Additional Information

New Hampshire Department of Education Long-term Comprehensive Modeling Analysis New Hampshire Charter School Grant

Summary

New Hampshire has the opportunity to both improve educational opportunities for all students, with a focus on at risk and disadvantaged students, and realize significant taxpayer savings through the implementation of the recently awarded \$46 million federal charter school grant. New Hampshire public charter schools have demonstrated their ability to meet the unique needs of individual children, provide an education in which students outperform state performance averages in math, English language arts and science, and they are able to do this at a lower cost to state taxpayers.

Analysis

In August 2019, the New Hampshire Department of Education received a \$46 million federal grant to expand the state's successful charter school program. The funds, awarded by the federal Department of Education's Office of Innovation and Improvement, are similar to a grant awarded to New Hampshire in 2010 and will support the state's charter school program with a focus on at-risk students and help spread education innovations to other New Hampshire schools.

In New Hampshire, contrary to the understanding of many, charter schools are all tuition free public schools open to all students. Groups eligible to open a new charter school include two or more certified New Hampshire educators, 10 or more parents of students, non-profit organizations, or local school districts. The approval to open a charter school is granted by a local school board or the state board of education.

The department has heard from a number of traditional district public schools interested in accessing these funds to invest in innovative ideas at the local level. Given the reality of tight school budgets, it is nearly impossible for traditional schools to find resources to invest in and start up innovative programs that serve at risk students. This grant will allow traditional district schools to do just that. Some of these ideas that districts have expressed to the department include language immersion programs for elementary students, comprehensive technical education high schools, including post-secondary pathways at the community college, and a recovery high school for students struggling with substance misuse.

The federal grant will support these ground-breaking initiatives by subsidizing the opening of 20 new charter schools, the expansion of 5, and the replication of 7 existing charter schools. During the Joint Legislative Fiscal Committee process, questions arose relative to the long-term financial impact of this grant on New Hampshire taxpayers and education funding in the state. This analysis by the department is a comprehensive analysis of the statewide impact of the grant on New Hampshire taxpayers and education funding. This analysis differs from other analyses in

that it takes a comprehensive look at the funding impact rather than only considering a narrow portion of the effect.

In the modeling, the department considered the total cost per pupil to educate a student in a traditional school (\$19,720 per pupil in FY 2019), the cost per pupil to educate a student in a charter school (\$9,473 per pupil in FY 2019), inflation, various public charter school student enrollment scenarios, the fixed costs in a traditional school, also including various modeling scenarios, and the cost of special education. These last two variables were important to consider as historically some models have been criticized for not including them.

The model also assumes that all new public charter schools will be chartered by the state board of education. Under New Hampshire law, there is an option for public charter schools to be authorized by local school boards or by the state board of education. Charter schools are eligible for grants under either authorizing option. Since the pathway for public charter schools to be authorized by local school boards would not have a financial impact on education funding, this model assumes all schools are authorized by the state board of education.

Given the broad range of variables used in this modeling, the department is able to provide a richer and more comprehensive analysis of the long term effect of the charter school grant on New Hampshire taxpayers and education funding.

As context and to help readers understand how traditional and public charter schools are funded, the below table summarizes cost per pupil funding. Both traditional and charter schools receive adequacy payments from the state. These include a base adequacy (\$3,709 and \$7,188, respectively for traditional and charter schools) and differentiated aid for students qualifying for Free and Reduced lunch (\$1,855), English language learners (\$725), and students who are not proficient on the state English language arts assessment in 3rd grade (\$725). Traditional public schools also receive an adequacy payment (\$1,995) for all students in their respective district with an individualized education plan (IEP), irrespective of whether or not they attend a public traditional or charter school. This reflects the fact that local districts are awarded all state and federal grants for special education and retain the responsibility for special education services under New Hampshire law.

In addition to the funds granted above, state taxpayers also fund traditional public schools, not public charter schools, with the following:

- \$158 million of stabilization grants to traditional school districts at an average of \$932
 per student, with some districts receiving as much as \$6,467 per student. Public charter
 schools do not receive these funds.
- \$34 million for school building aid

- \$22.3 million for special education funding¹
- \$7.3 million for career and technical education tuition and transportation²
- \$907 thousand for child nutrition programs
- \$10.1 million for school infrastructure and other state grants

During the 2019 legislative session, the legislature also awarded traditional public schools additional one time payments of \$350 and \$1,750 per pupil for Free and Reduced aid and Fiscal Capacity aid, respectively. These one-time funds were not considered and were excluded from the modeling as if they did not occur.

