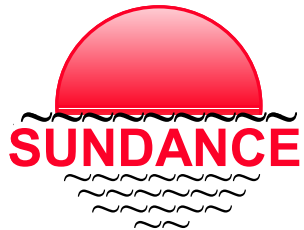


Demographic Study  
**Public School Enrollments**  
**and**  
**Future Residential Development**  
for the  
Board of Education  
of the  
**Ewing Township Public Schools**



**Sundance Associates**  
117 Greenvale Court  
Cherry Hill, NJ 08034-1701

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June 21, 2006  
Final Report

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# Executive Summary

**The Methodology** used in projecting enrollments is the recommended method of the NJ Department of Education, that is known as Cohort Survival. The NJ DOE mandated form of report, based on 6 years of enrollment history and the Fall Reports, is included in the Appendix.

**The School District** includes the 15.6 square mile Township of Ewing, in Mercer County, which has a year 2000 population of 35,707 people according to the US Census. The public school system has a student population of just over 4,000 students in 5 schools.

**Population Trends** The population of Ewing has experienced a decline of 1.89% in the 80's and growth of 4.45% in the 90's, lower than the growth rates in Mercer County or New Jersey.

**Population by Age Group** from 1990 to 2000, shows decreasing Pre-school, down 2.29%, and increasing School-age populations, up 12.35%. Childbearing age population was stable at 1.17% growth.

**Birth Rates** have fluctuated between 354 and 296 per year over the 10 years for which data is available. A six year average rate of 326 births per year is used to project Live Births beyond 2004, the last year for which data is available.

**Housing Trends** in Ewing have averaged 32 single-family residential building permits per year in the last six years, and 103 multi-family units per year. *In fact the multi-family units were all permitted in a three-year period at a yearly level of 197 units.*

**Historic Enrollments** in Ewing have increased over the last six years by 264 students (nearly 20 students per grade over 13 grade levels) or 7.0% from 3722 to 3986 students.

**Standard 5-year Enrollment Projections** establish district-wide growth at only 30-40 students over the next 5 years.

Elementary grades PKSE to 5 will increase by 60 students from a current level of 1519 to a year 2010 high of 1579.

Grades 6 to 8 enrollments will peak at 1041 students in the projected period, 20 less than the historic period peak.

High School enrollments will peak at 1257 students in year 2008, 85 students higher than the current level.

*Population in Ewing Township has increased to above 35,000, while the school enrollments increased to over 4,000.*

*The period from 1990 to 2000 saw a slight 1.17% increase in the Childbearing Age group and a 12% increase in the School Age population, while Pre-school age declined 29%.*

*While the number of Multi-family residential permits has increased significantly, the future development levels are unknown.*

*This study include projections by standard Cohort Survival methods, as well as the impact of ... moderate (1866 units - 10 years) and high (5827 units - 15 years) growth scenarios.*



# Executive Summary / 2

## **Extended Plus Impact of Moderate Build-out Housing Projections**

This estimate for new housing is only 1866 units and 756 children, with absorption over 10 years or 187 units per year. That is 59 more units per year than the recent average. 1866 units would generate 75 new students per year, but increase enrollment by only 7 students per year, after reducing new students by the 68 per year already counted in the standard methodology. That projection, over 10 years, is for an increase of only 70 students.

## **Extended Plus Impact of High Build-out Housing Projections**

If a total of 5827 units are developed, absorption would be over 15 years. That average would be 388 units per year as compared to the recent yearly average of 128 units per year. The 2776 children generated by these 5827 units over 15 years would average 185 new children per year, but we must subtract 68 new students per year as already counted in the standard cohort method. Therefore a level of 388 units per year will only increase enrollments by 117 students per year. Enrollments would increase by 585 students in the first five years, and by 1,170 at the end of our 10-year extended period. Over the 15-year build-out, enrollment would increase by 1755 students.



## Profile: Township

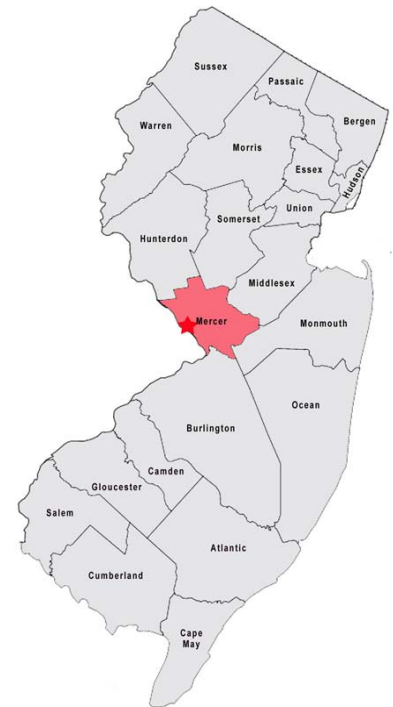
**Ewing Township** is a Township located in Mercer County, New Jersey. As of the United States 2000 Census, the township had a total population of 35,707.

Although Ewing Township was officially established in 1834, the history of the region ranges back thousands of years. The earliest inhabitants of the land area today known as Ewing Township were the Lenni Lenape Native Americans. These migratory people ranged throughout New Jersey along the banks of the Delaware River, and the Township's many creeks provided rich natural resources for hunting, fishing, pottery-making, and simple farming.

When the region was first settled by European colonists around 1699, it was part of Hopewell Township, and continued under that name until the City of Trenton was established in 1719. From 1719 until 1834, the area was named Trenton Township. On February 22, 1834, the name was changed from Trenton Township to Ewing Township in honor of Charles Ewing, who was posthumously honored for his work as Chief Justice of the New Jersey Supreme Court from 1824-1832.

According to the United States Census Bureau, the township has a total area of 40.4 km<sup>2</sup> (15.6 mi<sup>2</sup>). 39.7 km<sup>2</sup> (15.3 mi<sup>2</sup>) of it is land and 0.7 km<sup>2</sup> (0.3 mi<sup>2</sup>) of it is water, mostly consisting of the Delaware River. The total area is 1.73% water.

Ewing Township was originally farmland punctuated by hamlets, including Ewingville, West Trenton, and Wilburtha. Since the beginning of the 20th Century, the township has developed as a suburb of Trenton. The sections near the city border are distinctly urban, but most of the township is suburban residential development. The main commercial district extends along North Olden Avenue Extension (County Route 622), originally constructed to connect north Trenton residences with the now-closed General Motors plant. Ewing Township is also the location of the New Jersey State Police headquarters, the New Jersey State Prison Farm, the New Jersey Department of Transportation headquarters, and Trenton-Mercer Airport (KTTN), the location of Trenton, New Jersey's weather observations.



***Ewing was organized as Trenton Township in 1719, and is a 15.6 square mile municipality with a year 2000 population of over 35,000.***

**SOURCES:** US Census 2000 and <http://en.wikipedia.org/>



## Profile: Township

Continued

Ewing Township is traversed by multiple main roadways, as well as by a passenger rail line and is the location of an airport. Route 29 (Daniel Bray Highway and River Road) extends north-south along the western edge of the township, along the Delaware River. Route 31 (Pennington Road) extends north-south towards the eastern side of the township. U.S. Route 206 (Princeton Avenue) skirts the southeastern section of the township. It is a 25 mph (40 km/h), undivided 4-lane facility. Although part of US 206, it was not constructed and is not maintained by the state. US 206 also connects south to Trenton, and connects north to Princeton and Somerville.

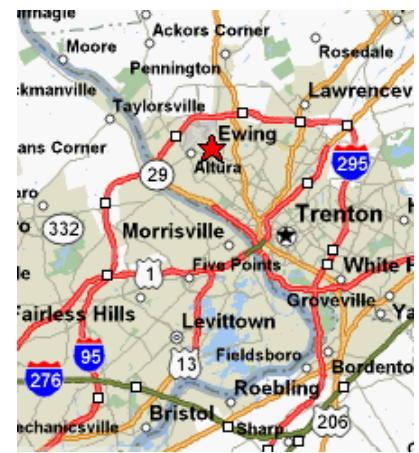
Interstate 95 (the Scudder Falls Expressway and Bridge) crosses the northwestern section of the township. It connects south with Philadelphia, Pennsylvania and connects north to U.S. 1, where this branch of Interstate 95 ends. It becomes Interstate 295 and turns south, forcing travelers to utilize either U.S. 1 or Interstate 195 and the New Jersey Turnpike to reach the next major destination northwards, New York City. The Ewing portion of Interstate 95 will eventually be redesignated as Interstate 295 when a direct interchange between Interstate 95 in Pennsylvania and the Pennsylvania Turnpike is completed, re-routing Interstate 95 onto the New Jersey Turnpike at Exit 6.

Ewing Township also boasts a commuter rail facility, West Trenton Station, at the terminus of SEPTA's R3 Regional Rail line. This facility mainly serves commuter traffic to and from Philadelphia, Pennsylvania.

The West Trenton rail yard, located just north of the West Trenton Station, serves freight trains daily as they travel along the Conrail-operated (ex-Reading Railroad) branch between Somerville and Philadelphia.

Ewing Township is also the site of the Trenton-Mercer Airport (TTN). This facility is the site of limited commercial flights to various east coast locations, as well as a substantial public recreational airport.

Ewing Township is also traversed by the Delaware & Raritan Canal near the Delaware River. Originally important to commerce and trade, the advent of railroads caused the canal's commercial demise. The strip of land along the canal is currently a state park.



***Ewing Township is traversed by multiple main roadways, as well as by a passenger rail line and is the location of an airport.***

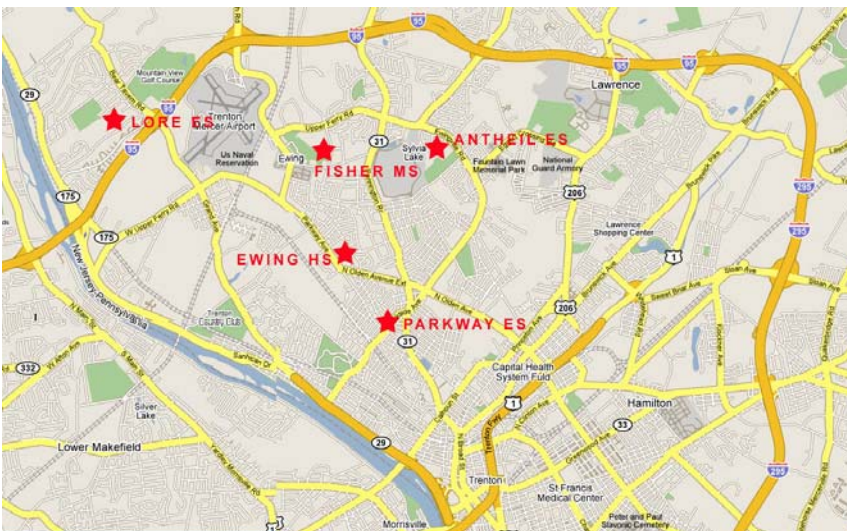
## Profile: School District

Ewing Township is home to a highly regarded public school system as well as private schools at all K-12 levels.

The Ewing Township Board of Education oversees the Ewing Public Schools. At present, the district includes three elementary schools with kindergarten and grades 1 through 5 (Lore, Antheil, and Parkway), one middle school with grades 6 through 8 (Fisher), and one high school with grades 9 through 12 (Ewing High School).

The College of New Jersey (formerly Trenton State College) is located within the Ewingville section of the township.

*The Ewing Township Public School District operates a K-12 educational program for 4,000 students.*



### District Offices:

Ryan Administration Building  
1331 Lower Ferry Rd.  
Ewing, NJ 08618  
Tel 609 538-9800

### Schools:

Antheil Elementary School  
339 Ewingville Rd.  
Ewing, NJ 08638

Lore Elementary School  
13 Westwood Drive  
Ewing, NJ 08628

Parkway Elementary School  
446 Parkway Avenue  
Ewing, NJ 08618

Fisher Middle School  
1325 Lower Ferry Road  
Ewing, NJ 08618

Ewing High School  
900 Parkway Avenue  
Ewing, NJ 08618





## Demographics and Population Trends

As of the census of 2000, there were 35,707 people, 12,551 households, and 8,208 families residing in the township. The population density was 2,328.6/mi<sup>2</sup>. There were 12,924 housing units at an average density of 842.8/mi<sup>2</sup>.

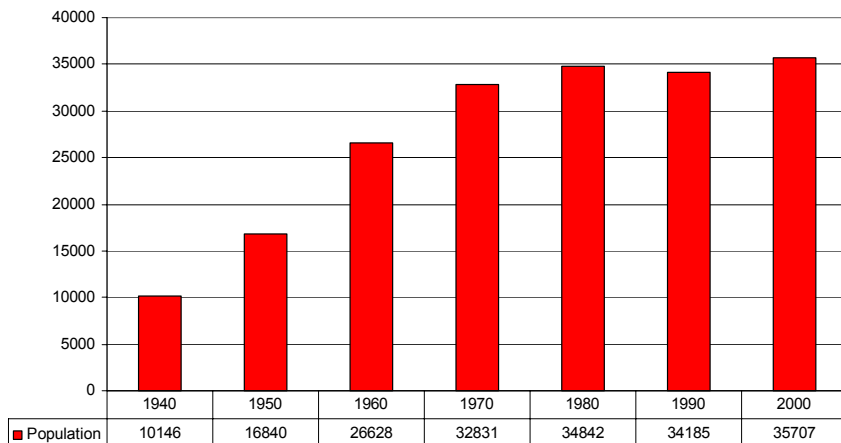
The racial makeup of the township was 69.02% White, 24.82% African American, 0.15% Native American, 2.27% Asian, 0.06% Pacific Islander, 1.83% from other races, and 1.84% from two or more races. 4.44% of the population were Hispanic or Latino of any race.

