



City of Millville Public Schools
Demographic Study
Projected School Enrollments



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Executive Summary

The Methodology used in projecting enrollments is the recommended method of the NJ Department of Education, which is known as Cohort Survival, and which is based on historic birth rates and historic enrollments as found in the Superintendent's Fall reports. The NJ DOE mandated form of report, based on 6 years of enrollment history, is included in the Appendix. To this standard projection is added new students from accelerated rates of both new residential construction and resale of existing housing.

The School District includes the 42.34 square mile City of Millville, in Cumberland County, and has a year 2000 population of 26,847 people according to the U S Census. The school district's High School (Grades 9 to 12) also serves students from Commercial Township, Lawrence Township, Maurice River and Woodbine Borough. The public school system has a student population of just over 6,000 students in 2005.

Population Trends The population of Millville has experienced steady growth since an initial 11.8% growth in the 1960's and 16.1% in the 70's. While population growth continued in the 80's and 90's, it was at a much smaller rate of about 4% per decade.

Population by Age Group from 1990 to 2000, shows a decrease in pre-school age group, down 5%, and a significant increase of 12.3% in school age children. Childbearing age population declined by 10% supporting the decline in pre-school age children. Adult ages 40-65 evidenced a very significant 17.5% increase. Seniors ages 65+ were stable

Birth Rates have fluctuated between 387 and 420 per year over the 6 most recent years for which data is available. A trended rate of 426 births per year is used to project Live Births for year 2004 which is not yet available but used in the projection.

Housing Trends Millville has averaged under 40 residential building permits per year in the period 2000-2002. Permits increased to 85 in 2003 and 129 in 2004. These increases are indicative of unprecedented growth as evidenced by recent submissions of major subdivisions to the local planning board

Proposed Housing resulting from a new Comprehensive Plan and extraordinary developer interest includes over 1600 units of approved housing and nearly 2500 planned units. These 4000 units are planned for build-out over 10 years. Nearly 1000 of these units are age-restricted.

Population in Millville City has increased to nearly 27,000 people.

The period from 1990 to 2000 saw a 12.3% increase in the number of school age children.

Births are projected to trend toward 430 per year.

Housing permits are projected to grow from about 40 per year to 400 per year.

Executive Summary con't

New Housing Schedules were developed from the Impact Statements required from developers for review and approval. About 2700 of the units are planned for delivery during the five year period of this enrollment projection.

Historic Enrollments in Millville have nominally increased from 5848 students in 1999-00 to 6042 students in 2004-05 which is less than 1% growth per year

Standard Cohort Survival projections, without changes in the current rate of residential construction, indicate the district enrollment stabilizing around 6000 students. This is not an acceptable projection due to the significant change in proposed new housing.

Housing Multipliers for the number of school age children from different Housing Types and by Number of Bedrooms are taken from the draft study of a national expert whose prior publications are the industry standard. They closely match the consultants own multipliers extrapolated from the 2000 US Census, as well as those of the Millville Planning Department.

Additional Children, from new housing during the five year period of the projection and in grades K-12 is established at 1170 students. Another 214 grade K-12 students will come from increased rates of turnover of existing housing. And an additional 276 children will enter the Pre-K program.

Enrollment Projections establish district-wide growth from 6042 students to 7625 students by 2010, and 8900 by year 2015.

Pre K enrollments will increase to 1133 in the 3 and 4 year old programs, from a current level of 774. Outside providers currently serve approximately 255 3-year old, which level is anticipated to remain the same.

Elementary grades K to 5 will increase from 2244 students to a year 2010 high of 2958.

Grades 6 & 7 will increase from 757 students to 920 in year 2010.

Grades 8 & 9 will increase from 1068 students in 2004 to 1247 students in 2010.

High School, grades 10-12, will increase from 1501 students in 2004 to 1864 students in 2010..

A total of 1521 students is expected from new and resale housing.

Enrollments which grew by about 200 students in the last five years are projected to grow by 1583 students in the next five years, primarily from new housing.

Profile: City of Millville and Public School District

The city of Millville was born at what is today Union Lake. Joseph Smith and others formed the Union Estates Company in 1776, purchasing 24,000 acres of land and establishing a mill at the head of the Maurice River. The first to recognize the land with its number of forests and its position on the river was Captain Joseph Buck, a veteran of the Revolutionary War, who had served under George Washington. It was in 1795 that he drew up his plans for the town. Lots went up for sale shortly before the village was organized as a township in 1801. When Smith died in 1803 there were fewer than 20 houses. Millville got its name back in the 1790's from the numerous mills and factories that were planned for the site.

The City of Millville was incorporated as a city by an act of the state legislature in 1866 and operated under the Mayor-Council form of government until 1913. The mayor was elected by the people. In 1913, the Walsh Act was passed and the city began its present commission form of government. There are five elected commissioners, one of whom serves as mayor.

The city is located in Cumberland County in southern New Jersey approximately 45 miles from Philadelphia, 120 miles from New York City and 140 miles from Washington, D.C. It lies between the southern termini of the New Jersey Turnpike, the Garden State Parkway, State Highway 55 (which runs through the northeastern portion of the city) and the Atlantic City Expressway.

Union Lake, over 4,000 acres of upland, Maurice River, and two Wildlife Management Areas embody some of the natural alluring sites. Comprising an area of about 44.3 square miles, approximately 8% of the area is devoted to agriculture; 8% commercial and industrial; 10% residential; 13% municipal, school recreational, water, sewer, streets, and the municipal airport; and the remaining 61% is vacant land and woodlands.

Transportation is provided by bus to Philadelphia, New York City and Wilmington, Delaware. Several motor freight common carriers connect Millville with Philadelphia, New York, Baltimore and other cities. The Millville Municipal Airport is an air freight depot and a maintenance field. Water transportation is available by means of the Maurice River which is navigable to the center of the city.

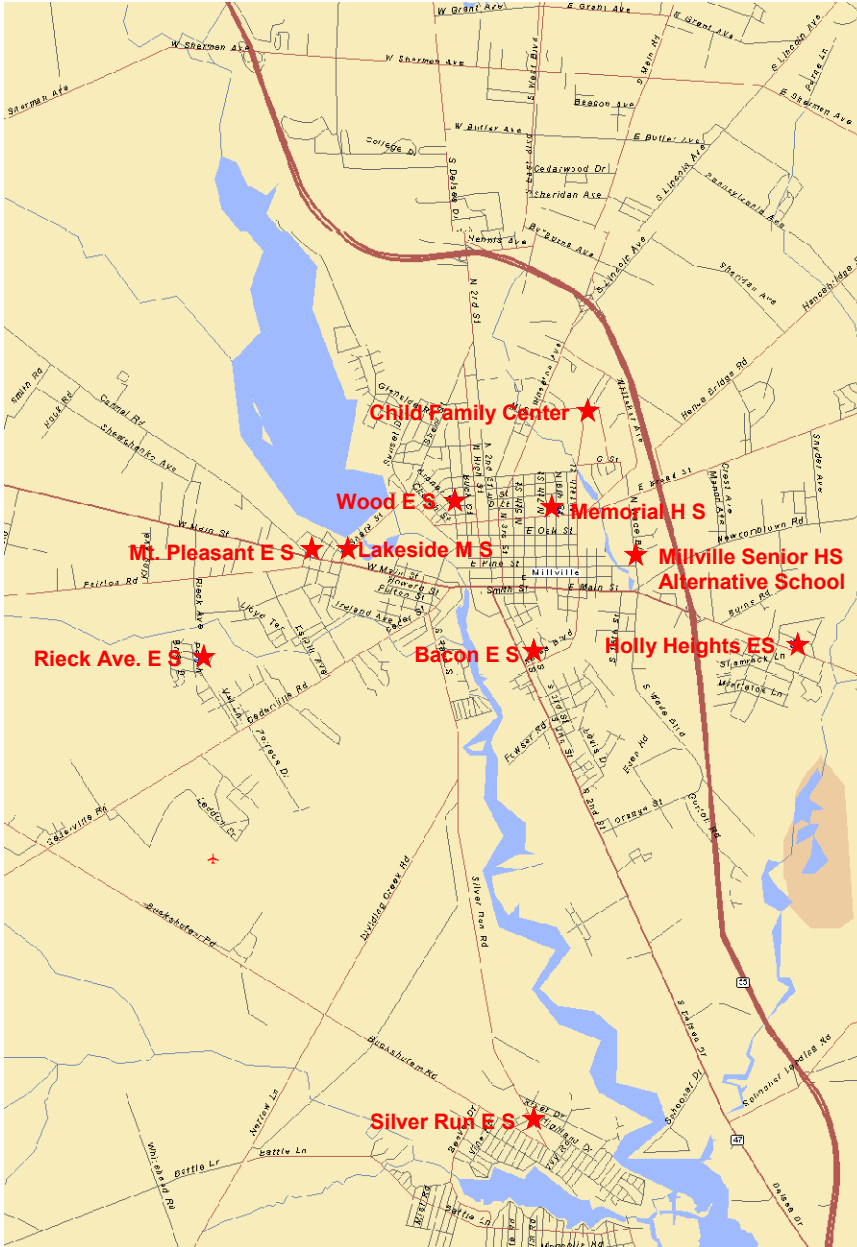
Of the 10,043 total occupied housing units in 2000, 6,413 units or 63.9% were owner-occupied. Nearly half (47.5%) of total units are built before 1960. 8% of units had been built between 1990 and 2000.