Funding Source ^{3, 4}	Traditional Public	Public Charter
State Taxpayer Contribution	6,152	8,601
Local Taxpayer Contribution	12,246	-
Federal Taxpayer Contribution	1,006	209
Other	316	663
Total Per Pupil	\$19,720	\$9,473

Recognizing that when one or even several students leave a traditional public school, that may not be enough of a reduction to allow the school to reduce associated cost quickly, the modeled scenarios afford schools long periods of time to adjust fixed costs. With or without the implementation of this grant, traditional public schools will be managing costs over the next decade to adjust for declining numbers of students. The total number of students that may participate in this grant is approximately 4,000 students, or 2% of the total student count. This is far lower than the expected student decline of between 26,000 and 48,000 students. To aid schools in identifying cost reduction opportunities, several resources are included below.

This model assumes that the traditional school, in the first year that the student leaves the traditional school for a charter school, will not be able to reduce *any* costs. Of course, estimating that all of the costs of educating a child are fixed is an extremely conservative assumption. If this assumption were to hold true, then it would also work in reverse. That means that when a new student is added to a traditional school, there would not be any additional costs to educate that student. Generally, schools request additional funds to educate additional students. In addition to no cost reductions in the first year, this model assumes that the school will be able to reduce the cost for the student over 3-years.

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¹ Refer to Assumptions below for a discussion of accounting for special education costs.

² A small number of charter school students participate in career and technical education programming, so the model adjusts for these costs. See assumptions below.

³ Refer to Assumptions below for a discussion of accounting for special education costs.

⁴ Refer to Assumptions below for discussion of cost per pupil derivation.

Additionally, we have modeled the continued cost of supporting special education students that leave a traditional school for a public charter school as under New Hampshire law, the district school is still funded for those special education costs and has responsibility for special education services.

Two cost modeling scenarios were used, one assuming that 100% per pupil costs are fixed and one assuming that savings realized when a student transfers from a traditional school to a charter school will be retained by the traditional school.

Three student enrollment modeling forecasts were used, conservative, historical and ambitious. Each of these student forecast models stops at 4,000 additional students, which is the student count number used in the grant and would be a doubling of the number of students attending charter schools in New Hampshire.

Modeling Scenario 1: This modeling scenario assumes that when a student leaves a traditional school for a charter school, the school will not realize any cost reductions in that year. This means that although the student will not be educated by the traditional school, the school will still continue to spend the same amount of funds. Of course this is an extreme case as all schools have a certain amount of variable costs associated with a student's education. In addition to no cost reductions in the first year, this model assumes that the school will be able to reduce the cost for the student over 3-years.

	Year 1	Year 2	Year 3
Per pupil costs that the model assumes will	\$15,0495	\$10,033	\$5,016
still be incurred by the Traditional School			
when a student leaves			

The net cumulative savings to New Hampshire Taxpayers under this modeling scenario are outlined in the table below:

10-Year Net Cumulative Taxpayer Savings

District Realizes No Cost Savings When Student Leaves

Student Enrollment ⁶	10-Year Savings			
Conservative Growth	61,856,306			
Historical Growth	81,715,016			
Ambitious Growth	96,736,034			

⁵ \$15,049 includes the total cost per student of \$19,720 less the cost for special education, which is also retained by the school. See model Assumptions below.

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⁶ Yearly student enrollment numbers are listed below in Assumptions.

Modeling Scenario 2: This modeling scenario assumes that when a student leaves a traditional school for a charter school, there are shared savings realized. These savings are the difference between the cost per pupil to educate a student in the traditional public school (\$19,720) less the per pupil cost for special education (\$4,671) and the cost to educate a student in a public charter school (\$9,473). In this model, 100% of the savings are retained by the traditional public school in year-1 and that the school will be able to achieve the cost reductions for the student over 3-years.

	Year 1	Year 2	Year 3
Per pupil costs that the model assumes will still be incurred by the Traditional School when a student leaves	\$5,576	\$3,717	\$1,859

The net cumulative savings to New Hampshire Taxpayers under this modeling scenario are outlined in the table below:

10-Year Net Cumulative Taxpayer Savings

District Retains 100% of Cost Savings When Student Leaves

Student Enrollment ³	10-Year Savings
Conservative Growth	120,203,521
Historical Growth	166,628,094
Ambitious Growth	178,335,134

Additional Modeling Assumptions

- Public charter schools will be authorized by the state board of education and eligible for state adequacy grants of \$7,188 per student, plus differentiated aid. The actual average per student aid is \$8,601. The average actual cost of education for a public charter school student is \$9,473, which is based on the actual cost derived from charter school DOE25 reporting. This amount includes both state adequacy, federal funds, and third-party funds raised by the charter school through grants and contributions.
- The total cost per student in a traditional public school including tuition, transportation, and capital costs is \$19,720 in FY 2018-2019, which is reported on the State Average Cost Per Pupil Rate report on the department website. This average cost was reduced by the average per pupil special education cost of \$4,671, to derive the average cost per pupil for a traditional school of \$15,049.