The median income for a household in the township was \$57,274, and the median income for a family was \$67,618. Males had a median income of \$44,531 versus \$35,844 for females. The per capita income for the township was \$24,268. 6.4% of the population and 3.3% of families were below the poverty line. 5.4% of those under the age of 18 and 7.1% of those 65 and older were living below the poverty line

*Census 2000, reports ...*

*35,707 people,  
12,551 households, and  
8,208 families residing  
in the township*

	Population			Growth %	
	1980	1990	2000	80-90	90-00
<b>New Jersey</b>	7,365,011	7,730,188	8,414,350	4.96%	8.85%
<b>Mercer County</b>	307,863	325,824	350,761	5.83%	7.65%
<b>Ewing Township</b>	34,842	34,185	35,707	-1.89%	4.45%



*Population has grown, at a slower rate than New Jersey or Mercer County,... to a current level of near 36,000 persons.*

*In the period 1980-90 population declined by nearly 2%*

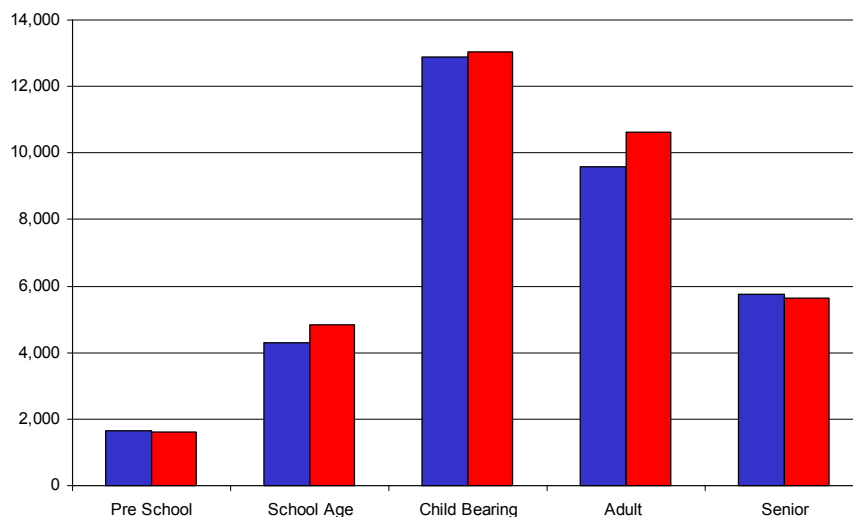
SOURCE: *New Jersey Population Trends 1790 to 2000*, available at <http://www.wnjin.state.nj.us/OneStopCareerCenter/LaborMarketInformation/Imi25/pub/NJSDC-P3.pdf>



## Households and Population by Age Group

There were 12,551 households out of which 25.3% had children under the age of 18 living with them, 49.7% were married couples living together, 12.2% had a female householder with no husband present, and 34.6% were non-families. 27.7% of all households were made up of individuals and 12.1% had someone living alone who was 65 years of age or older. The average household size was 2.45 and the average family size was 3.00.

In the township the population was spread out with 18.0% under the age of 18, 17.3% from 18 to 24, 26.8% from 25 to 44, 22.1% from 45 to 64, and 15.8% who were 65 years of age or older. The median age was 37 years. For every 100 females there were 93.0 males. For every 100 females age 18 and over, there were 90.0 males.



*The 10 year census period from 1990 to 2000 experienced a 151 person increase, or 1.1%, in the Childbearing age group*

*At the same time, the number of School age children increased by 530 or 12%.*

*The number of Preschool age children decreased by 2%*

		1990		2000		10 Yr Change	
		Age	%	Age	%	#	%
Pre School	Under 5	1,661	4.9%	1,623	4.5%	-38	-2.29%
School Age	5-17	4,291	12.6%	4,821	13.5%	530	12.35%
Child Bearing	18-39	12,875	37.7%	13,026	36.5%	151	1.17%
Adult	40-64	9,598	28.1%	10,606	29.7%	1,008	10.50%
Senior	65+	5,760	16.8%	5,631	15.8%	-129	-2.24%
		34,185		35,707		1,522	4.45%



## Birth Rates

The number of babies born to families who reside in the district is a significant factor effecting enrollment projections. Birth Rates from “5 years earlier” are used for the Birth to Kindergarten survival ratios on the standard method. For example, the first school year in the historic data is 2000-01 and uses year 1995 for the Birth:K calculation of that survival ratio. With that understanding, actual and projected births are presented here for review.

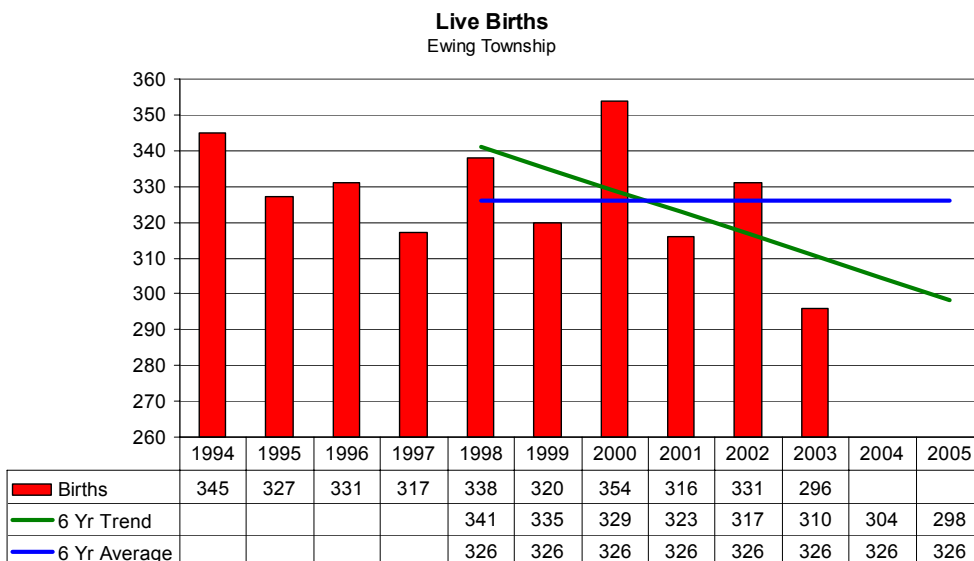
Birth rates have fluctuated between 354 and 296 per year over the last 10 years for which data is available. Over the 5 years 1999-03, the birth rate average has been 230 births.

Trend analysis of the period 1999-03 indicates a possible decrease of the birth rate as shown by the green line in the graphic below.

Births data for years 2005 and 2006 are not yet available for use in the standard Cohort Survival projection. Enrollments are projected using the 5-year average for these unknown years of birth data. That includes the additional five years of data in the “extended” projection to school year 2015-16.

*Actual Live Births are used for years 1995-2004.*

*A 6-year average is used to project Live Births for years beyond 2004, which data are not yet available, and which are the basis for future Kindergarten enrollments in the standard projection.*



**SOURCE:** NJ Department of Health, Bureau of Health Statistics  
[www.state.nj.us/health/chs](http://www.state.nj.us/health/chs)





## Cohort Survival Methodology

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 demographic trends. 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 301 students in a First Grade in year 2003-04, following a 246 student Kindergarten in year 2002-03. This yields a Kindergarten to First Grade survival ratio of 1.224 (or  $301 \div 246$ ).

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 to year 2004. Birth data through year 2006 are utilized in the standard projection. Hence, years 2005-2006 are estimates using the average. These are used in the standard and extended projections.

The projections use the current school year 2005-06 enrollments as a base year. The Averaged Cohort Survival Ratios are applied to those base year enrollments and to the actual and estimated births, and projected into the next year, one grade level higher.

### Historic Enrollments

School Year	Births 5 Yrs. Ago	"s"	K	"s"	1st Gr.	"s"	2nd Gr.
<b>HISTORIC DATA</b>							
2000-01	214	1.073	231		287		319
				1.133		1.045	
2001-02	220	1.264	278		263		300
				1.155		1.137	
2002-03	218	1.128	246		321		299
				1.224		1.056	
2003-04	270	1.000	270		301		339
				1.152		0.377	
2004-05	215	1.116	240		311		294
				1.273		1.032	
2005-06	228	0.378	223		307		321
<b>Average Survival Rate</b>	<b>1.094</b>			<b>1.190</b>		<b>1.049</b>	

*Enrollment projections have been made using the Cohort Survival method... the recommended method of the NJ Department of Education.*



# Cohort Survival Enrollment Projections

Standard Methodology

Cohort Survival projections are the recommended method of projection and must be completed for all school districts. The full NJ Department of Education worksheet for this projection can be found in the Appendix. The results are as follows;

## 1.1 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	2000 - 01	259	254	283	282	265	307	278	241	252	346	284	250	174	3475
	2001 - 02	270	277	243	278	288	260	276	278	246	296	298	235	205	3450
	2002 - 03	273	262	272	254	263	291	253	272	299	301	277	275	216	3508
	2003 - 04	261	279	254	275	257	273	288	269	296	363	266	255	229	3565
	2004 - 05	312	300	322	290	316	278	284	305	289	384	340	269	248	3937
	2005 - 06	278	296	279	284	274	276	262	284	292	366	296	284	231	3702
Projected	2006 - 07	263	287	296	282	288	273	267	268	296	361	321	267	250	3720
	2007 - 08	276	272	286	299	287	287	265	273	279	366	317	290	236	3733
	2008 - 09	247	285	271	290	304	286	278	270	285	345	321	286	256	3724
	2009 - 10	272	255	284	275	294	303	277	284	282	352	303	290	252	3722
	2010 - 11	272	280	254	288	279	293	293	283	297	348	309	273	256	3726

## 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	2000 - 01	658		125	104	18	247
	2001 - 02	648		114	104	37	255
	2002 - 03	655		120	114	36	270
	2003 - 04	658	0.0365	24	105	123	284
	2004 - 05	674		131	125	31	287
	2005 - 06	670		119	111	33	263
Projected	2006 - 07	647		121	114	34	268
	2007 - 08	641		122	112	34	268
	2008 - 09	615		120	114	34	268
	2009 - 10	603		120	116	33	269
	2010 - 11	603		119	120	33	272

*This standard Cohort Survival Enrollment Projections is the projection that is recommended by NJ DOE.*

## 1.3 Pre Kindergarten

		Births 3 Yrs Ago	Births 4 Yrs Ago	Pre K 3 Yr Olds	Pre K 4 Yr Olds	Pre K Total
Historic	2000 - 01	331	327		0	0
	2001 - 02	317	331		0	0
	2002 - 03	338	317		0	0
	2003 - 04	320	338	0.071	24	24
	2004 - 05	354	320	0.0688	22	22
	2005 - 06	316	354	0.0593	21	21
Projected	2006 - 07	331	316	0.066	21	21
	2007 - 08	310	331	0.066	22	22
	2008 - 09	304	310	0.066	21	21
	2009 - 10	298	304	0.066	20	20
	2010 - 11	298	298	0.066	20	20

*This standard projection indicates a district-wide loss of about 223 students in comparing the high points of the historic and projected periods.*

## 1.4 District Summary

		Pre K Total	SCSE Total	Gen'l Educ	District Total
Historic	2000 - 01	0	247	3475	3722
	2001 - 02	0	255	3450	3705
	2002 - 03	0	270	3508	3778
	2003 - 04	24	284	3565	3873
	2004 - 05	22	287	3937	4246
	2005 - 06	21	263	3702	3986
Projected	2006 - 07	21	268	3720	4010
	2007 - 08	22	268	3733	4023
	2008 - 09	21	268	3724	4013
	2009 - 10	20	269	3722	4012
	2010 - 11	20	272	3726	4017

Inasmuch as this study will also address longer range projections an extended projection was made using standard methods, to year 2015, and is found on the next page



# Extended Cohort Survival Enrollment Projections

Standard Methodology

## 2.1 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	2000 - 01	259	254	283	282	265	307	278	241	252	346	284	250	174	3475
	2001 - 02	270	277	243	278	288	260	276	278	246	296	298	235	205	3450
	2002 - 03	273	262	272	254	263	291	253	272	299	301	277	275	216	3508
	2003 - 04	261	279	254	275	257	273	288	269	296	363	266	255	229	3565
	2004 - 05	312	300	322	290	316	278	284	305	289	384	340	269	248	3937
	2005 - 06	278	296	279	284	274	276	262	284	292	366	296	284	231	3702
Projected	2006 - 07	263	287	296	282	288	273	267	268	296	361	321	267	250	3720
	2007 - 08	276	272	286	299	287	287	265	273	279	366	317	290	236	3733
	2008 - 09	247	285	271	290	304	286	278	270	285	345	321	286	256	3724
	2009 - 10	272	255	284	275	294	303	277	284	282	352	303	290	252	3722
	2010 - 11	272	280	254	288	279	293	293	283	297	348	309	273	256	3726
Extended	2011 - 12	272	280	280	257	292	278	284	300	295	366	306	279	241	3731
	2012 - 13	272	280	280	283	261	291	269	290	313	364	322	276	246	3748
	2013 - 14	272	280	280	283	288	260	282	275	303	386	320	291	243	3764
	2014 - 15	272	280	280	283	288	287	252	288	287	374	339	289	256	3775
	2015 - 16	272	280	280	283	288	287	278	258	301	355	328	306	254	3770

## 2.2 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	2000 - 01	658		125	104	18	247
	2001 - 02	648		114	104	37	255
	2002 - 03	655		120	114	36	270
	2003 - 04	658	24	105	123	32	284
	2004 - 05	674		131	125	31	287
	2005 - 06	670		119	111	33	263
Projected	2006 - 07	647		121	114	34	268
	2007 - 08	641		122	112	34	268
	2008 - 09	615		120	114	34	268
	2009 - 10	603		120	116	33	269
	2010 - 11	603		119	120	33	272
Extended	2011 - 12	603		119	121	33	273
	2012 - 13	603		119	120	34	273
	2013 - 14	603		119	118	35	272
	2014 - 15	603		121	114	35	270
	2015 - 16	603		121	115	35	270

