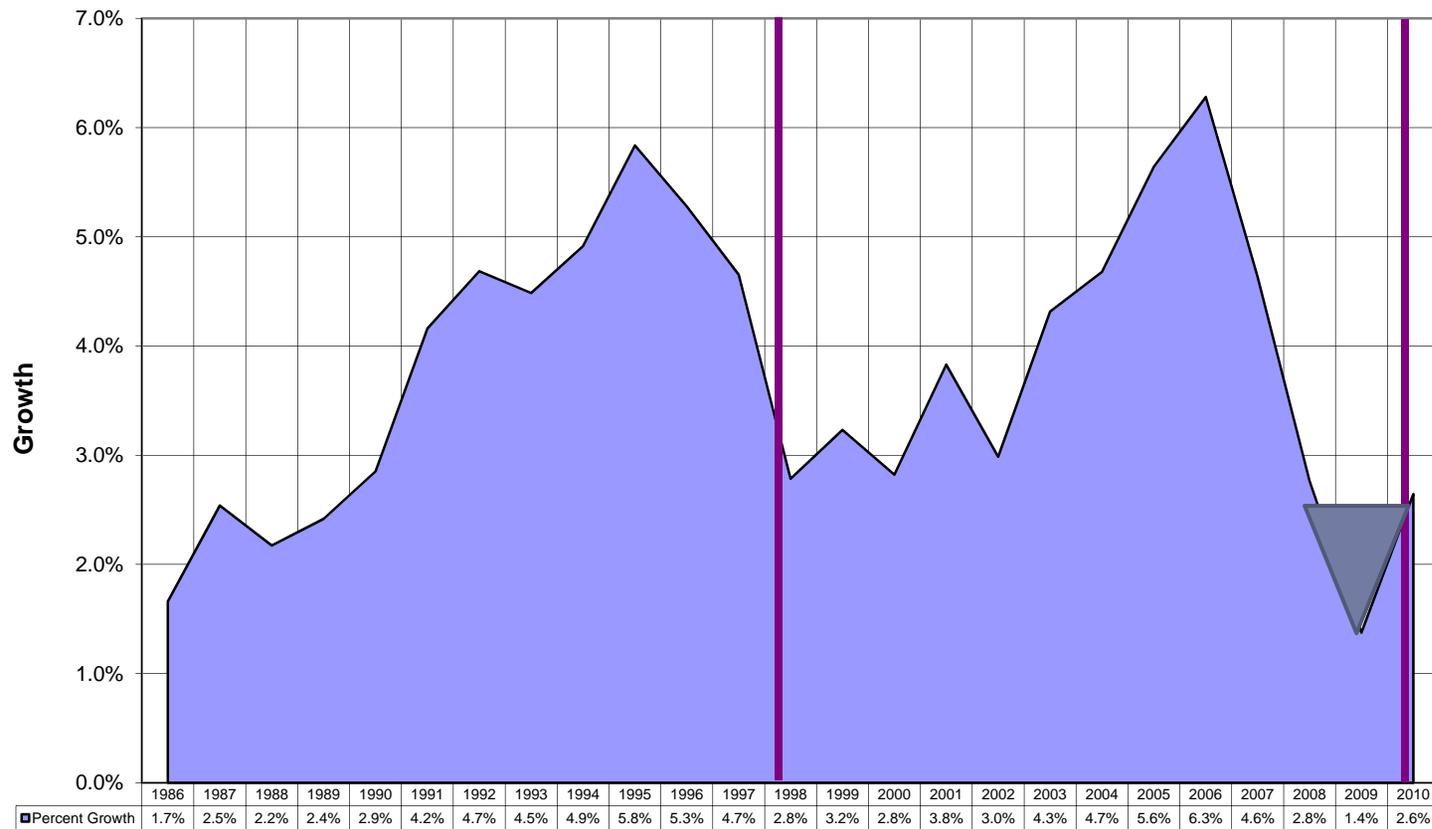
School Year	<u>-1%</u>	<u>Mid-Point</u>	<u>1%</u>	<u>Growth</u>
2010		143,289		2.6% (Note 1)
2011	145,191	146,657	148,124	2.4%
2012	148,809	150,313	151,816	2.5%
2013	152,807	154,350	155,894	2.7%
2014	157,155	158,743	160,330	2.8%
2015	160,278	161,897	163,516	2.0%
2016	162,970	164,616	166,262	1.7%
2017	165,674	167,347	169,021	1.7%
2018	168,125	169,824	171,522	1.5%
2019	170,906	172,633	174,359	1.7%
2020	174,254	176,014	177,775	2.0%

Note 1: Kindergarten enrollment growth was artificially high in 2010 due to the prior year including only 46 weeks of kindergartners based on the change in the age cutoff for kindergarten enrollment.