SOURCE: US Census 2000 and <http://millvillev2.qscend.com/>



The School District includes the 44.3 square mile geographic area of the City of Millville with a population near 27,000.

Profile: Millville School District con't



The district maintains 2 high schools, 1 middle school, 6 elementary schools, a Pre-School and an Alternative School as well as an administration building as follows;

High Schools

Millville Senior High School
200 Wade Boulevard, Millville NJ 08332

Memorial High School
504 E. Broad St., Millville NJ 08332

Middle Schools

Lakeside Middle School
2 North Sharp St., Millville NJ 08332

Elementary Schools

Bacon Elementary School
501 South Third St., Millville, NJ 08332

Holly Heights Elementary School
2509 East Main St.,

Mt. Pleasant Elementary School
100 Carmel St., Millville, NJ 08332

Silver Run Elementary School
301 Silver Run Rd., Millville, NJ 08332

Rieck Ave. Elementary School
339 Reich Avenue, Millville, NJ 08332

Wood Elementary School
700 Archer St., Millville, NJ 08332

Early Childhood

Child Family Center
1100 Coombs Rd., Millville, NJ 08332

Administration

Millville Public Schools Culver Center
110 North Third Street
Millville, NJ 08332
Tel 856-825-8300

The district has a professional staff of over 500 highly qualified teachers and administrators, most of whom hold advanced degrees.

The district is a culturally diverse community with a student population of over 6,000.

The district strives to maintain a classroom size under 25 students in a technologically friendly

The school district's High School (Grades 9 to 12) also serves students from Commercial Township, Lawrence Township, Maurice River and Woodbine Borough.



Population Trends



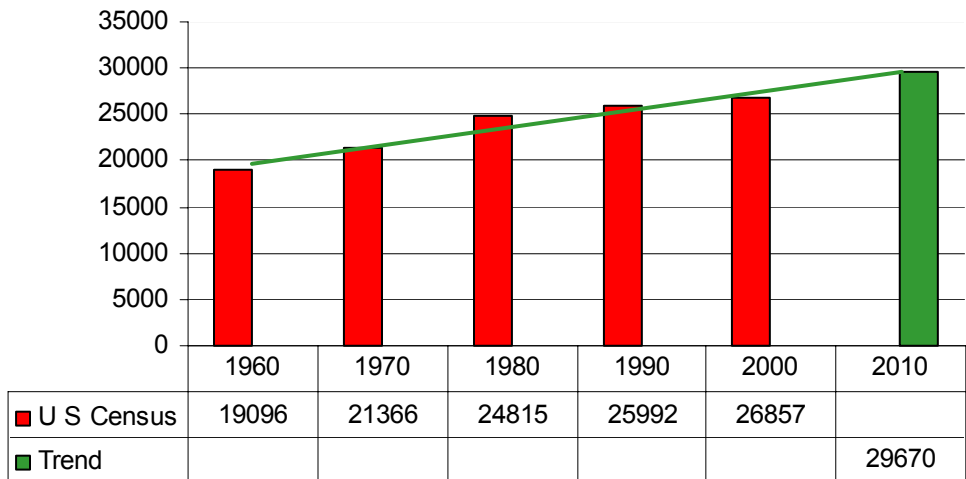
The population of the City of Millville has been one of steady and continual growth, particularly since its establishment as a housing and industrial center.

Population growth in the decade from 1960 to 1970 was 11.8% and an accelerated 16.1% from 1970 to 1980. Growth decreased to 4.7% over the decade of the 80's and to 3.3% in the 90's.

The 2000 Census of Population and Housing places the population of the City of Millville at 26,857.

Trend analysis, over the five decades, places year 2010 population at near to 30,000. However, if all proposed housing units are built, this trended estimate will be greatly exceeded.

Total Population 1960-2010
Millville, NJ



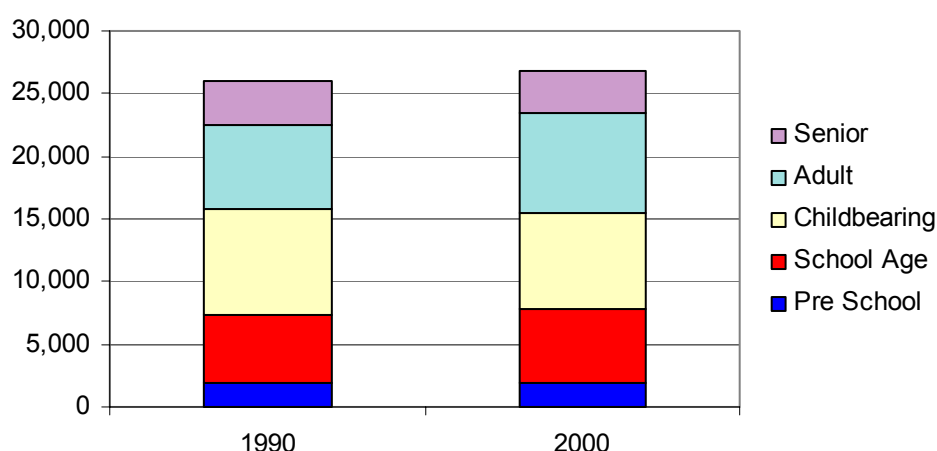
Population has continuously grown to a current level of near 27,000.

SOURCE: **U S Census**, General Characteristics of Population, New Jersey, 1960, 1970,1980, 1990, 2000

Population by Age Group



Population by Age Group from 1990 to 2000, in the city, shows a 5% decrease in Pre-school age group, and a significant increase of 12.3% in school age children. Childbearing age population declined by a significant 10%. Adult ages 40-65 evidenced a very significant 17.6% increase, while ages 65+ was stable. Overall population increased by a modest 3.3%



Population by Age Group: 1990 & 2000

		1990	2000	Change	% Change
65+	Seniors	3,479	3,460	-19	-0.55%
40-65	Adult	6,677	7,851	1,174	17.58%
19-39	Childbearing	8,519	7,666	-853	-10.01%
5-18	School Age K-12	5,339	5,999	660	12.36%
Under 5	Pre School	1,978	1,871	-107	-5.41%
	TOTAL	25,992	26,847	855	3.29%

The 10 year census period from 1990 to 2000 saw a 12.4 % increase in the combined number of school age children, ages 5-18, from 5,339 to 5,999.

That increase of 660, is about 47 students per grade level, or the equivalent of 2 classrooms.

As Percent of Population

	1990	2000
Seniors	13.4%	12.9%
Adult	25.7%	29.2%
Childbearing	32.8%	28.6%
School Age K-12	20.5%	22.3%
Pre School	7.6%	7.0%

District Birth Rates



The number of babies born to families who reside in the district is a significant factor effecting enrollment projections. Actual births and projections are presented here for review. **Birth Rates** have fluctuated between 387 and 421 per year over the 5 years. However the trend is to an increase.

Births are calculated, for year 2004. It is not yet available from NJ Dept of Health and is required for the projection. It is calculated using both average and trend for the last 5 years. The trend birth levels used in the projections for year 2004 is 426.

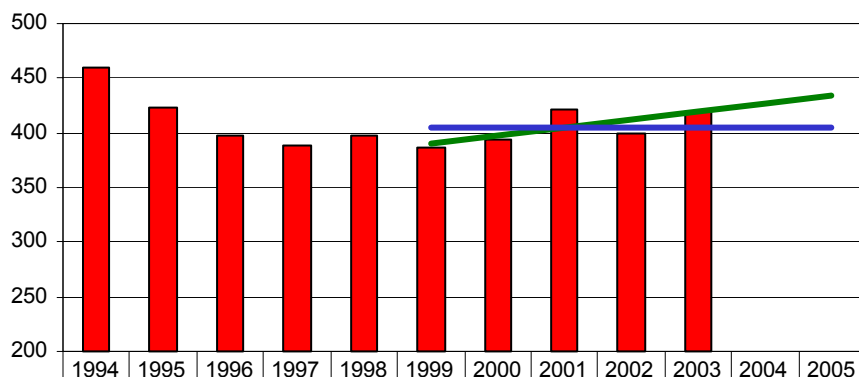
Birth Rates will begin to increase dramatically in a few years and should be monitored by the school district.