## 2.3 Pre Kindergarten

		Births 3 Yrs Ago	Births 4 Yrs Ago	Pre K 3 Yr Olds	Pre K 4 Yr Olds	Pre K Total
Historic	2000 - 01	331	327			
	2001 - 02	317	331			
	2002 - 03	338	317			
	2003 - 04	320	338	0.071	24	24
	2004 - 05	354	320	0.0688	22	22
	2005 - 06	316	354	0.0593	21	21
Projected	2006 - 07	331	316	0.066	21	21
	2007 - 08	310	331	0.066	22	22
	2008 - 09	304	310	0.066	21	21
	2009 - 10	298	304	0.066	20	20
	2010 - 11	298	298	0.066	20	20
Extended	2011 - 12	298	298	0.066	22	22
	2012 - 13	298	298	0.066	22	22
	2013 - 14	298	298	0.066	22	22
	2014 - 15	298	298	0.066	22	22
	2015 - 16	298	298	0.066	22	22

## 2.4 District Summary

		Pre K Total	SCSE Total	Gen'l Educ	District Total
Historic	2000 - 01		247	3475	3722
	2001 - 02		255	3450	3705
	2002 - 03		270	3508	3778
	2003 - 04	24	284	3565	3873
	2004 - 05	22	287	3937	4246
	2005 - 06	21	263	3702	3986
Projected	2006 - 07	21	268	3720	4010
	2007 - 08	22	268	3733	4023
	2008 - 09	21	268	3724	4013
	2009 - 10	20	269	3722	4012
	2010 - 11	20	272	3726	4017
Extended	2011 - 12	22	273	3731	4025
	2012 - 13	22	273	3748	4043
	2013 - 14	22	272	3764	4057
	2014 - 15	22	270	3775	4067
	2015 - 16	22	270	3770	4062

*Comparison of 5-year period high-points shows a loss of 223 students in the first five-year projection period, which is reversed by about 40 students in the extended five-year period.*

Is the standard projection acceptable? Will trends stay the same?

On the following pages we look at future residential development, the largest determinant that is susceptible to change.





## Residential Permitting Historic Levels

The six year average of building permits for the period 2000-05 is 135 units per year. However, there is significant differences in the permit history between single-family and multi-family units.

Prior to this last 6 year period all units were single family averaging about 23 units per year. This increased to an average of 32 units per year in the 6 year period coincident with the historical period of the enrollment history.

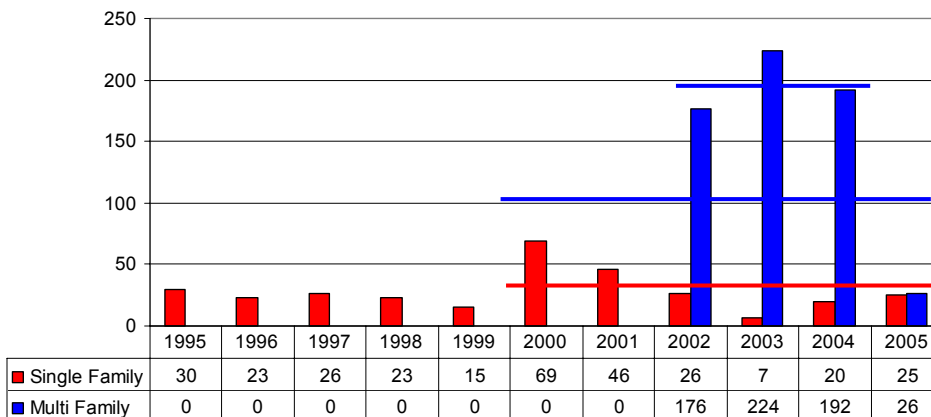
This last 6-year period was remarkable for the reintroduction of construction of multi-family housing. The 6-year average is 103 units per year. In the 3 years 2002-04 alone the average was 197 units per year.

Moreover, all the new multi-family housing were 1 and 2-bedroom higher-end condominiums, and generated few children.

*Residential permitting in the last 6 years ranged from a high of 231 units to a low of 46 units per year.*

*A 6-year average coincides with the 6-year history of enrollments used in this study.*

**Residential Building Permits**  
Ewing Township



*Therefore the 6-year averages of ... 103 multi-family and 30 single-family units per year is used in this report in the analysis of the impact of future residential development on school enrollments.*

**SOURCE:** NJ Department of Labor & Industry [www.wnjin.state.nj.us](http://www.wnjin.state.nj.us)

Some of the new multi-family housing was the result of zoning changes in the same vein as the recent rezoning of the Bear Tavern Rd property from Industrial to Residential-Townhouse. It begs the question of enrollment should this rezoning become a trend.



## Housing Development Through Rezoning Properties Listing

A meeting was held to ascertain the extent of vacant land in the Township that might be considered ripe for rezoning and development. That list identifying the properties, acreage, current zoning and proposed land use is as follows;

<b>Property Name Location Acreage</b>	<b>Block, Lot</b>	<b>Zoning/ Land Use</b>
<b>Naval War Aux Station</b> Upper Ferry Rd & RR <b>21.98 Acres</b>	Blk 374 Lot 4	Zoning IP-1 Industrial Park Land Use: Public Property to Mixed Use
<b>GM</b> Upper Ferry Rd <b>79.84 Acres</b>	Blk 343 Lot 1	Zoning IP-1 Industrial Park Land Use: Vacant to Mixed Use
<b>Jones Farm Correctional Inst</b> I-95 & Bear Tavern Rd. <b>280.85 Acres</b>	Blk 423 Lot 17	Zoning: OP-1 Office Park, C Conservation and R-1 Residential Land Use: Public Property
<b>Katzenbach School (NJ)</b> Grand Ave. & Low Ferry Rd <b>117.40 Acres</b>	Blk 341 Lot 1	Zoning: OP-2 Office Park Land Use: Public Property
<b>Knight Farm (New Jersey)</b> Wilburtha Rd & Raritan Canal <b>319.70 Acres</b>	Blk 411 Lot s 11, 12	Zoning: C Conservation Land Use: Public Property
<b>Atchley Tract</b> Lower Ferry at I-95 <b>108.70 Acres</b>	Blk 225.01 Lot 1	Zoning: OP-2 Office Park Land Use: Farm Regular
<b>A-Not used</b>		
<b>B-So of Atchley</b> Low Ferry & Phillips <i>North</i> <b>11.09 Acres</b>	Blk 225.01 Lots 2, 3, 4	Zoning: IP-1 Industrial Park Land Use: Vacant to Multi-family
<b>C-Adj to ETS-Amer Prop</b> Low Ferry & Phillips <i>South</i> <b>15.53 Acres</b>	Blk 225.02 Lot 56	Zoning: RME Multi-family w/ Elev Land Use: Multi-family
<b>D-Small MXD-1400Pkw LLC</b> Parkway & RR <b>9.57 Acres</b>	Blk 365 Lot 9	Zoning: IP-1 Industrial Park Land Use: Vacant to Mixed Use
<b>E-West of Knight Farm</b> Upr Ferry & Raritan Canal <b>46.11 Acres</b>	Blk 422 Lots 15, 70, 97, 56. 14. 9. 114. 6	Zoning: R-1 Residential Land Use: Residential

**Total 1010 Acres**

Each property was reviewed for development potential, particularly in regard to adjacencies, and a "development plan", i.e. a percentage use by residential building type, was determined.

*More than 1000 acres in 11 properties were identified as vacant and available for rezoning and development as residential properties.*

*A significant portion of the properties are state-owned for institutional uses or under conservation. Nonetheless it is possible that fiscal issues at the State of New Jersey could lead to land sales for revenues in the future.*

## Jones Farm Correctional Institute

Block 423 Lot 17  
280 Acres



The 280 acre Jones Farm Correctional Institute site is located east of I-95 and southeast of the Airport across Bear Tavern Rd on the western side of Ewing Township. It is crossed in both directions by Sanitary Sewer easements of 20-25 ft.

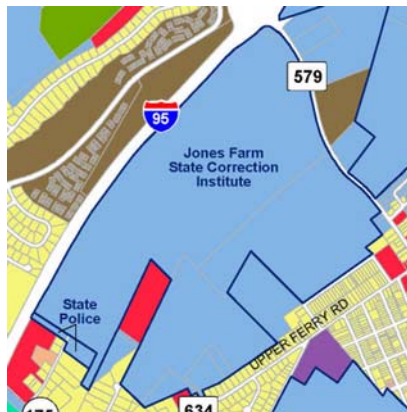
The Jones Farm property is scheduled for 60% development as residential with the remaining 40% in recreation, conservation.

That 60% is equally divided between Townhomes, Garden Apartments and Elevated Mid-rise Apartments. Each type is on 56 acres.

The potential housing then is;  
392 Townhomes  
560 Garden Apartments  
840 Mid Rise Condominiums

School Age Children from this mix of housing would be;  
137 from Townhomes  
294 from Garden Apartments  
200 from Mid-rise Condos, or a total of 631 children.

Under current elementary school districting, these children would attend the Lore School.



### LAND USE: Public Property

The site is owned by the State of New Jersey, is used as a corrections farm, and is partially forested and partially in farm land. The site is adjacent to single-family residential on the east and south, multi-family residential uses on the northeast, and the airport and a multifamily parcel on the northeast. The State Police have offices on the south end. The red parcels are Commercial uses



### ZONING:

OP-1 Office Park  
C Conservation  
R1 Residential

The west side lands bordering I-95 are zoned Office Park . The east side is zoned Conservation with several undeveloped parcels, on the southern end, zoned R1,

## Naval Warfare Auxiliary Station

Block 374 Lot 4  
21.98 Acres



The Naval Warfare Auxiliary Station site is located west of the railroad and north of West Upper Ferry Road before turning into Parkway Ave. It is immediately adjacent to the airport. This is the approximate geographic center of the township.

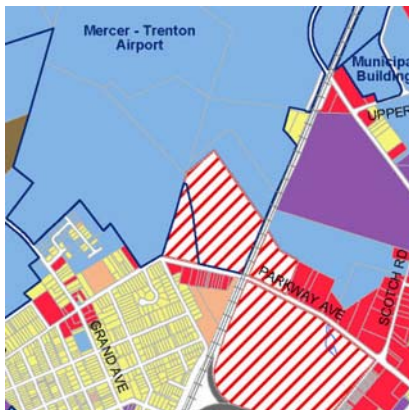
For purposes of this study, the NAS property is scheduled for 25% development as residential with the remaining 75% in commercial retail and office

That 25% is proposed as Elevated Mid-rise Apartments.

The potential housing then is;  
82 Mid Rise Condominiums

School Age Children from this mix of housing would be;  
20 from Mid-rise Condos.

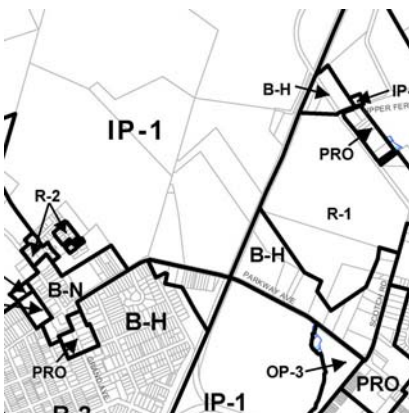
Under current elementary school districting, these children would attend the Lore School.



### LAND USE: Public Property

The site has been used for military-industrial purposes and is proposed as a Mixed-Use site, along with the GM site and the northeast corner of the intersection of the RR and Parkway Ave.

Adjacent uses are commercial and the public use airport.



### ZONING:

#### IP-1 Industrial Park

The IP-1 zone includes the airport site surrounding two sides. To the east the site is bounded by the railroad and another MXD zone. To the south, across West Upper Ferry Rd is a B-H Business Highway zone.

## GM Tract

Block 343 Lot 1

79.84 Acres



The GM Tract is located at the southeast corner of Parkway Ave. and the railroad and is in the approximate geographic center of the township.

For purposes of this study, the GM property is scheduled for 25% development as residential with the remaining 75% in commercial retail and office

That 25% is proposed as Elevated Mid-rise Apartments.

The potential housing then is; 299 Mid Rise Condominiums

School Age Children from this mix of housing would be; 71 from Mid-rise Condos.

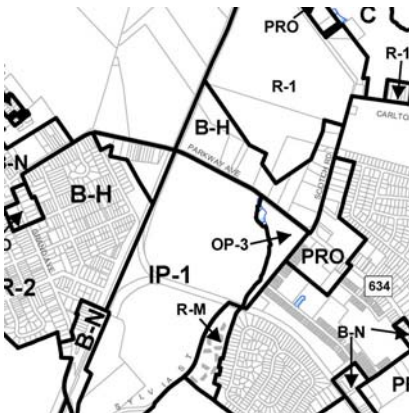
Under current elementary school districting, these children would attend the Lore School.



### LAND USE: Public Property

The site has been used for industrial purposes and is proposed as a Mixed-Use site, along with the NAS site and the northeast corner of the intersection of the RR and Parkway Ave.

Adjacent uses are commercial, vacant and public use.



### ZONING:

#### IP-1 Industrial Park

The IP-1 zone includes the GMC site and properties to the south.. To the east the site is bounded by commercial properties To the west, is the railroad.

## Katzenbach School

Block 341 Lot 1

117.4 Acres



The Katzenbach School for the Deaf site is located at Sullivan Way and Lower Ferry Rd. It is partially wooded, and its park-like setting is bisected by a stream/ lake.



### LAND USE: Public Property

The site is owned by the State of New Jersey, is used as a residential and day school for the Hearing Impaired.