Economic Model for Capital Planning

- ▶ WCPSS enrollment growth is cyclical

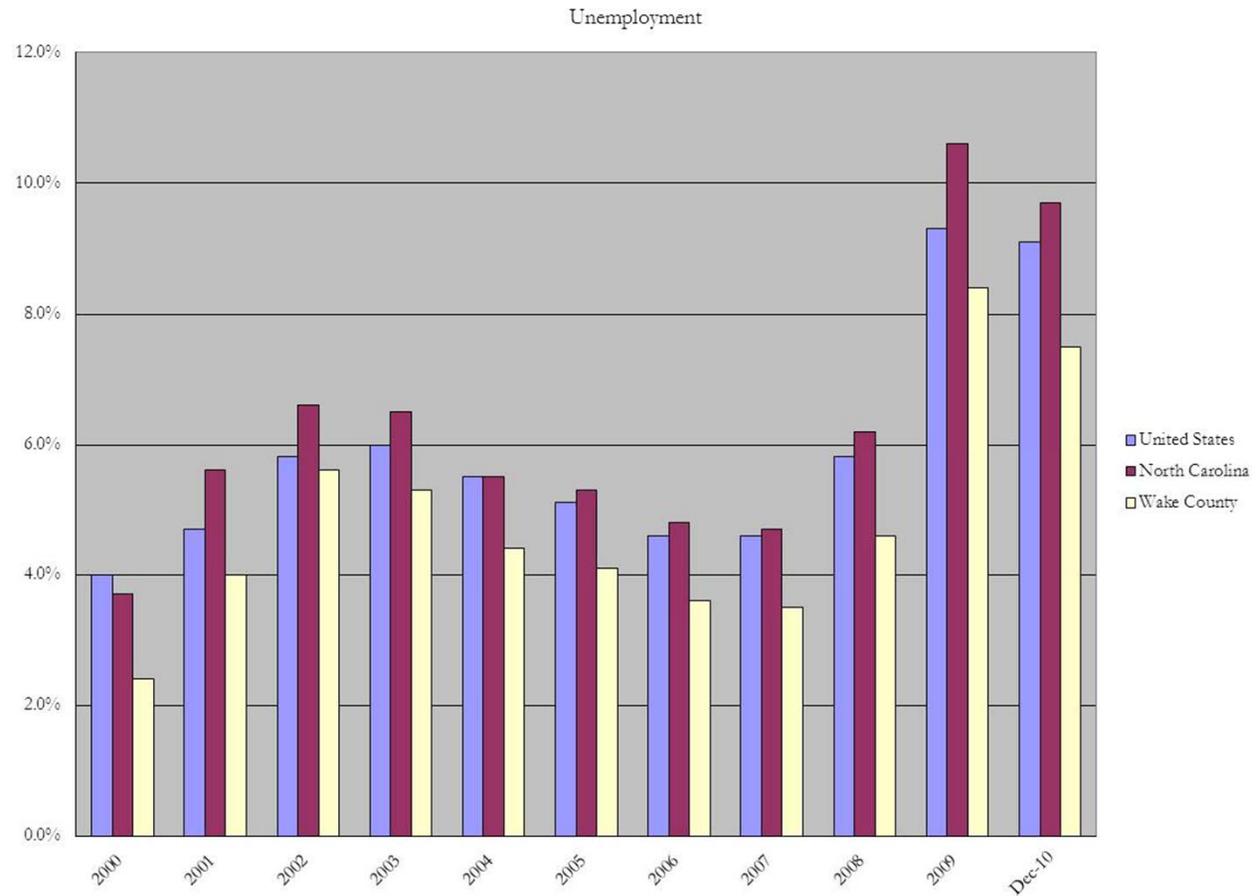
GROWTH IN TOTAL ENROLLMENT: 1986 - 2010



Capital (Long Term) Projection

- ▶ Staff reviewed prior long term projection from November 2009
 - ▶ Staff reviewed current economic indicators and demographic information