In the Cohort Survival projection, actual Live Births are used for years to 2003.

An average of 5 years and trend analysis is used to project possible Live Births for year 2004 which is not yet available.

The trended number is chosen as the best fit for Millville City.

City of Millville
Live Births



Births	460	424	398	388	398	387	393	421	400	420		
5 Yr Trend						390	397	404	411	419	426	433
5 Yr Avg						404	404	404	404	404	404	404

SOURCE: NJ Department of Health, Bureau of Health Statistics
www.state.nj.us/health/chs

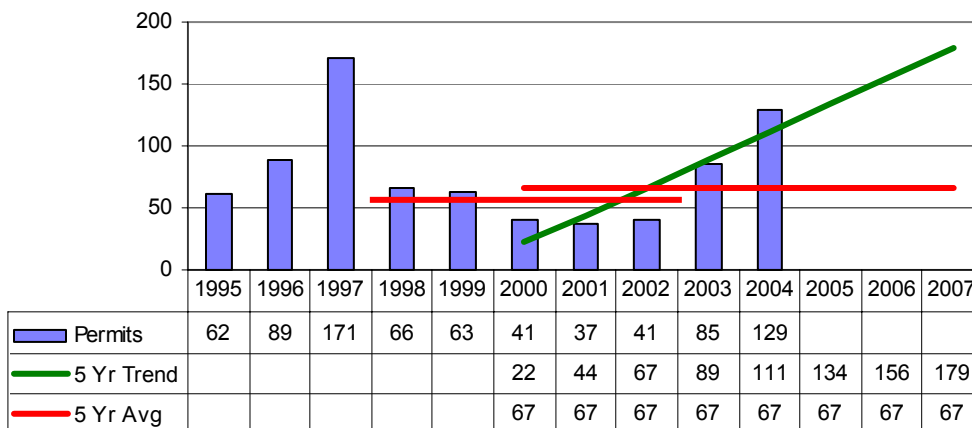
In the standard Cohort Survival method of projection, Births five years earlier are collated to the Kindergarten population to determine a Birth to Kindergarten Survival Ratio. A ratio greater than one indicates more children enrolled in Kindergarten than were born five years earlier. A ratio of less than 1 shows fewer enrolled. An **average** of this ratio for the last six years of enrollment history is used as the single ratio for the five years of the projection.

Housing Development History



Millville City averaged 50 residential building permits in the 5-year period from 1998-2002, with a prior peak of 171 permits in 1997. Since then permitting has grown to 129 units in 2004

City of Millville
Residential Building Permits



SOURCE: NJ Department of Labor & Industry www.wnjin.state.nj.us

Residential permitting in 2003 and 2004 shows a significant increase from a 1998-2002 5-year average of 50 units per year to 129 units in 2004. The recent 2000-2004 5-year average is 67 units

With the revision of Millville City's Comprehensive Plan, significant increases in residential development are anticipated.

New zoning has led to the approvals of nearly 1700 new residential units and submission of an additional 2500 for approval.

These 4,200 units, if realized, would lead to unprecedented population growth in Millville City.

Proposed New Housing



The 2004 level of permitting of near 130 units per year is anticipated to increase to an average of more than 400 units per year for the next 10 years. As enrollment projections are made, the question arises as to whether or not this trend will continue. Market conditions and current approval

levels are such that these levels are assured for at least the next five years of the projection. Five years is the limit of an enrollment projection acceptable to the NJ Department of Education.

In order to assess that trend, Planning Board approvals and preliminary submissions are reviewed, in particular for major subdivisions. The rate of building permitting is then compared to the magnitude of the number of lots approved for future construction.

Interviews were conducted with the Planning Director of the City of Millville, and all Community Impact Statements were reviewed for housing types, number of bedrooms and schedule of construction. The commu-

APPROVED:	# Units	This level of 4200 units is anticipated to be scheduled over 10 years of construction.
Forest Walk Estates	98	
Newcombtown Crossing	73	
Four Seasons at Millville	0	
Preserve at Holly Ridge	0	They include a mix of
The Villages at Chatfield	945	3 and 4-bedroom single family,
Riverfront Condominium	120	2 to 3-bedroom townhouses, and
Woods at Millville	41	1 to 3 bedroom apartments.
Pleasant Grove	25	988 units, or nearly 25%, are
Manor Estates	71	designated as age-restricted.
Sherwood Forest	58	
Harris-Truxton	35	
Quality Management	21	
Prestige Homes	14	
Cedarwood Village East	27	
Carmel Estates	47	
Liberty Village	96	
	1671	
PLANNED:		
Villages at Millville	501	
Union Lake PRD	712	
Flowertime	1140	
Newcombtown Estates	126	
	2479	

Modification of the recommended enrollment projection method is required.

As a result of unprecedented growth, the prescribed, standard Cohort Survival method of projection will be made and to that will be added the impact of accelerated new and resale housing.

New Housing Developments

Annual Schedule of Build-Out



In order to make projections for students from new housing, a schedule of permitting, construction and occupancy must be made. As part of the Millville approval process, all developments must submit a Development Impact Statement. Included in that statement is the developers anticipated schedule of building.

What is not always known is the date of final subdivision approval. For this projection all proposed developments were assumed approved in 2005 or 2006 after which the developers own schedule was used. All 4200 units were scheduled over each of the applicable years and in accordance to their housing type and number of bedrooms. A sample of the yearly schedule for 2006 is as follows.

Residential Development & Sample Distribution by Year

MILLVILLE CITY: Approved and Planned Housing

2006

			3 Bdrm	4 Bdrm	2 Bdrm	3 Bdrm	1-2 Bm	2-3 Bm
			SF	SF	Th	Th	Apt	Adult
# Units								
Approved:	Forest Walk Estates	98	12	12				
	Newcombtown Crossing	73	12	12				
	Four Seasons at Millville	0						
	The Preserve at Holly Ridge	0						
	The Villages at Chatfield	945	18	18	18	18	48	
	Riverfront Condominium	120					120	
	Woods at Millville	41						
	Pleasant Grove	25						
	Manor Estates	71						
	Sherwood Forest	58						
	Harris-Truxton	35	17	18				
	Quality Management	21						
	Prestige Homes	14						
	Cedarwood Village East	27						
	Carmel Estates	47	20	20				
	Liberty Village	96						46
	1671		79	80	18	18	168	46
Planned	PLANNED:							
	Villages at Millville	501		37	60			
	Union Lake PRD	712		64				80
	FlowerTime	1140						100
	Newcombtown Estates	126	24	24				
2479			24	125	60			180
COMBINED: Approved + Planned			4150					
			103	205	78	18	168	226

A 10-year schedule of possible development was made after review of the required Impact Statements.

New Housing Developments

Housing Mix by Year



Each of the annual schedules by development, unit type and number of bedrooms were summed to obtain an overall schedule, particularly for the five years of the projection.

Of the 4150 units under study, 2689 are anticipated for permitting during the period of projection.

816 units (30%) are Age-restricted housing.

1058 units (40%) will be Single Family.

500 units (18.5%) will be Townhouses.

315 (11.5%) units are Apartments or Flats

The age-restricted housing will have an insignificant impact on enrollment, except that some buyers of this housing type, as well as all other types, will be selling existing housing in the city. That existing housing will be occupied by younger couples of child bearing age.

Housing is anticipated to be permitted at between 245 and 798 units per year, or an average of 537 per year, during the period 2005-2009.

Housing Mix by Year

	3 Bdrm SF	4 Bdrm SF	2 Bdrm Th	3 Bdrm Th	1-2 Bm Apt	2-3 Bm Adult	
2004	63	64	0	0	0	0	127
2005	95	100	0	0	0	50	245
2006	103	205	78	18	168	226	798
2007	66	167	98	38	48	180	597
2008	35	137	96	38	48	180	534
2009	24	126	96	38	51	180	515
	323	735	368	132	315	816	2689
2010	18	82	96	38	45	172	
Balance	235	235	168	110	135	0	
	253	317	264	148	180	172	1334
							6839

Cohort Survival Methodology

of Enrollment Projection



Cohort Survival is the name given to the method of projecting enrollments which is most often recommended by the New Jersey Department of Education. Cohort Survival projections are based on historic enrollment and birth data in the individual school district and incorporate six years of historical data. They are considered very reliable in districts where trends are expected to continue, without significant change in housing or birth rates.

“Cohort” is the name given to the common groups of children originally born in a given year and progressing, together, through the school system, one grade level to the next. Survival ratios refer to the number of students from one year and grade level who “survive to” or enter the next grade level the following year.

For example, in the sample partial table in the side bar, historic enrollments show 12 students in a First Grade in year 1994-95, following a 10 student Kindergarten in year 1993-94. This yields a Kindergarten to First Grade survival ratio of 1.20 (or $12 \div 10$).