- Determination of per pupil costs by funding source (e.g., State, Local, Federal taxpayer) used the state-wide actual cost by funding source as a percent of total spending across all funding sources applied to the actual state-wide cost per pupil. For example, total State Taxpayer Contribution accounts for approximately 31% of total education funding. This 31% was applied to the actual per pupil cost of \$19,720 to derive the per pupil State Taxpayer Contribution of \$6,152. The same formula was used to derive Local Taxpayer Contribution, Federal Taxpayer Contribution and Other. This allocation method does not affect the actual per pupil cost of \$19,720, but only determines the allocation among State, Local and Federal taxpayer contributions.
- The cost per pupil for special education was derived from the FY18-19 spending on special education (\$770,030,262) as reported on the summary DOE25 divided by the number of students.
- Some special education services for students are paid by public charter schools and billed to the district traditional school responsible for the service. The cost of these services is reflected in Other costs under Public Charter schools and is also included in State, Local or Federal costs under Traditional Public schools. This process results in a duplication and possible overstatement of special education costs, a conservative estimate for the model. The amount of such costs, which could only be determined by a review of all invoices related to such services, is not believed to materially affect modeling results. In addition, when a traditional school provides special education services for a student in a public charter school, that spending by the traditional school may be made from state, local or federal funds in support of a charter school student.
- The per pupil savings for a student moving from a traditional school to a charter school is \$5,576, which is the difference between \$15,049 and \$9,473.
- Per pupil amounts were adjusted for inflation over the 10-year forecast period.
- An inflation factor of 2.5% per year for the per pupil costs was applied.
- A range of student population forecasts were considered, including student population models derived by the department and student forecast models by the Western Interstate Commission for Higher Education ("WICHE"). Department models anticipate further student decline of 16% compared to 28% declines forecast by WICHE. The lower student population forecast of 16% was used. By using the lower estimate, the model provides allowances for students who might transfer from private school to a public charter school and the possibility of slower declines resulting from future inbound migration to the state.
- Charter school student enrollment models over ten years are:

Year	Conservative	Historical	Ambitious		
1	260	260	260		
2	650	776	787		
3	1,079	1,452	1,544		
4	1,447	2,148	2,492		

5	1,748	2,804	3,256
6	1,922	3,335	3,807
7	2,115	3,780	4,000
8	2,326	4,000	4,000
9	2,559	4,000	4,000
10	2,815	4,000	4,000

Qualitative consideration: While the above financial analysis provides a compelling case for the financial benefit to New Hampshire taxpayers for the acceptance and implementation of the public charter school grant, numbers alone do not tell the whole story of educating New Hampshire's children. Not only is it important to support a financially effective system, but there is also a performance criterion that must be considered – not necessarily how much is spent, but what is realized by that investment in education, always with student outcomes as a key measure.

Public charter schools, relative to student outcome measures, perform at or above traditional public schools as illustrated below:

Percent of Students Proficient										
	N	lath	English Language Arts							
Grade Charte	Charter School	Traditional School	Charter School	Traditional School						
4	51%	53%	58%	56%						
8	50%	45%	63%	53%						
11	44%	43%	70%	64%						

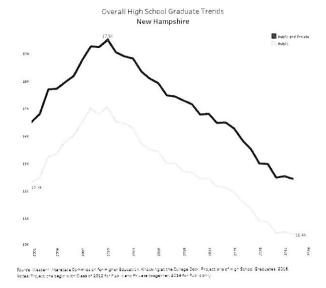
While anecdotal, the department hears many stories throughout the school year from students, parents, teachers and administrators – in both traditional and public charter schools – about the successes and positive experiences they have had. Similarly, the department hears many heartbreaking stories of students who have not found success in different educational settings. The point is that each child is different and there is not one educational model that will ever be able to meet the needs of all children. That is simply not possible.