 - ▶ Unemployment
 - ▶ Property and Sales Tax Growth
 - ▶ Building Permits
 - ▶ State Demographer Population Projections
 - ▶ Live Births
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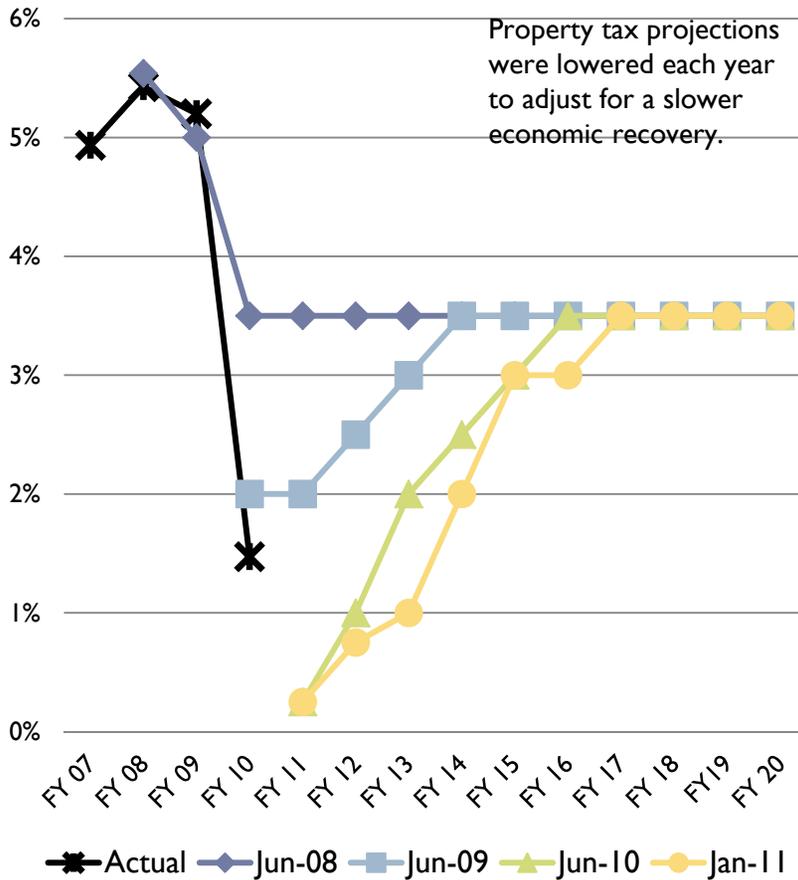
Unemployment Rate



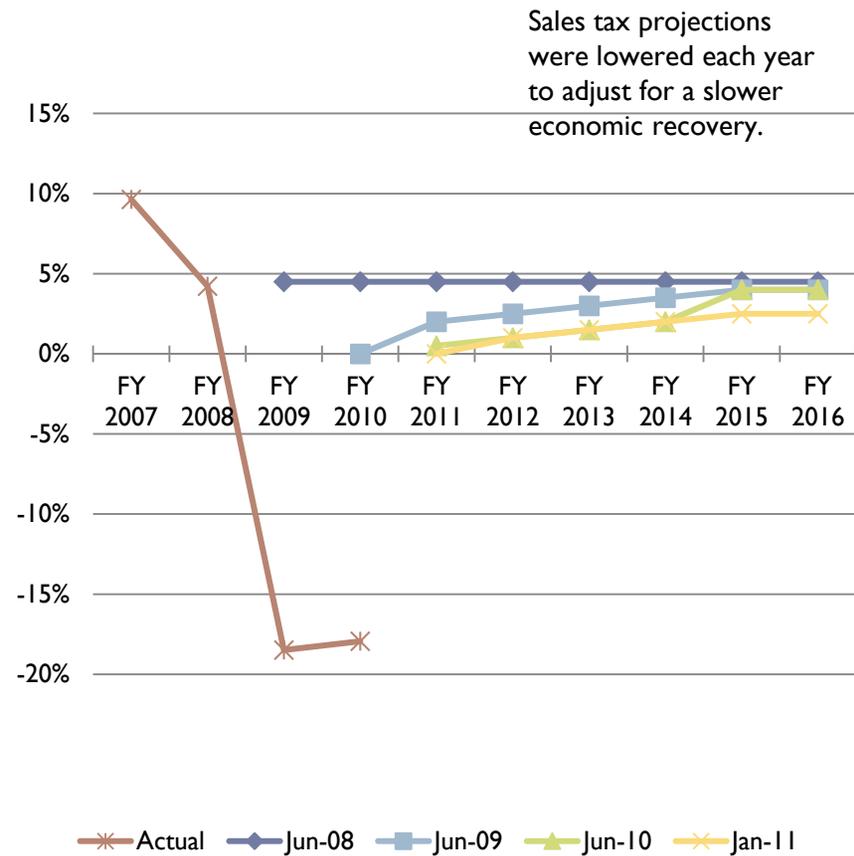
Source: North Carolina Employment Security Commission