Similar calculations are made for “survivors” from Births Five Years Earlier to Kindergarten, and for each and every grade level transition in each and every year of historical enrollments which are used. In general, six years of historic data will yield five Survival Ratios for each grade level change, Birth to K, K to 1, 1 to 2, etc. The Average Survival Ratio is then calculated for each grade level change.

Live Births data is also important. Official data is currently available from the NJ Department of Health only through 2003. Birth data through year 2004 is utilized in the projection. Hence, year 2004 is estimated using trend analysis. It is used in the projections.

The projections use the 2004-05 year enrollments as a base year. The Averaged Cohort Survival Ratios are applied to those base year enrollments and to the actual and estimated births.

Finally, the individual grade level enrollment projections are summed across each year to determine district-wide enrollments in that year.

Historic Enrollments

	B-5Yr	K	1	2
		K:1	1:2	
1993		10	10	16
		1.20	0.90	
1994	54	0.19	10	12
		1.80	1.25	
1995	48	0.35	17	18
		1.12	0.94	
1996	28	0.39	11	19
		1.27	0.89	
1997	36	0.28	10	14
				17

Enrollment projections have been made using the Cohort Survival method... the recommended method of the NJ Department of Education.(see Appendix)

Students from new housing will be added to that baseline projection to complete the district projection.

Historic and Projected School Enrollments-Sending Districts Cohort Survival Method Modification

The NJ Department of Education provides a standard worksheet in Microsoft Excel format for use in making enrollment projections. This format was used in making projections for the four sending districts to determine their 8th grade enrollments in period of the projection.

These single page projections are included in the Appendix 2-5.

Their historic and projected 8th grades were combined as follows;

Grade 8 Summary						
		Commerl	Lawrence	Maur Riv	Woodbine	Combined
Historic	1999 - 00	48	51	58	15	172
	2000 - 01	58	28	43	15	144
	2001 - 02	72	44	44	12	172
	2002 - 03	64	37	40	12	153
	2003 - 04	59	44	55	14	172
	2004 - 05	69	65	48	15	197
Projected	2005 - 06	72	57	49	12	191
	2006 - 07	73	58	41	12	183
	2007 - 08	66	65	47	12	190
	2008 - 09	67	76	43	12	198
	2009 - 10	68	60	39	12	179

The standard format of projection was modified to include data for the 8th grades from the high school level sending districts

The column of Combined 8th Grades is added to the standard formatted Excel spreadsheet for the Millville City projection. This modified projection is found in the Appendix 1.

This modification allows for a more accurate 8th grade to 9th grade survival ratio

Historical and Projected School Enrollments

Standard Cohort Survival Method Findings

NOT FINAL PROJECTION

K-12 General Education

	K	Gr 1	Gr 2	Gr 3	Gr 4	Gr 5	Gr 6	Gr 7	Gr 8	Gr 9	Gr 10	Gr 11	Gr 12	Gen'l Ed	
Historic	1999 - 00	378	435	362	367	367	365	390	367	403	541	501	461	422	5359
	2000 - 01	365	434	387	353	365	358	359	394	399	567	492	477	398	5348
	2001 - 02	380	368	367	374	348	374	354	382	436	538	532	451	446	5350
	2002 - 03	351	385	353	374	400	364	375	376	416	581	515	476	428	5394
	2003 - 04	387	374	332	353	369	409	351	371	415	583	550	432	446	5372
2004 - 05	412	409	332	330	341	356	383	351	410	579	549	500	419	5371	
Projected	2005 - 06	365	436	364	329	330	343	347	393	386	600	543	495	465	5397
	2006 - 07	391	387	388	360	329	332	335	356	431	570	563	490	461	5394
	2007 - 08	372	414	344	384	360	331	324	343	391	607	535	508	456	5371
	2008 - 09	391	394	368	341	384	363	323	332	377	574	570	483	473	5373
	2009 - 10	396	413	350	365	341	387	354	331	365	568	539	514	449	5373

Self Contained Special Education

	Pre-K SCSE	Gr K-5 SCSE	Gr 6-8 SCSE	Gr 9-12 SCSE	SCSE Total
Historic	1999 - 00		81	43	180
	2000 - 01		75	40	176
	2001 - 02	10	78	41	173
	2002 - 03		69	37	167
	2003 - 04	13	63	34	154
	2004 - 05	10	64	34	152
Projected	2005 - 06	16	70	37	175
	2006 - 07	15	70	37	174
	2007 - 08	15	71	35	173
	2008 - 09	15	72	34	173
	2009 - 10	15	72	35	174
	0.037	0.013	0.006	0.0	0.032
	B:PKSCSE		of K-12 Total Enrollment		

Pre Kindergarten

		Births 3 Yrs Ago	Births 4 Yrs Ago	Pre K 3 Yr Olds	Pre K 4 Yr Olds	Pre K Total		
Historic	1999 - 00	398	424		309	309		
	2000 - 01	388	398		334	334		
	2001 - 02	398	388		371	371		
	2002 - 03	387	398		457	457		
	2003 - 04	393	387		506	506		
	2004 - 05	421	393	0.9026	380	1.0025	394	774
Projected	2005 - 06	400	421	1.0125	405	1.033	435	840
	2006 - 07	411	400		416		413	830
	2007 - 08	415	411		420		425	845
	2008 - 09	419	415		424		429	853
	2009 - 10	419	419		424		433	857

District Summary

		Pre K Total	SCSE Total	Gen'l Educ	District Total
Historic	1999 - 00	309	180	5359	5848
	2000 - 01	334	176	5348	5858
	2001 - 02	371	173	5350	5894
	2002 - 03	457	167	5394	6018
	2003 - 04	506	154	5372	6032
	2004 - 05	774	152	5371	6297
Projected	2005 - 06	840	175	5397	6412
	2006 - 07	830	174	5394	6398
	2007 - 08	845	173	5371	6390
	2008 - 09	853	173	5373	6399
	2009 - 10	857	174	5373	6404

These findings would be realistic if all factors impacting enrollment were to remain the same.

In fact, they will not. And this is **not the final projection**. It is a base on which the final projection will be built.

As has been exhibited, more than 4150 units of new housing are planned over the next ten years, and 2689 of them will be built in the five year period of the projection.

The impact of these new units, on enrollment, will be studied and added to this base projection



Public School Age Children Multipliers and Comparisons For Students from New Housing

The projection of students from new housing are made using Multipliers usually derived from the U.S. Census. The specific multipliers used in this study are preliminary findings from a recognized national expert. They were nearly identical to the results obtained by this consultant when extrapolated from the 2000 U. S. Census 5% Public Use Microdata Sample.

Neither this consultant nor the recognized national expert have any method to separate age-restricted housing from the other types in the census data. A definitive study in Massachusetts showed age-restricted housing as a percentage of all new housing there, between 1995 and 2000, to be 18%, and they claimed to be the national leaders in this housing type. For purposes of this study, and in New Jersey which also leads in this housing type, the number of units in each type were reduced by 15% to obtain a more accurate multiplier. They are shown below.

Also shown are the multipliers suggested by the local planning department. They are very close with the exception of the apartments or flats. In the past census, rental and condominium data were lumped together. The better .40 multiplier is for condominiums only from data available for the first time in the 2000 census. All planned apartments in Millville are "for sale" condominiums so this multiplier is used.

Multipliers in an unpublished report by a national expert are nearly identical to the Consultants' and those used by the City of Millville.

Housing Multipliers: Children by Unit Type
Public School Age

	3 Bdrm SF	4 Bdrm SF	2 Bdrm Th	3 Bdrm Th	1-2 Bm Apt	2-3 Bm Adult
Millville Planning	0.59	1.04	0.13	0.41	0.25	0.00
Expert 2000 Adj	0.69	1.16	0.18	0.55	0.40	0.00

Acknowledging the slight differences in the multipliers, a quick review of their application evidences only a 25 student difference over the five year period of the projections. The Millville Planning multipliers result in a projection of 1145 students and the National Expert multipliers result in 1170 students from new housing over the 5 year period of the projection.

For purposes of illustration this difference is about 2 students per grade level.

Overview of School Enrollments From New Housing and from Local Resales

The application of the housing type multipliers from the previous page, to the mix of housing for the period 2005-09, as shown on page 9, results in the following yearly estimates of additional students.

Multiplier Comparison Children from New Housing

	2005	2006	2007	2008	2009	Total
Millville Planning	161	336	254	205	189	1145
Expert 2000 Adj	155	353	258	210	194	1170

The construction of new homes in Millville will cause some local residents to buy new. An assumption of 15% of all new sales in Millville to be by local residents would be realistic. Of the 2,689 units to be constructed/sold in the 5 year period, 403 would be by Millville residents.

That means 403 existing units will be available for resale that would not otherwise be for sale except for the anticipated acceleration in new housing. Occupancy by school age children of this existing housing would be in line with the levels exhibited by Millville's existing statistics.