Given this reality, the public charter school grant, which invests in innovative and creative alternative public education environments as discussed above, is qualitatively essential if we are to try to meet the needs of all of our children. The department strives to make sure that all students have a bright future and that there are no forgotten children. Public charter schools help New Hampshire to realize that vision which is embedded in the values which the state holds dearly.

Cost Management Resources: The reality of declining student enrollment is a factor that needs

to be considered in any school finance modeling, irrespective of the proposed public charter school grant. Various demographic modeling scenarios forecast declines of between 26,000 students (16%) to 48,000 students (28%) over the next 10-years.⁷

Recognizing that when one or even several students leave a traditional public school, that may not be enough of a reduction to allow the school to reduce associated cost quickly, the various scenarios modeled afford schools long periods of time to adjust fixed costs.

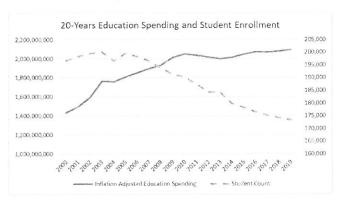


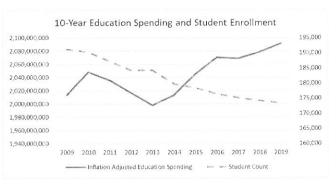
The two tables below provide context and shed some light on the long-term relationship between student population and spending on K-12 education in New Hampshire. The first chart provides

a 20-year inflation adjusted illustration of cost and student population.

One observation from this data is that during periods of economic downturn, namely 2002 – 2004 and again in 2010 – 2013, using inflation adjusted numbers, school districts implemented cost management approaches to reduce budgets. During the most recent economic downturn, those reductions occurred over three-years.

While properly structuring costs with student enrollment is certainly a local determination, and local districts have demonstrated capacity to manage those reductions, this report includes some district practices from around the country that may help districts working through these reductions.





⁷ Western Interstate Commission for Higher Education, 2016

Reports⁸ from three different states were compiled to help develop a list of possible cost management strategies for schools.

These include:

- "How School Districts Can Stretch the School Dollar," from Thomas Fordham Institute,
 2012
- "Ten Ways to Cut Costs in New York Public Schools without Hurting the Classroom,"
 from Alliance for Quality Education
- "Methods for Reducing Costs and Maximizing Revenue in Public School Districts," from the Texas Legislative Budget Board, 2011

The department recognizes that districts work diligently to manage costs and many districts will have addressed these recommendations and other cost management ideas. The department is able to maintain a best practice data set of all cost management recommendations across the state to facilitate implementation in all districts. In addition to these recommendations and given the expectation of declining student enrollment, the department is recommending that all districts begin the conversation and planning relative to how they will manage costs in the coming decade to address the fact that there will be fewer students.

Some of the recommendation from the above reports include:

Aim for a leaner, more productive and better	Compensation structures that reward
paid workforce	productivity
Thoughtful integration of technology, looking	Evaluating costs across subject and course
at blended online and classroom instructional	level
models	
Administrative consolidation and shared	Evaluate ratios of teacher to administration
services, even across districts	ratios
Energy efficiency	Reverse auctions in contract bidding
Expansion of health and other insurance	Integrate adjunct/part-time staffing for small
consortia	course offerings; share unique educator
	resources across systems
Evaluate cost effectiveness of block	Implement Medicaid administrative billing
scheduling	recapture
Early retirement incentives	Fully utilize online options (VLACS)
Evaluate contracts for legal services annually	Perform efficiency audits across programs
Establish educational foundations	Establish business and community
	partnerships

⁸ These recommendation, taken from the above referenced reports, are generally from the time period around the significant recession about a decade ago now. At that time, many municipalities had to reduce costs, and school districts were not immune to those reductions.

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Evaluate tuition and fees for community	Provide online professional development to
education and facility usage, considering	reduce travel cost
access for all	
Implement recruiting and retention strategies	Provide incentive to encourage employee
to reduce turnover	attendance and reduce costs for substitutes
Maximize the use federal grant funds so they	Consider leasing computers
are not returned	
Maximize technical support efforts by using	Consider a contract grant writer
remote desktop management software	
Manage cash flow and investments	Use cash management services
Refinance bonds at lower rates	Analyze insurance plans annually
Participate in purchasing cooperatives	Develop, implement, and train district staff on
	purchasing policies
Use incentives, marketing and non-traditional	Implement multi-tiered or staggered bell
methods to increase participation in and	times district wide to maximize the use of bus
reimbursements from qualifying programs	drivers
Adopt policies related to extracurricular trips	Conduct bus route analysis
Manage food costs in menu planning	Maximize USDA food commodity program
Consider centralized food preparation	Participate in food purchasing cooperatives
Use building and construction prototypes	Develop preventative maintenance programs
Create staffing guidelines, formulas and	Conduct cost/benefit analyses related to
ratios, including administrative staffing	possible outsourcing of district functions
Contract piggybacking and cooperative	
purchasing	