Revision of Property Tax and Sales Tax Projections

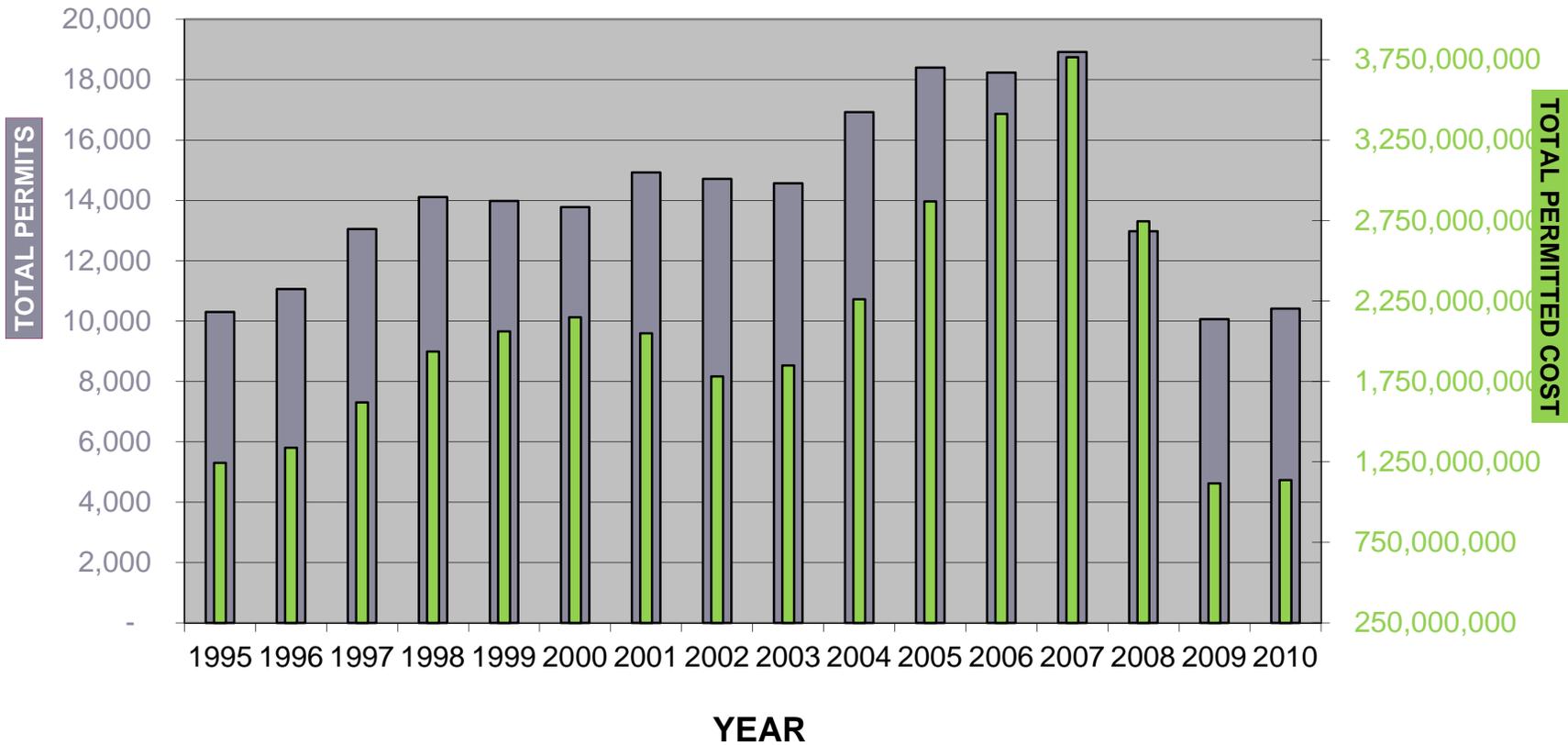
Actual Property Tax Growth and Sets of Projections