U.S. Census 2000 shows Millville with 10,043 units of occupied housing and 5,339 children between the ages of 5 and 18. That is a multiplier of .532 school age children per occupied unit. Application of this multiplier to the 403 resale units shows 214 additional students from this existing housing.

These additional 214 grades K-12 students are distributed over the 5 years of the projection in proportion to the sales of new housing to exhibit the annual increases in new students totaling 1,384 over the 5 years.

By the end of the five year period of the projection, 1170 K-12 students will come from new housing and an additional 214 from resale of current housing.

Pre-K 3 and 4 year olds from new housing will total an additional 276 students at the end of 5 years.

Total enrollment from new and resale housing, Pre-K to grade 12, will be 1660 students

Children from New Housing and Resales

	2005	2006	2007	2008	2009	Total
New Housing	155	353	258	210	194	1170
Resale Housing	21	64	43	43	43	214
	176	417	301	253	237	1384



Projected School Enrollments New and Resale Housing

K-12 General Education

	K	Gr 1	Gr 2	Gr 3	Gr 4	Gr 5	Gr 6	Gr 7	Gr 8	Gr 9	Gr 10	Gr 11	Gr 12	Gen'l Ed
Historic	1999 - 00													
	2000 - 01													
	2001 - 02													
	2002 - 03													
	2003 - 04													
	2004 - 05													
Projected	2005 - 06	13	13	13	13	13	13	13	13	13	13	13	15	171
	2006 - 07	44	44	44	44	44	44	44	44	44	44	44	48	576
	2007 - 08	67	67	67	67	67	67	67	67	67	67	67	64	868
	2008 - 09	86	86	86	86	86	86	86	86	86	86	86	86	1114
	2009 - 10	103	103	103	103	103	103	103	103	103	103	103	108	1344

Self Contained Special Education

	Births 3 & 4 Yrs ago	Pre-K SCSE 0.037 of K	Gr K-5 SCSE 0.013 of K-12	Gr 6-8 SCSE 0.006	Gr 9-12 SCSE 0.010	SCSE Total
Historic	1999 - 00					
	2000 - 01					
	2001 - 02					
	2002 - 03					
	2003 - 04					
	2004 - 05					
Projected	2005 - 06	0	2	1	2	5
	2006 - 07	2	6	3	5	16
	2007 - 08	3	10	5	8	26
	2008 - 09	3	14	7	10	34
	2009 - 10	3	16	9	12	40

Pre Kindergarten

	Births 3 Yrs Ago	Births 4 Yrs Ago	Pre K 3 Yr Olds	Pre K 4 Yr Olds	Pre K Total
Historic	1999 - 00				
	2000 - 01				
	2001 - 02				
	2002 - 03				
	2003 - 04				
	2004 - 05				
Projected	2005 - 06		17	17	34
	2006 - 07		60	60	120
	2007 - 08		90	90	180
	2008 - 09		115	115	230
	2009 - 10		138	138	276

District Summary

	Pre K Total	SCSE Total	Gen'l Educ	District Total
Historic	1999 - 00			
	2000 - 01			
	2001 - 02			
	2002 - 03			
	2003 - 04			
	2004 - 05			
Projected	2005 - 06	34	171	210
	2006 - 07	120	576	712
	2007 - 08	180	868	1074
	2008 - 09	230	1114	1378
	2009 - 10	276	1344	1660

In addition to the 1,384 students projected to be enrolled from new and resale housing, are 276 three and four year olds in the pre-school programs.

The cumulative distribution of these 1,660 students across grade levels and years is shown in this table.



Projected School Enrollments

Cohort Survival plus New and Resale Housing

K-12 General Education

	K	Gr 1	Gr 2	Gr 3	Gr 4	Gr 5	Gr 6	Gr 7	Gr 8	Gr 9	Gr 10	Gr 11	Gr 12	Gen'l Ed	
Historic	1999 - 00	378	435	362	367	367	365	390	367	403	541	501	461	422	5359
	2000 - 01	365	434	387	353	365	358	359	394	399	567	492	477	398	5348
	2001 - 02	380	368	367	374	348	374	354	382	436	538	532	451	446	5350
	2002 - 03	351	385	353	374	400	364	375	376	416	581	515	476	428	5394
	2003 - 04	387	374	332	353	369	409	351	371	415	583	550	432	446	5372
	2004 - 05	412	409	332	330	341	356	383	351	410	579	549	500	419	5371
Projected	2005 - 06	378	449	377	342	343	356	360	406	399	613	556	508	480	5568
	2006 - 07	435	431	432	404	373	376	379	400	475	614	607	534	509	5970
	2007 - 08	439	481	411	451	427	398	391	410	458	674	602	575	520	6239
	2008 - 09	477	480	454	427	470	449	409	418	463	660	656	569	559	6487
	2009 - 10	499	516	453	468	444	490	457	434	468	671	642	617	557	6717

Self Contained Special Education

	Births 3 & 4 Yrs ago	Pre-K SCSE	Gr K-5 SCSE	Gr 6-8 SCSE	Gr 9-12 SCSE	SCSE Total
Historic	1999 - 00	0	81	43	56	180
	2000 - 01	10	75	40	51	176
	2001 - 02	0	78	41	54	173
	2002 - 03	14	69	37	47	167
	2003 - 04	13	63	34	44	154
	2004 - 05	10	64	34	44	152
Projected	2005 - 06	16	72	38	54	180
	2006 - 07	17	76	41	57	191
	2007 - 08	18	81	40	60	200
	2008 - 09	18	86	41	62	207
	2009 - 10	18	88	44	64	214

Pre Kindergarten

	Births 3 Yrs Ago	Births 4 Yrs Ago	Pre K 3 Yr Olds	Pre K 4 Yr Olds	Pre K Total
Historic	1999 - 00		0	309	309
	2000 - 01		0	334	334
	2001 - 02		0	371	371
	2002 - 03		0	457	457
	2003 - 04		0	506	506
	2004 - 05		380	394	774
Projected	2005 - 06		422	452	874
	2006 - 07		476	473	950
	2007 - 08		510	515	1025
	2008 - 09		539	544	1083
	2009 - 10		562	571	1133

District Summary

	Pre K Total	SCSE Total	Gen'l Educ	District Total
Historic	1999 - 00	309	180	5359
	2000 - 01	334	176	5348
	2001 - 02	371	173	5350
	2002 - 03	457	167	5394
	2003 - 04	506	154	5372
	2004 - 05	774	152	5371
Projected	2005 - 06	874	180	5568
	2006 - 07	950	191	5970
	2007 - 08	1025	200	6239
	2008 - 09	1083	207	6487
	2009 - 10	1133	214	6717

This table shows the historic enrollments and the combined projection of enrollments from the base cohort survival projection plus the projection of students from new housing and from resale housing.

This is the recommended summary projection which indicates that the district will grow from 6297 students to 8064 students in school year 2009-10.



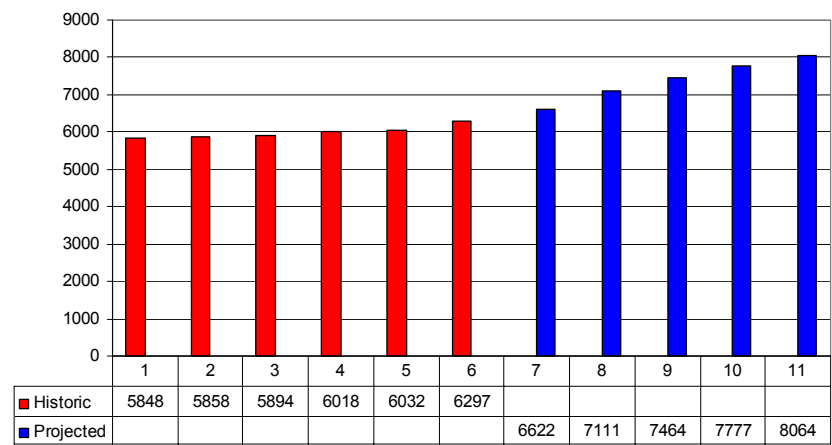
Historical and Projected District Wide School Enrollments

Graphic Presentation



District wide enrollments grew by 184 students or 3.1% over the last five years. Enrollments are projected to grow by 1767 students or 28% over the next five years from a current level of 6297 students to 8064 students.

City of Millville Enrollments PreK-12
Actual & Projected

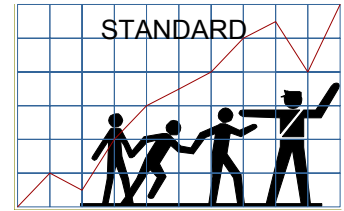


City of Millville schools enrollments will increase to 8064 students by 2010 and to an estimated 8900 students by 2015.