Full Cost Savings Model; Ambitious Student Growth Year 10 Year 7 Year 8 Year 9 Year 6 Year 1 Year 2 Year 3 Year 4 Year 5 Traditional Public School 6.152 6.306 6,463 6,625 6,791 6,960 7,134 7,313 7,496 7,683 State Taxpaver Contribution 1,196 14,557 Federal Taxpayer Contribution 1,006 1,031 1,057 1,083 1,110 1,138 1.167 1,226 1.256 14,921 15,294 Local Taxpayer Contribution 12,246 12,552 12,866 13,188 13,517 13,855 14,202 395 24,628 324 332 349 358 366 376 385 316 22.311 23,441 19.720 20.213 20.718 21,236 21.767 22.869 24,027 5,691 54 Less Special Edcuation Costs Per Student 4,671 4,788 4,907 5,285 5,417 5,552 5,833 Less Tuition and Transportation Per Student 44 45 50 51 15,764 16,159 16,563 16,977 17,401 17,836 18,282 18,739 15,005 15,380 Charter Public School 10,479 10,741 9,731 State Taxpayer Contribution Federal Taxpayer Contribution 8,601 8.816 9,036 9,262 9,494 9.975 10.224 236 248 255 261 220 225 231 209 214 732 10,456 Other 663 680 697 714 750 769 788 808 828 10,986 11,542 11,830 10,718 11,260 9,710 9,953 10,201 9,473 5,957 6,259 6,415 6,740 6,909 5,532 5,670 5,812 6,106 Difference Inflation factor 2.50% 1.077 1.104 1.131 1.160 1.189 1.218 1.249 1.000 260 757 948 764 551 193 New students per year 4,000 4,000 4.000 4,000 Cumulative number of students 260 787 1,544 2,492 3.256 3.807 27,634,089 26,302,523 26,960,086 8.973.573 14.845.335 19.881.549 23,827,176 25,660,998 Gross taxpayer savings per year 1,438,281 4,462,405 Cumulative gross taxpayer savings per year 1,438,281 5,900,686 14,874,259 29,719,593 49,601,143 73,428,318 99,089,317 125,391,840 152,351,926 179,986,015 (18,637,621) (25,975,886) (26,843,911) (22,896,081) (13,812,401) (5,356,969) (1,119,466) Fixed cost amoritization (3,901,261) (10,706,085) Years for fixed cost adjustment Grant funds to state 10,114,548 10,322,150 10,348,914 15,214,088 20,945,554 27,634,089 Net Annual Taxpayer Savings 684,866 4,083,536 (6,962,361) 931.095 11,848,597 25,840,620 96,736,034 Net Cummulative Taxpayer Savings 7,651,568 11,730,038 12,414,904 16,498,440 9,536,079 10,467,174 22,315,771 43,261,325 69,101,945