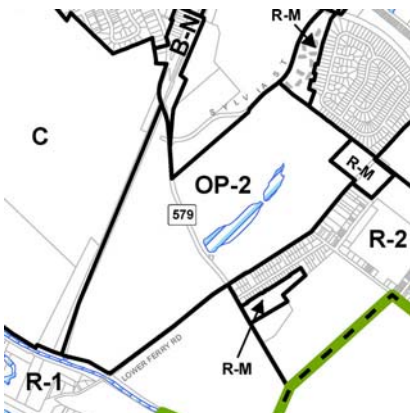
The site is adjacent to office-industrial uses on the northwest and south west, and to residential uses on the northeast and southeast

The Katzenbach site, if rezoned, would make an excellent mixed housing site. The site could be 80% developed as residential with the remaining 20% in recreation and conservation, primarily to account for the lake.

That 80% is equally divided between Townhomes, Garden Apartments and both R-1 and R-2 Single Family densities. Each type is on 23.5 acres.

The potential housing then is;  
155 Single Family  
164 Townhomes  
235 Garden Apartments

School Age Children from this mix of housing would be;  
164 Single Family  
58 from Townhomes  
123 from Garden Apartments, or a total of 344 children.



### ZONING: OP-2 Office Park

Adjacent zones include OP-1 for the NJ Manufacturers Insurance Co across Sullivan Way, and both multi-family and single-family housing on the other sides.

## Knight Farm

Block 411 Lot 11 & 12

319.7 Acres



The Knight Farm is located on the south west side of the township and is bounded by the railroad on the east and the Delaware Raritan Canal on the south. It is primarily farm land with several hedgerows and smaller woodlands.

The Knight Farm site, if rezoned, would make an excellent mixed housing site. The site could be 80% developed as residential with the remaining 20% in recreation and conservation, primarily to account for the existing conservation zone.



### LAND USE: Public Property

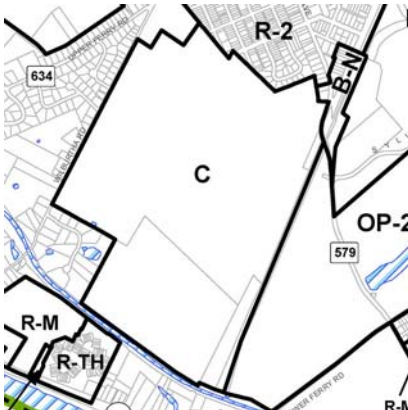
The site is publically owned, is used as a farm under lease, and is partially forested along stream beds.

The site is adjacent to the railroad and otherwise surrounded by residential use.

That 80% is equally divided between Townhomes, Garden Apartments and both R-1 and R-2 Single Family. Each type is on nearly 64 acres.

The potential housing then is;  
421 Single Family  
447 Townhomes  
639 Garden Apartments

School Age Children from this mix of housing would be;  
446 Single Family  
157 from Townhomes  
336 from Garden Apartments, or a total of 938 children.



### ZONING:

#### C Conservation

The conservation zone makes this an unlikely candidate for redevelopment. However, the farming use makes it a target of opportunity for developers.

## Atchley Tract

Block 225.01 Lot 1

108.7 Acres



The Atchley Tract is located on the north central side of town, just south of and abutting I-95, west of Pennington Rd and east of Lower Ferry Rd.



### LAND USE: Farm Regular

The site is wholly used for farming. Adjacent properties are vacant, farmed or residential.

The property has prior approval for a one million square foot office park, and in April 2006 was sold to Opus East, a developer who plans a campus style office development of 740,000 SF in six buildings.

The Atchley Tract was sold to Opus East in April 2006 and is scheduled for 740,000 SF of office space.

The property, in an unlikely residential scenario, is scheduled for 100% development as residential multifamily similar to zoning on the adjacent property to the south.

The potential housing then is; 1087 Mid Rise Condominiums

School Age Children from this mix of housing would be; 571 from Mid-rise Condominiums.



### ZONING:

OP-2 Office Park

The entire site is zoned Office Park .

Under current elementary school districting, these children would attend the Anthiel Elementary School.

## B-South of Atchley

Block 225.01 Lots 2, 3, 4  
11.09 Acres



The "B" site is located immediately south of the Atchley Tract, and accessible off Lower Ferry Rd. South of this property are existing commercial-industrial properties.

The "B" property, like its neighbor to the south, is scheduled for 100% development as Residential-Multifamily-Elevator.

The potential housing then is;  
165 Mid Rise Condominiums

School Age Children from this mix of housing would be;  
39 from Mid-rise Condos.

Under current elementary school districting, these children would attend the Anthiel School.



LAND USE: Public Property

The site, like the Atchley Tract, is used as farmlands, with a very small area of woodlands. The adjacent uses are commercial-industrial.



ZONING:  
IP-1 Industrial

The south side properties are currently light industrial-office uses with the exception of the "C" site which is zoned Multi-family Elevator.

On the the north side is the Atchley Tract planned for six office buildings.

## C-Adjacent to ETS

Block 225.02 Lots 56

15.53 Acres



The "C" site is located on the northeast corner of Lower Ferry Rd and Phillips Boulevard, adjacent to the ETS site.

The "C" property, like its neighbor to the north, is scheduled for 100% development as Residential-Multifamily-Elevator.

The potential housing then is; 233 Mid Rise Condominiums according to published reports.

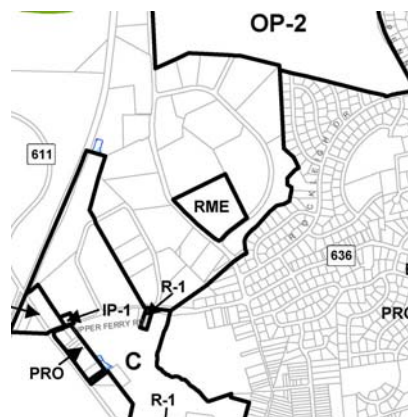
School Age Children from this mix of housing would be; 55 from Mid-rise Condos.

Under current elementary school districting, these children would attend the Anthiel School.



LAND USE: Public Property

The site is currently vacant



ZONING:  
RME  
Residential Multifamily Elevator

The site is surrounded on all sides by IP-1 zoning and commercial uses.

## D-Small Parcel MXD

Block 365 Lot 9

9.57 Acres



The “D” site, the smallest of the central planned MXD area is located at the northeast corner of Parkway Ave. and the railroad and is in the approximate geographic center of the township.

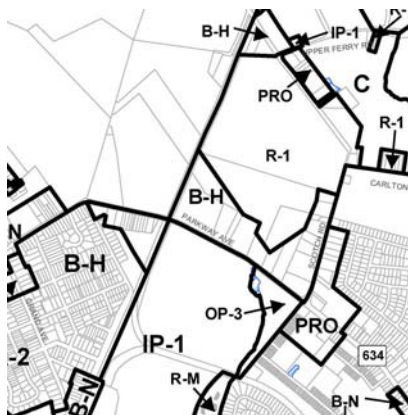
The “D” property is not scheduled for any Residential use for purposes of this study. It is too integral to the MXD proposal and at just under 10 acres is too small for any substantial residential development along with significant commercial uses.



LAND USE: Public Property

The site has been used for commercial-industrial purposes and is proposed as a Mixed-Use site, along with the NAS site and the northeast corner of the intersection of the RR and Parkway Ave.

Adjacent uses are commercial, vacant and public use.



ZONING:  
BH Business Highway

Adjacencies include Residential on the north, Professional Office on the east, and Industrial on the south and west.

## E-West of Knightly Farm

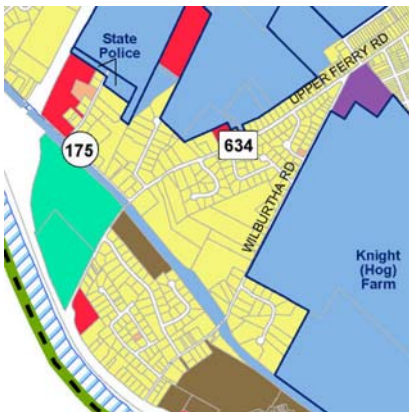
Block 422 Lots 15, 70, 97, 56,  
14, 9, 114, and 6  
46.11 Acres



The “E” site is located west of Knightly Farm on property consisting of several large-tract single-family homes on wooded lots. Its potential for redevelopment would come from a developer interested in assembling the several pieces as one parcel.

The “E” property is scheduled for 100% development as R-1 residential.

The potential housing then is;  
106 Single Family Houses

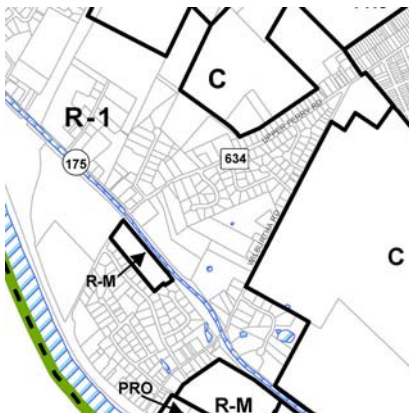


LAND USE: Public Property

The site is used as single family housing. Adjacent uses are the Correctional Farm and the Knight Farm

School Age Children from this mix of housing would be;  
107 from Single Family

Under current elementary school districting, these children would attend the Lore School.



ZONING:

R1 Residential

The west side lands bordering I-95 are zoned Office Park . The east side is zoned Conservation with several undeveloped parcels, on the southern end, zoned R1,

## Summary of New Housing

A recapitulation of the project-based data from the previous pages is restated below as a summary of the housing type by site. Three tables are provided; Land Use by Percent, Land Use by Acres and Residential Units by Type

Table of Proposed Land Use by Percentage

Site	Acres	Zone	Use	R-1	R-2	R-3	R-Th	R-M	R-M-E	Tot Res
Jones Farm	280.0	OP-1, C, R1	Public				20%	20%	20%	60%
Naval Aux	21.9	IP-1	MXD						25%	25%
GMC Tract	79.8	IP-1	MXD						25%	25%
Katzenbach	117.4	OP-2	Public	20%	20%		20%	20%		80%
Knight Farm	319.7	C	Public	20%	20%		20%	20%		80%
Achley Tract	108.7	IP-1	MF					100%		100%
B-Atchley South	11.0	IP-1	MF						100%	100%
C-Adj to ETS	15.5	RMF	RMF						100%	100%
D-MXD Small	9.5	B-H	MXD							0%
E Kn Farm West	46.1	R-1	R	100%						100%
	1009.6									

*A total of 1015 acres from 11 sites are scheduled for use of 730 acres for residential construction.*

*Ewing Township Zoning was consulted to determine the allowed densities for each type of housing. The following densities were used.*

*R-1 2.3 units/acre  
R-2 4.3 units/acre  
R-Th 7.0 units/acre  
R-M 10.0 units/acre  
RM-E 15.0 units/acre*

Table of Proposed Land Use by Acres

Site	Acres	Zone	Use	R-1	R-2	R-3	R-Th	R-M	R-M-E	Acres
Jones Farm	280.0	OP-1, C, R1	Public	0.0	0.0	0.0	56.0	56.0	56.0	168.0
Naval Aux	21.9	IP-1	MXD	0.0	0.0	0.0	0.0	0.0	5.5	5.5
GMC Tract	79.8	IP-1	MXD	0.0	0.0	0.0	0.0	0.0	20.0	20.0
Katzenbach	117.4	OP-2	Public	23.5	23.5	0.0	23.5	23.5	0.0	93.9
Knight Farm	319.7	C	Public	63.9	63.9	0.0	63.9	63.9	0.0	255.8
Achley Tract	108.7	IP-1	MF	0.0	0.0	0.0	0.0	108.7	0.0	108.7
B-Atchley South	11.0	IP-1	MF	0.0	0.0	0.0	0.0	0.0	11.0	11.0
C-Adj to ETS	15.5	RMF	RMF	0.0	0.0	0.0	0.0	0.0	15.5	15.5
D-MXD Small	9.5	B-H	MXD	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E Kn Farm West	46.1	R-1	R	46.1	0.0	0.0	0.0	0.0	0.0	46.1
	1009.6			133.5	87.4	0.0	143.4	252.1	107.9	724.4
			Density	2.3	4.3		7.0	10.0	15.0	

*Utilizing those densities, the 1010 acres would allow for...*

*683 Single Family Houses  
1003 Townhouses and  
2521 Garden Apartments  
1619 Mid-rise Condominiums,  
... a total of 5827 units.*

Table of Residential Units by Site

Site	Acres	Zone	Use	R-1	R-2	R-3	R-Th	R-M	R-M-E	
Jones Farm	280.0	OP-1, C, R1	Public	0.0	0.0	0.0	392.0	560.0	840.0	1792
Naval Aux	21.9	IP-1	MXD	0.0	0.0	0.0	0.0	0.0	82.1	82
GMC Tract	79.8	IP-1	MXD	0.0	0.0	0.0	0.0	0.0	299.3	299
Katzenbach	117.4	OP-2	Public	54.0	101.0	0.0	164.4	234.8	0.0	554
Knight Farm	319.7	C	Public	147.1	274.9	0.0	447.6	639.4	0.0	1509
Achley Tract	108.7	IP-1	MF	0.0	0.0	0.0	0.0	1087.0	0.0	1087
B-Atchley South	11.0	IP-1	MF	0.0	0.0	0.0	0.0	0.0	165.0	165
C-Adj to ETS	15.5	RMF	RMF	0.0	0.0	0.0	0.0	0.0	232.5	233
D-MXD Small	9.5	B-H	MXD	0.0	0.0	0.0	0.0	0.0	0.0	0
E Kn Farm West	46.1	R-1	R	106.0	0.0	0.0	0.0	0.0	0.0	106
	1009.6			307.1	375.9	0.0	1003.9	2521.2	1618.9	5827

5144 of the 5827 units anticipated over the 10 years, or **88%**, are **Multi-family** units. Since the re-introduction of multifamily housing in Ewing in 2002, they have all been 1 or 2-bedroom higher-end condominiums which have had a reduced impact on school enrollments as compared to the history of primarily single-family development. While not age-restricted, the housing has not generated as many children as might be expected.