Sales Tax Comparisons: Actual Growth and Projections FY 2007 - FY 2016

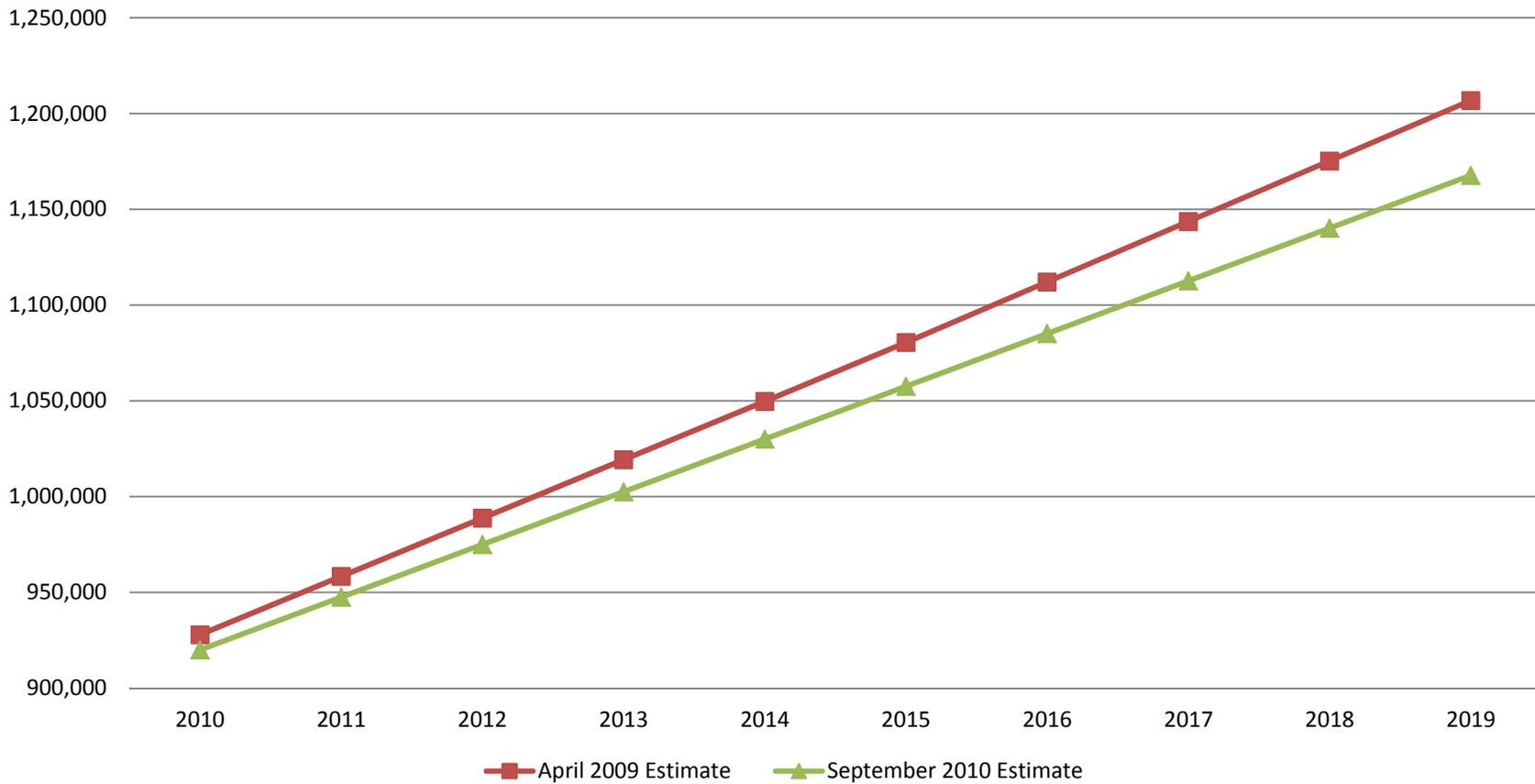


Grand Total Building Permit Summary January to December