While not a part of this study, and projections beyond five years are of no interest to the NJ DOE, the future enrollment can be estimated. The additional 1334 units to be built after this 5-year period will add 648 grades K-12 students from new housing, 80 Pre-K students from new housing and 106 students from existing housing, for a total of an additional 834 students. The district can, if market conditions allow all planned units to be built, anticipate a future enrollment of 8900 student around school year 2015.

Enrollment Projections

Pre K: 3 and 4-Year olds



The 3 and 4 year olds Pre Kindergarten enrollment totaled 810 students at the end of school in June 05 and started September 2005 with 585 students. Of these 255 children, primarily 3-year olds, are placed with outside, non-district providers.

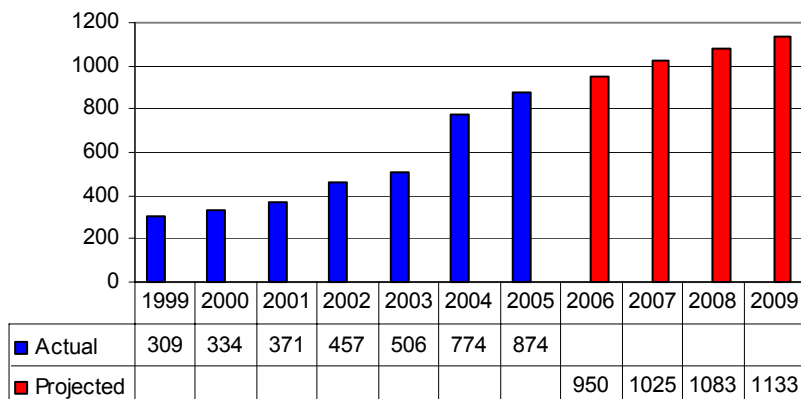
For this Pre-K projection, June data was used for school year 2004-05 and September 2005 for school year 2005-06 to calculate Survival Ratios from births 3 and 4 years earlier. The Birth:3 year ratio is 1.013 and the Birth:4 year ratio is 1.033. These multipliers were used to project students using the standard methodology. To that was added the projected 276 students from new and resale housing. For this projection, multipliers for children age 0-4 were used from the unpublished study from the national expert, and were applied to the number of units.

Of these 1133 students, it is expected that about 255 will remain with sub-contracted providers and about 878 will be served in district facilities. Projections to 2015 add an additional 80 students to Pre-K, for a total then of 1213 students in the 3 and 4 year old program..

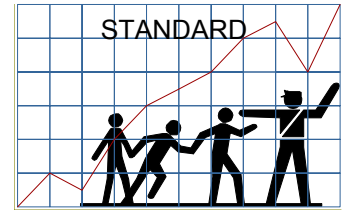
Pre-K enrollment will increase from a current level of 774 students to 1133 students, with 255, primarily 3-year olds, served by outside providers.

		Pre K 3 Yr Olds	Pre K 4 Yr Olds	Pre K Total
Historic	1999 - 00			309
	2000 - 01			334
	2001 - 02			371
	2002 - 03			457
	2003 - 04			506
	2004 - 05	380	394	774
Projected	2005 - 06	422	452	874
	2006 - 07	476	473	950
	2007 - 08	510	515	1025
	2008 - 09	539	544	1083
	2009 - 10	562	571	1133

Pre-K Enrollment



Enrollment Projections Grades K to 5

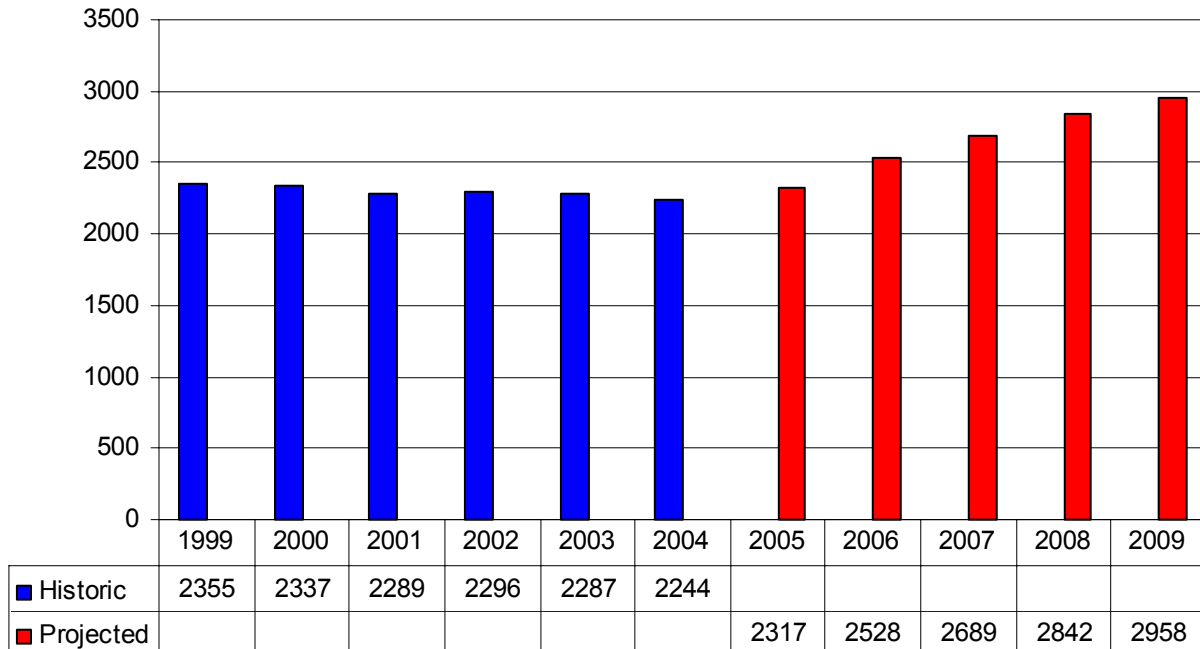


K-5 Elementary Schools

									Gr K-5
		K	Gr 1	Gr 2	Gr 3	Gr 4	Gr 5	SCSE	Total
Historic	1999 - 00	378	435	362	367	367	365	81	2355
	2000 - 01	365	434	387	353	365	358	75	2337
	2001 - 02	380	368	367	374	348	374	78	2289
	2002 - 03	351	385	353	374	400	364	69	2296
	2003 - 04	387	374	332	353	369	409	63	2287
	2004 - 05	412	409	332	330	341	356	64	2244
Projected	2005 - 06	378	449	377	342	343	356	72	2317
	2006 - 07	435	431	432	404	373	376	76	2528
	2007 - 08	439	481	411	451	427	398	81	2689
	2008 - 09	477	480	454	427	470	449	86	2842
	2009 - 10	499	516	453	468	444	490	88	2958

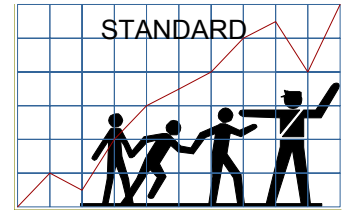
Elementary School enrollments will increase by nearly 32% or 714 students from a 2004-05 level of 2244 students to nearly 3000 students by school year 2009-10.

K-5 Enrollments



Enrollment Projections Grades 6 & 7

Standard Cohort Survival Methodology

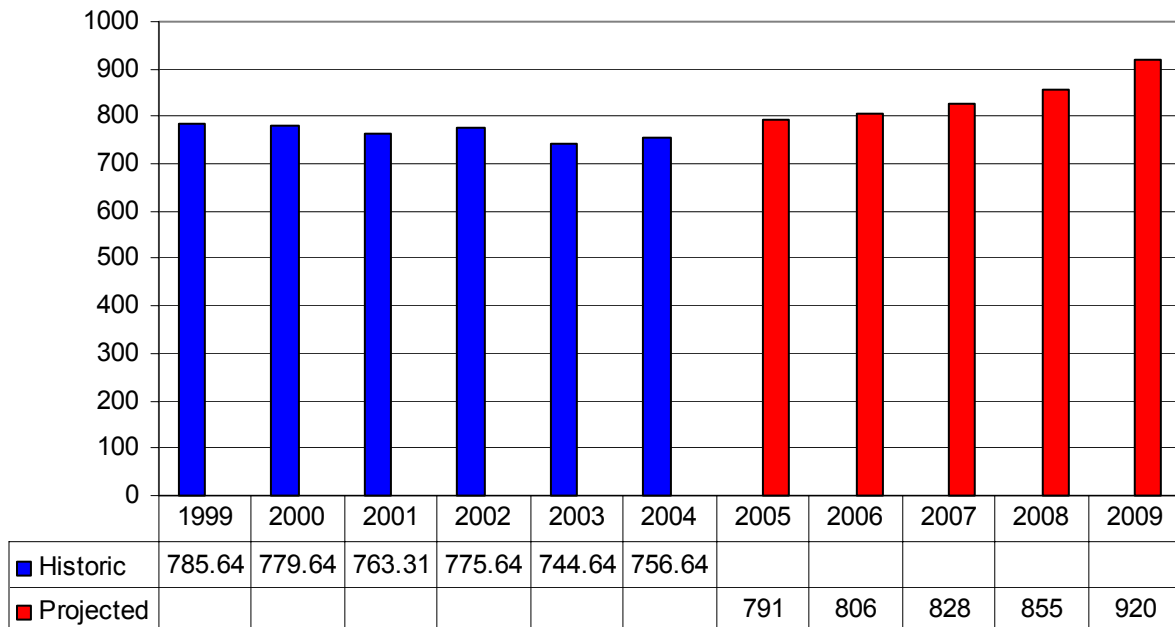


Gr 6 & 7 Middle School

		Gr 6	Gr 7	SCSE	Gr 6-7 Total
Historic	1999 - 00	390	367	29	786
	2000 - 01	359	394	27	780
	2001 - 02	354	382	27	763
	2002 - 03	375	376	25	776
	2003 - 04	351	371	23	745
	2004 - 05	383	351	23	757
Projected	2005 - 06	360	406	25	791
	2006 - 07	379	400	27	806
	2007 - 08	391	410	27	828
	2008 - 09	409	418	27	855
	2009 - 10	457	434	29	920