For purposes of this study, 1000 R-M-E units will be designated as higher-end, **age-restricted**, mid-rise Condominiums. That is about 17% of all future housing, and 62% of the mid-rise condominiums.



## Multipliers

Students from New Housing  
and from Resale Housing

A most important question is that of the **multipliers** to use for “School Age Children from New Housing”.

This study utilizes the as yet unpublished multipliers from a Rutgers University monograph which is based on US Census 2000, and which when complete will replace their earlier and definitive “*Practicioners’ Guide to Fiscal Impact Analysis*”, which was based on the 1980 Census. The Multipliers have changed over the last 20 years.

Their multipliers, while more detailed in analysis of market value (sale or rental price), confirm the authors’ multipliers extrapolated in 2002 from the 2000 U. S. Census 5% Public Use Microdata Sample for New Jersey.

The Rutger’s multipliers are shown in the adjacent table.

	<b>Multiplier</b>
<b>R-1</b> Single Family 4 Bdrm	<b>1.010</b>
<b>R-2</b> Single Family 4 Bdrm	<b>1.080</b>
<b>R-Th</b> Townhouse	<b>0.350</b>
70% 2 bdrm, 30% 3 Bdrm	
<b>R-M</b> Garden Apartments	<b>0.525</b>
30-40-30% 1,2,3 Bdrm	
<b>RME</b> Mid-rise Condo	<b>0.238</b>
30-70% 1and 2 Bdrm	0.421
Age-restricted	0.126

*This study uses Multipliers from Rutgers University and the US Census.*

The Multiplier for the 1000 units of Age Restricted housing (as part of R-M-E) is based on the RESALE of existing housing in Ewing Township. For this study, data from the 2000 Census for Ewing Township was again used.

The Number of Occupied Houses of 12,551 was divided by the Number of Children Age 5-17 of 4821 to generate a Ewing Twp Multiplier for Existing Housing of .384 Children per Occupied Housing Unit.

It is assumed that approximately 1/3rd of the purchasers of Age-Restricted housing in Ewing will already reside there. Their purchase of an age-restricted unit will free-up a higher than average number of existing houses for resale and needs to be factored into our analysis. Therefore, a Multiplier of 33% of .384 or **0.126** is used. The **R-M-E multiplier** is a weighted average of 1000 units of age restricted units at 0.126, and 619 units at 0.421, or 0.238.

On the following page, these multipliers will be applied to the mix of housing units.



## Students from New Housing

The single, most important question remains for analysis. That is, How many children will be generated from this possible housing.

In the analysis shown below, the impact of students from each new housing type is projected using the appropriate multipliers.

The analysis indicates a potential of nearly 2800 new students that could be generated by the 5,887 units.

**Table of School Age Children by Site - Total & Probable Development**

Site	Acres	Zone	Use	R-1	R-2	R-3	R-Th	R-M	R-M-E	Students
Jones Farm	280.0	OP-1, C, R1	Public	0	0	0	137	294	200	631
Naval Aux	21.9	IP-1	MXD	0	0	0	0	0	20	20
GMC Tract	79.8	IP-1	MXD	0	0	0	0	0	71	71
Katzenbach	117.4	OP-2	Public	55	109	0	58	123	0	344
Knight Farm	319.7	C	Public	149	297	0	157	336	0	938
Achley Tract	108.7	IP-1	MF	0	0	0	0	571	0	571
B-Atchley South	11.0	IP-1	MF	0	0	0	0	0	39	39
C-Adj to ETS	15.5	RMF	RMF	0	0	0	0	0	55	55
D-MXD Small	9.5	B-H	MXD	0	0	0	0	0	0	0
E Kn Farm West	46.1	R-1	R	107	0	0	0	0	0	107
	1015.6			310	406	0	351	1355	385	2776
							<b>Probable</b>	<b>571</b>	<b>185</b>	<b>756</b>

However, not all projects are likely to go forward. Those with the most promise for development are highlighted in red. Redevelopment of those sites would generate 756 age 5 to 17 children.

And a further review of the standard projection (see page 25) shows that enrollment is not increasing in direct proportion to new housing. The "established" school population must be declining.

*If all the 5,827 housing units\ were developed as per the "schedule" then nearly 2800 new school age children would enter the district.*

*However, some of these projections will be offset by a declining enrollment in the established population!*

*What is the difference?*



## Children from New Housing above the historic Average Benchmark

To establish the level of children from prior New Housing, we recall that the last six-years of new housing development included 775 units or 592 multi-family and 183 single-family units.

During that same period, enrollments increased by 264 students or an average of 50+ students per year. That is the difference between the 2005 enrollment of 3986 students and the 1999 enrollment of 3722 students.

The anticipated children from this level and mix of housing would be as follows;

	# Units	Mult.	Children	
Single Family	183	1.080	198	
Multi Family	592	0.238	141	
			<u>339</u>	Projected
			<u>264</u>	Actual
			<u>75</u>	Difference

*339 children were generated by the New Housing, during a period when enrollments were increase by only 264 children.*

According to the Multipliers, 339 children were generated by the New Housing, during a period when enrollments were increase by only 264 children. This difference is attributed to other factors in the projection such as the nearly flat growth in Child-bearing Age population. Re-stated, enrollments would have decreased moderately (75 students over the six years) without the new housing.

*Restated, enrollments would have decreased moderately (75 students over the six years) without the new housing.*

The historic level of Children from New Housing is established at 339 over 6 years (5 changes) or 68 students per year. This is the benchmark by which future impacts will be adjusted. In terms of projecting future enrollments, that means 68 students per year from new housing are already "counted" and must be subtracted in each year from any estimate of students from future new housing.

*In future projections of students from new housing, only those students above 68 per year will be added to the standard Cohort Survival projection.*

## Children from New Housing Impact on Future Enrollment High and Moderate Projections

On the previous page, the historic level of Children from New Housing is established at 339 over 6 years (5 changes) or 68 students per year, and that 68 students would be the benchmark by which future impacts will be adjusted.

A further assumption in this study is that all housing will be developed in equal numbers and types in each year of the projection. However, the build-out of either 5800 units or only 1860 units would have different absorption rates.

**HIGH PROJECTION:** If a total of 5827 units are developed, absorption would be over 15 years. That average would be 388 units per year as compared to the recent yearly average of 128 units per year.

The 2776 children generated by these 5827 units over 15 years would average 185 new children per year, but we must subtract 68 new students per year as already counted in the standard cohort method. Therefore a level of 388 units per year will only increase enrollments by 117 students per year. Enrollments would increase by 585 students in the first five years, and by 1,170 at the end of our 10-year extended period. Over the 15-year build-out, enrollment would increase by 1755 students.

*Analysis of the high projection shows an increase of 585 students in five years and 1170 students in ten years.*

**MODERATE PROJECTION:** The lower estimate for “probable” new housing is only 1866 units and 756 children. Absorption of these fewer units might be only 10 years or 187 units per year. That is 59 more units per year as compared to the recent average. However they are primarily multi-family units, with smaller multipliers.

*Analysis of the moderate projection shows an increase of only 35 children in five years, and 70 students in ten years.*

Over 10 years, those 1866 units would generate 75 new students per year, but increase enrollment by only 7 students per year, after reducing new students by the 68 per year already counted in the standard methodology. That projection, over 10 years, is for an increase of only 70 students.

The assumptions in both scenarios is that all other impacting trends would stay the same. While this is a viable assumption for 5 years, it is highly unlikely for 10 or 15 year periods, which projections become less accurate.



Summary Tables of Historic & Projected Enrollment  
STANDARD CS METHOD Plus Impact of MODERATE DEVELOPMENT

3.1 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	2000 - 01	259	254	283	282	265	307	278	241	252	346	284	250	174	3475
	2001 - 02	270	277	243	278	288	260	276	278	246	296	298	235	205	3450
	2002 - 03	273	262	272	254	263	291	253	272	299	301	277	275	216	3508
	2003 - 04	261	279	254	275	257	273	288	269	296	363	266	255	229	3565
	2004 - 05	312	300	322	290	316	278	284	305	289	384	340	269	248	3937
	2005 - 06	278	296	279	284	274	276	262	284	292	366	296	284	231	3702
Projected	2006 - 07	264	288	297	283	289	274	268	268	296	361	321	267	250	3727
	2007 - 08	278	273	287	300	288	288	266	274	280	367	318	291	237	3747
	2008 - 09	249	287	273	292	306	288	280	272	286	346	322	287	257	3745
	2009 - 10	275	258	286	277	296	305	279	286	284	354	305	292	254	3750
	2010 - 11	275	283	257	291	282	296	296	286	300	350	311	275	258	3761
	2011 - 12	276	284	284	260	295	281	287	303	298	369	309	282	244	3773
Extended	2012 - 13	276	284	284	287	265	295	273	294	317	368	325	279	249	3797
	2013 - 14	277	285	285	288	292	264	286	279	307	390	324	295	247	3820
	2014 - 15	277	285	285	288	293	292	257	293	292	379	344	293	260	3838
	2015 - 16	278	286	286	289	294	292	283	263	306	360	333	311	259	3840

3.2 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	2000 - 01	658		125	104	18	241
	2001 - 02	648		114	104	37	251
	2002 - 03	655		120	114	36	270
	2003 - 04	658	24	105	123	32	284
	2004 - 05	674		131	125	31	287
	2005 - 06	670		119	111	33	263
Projected	2006 - 07	647		121	114	34	268
	2007 - 08	641		122	112	34	268
	2008 - 09	615		120	114	34	268
	2009 - 10	603		120	116	33	269
	2010 - 11	603		119	120	33	272
	2011 - 12	603		119	121	33	273
Extended	2012 - 13	603		119	120	34	273
	2013 - 14	603		119	118	35	272
	2014 - 15	603		121	114	35	270
	2015 - 16	603		121	115	35	270

3.3 Pre Kindergarten

		Births 3 Yrs Ago	Births 4 Yrs Ago	Pre K 3 Yr Olds	Pre K 4 Yr Olds	Pre K Total
Historic	2000 - 01	331	327			
	2001 - 02	317	331			
	2002 - 03	338	317			
	2003 - 04	320	338		24	24
	2004 - 05	354	320		22	22
	2005 - 06	316	354		21	21
Projected	2006 - 07	331	316		21	21
	2007 - 08	310	331		22	22
	2008 - 09	304	310		21	21
	2009 - 10	298	304		20	20
	2010 - 11	298	298		20	20
	2011 - 12	298	298		22	22
Extended	2012 - 13	298	298		22	22
	2013 - 14	298	298		22	22
	2014 - 15	298	298		22	22
	2015 - 16	298	298		22	22

3.4 District Summary

		Pre K Total	SCSE Total	Gen'l Educ	District Total
Historic	2000 - 01		247	3475	3722
	2001 - 02		255	3450	3705
	2002 - 03		270	3508	3778
	2003 - 04	24	284	3565	3873
	2004 - 05	22	287	3937	4246
	2005 - 06	21	263	3702	3986
Projected	2006 - 07	21	268	3727	4017
	2007 - 08	22	268	3747	4037
	2008 - 09	21	268	3745	4034
	2009 - 10	20	269	3750	4040
	2010 - 11	20	272	3761	4052
	2011 - 12	22	273	3773	4067
Extended	2012 - 13	22	273	3797	4092
	2013 - 14	22	272	3820	4113
	2014 - 15	22	270	3838	4130
	2015 - 16	22	270	3840	4132

## Cohort Survival Plus Impact of Accelerated Housing Moderate Projection

In this moderate projection, 7 additional students were added to year 2006-07 standard projections. One student each was added to grades K-6. Similarly, 14 students were added to year 07-08, 28 to year 09-10, etc., in accordance with the schedule presented on the previous page.

All additional students are added to the general education grades. No students are added to Special Education or Pre-K.