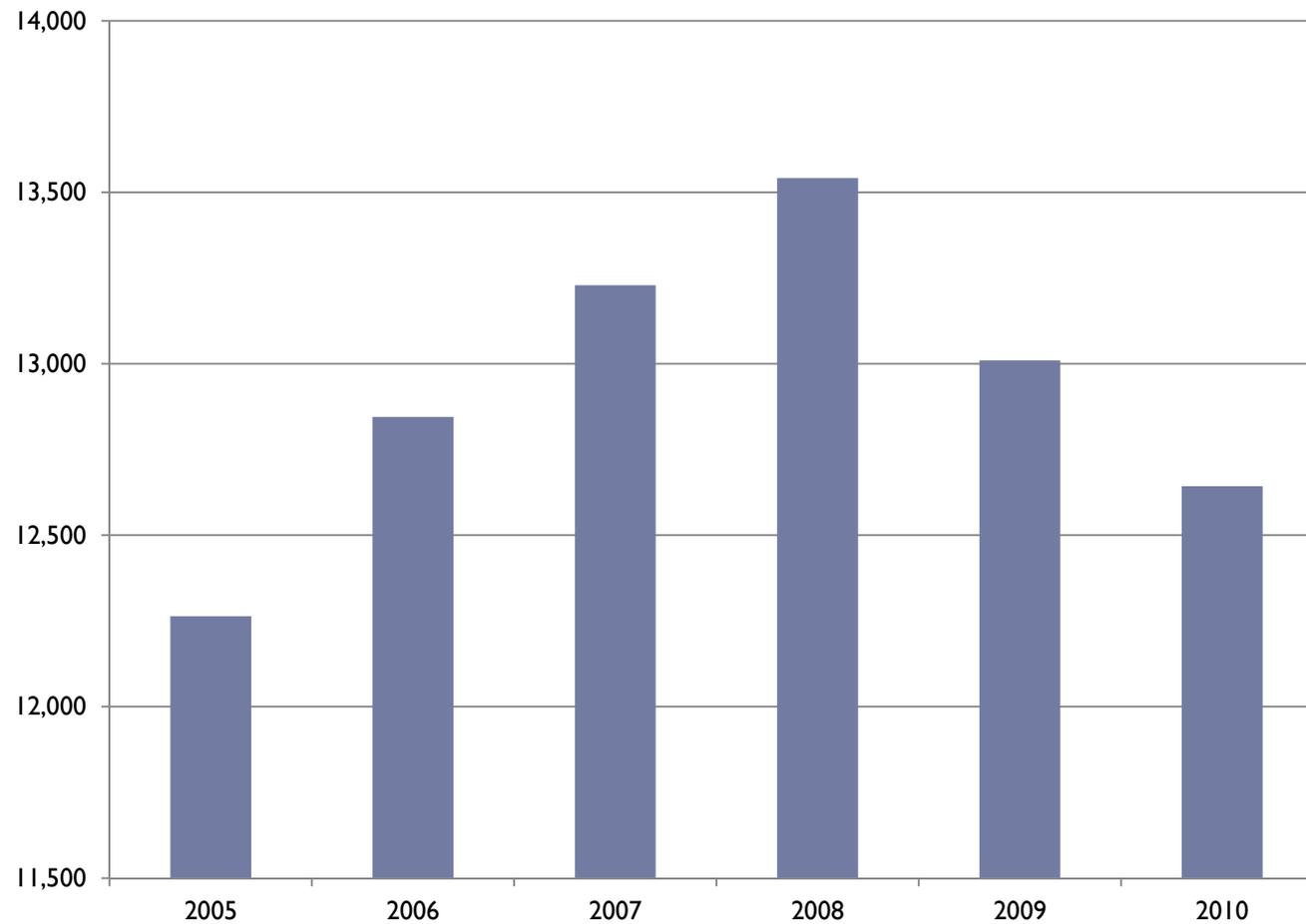
Revised County Population Growth Projections

County Population Estimates (State Demographer)