Full Cost Savings Model; Historical Student Growth

uli Cost Savings Model; Historical Student Growt		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Traditional Public School	100	Teal 1	Teal 2	Tears	Teal 4	1ear 5	rear o	Teal 7	Teal D	76813	1681 10
State Taxpayer Contribution		6.152	6,306	6,463	6.625	6.791	6,960	7,134	7,313	7,496	7,683
Federal Taxpayer Contribution		1,006	1,031	1,057	1,083	1,110	1,138	1,167	1,196	1,226	1,256
Local Taxpayer Contribution		12,246	12,552	12,866	13,188	13,517	13,855	14,202	14,557	14,921	15,294
Other		316	324	332	340	349	358	366	376	385	395
	_	19,720	20,213	20,718	21,236	21,767	22,311	22,869	23,441	24,027	24,628
Less Special Edcuation Costs Per Student	100	4,671	4,788	4,907	5,030	5,156	5,285	5,417	5,552	5,691	5,833
Less Tuition and Transportation Per Student		44	45	47	48	49	50	51	53	54	55
Total	_	15,005	15,380	15,764	16,159	16,563	16,977	17,401	17,836	18,282	18,739
Charter Public School											
State Taxpayer Contribution		8,601	8.816	9,036	9,262	9,494	9,731	9,975	10,224	10,479	10,741
Federal Taxpayer Contribution		209	214	220	225	231	236	242	248	255	261
Other		663	680	697	714	732	750	769	788	808	828
		9,473	9,710	9,953	10,201	10,456	10,718	10,986	11,260	11,542	11,830
Difference	-	5,532	5,670	5,812	5,957	6,106	6,259	6,415	6,576	6,740	6,909
Inflation factor	2.50%	1.000	1.025	1.051	1.077	1.104	1.131	1.160	1.189	1.218	1.249
New students per year		260	516	676	696	656	531	445	220	-	
Cumulative number of students		260	776	1,452	2,148	2,804	3,335	3,780	4,000	4,000	4,000
Gross taxpayer savings per year		1,438,281	4,400,033	8,438,878	12,796,059	17,121,580	20,873,032	24,249,643	26,302,523	26,960,086	27,634,089
Cumulative gross taxpayer savings per year		1,438,281	5,838,314	14,277,192	27,073,251	44,194,831	65,067,863	89,317,506	115,620,029	142,580,116	170,214,204
Fixed cost amoritization		(3,901,261)	(10,536,906)	(17,247,912)	(20,996,249)	(21,914,873)	(20,006,725)	(17,374,853)	(12,091,095)	(6,505,083)	(3,923,931)
Years for fixed cost adjustment	3		BE 1801 1901 1945								
Grant funds to state		10,114,548	10,322,150	10,348,914	15,214,088	-				-	-
Net Annual Taxpayer Savings	week	7,651,568	4,185,278	1,539,880	7,013,898	(4,793,293)	866,307	6,874,790	14,211,428	20,455,003	23,710,157
Net Cummulative Taxpayer Savings	_	7,651,568	11,836,846	13,376,726	20.390.624	15,597,330	16,463,637	23,338,428	37,549,856	58,004,859	81,715,016

	-	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Traditional Public School		W 12 ATS									
State Taxpayer Contribution		6,152	6,306	6,463	6,625	6,791	6,960	7,134	7,313	7,496	7,683
Federal Taxpayer Contribution		1,006	1,031	1,057	1,083	1,110	1,138	1,167	1,196	1,226	1,256
Local Taxpayer Contribution		12,246	12,552	12,866	13,188	13,517	13,855	14,202	14,557	14,921	15,294
Other	katen.	316	324	332	340	349	358	366	376	385	395
	-	19,720	20,213	20,718	21,236	21,767	22,311	22,869	23,441	24,027	24,628
Less Special Edcuation Costs Per Student		4,671	4,788	4,907	5,030	5,156	5,285	5,417	5,552	5,691	5,833
Less Tuition and Transportation Per Student		44	45	47	48	49	50	51	53	54	55
Total	_	15,005	15,380	15,764	16,159	16,563	16,977	17,401	17,836	18,282	18,739
Charter Public School											
State Taxpayer Contribution		8,601	8,816	9,036	9,262	9,494	9,731	9,975	10,224	10,479	10,741
Federal Taxpayer Contribution		209	214	220	225	231	236	242	248	255	261
Other		663	680	697	714	732	750	769	788	808	828
	_	9,473	9,710	9,953	10,201	10,456	10,718	10,986	11,260	11,542	11,830
Difference		5,532	5,670	5,812	5,957	6,106	6,259	6,415	6,576	6,740	6,909
Inflation factor	2.50%	1.000	1.025	1.051	1.077	1.104	1.131	1.160	1.189	1.218	1.249
New students per year		260	390	429	368	301	174	193	211	233	256
Cumulative number of students		260	650	1,079	1,447	1,748	1,922	2,115	2,326	2,559	2,815
Gross taxpayer savings per year		1,438,281	3,685,595	6,271,040	8,620,064	10,673,510	12,029,375	13,568,253	15,294,917	17,247,715	19,447,490
Cumulative gross taxpayer savings per year		1,438,281	5,123,876	11,394,915	20,014,979	30,688,489	42,717,864	56,286,117	71,581,035	88,828,750	108,276,240
Fixed cost amoritization		(3,901,261)	(8,599,029)	(12,062,170)	(12,454,393)	(11,203,884)	(8,259,601)	(6,989,460)	(6,986,982)	(9,142,568)	(12,820,286)
Years for fixed cost adjustment	3										
Grant funds to state		10,114,548	10,322,150	10,348,914	15,214,088	-			- 2		
Net Annual Taxpayer Savings	-	7,651,568	5,408,716	4,557,783	11,379,759	(530,375)	3,769,775	6,578,793	8,307,935	8,105,148	6,627,204
											61.856.306