*This is the recommended projection substantiating growth of 66 students in the Projected period and An additional 80 students in the Extended period.*



4.0 Summary Tables of Historic & Projected Enrollment  
STANDARD CS METHOD Plus Impact of HIGH DEVELOPMENT

4.1 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	2000 - 01	259	254	283	282	265	307	278	241	252	346	284	250	174	3475
	2001 - 02	270	277	243	278	288	260	276	278	246	296	298	235	205	3450
	2002 - 03	273	262	272	254	263	291	253	272	299	301	277	275	216	3508
	2003 - 04	261	279	254	275	257	273	288	269	296	363	266	255	229	3565
	2004 - 05	312	300	322	290	316	278	284	305	289	384	340	269	248	3937
	2005 - 06	278	296	279	284	274	276	262	284	292	366	296	284	231	3702
Projected	2006 - 07	272	296	305	291	297	282	276	277	305	370	330	276	259	3837
	2007 - 08	294	290	304	317	305	305	283	291	297	384	335	308	254	3967
	2008 - 09	274	312	298	317	331	313	305	297	312	372	348	313	283	4075
	2009 - 10	308	291	320	311	330	339	313		318	388	339	326	288	3870
	2010 - 11	317	325	299	333	324	338	338	328	342	393	354	318	301	4311
	2011 - 12	326	334	334	311	346	332	338	354	349	420	360	333	295	4433
Extended	2012 - 13	335	343	343	346	324	354	332	353	376	427	385	339	309	4567
	2013 - 14	344	352	352	355	360	332	354	347	375	458	392	363	315	4700
	2014 - 15	353	361	361	364	369	368	333	369	368	455	420	370	337	4828
	2015 - 16	362	370	370	373	378	377	368	348	391	445	418	396	344	4940

4.2 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	2000 - 01	658		125	104	18	247
	2001 - 02	648		114	104	37	255
	2002 - 03	655		120	114	36	270
	2003 - 04	658	24	105	123	32	284
	2004 - 05	674		131	125	31	287
	2005 - 06	670		119	111	33	263
Projected	2006 - 07	647		121	114	34	268
	2007 - 08	641		122	112	34	268
	2008 - 09	615		120	114	34	268
	2009 - 10	603		120	116	33	269
	2010 - 11	603		119	120	33	272
	2011 - 12	603		119	121	33	273
Extended	2012 - 13	603		119	120	34	273
	2013 - 14	603		119	118	35	272
	2014 - 15	603		121	114	35	270
	2015 - 16	603		121	115	35	270

4.3 Pre Kindergarten

		Births 3 Yrs Ago	Births 4 Yrs Ago	Pre K 3 Yr Olds	Pre K 4 Yr Olds	Pre K Total
Historic	2000 - 01	331	327			
	2001 - 02	317	331			
	2002 - 03	338	317			
	2003 - 04	320	338		24	24
	2004 - 05	354	320		22	22
	2005 - 06	316	354		21	21
Projected	2006 - 07	331	316		21	21
	2007 - 08	310	331		22	22
	2008 - 09	304	310		21	21
	2009 - 10	298	304		20	20
	2010 - 11	298	298		20	20
	2011 - 12	298	298		22	22
Extended	2012 - 13	298	298		22	22
	2013 - 14	298	298		22	22
	2014 - 15	298	298		22	22
	2015 - 16	298	298		22	22

4.4 District Summary

		Pre K Total	SCSE Total	Gen'l Educ	District Total
Historic	2000 - 01		247	3475	3722
	2001 - 02		255	3450	3705
	2002 - 03		270	3508	3778
	2003 - 04	24	284	3565	3873
	2004 - 05	22	287	3937	4246
	2005 - 06	21	263	3702	3986
Projected	2006 - 07	21	268	3837	4127
	2007 - 08	22	268	3967	4257
	2008 - 09	21	268	4075	4364
	2009 - 10	20	269	3870	4160
	2010 - 11	20	272	4311	4602
	2011 - 12	22	273	4433	4727
Extended	2012 - 13	22	273	4567	4862
	2013 - 14	22	272	4700	4993
	2014 - 15	22	270	4828	5120
	2015 - 16	22	270	4940	5232

## Cohort Survival Plus Impact of Accelerated Housing High Projection

In this moderate projection, 117 additional students were added to year 2006-07 standard projections. Nine students each were added to grades K-12. Similarly, 234 students were added to year 07-08, and 351 to year 09-10, etc., in accordance with the schedule presented on page 27.

All additional students are added to the general education grades. No students are added to Special Education or Pre-K.

*This is an unlikely projection projection based on development of 388 units per year as compared to the recent yearly average of 128 units per year.*

*That rate of development substantiates growth of 666 students in the Projected period and an additional 630 students in the Extended period.*

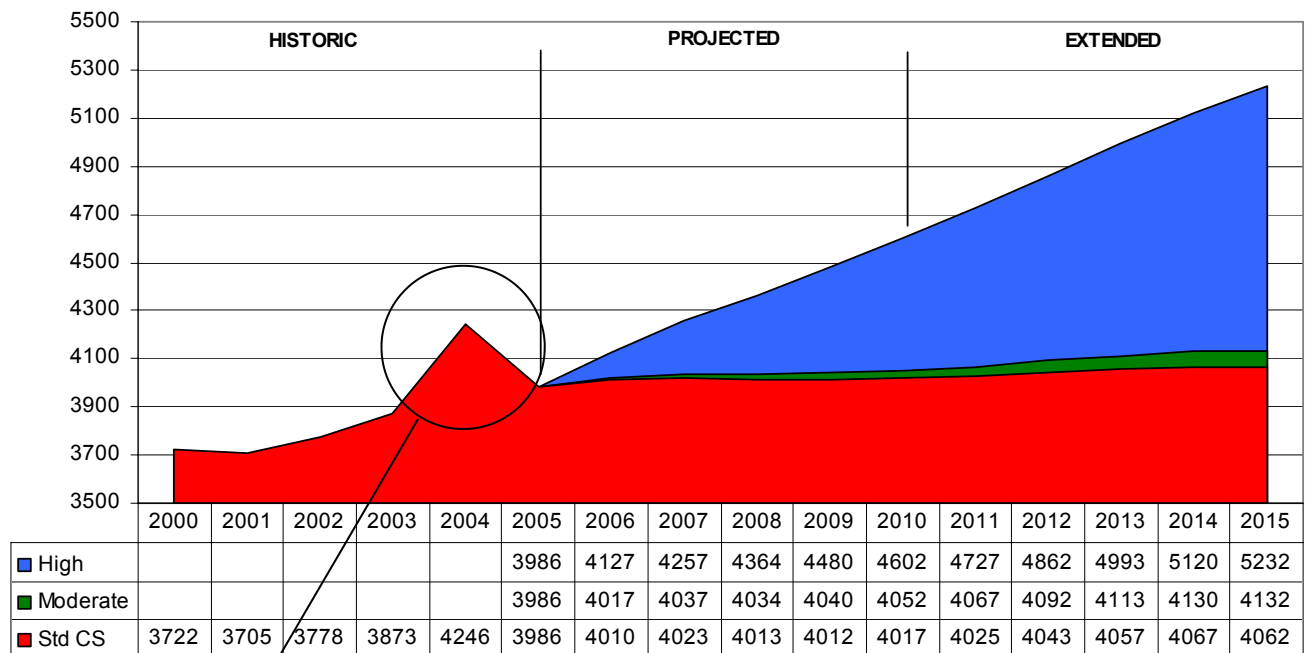


## District Wide Enrollment Projections

Over five years of the projected period, the district will grow from 3986 students to about 4050 in the moderate growth scenario and to 4600 in the high growth scenario.

Over the second five year period, the district will grow to about 4130 in the moderate growth scenario and to 5230 in the high growth scenario.

### District-wide Enrollments



**SPECIAL NOTE:** After steady growth of about 50 students per year, the 03-04 enrollment grew by about 400 in 04-05. This would have been understandable if all the 600 MF+ units were coming on-line at the same time. But the drop, by 260 students in the 05-06 numbers tells a different story. Families did not move in and out! This is an anomaly, and the decrease is not understood. However, the 05-06 enrollment is in-line with what was, and probably continues to be, growth of about 50 students per year district-wide. Since the Cohort Survival Ratios are averages (the big increase was offset by the smaller decrease), and this 05-06 enrollment which is our departure point looks consistent, the analyses and results would not differ significantly from what we are projecting with the anomaly.

*Ewing Township school enrollments will increase moderately in the future, under both the standard cohort survival and moderate development (186 units per year) scenarios.*

*Significant increases of 117 students per year could result from the high growth scenario of 388 units per year.*



Elementary School enrollments in the historic period grew by 52 students to the current level of 1827 students.

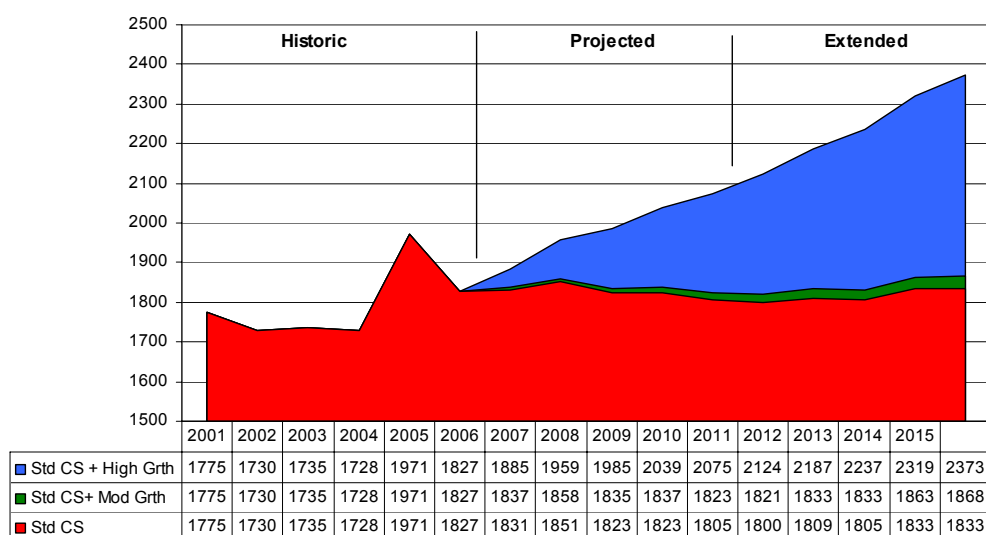
## Pre K to Grade 5

Enrollment Projections

The 5-year projection shows minor losses in the standard and moderate growth scenarios. The high growth scenario indicated growth by 248 students to a new high of 2075.

The extended 10-year projection indicates increases of between 28 and 45 students in the standard and moderate growth scenarios, and of another 298 students in the high growth scenario.

PreK - Gr 5 Enrollments



*Grades PreKSE to 5 combined enrollments will be fairly stable over the next 10 years under the standard and moderate growth projections.*

*The high growth projection increases to a new high of 2075 in the fifth year of the projection and 2373 in the tenth year of the projection.*

A year-by-year summary of findings is as follows;

*Any increase in enrollment under the high growth scenario will occur in the current Lore elementary school district.*

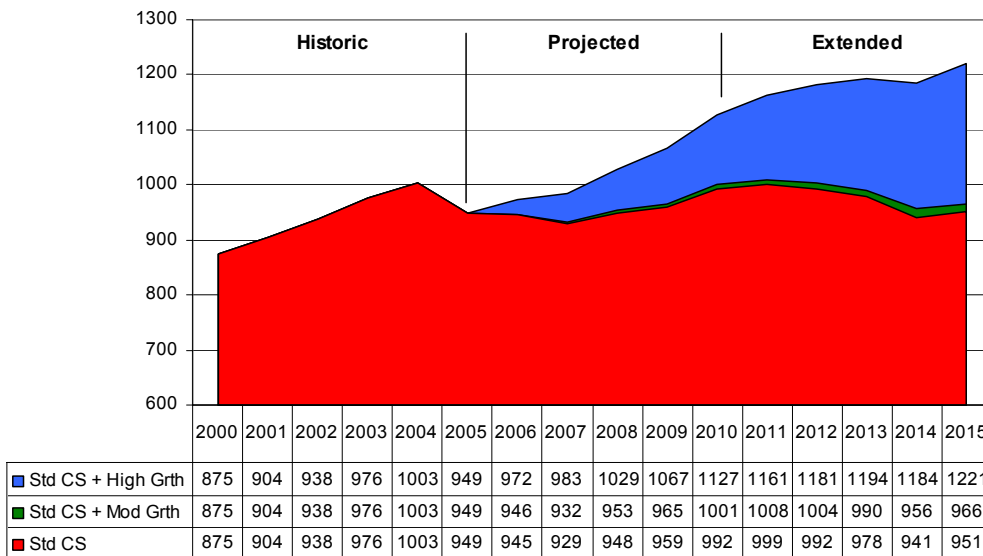
		Std CS					Std CS + Mod Growth					Std CS + High Growth				
		SCSE		K-5			SCSE		K-5			SCSE		K-5		
		PreK	K-5	SCSE	Total		PreK	K-5	SCSE	Total		PreK	K-5	SCSE	Total	
Historic	2000 - 01	0	1650	125	1775		0	1650	125	1775		0	1650	125	1775	
	2001 - 02	0	1616	114	1730		0	1616	114	1730		0	1616	114	1730	
	2002 - 03	0	1615	120	1735		0	1615	120	1735		0	1615	120	1735	
	2003 - 04	24	1599	105	1728		24	1599	105	1728		24	1599	105	1728	
	2004 - 05	22	1818	131	1971		22	1818	131	1971		22	1818	131	1971	
	2005 - 06	21	1687	119	1827		21	1687	119	1827		21	1687	119	1827	
Projected	2006 - 07	21	1690	121	1831		21	1696	121	1837		21	1744	121	1885	
	2007 - 08	22	1707	122	1851		22	1714	122	1858		22	1815	122	1959	
	2008 - 09	21	1682	120	1823		21	1694	120	1835		21	1844	120	1985	
	2009 - 10	20	1682	120	1823		20	1696	120	1837		20	1898	120	2039	
	2010 - 11	20	1666	119	1805		20	1684	119	1823		20	1936	119	2075	
	2011 - 12	22	1660	119	1800		22	1681	119	1821		22	1984	119	2124	
Extended	2012 - 13	22	1668	119	1809		22	1692	119	1833		22	2046	119	2187	
	2013 - 14	22	1664	119	1805		22	1692	119	1833		22	2096	119	2237	
	2014 - 15	22	1690	121	1833		22	1720	121	1863		22	2176	121	2319	
	2015 - 16	22	1690	121	1833		22	1725	121	1868		22	2230	121	2373	



## Grade 6-8 Enrollment Projections

Grade 6-8 enrollments fluctuated between 875 and 1003 during the historic period and are projected to repeat at these same levels in the standard and moderate growth projections. In the high growth scenario, grades 6-8 might increase to 1127 in the 5-year projection and

**Gr 6-8 Enrollment**



*Grades 6-8 enrollments which peaked at 1003 students in the historic period, will remain around 1000 in both the standard and moderate projections.*

*In the high growth scenario grades 6-8 might increase to 1127 in the 5-year projection and to 1221 in the 10-year projection.*

A year-by-year summary of findings is as follows;