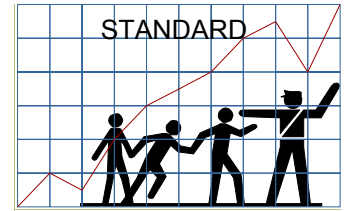
Grades 6 and 7 Middle School enrollments will see a 163 student increase from 757 students to 920 students, a 21% increase over five years.

Gr 6 & 7 Enrollment



Enrollment Projections Grades 8 & 9

Standard Cohort Survival Methodology

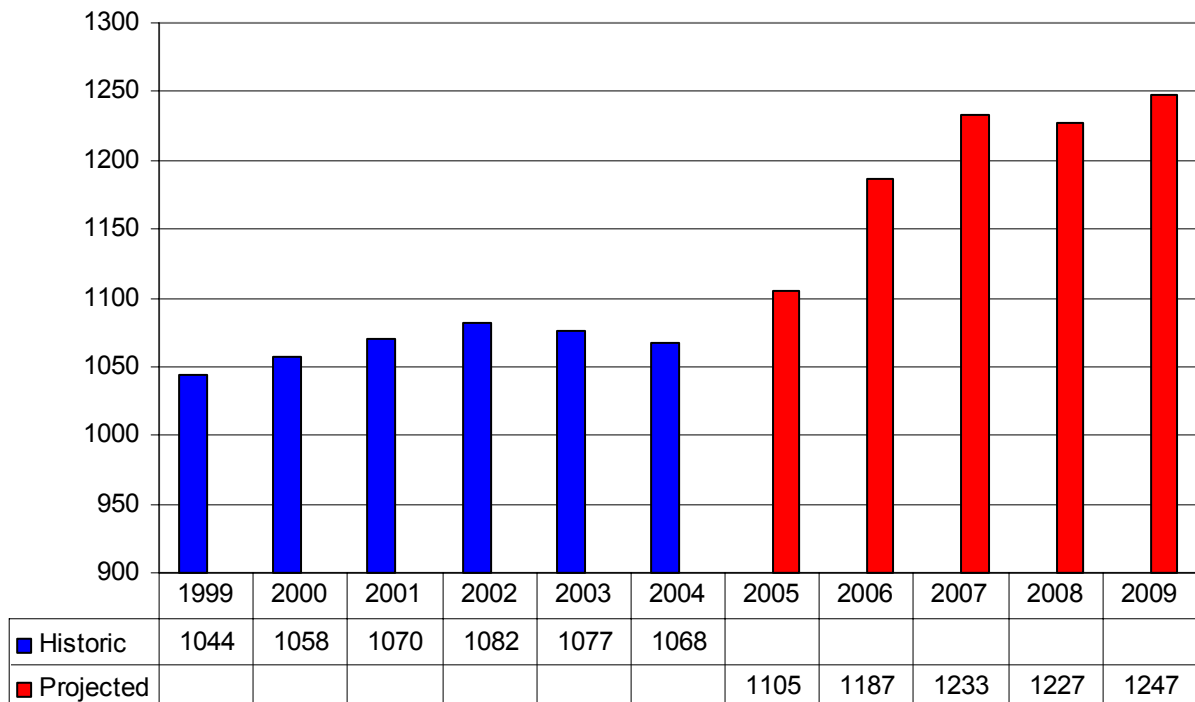


Gr 8 & 9 Memorial High School

		Gr 8	Gr 9	SCSE	Gr 8-9 Total
Historic	1999 - 00	403	541	100	1044
	2000 - 01	399	567	92	1058
	2001 - 02	436	538	96	1070
	2002 - 03	416	581	85	1082
	2003 - 04	415	583	79	1077
	2004 - 05	410	579	79	1068
Projected	2005 - 06	399	613	93	1105
	2006 - 07	475	614	98	1187
	2007 - 08	458	674	101	1233
	2008 - 09	463	660	104	1227
	2009 - 10	468	671	108	1247

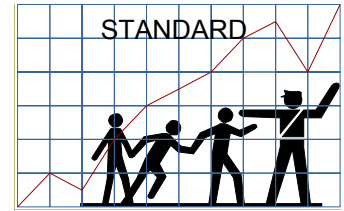
Grades 8 & 9 Memorial High School enrollments will see a 179 student increase from 1068 students to 1247 students, a 17% increase over five years.

Gr 8 & 9 Enrollments



Enrollment Projections Grades 10 to 12

Standard Cohort Survival Methodology

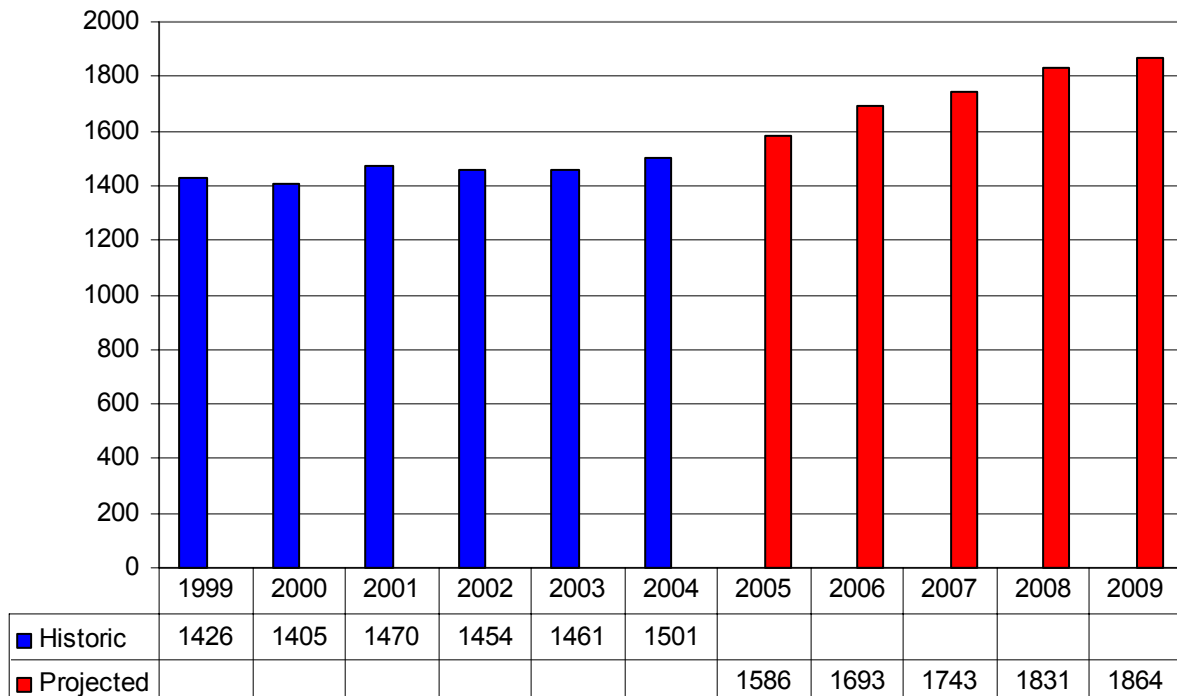


Gr 10-12 Millville SeniorSchool

		Gr 10-12				
		Gr 10	Gr 11	Gr 12	SCSE	Total
Historic	1999 - 00	501	461	422	42	1426
	2000 - 01	492	477	398	38	1405
	2001 - 02	532	451	446	41	1470
	2002 - 03	515	476	428	35	1454
	2003 - 04	550	432	446	33	1461
	2004 - 05	549	500	419	33	1501
Projected	2005 - 06	556	508	480	41	1586
	2006 - 07	607	534	509	43	1693
	2007 - 08	602	575	520	45	1743
	2008 - 09	656	569	559	47	1831
	2009 - 10	642	617	557	48	1864

Grades 10-12 Senior High School enrollments will see a 363 student increase from 1501 students to 1864 students, a 24% increase over five years.