Shared Savings Model; Ambitious Student Growth

hared Savings Model; Ambitious Student Grow	tn	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Traditional Public School	100										
State Taxpayer Contribution		6,152	6,306	6,463	6,625	6,791	6,960	7,134	7,313	7,496	7,683
Federal Taxpayer Contribution		1.006	1.031	1,057	1.083	1.110	1.138	1,167	1,196	1,226	1,256
Local Taxpayer Contribution		12,246	12,552	12,866	13,188	13,517	13,855	14,202	14,557	14,921	15,294
Other		316	324	332	340	349	358	366	376	385	395
	-	19,720	20,213	20,718	21,236	21,767	22,311	22,869	23,441	24,027	24,628
Less Special Edcuation Costs Per Student		4,671	4,788	4,907	5,030	5,156	5,285	5,417	5,552	5,691	5,833
Less Tuition and Transportation Per Student		44	45	47	48	49	50	51	53	54	55
Total	_	15,005	15,380	15,764	16,159	16,563	16,977	17,401	17,836	18,282	18,739
Charter Public School											
State Taxpayer Contribution		8,601	8,816	9,036	9,262	9,494	9,731	9,975	10,224	10,479	10,741
Federal Taxpayer Contribution		209	214	220	225	231	236	242	248	255	261
Other		663	680	697	714	732	750	769	788	808	828
	-	9,473	9,710	9,953	10,201	10,456	10,718	10,986	11,260	11,542	11,830
Difference	-	5,532	5,670	5,812	5,957	6,106	6,259	6,415	6,576	6,740	6,909
Inflation factor	2.50%	1.000	1.025	1.051	1.077	1.104	1.131	1.160	1.189	1.218	1.249
New students per year		260	527	757	948	764	551	193			
Cumulative number of students		260	787	1,544	2,492	3,256	3,807	4,000	4,000	4,000	4,000
Gross taxpayer savings per year		1,438,281	4,462,405	8,973,573	14,845,335	19,881,549	23,827,176	25,660,998	26,302,523	26,960,086	27,634,089
Cumulative gross taxpayer savings per year		1,438,281	5,900,686	14,874,259	29,719,593	49,601,143	73,428,318	99,089,317	125,391,840	152,351,926	179,986,015
Fixed cost amoritization		(1,438,281)	(3,947,021)	(6,871,146)	(9,576,550)	(9,896,565)	(8,441,116)	(5,092,229)	(1,974,958)	(412,714)	0
Years for fixed cost adjustment	3										
Grant funds to state	25000	10,114,548	10,322,150	10,348,914	15,214,088		-				
Net Annual Taxpayer Savings	_	10,114,548	10,837,534	12,451,341	20,482,873	9,984,984	15,386,060	20,568,770	24,327,565	26,547,372	27,634,089
Net Cummulative Taxpayer Savings	-	10,114,548	20,952,082	33,403,423	53,886,295	63,871,279	79,257,339	99,826,108	124,153,674	150,701,046	178,335,134