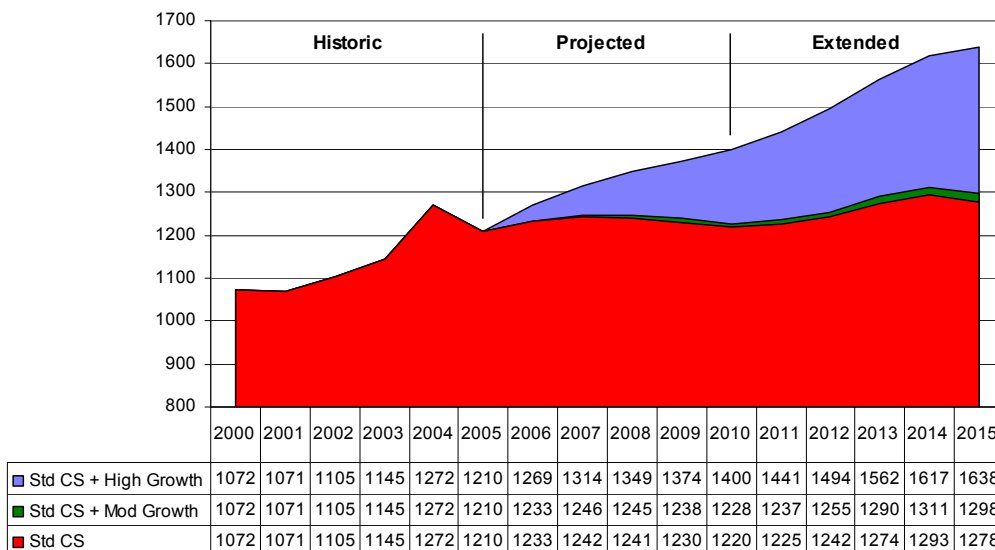
		Std CS			Std CS + Mod Grow			Std CS High Growth		
		6-8			5-8			6-8		
		6-8 SCSE Total			6-8 SCSE Total			6-8 SCSE Total		
Historic	2000 - 01	771	104	875	771	104	875	771	104	875
	2001 - 02	800	104	904	800	104	904	800	104	904
	2002 - 03	824	114	938	824	114	938	824	114	938
	2003 - 04	853	123	976	853	123	976	853	123	976
	2004 - 05	878	125	1003	878	125	1003	878	125	1003
	2005 - 06	838	111	949	838	111	949	838	111	949
Projected	2006 - 07	831	114	945	832	114	946	858	114	972
	2007 - 08	817	112	929	820	112	932	871	112	983
	2008 - 09	834	114	948	839	114	953	915	114	1029
	2009 - 10	843	116	959	849	116	965	951	116	1067
	2010 - 11	873	120	992	882	120	1001	1008	120	1127
Extended	2011 - 12	879	121	999	888	121	1008	1041	121	1161
	2012 - 13	872	120	992	884	120	1004	1061	120	1181
	2013 - 14	860	118	978	872	118	990	1076	118	1194
	2014 - 15	827	114	941	842	114	956	1070	114	1184
	2015 - 16	836	115	951	851	115	966	1106	115	1221

## Grade 9-12 Enrollment Projections

High School enrollments grew by 200 students over the last six years to a high of 1272 students before decreasing to 1210. Enrollments are projected to continue to grow moderately to 1240-45 in the first five years and to around 1300 in the second five years.

The high growth projection increases to 1400 students by 2010 and to 1638 students by 2015.

**Grades 9-12 Enrollment**



*Grades 9-12 enrollments, which peaked at 1272 students in the historic period, will peak at 1293 in the extended period of the standard projection and at 1311 in the moderate growth projection.*

*The high growth projection increases to 1400 students in the five-year projection and to 1638 students in the 10-year extended projection.*

A year-by-year summary of findings is as follows;

		Std CS			Std CS + Mod Growth			Std CS High Growth		
		9-12			9-12			9-12		
		9-12	SCSE	Total	9-12	SCSE	Total	9-12	SCSE	Total
Historic	2000 - 01	1054	18	1072	1054	18	1072	1054	18	1072
	2001 - 02	1034	37	1071	1034	37	1071	1034	37	1071
	2002 - 03	1069	36	1105	1069	36	1105	1069	36	1105
	2003 - 04	1113	32	1145	1113	32	1145	1113	32	1145
	2004 - 05	1241	31	1272	1241	31	1272	1241	31	1272
	2005 - 06	1177	33	1210	1177	33	1210	1177	33	1210
Projected	2006 - 07	1199	34	1233	1199	34	1233	1235	34	1269
	2007 - 08	1208	34	1242	1212	34	1246	1280	34	1314
	2008 - 09	1208	34	1241	1212	34	1245	1316	34	1349
	2009 - 10	1197	33	1230	1205	33	1238	1341	33	1374
	2010 - 11	1186	33	1220	1194	33	1228	1366	33	1400
	2011 - 12	1192	33	1225	1204	33	1237	1408	33	1441
Extended	2012 - 13	1208	34	1242	1221	34	1255	1460	34	1494
	2013 - 14	1240	35	1274	1256	35	1290	1528	35	1562
	2014 - 15	1258	35	1293	1276	35	1311	1582	35	1617
	2015 - 16	1244	35	1278	1264	35	1298	1604	35	1638



## Appendix: NJ DOE Cohort Survival Worksheet

Table 1 - **5 Year Enrollment Projections by Grade Level and Year**  
Standard Cohort Survival Methodology as recommended  
by the New Jersey Department of Education

Table 2 - **Extended 10 Year Enrollment Projections by Grade  
Level and Year** - District-wide

Table 3 - **Extended 10 Year Enrollment Projections by Grade  
Level and Year** - Antheil Elementary School

Table 4 - **Extended 10 Year Enrollment Projections by Grade  
Level and Year** - Lore Elementary School

Table 5 - **Extended 10-year Year Enrollment Projections by Grade  
Level and Year** - Parkway Elementary School



Cohort-Survival Enrollment Projection Worksheet

DISTRICT NAME: 1430 - Ewing Township

COUNTY: 21 - Mercer

DIRECTIONS: 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:

"s" = survival rate

School Year	Births 5 Yrs. Ago	"s"	K "s"	1st Gr. "s"	2nd Gr. "s"	3rd Gr. "s"	4th Gr. "s"	5th Gr. "s"	K-5 Subt.	SCSE	K-5 Total (excl. PK)	PK SCSE	PK 3 yrs.	PK 4yrs.	PK-5 Total	"s"	6th Gr. "s"	7th Gr. "s"	8th Gr. "s"	6-8 Subt.	SCSE	6-8 Total	"s"	9th Gr. "s"	10th Gr. "s"	11th Gr. "s"	12th Gr. "s"	9-12 Subt.	SCSE	9-12 Total	PK Subt. excl. SCSE	K-12 Subt. excl. SCSE	K-12 Total	PK-12 Total	
HISTORIC DATA																																			
2000-01	327	0.792	259	254	283	282	265	307	1650	125	1775	0	0	0	1775	278	241	252	771	104	875	346	284	250	174	1054	18	1072	0	3475	3722	3722			
			1.069	0.957	0.982	1.021	0.981									0.899	1.000	1.021				1.175	0.861	0.827	0.820										
2001-02	331	0.816	270	277	243	278	288	260	1616	114	1730	0	0	0	1730	276	278	246	800	104	904	296	298	235	205	1034	37	1071	0	3450	3705	3705			
			0.970	0.982	1.045	0.946	1.010									0.973	0.986	1.076				1.224	0.936	0.923	0.919										
2002-03	317	0.861	273	262	272	254	263	291	1615	120	1735	0	0	0	1735	253	272	299	824	114	938	301	277	275	216	1069	36	1105	0	3508	3778	3778			
			1.022	0.969	1.011	1.012	1.038									0.990	1.063	1.088				1.214	0.884	0.921	0.833										
2003-04	338	0.772	261	279	254	275	257	273	1599	105	1704	24	0	24	1752	288	269	296	853	123	976	363	266	255	229	1113	32	1145	48	3565	3825	3873			
			1.149	1.154	1.142	1.149	1.082									1.040	1.059	1.074				1.297	0.937	1.011	0.973										
2004-05	320	0.975	312	300	322	290	316	278	1818	131	1949	0	0	22	1971	284	305	289	878	125	1003	384	340	269	248	1241	31	1272	22	3937	4224	4246			
			0.949	0.930	0.882	0.945	0.873									0.942	1.000	0.957				1.266	0.771	0.835	0.859										
2005-06	354	0.785	278	296	279	284	274	276	1687	119	1806	0	0	21	1827	262	284	292	838	111	949	366	296	284	231	1177	33	1210	21	3702	3965	3986			
Average Survival Rate	0.834		1.032	0.998	1.012	1.015	0.997		% Pop 6 Yr	7%						0.969	1.022	1.043	% Pop 6 Yr	14%		1.235	0.878	0.903	0.881	% Pop 6 Yr	3%								
PROJECTIONS																																			
2006-07	316	0.834	263	287	296	282	288	273	1690	121	1810	0	0	21	1831	267	268	296	831	114	945	361	321	267	250	1199	34	1233	21	3720	3989	4010			
			1.032	0.998	1.012	1.015	0.997									0.969	1.022	1.043				1.235	0.878	0.903	0.881										
2007-08	331	0.834	276	272	286	299	287	287	1707	122	1829	0	0	22	1851	265	273	279	817	112	929	366	317	290	236	1208	34	1242	22	3733	4001	4023			
			1.032	0.998	1.012	1.015	0.997									0.969	1.022	1.043				1.235	0.878	0.903	0.881										
2008-09	296	0.834	247	285	271	290	304	286	1682	120	1803	0	0	21	1823	278	270	285	834	114	948	345	321	286	256	1208	34	1241	21	3724	3992	4013			
			1.032	0.998	1.012	1.015	0.997									0.969	1.022	1.043				1.235	0.878	0.903	0.881										
2009-10	326	0.834	272	255	284	275	294	303	1682	120	1803	0	0	20	1823	277	284	282	843	116	959	352	303	290	252	1197	33	1230	20	3722	3992	4012			
			1.032	0.998	1.012	1.015	0.997									0.969	1.022	1.043				1.235	0.878	0.903	0.881										
2010-11	326	0.834	272	280	254	288	279	293	1666	119	1786	0	0	20	1805	293	283	297	873	120	992	348	309	273	256	1186	33	1220	20	3726	3998	4017			

Change # Students	-21	-20	-22	35	43	9	10	31
Change % Students	-1%	-1%	-1%	4%	5%	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 Greenvale Ct. Cherry Hill NJ 08034