Gr 10-12 Enrollments



Appendix: NJ DOE Cohort Survival Worksheets

Appendix 1 - **City of Millville**

5 Year Enrollment Projections by Grade Level

Standard Cohort Survival Methodology as
recommended by the New Jersey
Department of Education...not recommended
by Consultant

Appendix 2 - **Commercial Township**

5 Year Enrollment Projections by Grade Level

Standard Cohort Survival Methodology

Appendix 3 - **Lawrence Township**

5 Year Enrollment Projections by Grade Level

Standard Cohort Survival Methodology

Appendix 4 - **Maurice River Township**

5 Year Enrollment Projections by Grade Level

Standard Cohort Survival Methodology

Appendix 5 - **Woodbine Borough**

5 Year Enrollment Projections by Grade Level

Standard Cohort Survival Methodology





Appendix 2

DISTRICT NAME		COUNTY		DIRECTIONS																
Commercial Township		Cumberland																		
Complete and submit this form to the DOE only if the historic enrollments or births in the 2005 LRFP website cohort-survival projection are not considered to be accurate and do not produce viable projections.																				
Special education (SCSE) only pertains to self-contained students and should be excluded from the general education grade level totals.																				
Birth and enrollment data should be entered in all red outlined cells.																				
After completion of this form, entered proposed projections into the LRFP website. Any of the last three projection years can be selected. All proposed grade level projections must be based on the same projection year.																				
Highlight in red enrollment or birth numbers that differ from those provided on the LRFP website and explain the reason for the deviation below.																				
LRFP WEBSITE FALL REPORT AND BIRTH DATA ISSUES:																				
<i>"g" = survival rate</i>																				
School Year	K	1st	2nd	3rd	4th	5th	K-5 Subt.	PK	PK-5 Total	6-8 Subt.	6-8 Total	9th	10th	11th	12th	9-12 Subt.	9-12 Total	PK Subt.	PK-12 Total	
1995-00	80	78	67	63	64	68	426	48	474	426	48	426	48	474	426	48	474	426	48	474
2000-01	84	72	73	73	73	64	426	37	463	426	37	463	37	463	426	37	463	426	37	463
2001-02	77	64	64	74	72	79	427	11	438	427	11	438	11	438	427	11	438	427	11	438
2002-03	50	69	81	63	62	69	422	35	457	422	35	457	35	457	422	35	457	422	35	457
2003-04	49	69	67	74	62	69	411	32	443	411	32	443	32	443	411	32	443	411	32	443
2004-05	70	85	75	63	65	65	427	13	440	427	13	440	13	440	427	13	440	427	13	440
Average Survival Rate	1.118	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.991
PROJECTIONS																				
2005-06	55	61	84	71	68	66	420	29	450	420	29	450	29	450	420	29	450	420	29	450
2006-07	73	82	61	80	70	72	433	30	463	433	30	463	30	463	433	30	463	433	30	463
2007-08	49	55	81	58	79	71	418	29	447	418	29	447	29	447	418	29	447	418	29	447
2008-09	66	74	54	77	57	84	419	29	448	419	29	448	29	448	419	29	448	419	29	448
2009-10	58	65	73	52	76	61	408	28	437	408	28	437	28	437	408	28	437	408	28	437
Change # Students							-19		-3	-4%		-19		-3	-4%		-19		-3	-4%
Change % Students							-1%		-1%			-1%		-1%			-1%		-1%	
CERTIFICATION: (complete one)																				
The above information is prepared and certified by the district.																				
District Representative Name: _____																				
Title: _____																				
Signature: _____																				
The above information is prepared and certified by a qualified demographer.																				
Firm Name: Sundance Associates 117 Orienvale Ct. Cherry Hill NJ 08034																				
Name: George B. Sundell Tel 856-755-0174 Email: GSundell@comcast.net																				
Signature: _____ Date: _____																				



Cohort-Survival Enrollment Projection Worksheet

Cohort-Survival Enrollment Projection Worksheet

DISTRICT NAME: **Lawrence Township**

Cumberland

DIRECTIONS: Complete and submit this form to the DOE only if the historic enrollment or births in the 2005 LRFP website cohort-survival projection are not considered to be accurate *and* do not produce viable projections.

The historic enrollments are based on the Fall Reports. The birth data is from the New Jersey Department of Vital Statistics.

Special education (SCSE) only pertains to self-contained students and should be excluded from the general education grade level totals.

Birth and enrollment data should be entered in all **red** outlined cells.

after completion of this form, entered proposed projections into the LRP website. Any of the last three projection years can be selected. All proposed grade level projections must be based on the same projection year.

-Highlight in red enrollment or birth numbers that differ from those provided on the LRF website and explain the reason for the deviation below.

**LRFPI WEBSITE FALL
REPORT AND BIRTH
DATA ISSUES:**

 ${}^N S^N = \text{survival rate}$ [illegible][illegible]

The above information is prepared and certified by the district.

(complete one)

District Representative Name:

Title:

Signature: _____

The above information is prepared and certified by a qualified demographer.

Firm Name: Sundance Associates 147 Avenue A Room: Hill N11 08024

Firm Name:	Sundance Associates 117 Greenvale Ct. Glenview IL 60044
Name:	George B Sundell Tel 856-755-0174 Email: GSundell1@comcast.net

Signature: Renee B. Small Date: August 18, 2005





Appendix 4

DISTRICT NAME		COUNTY		DIRECTIONS																				
Maurice River		Cumberland		Complete and submit this form to the DOE only if the historic enrollments or births in the 2005 LRFP website cohort survival projection are not considered to be accurate and do not produce viable projections.																				
The historic enrollments are based on the Fall Reports. The birth data is from the New Jersey Department of Vital Statistics.																								
Special education (SCSE) only pertains to self-contained students and should be excluded from the general education grade level totals.																								
Birth and enrollment data should be entered in all red outlined cells.																								
After completion of this form, entered proposed projections into the LRFP website. Any of the last three projection years can be selected. All proposed grade level projections must be based on the same projection year.																								
Highlight in red enrollment or birth numbers that differ from those provided on the LRFP website and explain the reason for the deviation below.																								
LRFP WEBSITE FALL REPORT AND BIRTH DATA ISSUES:																								
"Gr" = survival rate																								
School Year	K	1st	2nd	3rd	4th	5th	K-5 Subt.	SCSE Total	PK 3 yrs.	PK 4 yrs.	PK Total	6th	7th	8th	9th	10th	11th	12th	9-12 Subt.	9-12 Total	PK Subt. excl. SCSE	K-12 Total		
1999-00	43	41	43	49	54	53	284	6	0	0	312	39	46	58	143	2	145				22	427	435	457
2000-01	38	48	43	44	52	56	282	7	0	0	307	50	44	43	137	3	140				18	419	429	447
2001-02	29	38	42	45	37	46	256	10	0	0	297	54	46	44	144	5	149				31	400	415	446
2002-03	36	31	32	40	43	32	220	32	8	0	282	38	50	40	128	17	145				30	348	397	427
2003-04	36	40	35	40	41	48	243	7	0	0	278	46	46	55	147	3	150				28	390	400	428
2004-05	37	36	38	36	42	47	237	10	0	0	266	39	50	48	137	5	142				19	374	389	408
Average Survival Rate	1.051	1.018	1.014	1.014	1.014	1.014	5%					0.959	1.054	0.990	1.014	4%								
PROJECTIONS																								
2005-06	43	45	37	40	35	39	238	11	249	1	265	45	41	49	136	6	141				17	373	390	407
2006-07	24	1051	46	38	38	35	222	11	233	0	23	41	48	41	129	5	134				23	352	367	390
2007-08	35	1051	26	48	37	39	222	11	233	0	0	38	43	47	126	5	133				0	350	366	366
2008-09	35	1051	37	27	46	38	224	11	235	0	0	34	40	43	117	5	122				0	341	357	357
2009-10	35	1051	37	39	26	47	224	11	235	0	0	38	36	39	114	5	118				0	338	354	354
Change # Students							-13	-5%	-12		-31				-23	-4%	-17%							
Change % Students							-5%		-5%		-12%				-17%		-17%							
CERTIFICATION (complete one)																								
The above information is prepared and certified by the district.																								
District Representative Name:																								
Title:																								
Signature:																								
The above information is prepared and certified by a qualified demographer.																								
Firm Name: Sundance Associates 117 Greenvale Ct. Cherry Hill NJ 08034																								
Name: George B. Sundell Tel 856-755-0174 Email: GSundell@comcast.net																								
Signature: George B. Sundell Date:																								