hared Savings Model; Historical Student Growt		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Traditional Public School	-	Tear 2	rear z	Tear 5	1001 4	Tear 5	Tour o	real /			
State Taxpaver Contribution		6,152	6,306	6,463	6,625	6,791	6,960	7.134	7,313	7,496	7,683
Federal Taxpayer Contribution		1.006	1,031	1,057	1,083	1,110	1,138	1,167	1,196	1,226	1,256
Local Taxpayer Contribution		12,246	12,552	12,866	13,188	13,517	13,855	14,202	14,557	14,921	15,294
Other		316	324	332	340	349	358	366	376	385	395
17.00	-	19,720	20,213	20,718	21,236	21,767	22,311	22,869	23,441	24,027	24,628
Less Special Edcuation Costs Per Student		4,671	4,788	4,907	5.030	5,156	5,285	5,417	5,552	5,691	5,833
Less Tuition and Transportation Per Student		44	45	47	48	49	50	51	53	54	55
Total	_	15,005	15,380	15,764	16,159	16,563	16,977	17,401	17,836	18,282	18,739
Charter Public School											
State Taxpayer Contribution		8,601	8,816	9,036	9,262	9,494	9,731	9,975	10,224	10,479	10,741
Federal Taxpayer Contribution		209	214	220	225	231	236	242	248	255	261
Other		663	680	697	714	732	750	769	788	808	828
	_	9,473	9,710	9,953	10,201	10,456	10,718	10,986	11,260	11,542	11,830
Difference	-	5,532	5,670	5,812	5,957	6,106	6,259	6,415	6,576	6,740	6,909
Inflation factor	2.50%	1.000	1.025	1.051	1.077	1.104	1.131	1.160	1.189	1.218	1.249
New students per year		260	516	676	696	656	531	445	220		
Cumulative number of students		260	776	1,452	2,148	2,804	3,335	3,780	4,000	4,000	4,000
Gross taxpayer savings per year		1,438,281	4,400,033	8,438,878	12,796,059	17,121,580	20,873,032	24,249,643	26,302,523	26,960,086	27,634,089
Cumulative gross taxpayer savings per year		1,438,281	5,838,314	14,277,192	27,073,251	44,194,831	65,067,863	89,317,506	115,620,029	142,580,116	170,214,204
Fixed cost amoritization		(1,438,281)	(3,884,649)	(6,358,801)	(7,740,704)	(8,079,373)	(7,375,895)	(6,405,601)	(4,457,634)	(2,398,234)	(1,446,639
Years for fixed cost adjustment	3										
Grant funds to state		10,114,548	10,322,150	10,348,914	15,214,088		-			-	
Net Annual Taxpayer Savings	-	10,114,548	10,837,534	12,428,991	20,269,444	9,042,207	13,497,137	17,844,043	21,844,890	24,561,852	26,187,450
Net Cummulative Taxpayer Savings		10,114,548	20,952,082	33,381,073	53,650,516	62,692,723	76,189,860	94,033,903	115,878,792	140,440,645	166,628,094

Shared Savings Model; Conservative Student Growth Year 7 Year 8 Year 10 Year 4 Year 6 Year 9 Year 1 Year 2 Year 3 Year 5 Traditional Public School State Taxpayer Contribution 6,152 6,306 6,463 6,625 6,791 6,960 7,134 7,313 7,496 7,683 1,006 12,246 1,031 12,552 1,057 12,866 1,138 13,855 Federal Taxpayer Contribution 1.083 1.110 1.167 1,196 1.226 1.256 13,517 14,557 14,921 15,294 13,188 14,202 Local Taxpayer Contribution 332 20,718 349 21,767 395 24,628 Other 316 324 340 358 366 376 385 24,027 19,720 21,236 22,311 22,869 23,441 20.213 5,691 54 Less Special Edcuation Costs Per Student 4,671 4,788 4,907 5,030 5,156 5,285 5,417 5,552 5,833 Less Tuition and Transportation Per Student 44 45 48 49 53 18,739 Total 15,005 15,380 15,764 16,159 16,563 16,977 17,401 17,836 18,282 Charter Public School 9,975 10,479 10,741 9.731 State Taxpayer Contribution 8.601 8.816 9.036 9.262 9.494 10,224 Federal Taxpayer Contribution 209 220 225 231 236 242 248 255 261 214 788 828 Other 663 680 697 714 732 750 769 808 9,710 10,456 10,718 10,986 11,830 9,473 9,953 10,201 11,260 Difference 5,532 5,670 5,812 5,957 6,106 6,259 6,415 6,576 6.740 6,909 Inflation factor 2.50% 1.000 1.025 1.051 1.077 1.104 1.131 1.160 1.189 1.218 1.249 New students per year 260 390 429 368 301 1,748 174 193 211 233 256 2,815 Cumulative number of students 1.079 1.447 1,922 2,115 2,326 2,559 260 650 19,447,490 13,568,253 17,247,715 1,438,281 10,673,510 12,029,375 15,294,917 3,685,595 6.271.040 8,620,064 Gross taxpayer savings per year Cumulative gross taxpayer savings per year 1,438,281 5,123,876 11,394,915 20,014,979 30,688,489 42,717,864 56,286,117 71,581,035 88,828,750 108,276,240 Fixed cost amoritization (1,438,281) (3,170,211) (4,446,970) (4,591,571) (4,130,545) (3,045,073) (2,576,810) (2,575,896) (3,370,598) (4,726,465) Years for fixed cost adjustment Grant funds to state 10,114,548 10,322,150 10,348,914 6,542,965 8,984,302 10,991,443 12,719,021 13,877,118 14,721,025 **Net Annual Taxpayer Savings** 10,114,548 10,837,534 12,172,984 19,242,581 105,482,496 120,203,521 Net Cummulative Taxpayer Savings 10,114,548 20,952,082 33,125,066 52,367,647 58,910,612 67,894,914 78,886,357 91,605,378