Name: George B. Sundell Tel 856-755-0174 Email: GSundell1@comcast.net

Signature: George B Sundell Date: February 22, 2006



Extended Cohort-Survival Enrollment Projection Worksheet

DISTRICT NAME: 1430 - Ewing Township

COUNTY: 21 - Mercer

School Year	Births 5 Yrs. Ago	"s"	K	1st Gr.	2nd Gr.	3rd Gr.	4th Gr.	5th Gr.	K-5 Subt.	SCSE	K-5 Total (excl. PK)	PK SCSE	PK 3 yrs.	PK 4yrs.	PK-5 Total	6th Gr.	7th Gr.	8th Gr.	6-8 Subt.	SCSE	6-8 Total	9th Gr.	10th Gr.	11th Gr.	12th Gr.	9-12 Subt.	SCSE	9-12 Total	PK Subt.	K-12 Subt. excl. SCSEw/ SCSE	K-12 Total	PK-12 Total
	"s"		"s"	"s"	"s"	"s"	"s"	"s"	"s"	"s"	"s"	"s"	"s"	"s"	"s"	"s"	"s"	"s"	"s"	"s"	"s"	"s"	"s"	"s"	"s"	"s"	"s"	"s"	"s"	"s"	"s"	"s"
HISTORIC DATA																																
2000-01	327	0.792	259	254	283	282	265	307	1650	125	1775	0	0	0	1775	278	241	252	771	104	875	346	284	250	174	1054	18	1072	0	3475	3722	3722
			1.069	0.957	0.982	1.021	0.981									0.899	1.000	1.021				1.175	0.861	0.827	0.820							
2001-02	331	0.816	270	277	243	278	288	260	1616	114	1730	0	0	0	1730	276	278	246	800	104	904	296	298	235	205	1034	37	1071	0	3450	3705	3705
			0.970	0.982	1.045	0.946	1.010									0.973	0.986	1.076				1.224	0.936	0.923	0.919							
2002-03	317	0.861	273	262	272	254	263	291	1615	120	1735	0	0	0	1735	253	272	299	824	114	938	301	277	275	216	1069	36	1105	0	3508	3778	3778
			1.022	0.969	1.011	1.012	1.038									0.990	1.063	1.088				1.214	0.884	0.921	0.833							
2003-04	338	0.772	261	279	254	275	257	273	1599	105	1704	24	0	24	1752	288	269	296	853	123	976	363	266	255	229	1113	32	1145	48	3565	3825	3873
			1.149	1.154	1.142	1.149	1.082									1.040	1.059	1.074				1.297	0.937	1.011	0.973							
2004-05	320	0.975	312	300	322	290	316	278	1818	131	1949	0	0	22	1971	284	305	289	878	125	1003	384	340	269	248	1241	31	1272	22	3937	4224	4246
			0.949	0.930	0.882	0.945	0.873									0.942	1.000	0.957				1.266	0.771	0.835	0.859							
2005-06	354	0.785	278	296	279	284	274	276	1687	119	1806	0	0	21	1827	262	284	292	838	111	949	366	296	284	231	1177	33	1210	21	3702	3965	3986
Average Survival Rate	0.834		1.032	0.998	1.012	1.015	0.997		% Pop 6 Yr	7%						0.969	1.022	1.043	% Pop 6 Yr	14%		1.235	0.878	0.903	0.881	% Pop 6 Yr	3%					
PROJECTIONS																																
2006-07	316	0.834	263	287	296	282	288	273	1690	121	1810	0	0	21	1831	267	268	296	831	114	945	361	321	267	250	1199	34	1233	21	3720	3989	4010
			1.032	0.998	1.012	1.015	0.997									0.969	1.022	1.043				1.235	0.878	0.903	0.881							
2007-08	331	0.834	276	272	286	299	287	287	1707	122	1829	0	0	22	1851	265	273	279	817	112	929	366	317	290	236	1208	34	1242	22	3733	4001	4023
			1.032	0.998	1.012	1.015	0.997									0.969	1.022	1.043				1.235	0.878	0.903	0.881							
2008-09	296	0.834	247	285	271	290	304	286	1682	120	1803	0	0	21	1823	278	270	285	834	114	948	345	321	286	256	1208	34	1241	21	3724	3992	4013
			1.032	0.998	1.012	1.015	0.997									0.969	1.022	1.043				1.235	0.878	0.903	0.881							
2009-10	326	0.834	272	255	284	275	294	303	1682	120	1803	0	0	20	1823	277	284	282	843	116	959	352	303	290	252	1197	33	1230	20	3722	3992	4012
			1.032	0.998	1.012	1.015	0.997									0.969	1.022	1.043				1.235	0.878	0.903	0.881							
2010-11	326	0.834	272	280	254	288	279	293	1666	119	1786	0	0	20	1805	293	283	297	873	120	992	348	309	273	256	1186	33	1220	20	3726	3998	4017
Change # Students									-21	-20	-22																9	10			31	
Change % Students									-1.2%	-1.1%	-1.2%																0.8%	0.8%			0.8%	
EXTENDED PROJECTIONS																																
2011-12	326	0.834	272	280	280	257	292	278	1660	119	1778	0	0	22	1800	284	300	295	879	121	999	366	306	279	241	1192	33	1225	22	3731	4003	4025
			1.032	0.998	1.012	1.015	0.997									0.969	1.022	1.043				1.235	0.878	0.903	0.881							
2012-13	326	0.834	272	280	280	283	261	291	1668	119	1787	0	0	22	1809	269	290	313	872	120	992	364	322	276	246	1208	34	1242	22	3748	4021	4043
			1.032	0.998	1.012	1.015	0.997									0.969	1.022	1.043				1.235	0.878	0.903	0.881							
2013-14	326	0.834	272	280	280	283	288	260	1664	119	1783	0	0	22	1805	282	275	303	860	118	978	386	320	291	243	1240	35	1274	22	3764	4035	4057
			1.032	0.998	1.012	1.015	0.997									0.969	1.022	1.043				1.235	0.878	0.903	0.881							
2014-15	326	0.834	272	280	280	283	288	287	1690	121	1811	0	0	22	1833	252	288	287	827	114	941	374	339	289	256	1258	35	1293	22	3775	4045	4067
			1.032	0.998	1.012	1.015	0.997									0.969	1.022	1.043				1.235	0.878	0.903	0.881							
2015-16	326	0.834	272	280	280	283	288	287	1690	121	1811	0	0	22	1833	278	258	301	836	115	951	355	328	306	254	1244	35	1278	22	3770	4040	4062
Change # Students									24	25	28																57	59			45	
Change % Students									1.4%	1.4%	1.5%																4.8%	4.8%			1.1%	

CERTIFICATION:  
(complete one)

The above information is prepared and certified by the district.

District Representative Name: \_\_\_\_\_

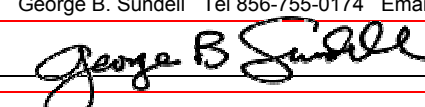
Title: \_\_\_\_\_


Signature: \_\_\_\_\_

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

Firm Name: Sundance Associates 117 Greenvale Ct. Cherry Hill NJ 08034

Name: George B. Sundell Tel 856-755-0174 Email: GSundell1@comcast.net

Signature:  Date: February 23, 2006



# Extended Cohort-Survival Enrollment Projection Worksheet

DISTRICT NAME: **1430 - Ewing Township - Anthel Elementary School**

COUNTY: **21 - Mercer**

School Year	Births 5 Yrs. Ago	"s"	K "s"	1st Gr. "s"	2nd Gr. "s"	3rd Gr. "s"	4th Gr. "s"	5th Gr. "s"	K-5 Subt.	SCSE	K-5 Total (excl. PK)	PK SCSE	PK 3 yrs.	PK 4yrs.	PK-5 Total
<b>HISTORIC DATA</b>															
2000-01	327	0.388	127	112	140	135	127	138	779	74	853	0	0	0	853
			1.031	0.929	1.007	1.007	1.016								
2001-02	331	0.399	132	131	104	141	136	129	773	69	842	0	0	0	842
			0.689	0.702	0.865	0.745	0.860								
2002-03	317	0.315	100	91	92	90	105	117	595	69	664	0	0	0	664
			1.050	0.989	1.000	1.056	1.086								
2003-04	338	0.314	106	105	90	92	95	114	602	67	669	0	0	24	693
			1.028	1.152	1.300	1.174	1.074								
2004-05	320	0.381	122	109	121	117	108	102	679	85	764	0	0	22	786
			0.902	0.991	0.860	0.915	0.889								
2005-06	354	0.308	109	110	108	104	107	96	634	69	703	0	0	21	724
Average Survival Rate	0.351		0.940	0.953	1.006	0.979	0.985		% Pop 6 Yr	11%					

<b>PROJECTIONS</b>															
2006-07	316	0.351	111	102	105	109	102	105	634	68	702	0	0	24	726
			0.940	0.953	1.006	0.979	0.985								
2007-08	331	0.351	116	104	98	105	106	100	630	67	697	0	0	24	721
			0.940	0.953	1.006	0.979	0.985								
2008-09	296	0.351	104	109	99	98	103	105	619	66	685	0	0	24	709
			0.940	0.953	1.006	0.979	0.985								
2009-10	326	0.351	114	98	104	100	96	102	614	65	679	0	0	24	703
			0.940	0.953	1.006	0.979	0.985								
2010-11	326	0.351	114	108	93	105	98	95	612	65	678	0	0	24	702

Change # Students

-22

-25

-22

Change % Students

-3.4%

-3.6%

-3.1%

<b>EXTENDED PROJECTIONS</b>															
2011-12	326	0.351	114	108	102	94	103	96	617	66	683	0	0	22	705
			0.940	0.953	1.006	0.979	0.985								
2012-13	326	0.351	114	108	102	103	92	101	620	66	686	0	0	22	708
			0.940	0.953	1.006	0.979	0.985								
2013-14	326	0.351	114	108	102	103	101	90	619	66	685	0	0	22	707
			0.940	0.953	1.006	0.979	0.985								
2014-15	326	0.351	114	108	102	103	101	99	628	67	695	0	0	22	717
			0.940	0.953	1.006	0.979	0.985								
2015-16	326	0.351	114	108	102	103	101	99	628	67	695	0	0	22	717

Change # Students

16

17

15

Change % Students

2.6%

2.6%

2.2%

Prepared by:

Sundance Associates, 117 Greenvale Ct., Cherry Hill, NJ 080345

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Fax 856-755-0176

EmailGSundell1@comcast.net



Modified NEW JERSEY DEPARTMENT OF EDUCATION, OFFICE OF SCHOOL FACILITIES, 2005 LRFP  
**Extended Cohort-Survival Enrollment Projection Worksheet**

DISTRICT NAME: **1430 - Ewing Township - Lore Elementary School**

COUNTY: **21 - Mercer**

School Year	Births 5 Yrs. Ago	"s"	K "s"	1st Gr. "s"	2nd Gr. "s"	3rd Gr. "s"	4th Gr. "s"	5th Gr. "s"	K-5 Subt.	SCSE	K-5 Total (excl. PK)	PK SCSE	PK 3 yrs.	PK 4yrs.	PK-5 Total
<b>HISTORIC DATA</b>															
2000-01	327	0.177	58	79	65	58	67	74	401	20	421	0	0	0	421
			1.034	0.949	0.938	1.069	0.985								
2001-02	331	0.208	69	60	75	61	62	66	393	17	410	0	0	0	410
			1.478	1.500	1.253	1.525	1.339								
2002-03	317	0.306	97	102	90	94	93	83	559	25	584	0	0	0	584
			0.969	0.980	1.067	0.979	0.946								
2003-04	338	0.281	95	94	100	96	92	88	565	23	588	0	0	0	588
			1.179	1.096	1.000	1.094	1.043								
2004-05	320	0.331	106	112	103	100	105	96	622	26	648	0	0	0	648
			0.906	0.946	0.951	0.950	0.905								
2005-06	354	0.263	93	96	106	98	95	95	583	26	609	0	0	0	609
Average Survival Rate	0.261		1.113	1.094	1.042	1.123	1.044		% Pop 6 Yr	4%					

<b>PROJECTIONS</b>															
2006-07	316	0.261	83	104	105	110	110	99	611	27	638	0	0	0	638
			1.113	1.094	1.042	1.123	1.044								
2007-08	331	0.261	86	92	113	109	124	115	640	28	668	0	0	0	668
			1.113	1.094	1.042	1.123	1.044								
2008-09	296	0.261	77	96	101	118	123	129	645	28	673	0	0	0	673
			1.113	1.094	1.042	1.123	1.044								
2009-10	326	0.261	85	86	105	105	133	128	642	28	670	0	0	0	670
			1.113	1.094	1.042	1.123	1.044								
2010-11	326	0.261	85	95	94	110	118	138	640	28	668	0	0	0	668

Change # Students 57 59 59  
 Change % Students 9.8% 9.7% 9.7%

<b>EXTENDED PROJECTIONS</b>															
2011-12	326	0.261	85	95	104	98	123	123	628	28	655	0	0	0	655
			1.113	1.094	1.042	1.123	1.044								
2012-13	326	0.261	85	95	104	108	110	129	631	28	658	0	0	0	658
			1.113	1.094	1.042	1.123	1.044								
2013-14	326	0.261	85	95	104	108	121	115	628	28	656	0	0	0	656
			1.113	1.094	1.042	1.123	1.044								
2014-15	326	0.261	85	95	104	108	121	127	640	28	668	0	0	0	668
			1.113	1.094	1.042	1.123	1.044								
2015-16	326	0.261	85	95	104	108	121	127	640	28	668	0	0	0	668

Change # Students 0 0 0  
 Change % Students 0.0% 0.0% 0.0%

Prepared by:

Sundance Associates, 117 Greenvale Ct., Cherry Hill, NJ 080345

Tel 856-755-0174 Fax 856-755-0176 EmailGSundell1@comcast.net



# Extended Cohort-Survival Enrollment Projection Worksheet

DISTRICT NAME: **1430 - Ewing Township - Parkway Elementary School**

COUNTY: **21 - Mercer**

School Year	Births 5 Yrs. Ago	"s"	K "s"	1st Gr. "s"	2nd Gr. "s"	3rd Gr. "s"	4th Gr. "s"	5th Gr. "s"	K-5 Subt.	SCSE	K-5 Total (excl. PK)	PK SCSE	PK 3 yrs.	PK 4yrs.	PK-5 Total
<b>HISTORIC DATA</b>															
2000-01	327	0.226	74	63	78	89	71	95	470	31	501	0	0	0	501
			1.162	1.016	0.974	1.011	0.915								
2001-02	331	0.208	69	86	64	76	90	65	450	28	478	0	0	0	478
			1.000	1.047	1.094	0.855	1.011								
2002-03	317	0.240	76	69	90	70	65	91	461	25	486	0	0	0	486
			1.053	0.928	0.967	1.000	1.092								
2003-04	338	0.178	60	80	64	87	70	71	432	15	447	0	0	0	447
			1.317	1.225	1.141	1.184	1.143								
2004-05	320	0.263	84	79	98	73	103	80	517	20	537	0	0	0	537
			1.071	0.823	0.837	0.986	0.825								
2005-06	354	0.215	76	90	65	82	72	85	470	24	494	0	0	0	494
Average Survival Rate	0.222		1.121	1.008	1.002	1.007	0.997		% Pop 6 Yr	5%					

<b>PROJECTIONS</b>															
2006-07	316	0.222	70	85	91	65	83	72	465	24	489	0	0	0	489
			1.121	1.008	1.002	1.007	0.997								
2007-08	331	0.222	73	78	86	91	66	82	477	24	501	0	0	0	501
			1.121	1.008	1.002	1.007	0.997								
2008-09	296	0.222	66	82	79	86	92	65	470	24	494	0	0	0	494
			1.121	1.008	1.002	1.007	0.997								
2009-10	326	0.222	72	73	83	79	87	91	486	25	511	0	0	0	511
			1.121	1.008	1.002	1.007	0.997								
2010-11	326	0.222	72	81	74	83	80	86	476	24	501	0	0	0	501

Change # Students

6

7

7

Change % Students

1.4%

1.4%

1.4%

<b>EXTENDED PROJECTIONS</b>															
2011-12	326	0.222	72	81	82	74	84	80	472	24	496	0	0	0	496
			1.121	1.008	1.002	1.007	0.997								
2012-13	326	0.222	72	81	82	82	75	83	475	24	499	0	0	0	499
			1.121	1.008	1.002	1.007	0.997								
2013-14	326	0.222	72	81	82	82	82	75	473	24	498	0	0	0	498
			1.121	1.008	1.002	1.007	0.997								
2014-15	326	0.222	72	81	82	82	82	82	481	25	505	0	0	0	505
			1.121	1.008	1.002	1.007	0.997								
2015-16	326	0.222	72	81	82	82	82	82	481	25	505	0	0	0	505

Change # Students

4

5

5

Change % Students

0.9%

0.9%

0.9%

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