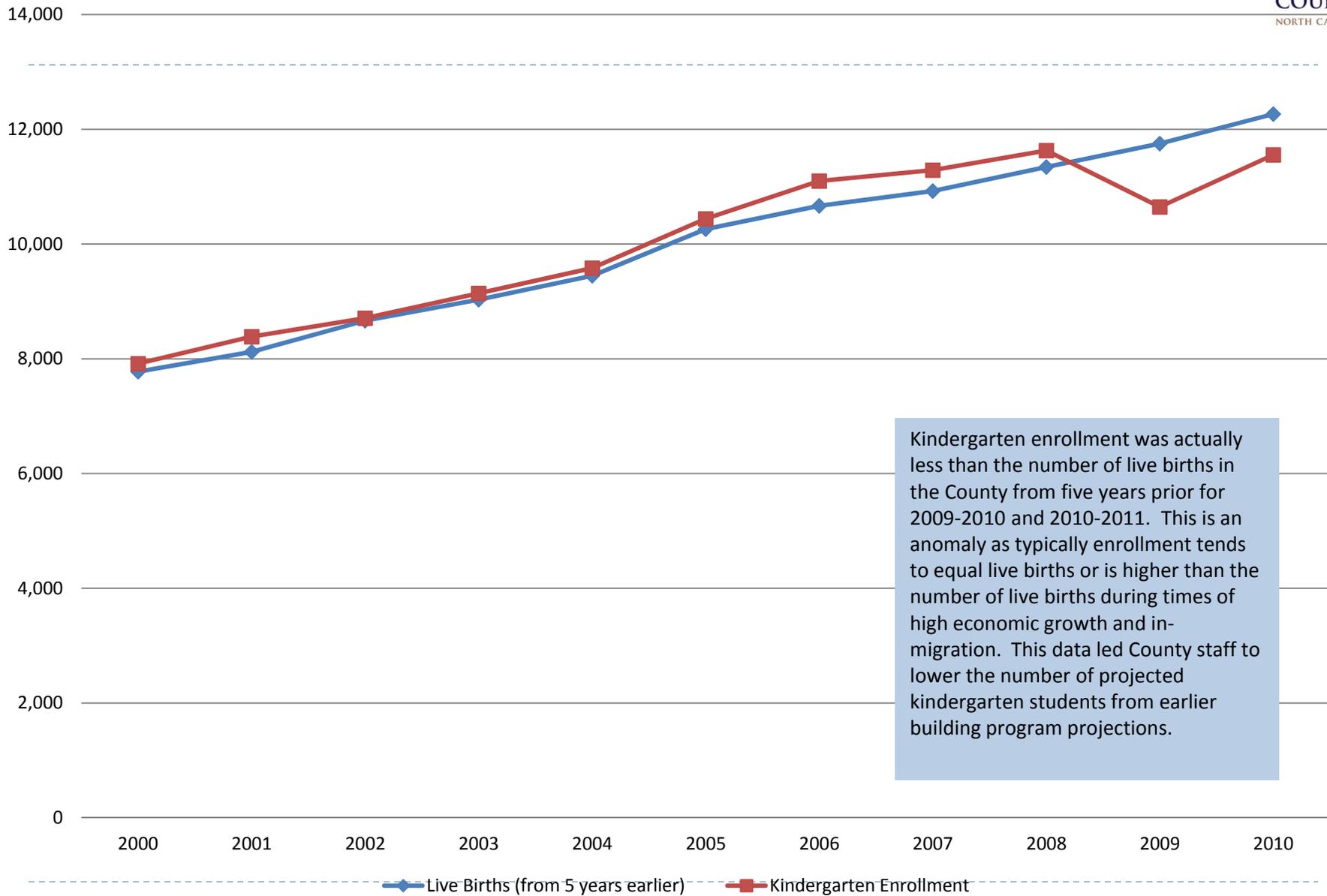


Fewer Live Births

Wake County Live Births



Live Births and Kindergarten Enrollment



Capital (Long Term) Projection

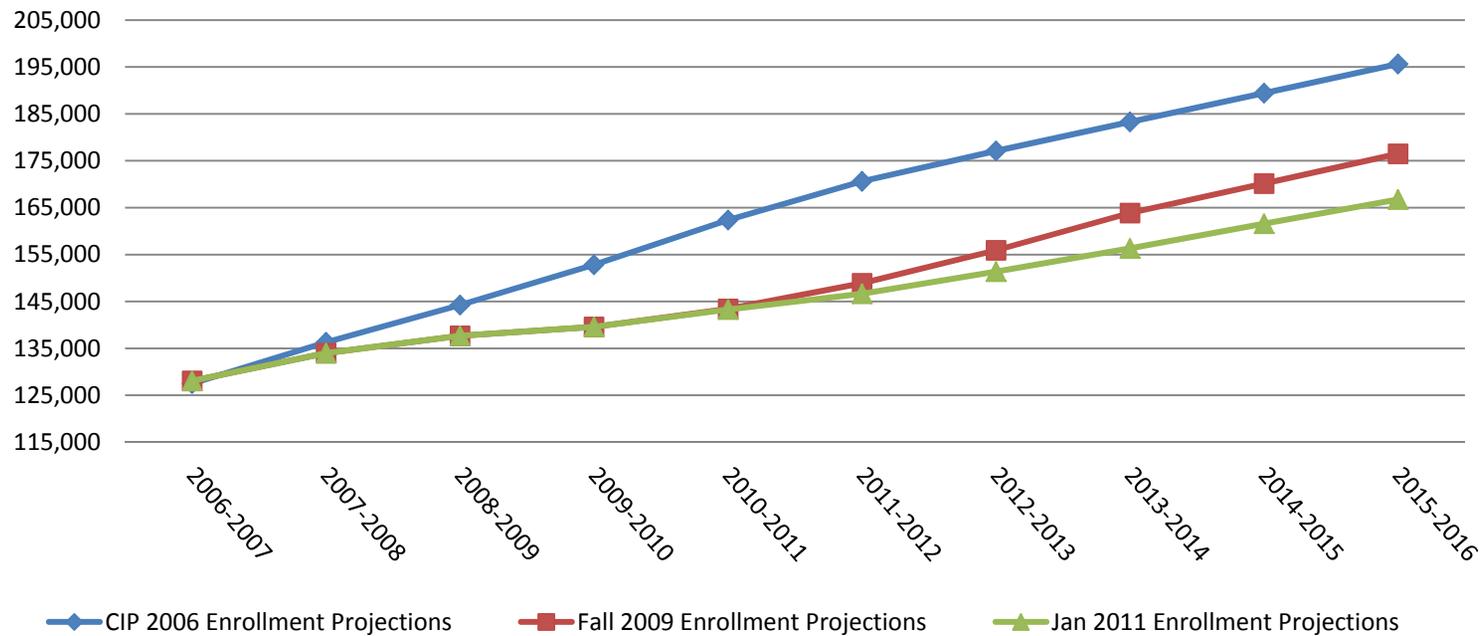
- ▶ **Capital Projection has been lowered from November 2009**
 - ▶ November 2009 projected predicted aggressive recovery beginning Fall 2011.
 - ▶ During periods of high economic growth, WCPSS experiences large increases in in-migration, resulting in a higher overall rate of enrollment growth.
 - ▶ Student enrollment projections have been revised to reflect a more moderate economic recovery.
 - ▶ Growth percentages also lowered in out years due to the reduced number of live births in 2009, 2010, and 2011 (projected).
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Capital Projection

School Year	<u>-1%</u>	<u>Mid-Point</u>	<u>1%</u>	<u>Growth</u>
2010		143,289		2.6% (Note 1)
2011	145,190	146,657	148,124	2.4%
2012	149,874	151,388	152,902	3.2%
2013	154,743	156,306	157,869	3.2%
2014	159,979	161,595	163,211	3.4%
2015	165,066	166,733	168,400	3.2%
2016	169,737	171,452	173,167	2.8%
2017	174,468	176,230	177,992	2.8%
2018	181,089	182,918	184,747	3.8%
2019	186,946	188,834	190,722	3.2%
2020	192,818	194,766	196,714	3.1%

Original CIP 2006 Enrollment Projections, Fall 2009, and January 2011 Enrollment Projections

Enrollment Projections: CIP 2006, Fall 2009, and January 2011



Summary

- ▶ Operating projection is generated for budget purposes.
 - ▶ Projection is pragmatic.
 - ▶ Based on growth seen in prior three years.
 - ▶ Capital projection generated for multiple years to plan demands on current and future building programs
 - ▶ Assumes that future growth will mirror student growth experienced in past economic cycles, but adjusted for a more moderate economy and adjusted for fewer live births.
 - ▶ Projections are updated annually based off of most recent student and economic data.
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Future Steps

- ▶ Staff will review student enrollment based on 20th day enrollment numbers for the 2011-2012 school year.
 - ▶ Continue to assess OR/Ed geo-coded data and functionality of enrollment projection model.
 - ▶ That data may be used in developing building program scenarios for a future building program.
 - ▶ Review projected capacity through 2020
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Questions?