
DEMOGRAPHIC STUDY

for the

BLOOMFIELD BOARD OF EDUCATION

Bloomfield, Essex County, State of New Jersey

Prepared By:

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Whereas, all New Jersey Public School Districts are required by and N.J.A.C. 6A:26-2.1 to prepare a Long Range Facility Plan and,
Whereas, N.J.A.C. 6A:26-2.2 requires the certification of the school district's Long Range Facility Plan demographics by a qualified demographer and,

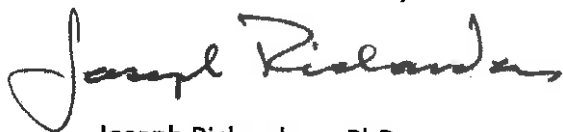
Whereas, Whitehall Associates, Inc. is considered a qualified demographer by the New Jersey Department of Education.

Therefore, Whitehall Associates, Inc. states that the demographic report it prepared for the Bloomfield Board of Education was prepared in compliance with the appropriate law and administrative code.

IMPORTANT NOTICE: The enrollments for these demographics begin with the 2007-2008 school year and end with the 2012-2013 school year. The enrollment projections are through the 2017-2018 school year. They take into account the dynamics of the district and may or may not agree with the report posted on the web by the New Jersey Department of Education (NJDOE). The NJDOE report does not take into account some of the dynamics such as residential development or changes in programs. Bernard Piaia, at the NJDOE Office of School Facilities, has agreed to accept this report, if it submitted in its complete final form, with an original signature, along with the NJDOE cohort survival worksheets for the Long Range Facility Plan.

The original of this report is on electronic file at the offices of Whitehall Associates, Inc. and is available for examination by the appropriate authorities.

For:
WHITEHALL ASSOCIATES, INC.



Joseph Richardson, PhD
President

TABLE OF CONTENTS

Introduction	4
Overview of the District	4
Special Note Concerning the Long Range Facility Plan	4
Special Note Concerning the Five Year Pre-School Program Plan	4
Note Concerning the Source of Enrollment Data	4
Enrollment Data and Projections	5
Municipal Population Trends	8
Table 1: Pre-School Data	9
Table 2: Enrollment Data, Past Six Years	10
Table 3: Enrollment Projections	11
Table 4: Residential Development Impact	12
Table 5: Enrollment Projections By School, By Grade	13

INTRODUCTION

Whitehall Associates was retained by the Bloomfield Board of Education to prepare a demographic study for the Bloomfield Public Schools. The information in this demographic report is suitable for inclusion in any document to be forwarded to the New Jersey Department of Education for matters concerning school facilities.

OVERVIEW OF THE DISTRICT

Bloomfield Township is a suburban residential community covering 5.32 square miles in Essex County, New Jersey approximately twelve miles west of New York City. The school district is in District Factor Group DE. The Board of Education maintains eleven schools in a K-12 district. Board offices are located at 155 Broad Street in Bloomfield.

SPECIAL NOTE CONCERNING THE LONG RANGE FACILITY PLAN SUBMISSION

If the cohort projections, as developed in the New Jersey Department of Education (NJDOE) Long Range Facility Plan (LRFP) electronic data sheets, do not fit a particular district, the correct information may be entered manually. Even so there are some cells on the worksheets that cannot be modified, such as the birth to kindergarten ratio in districts where the birth figures are inaccurate. If a reason exists not to use the birth to kindergarten ratios and some other method is used, such as a regression analysis of the kindergarten figures, the information may be entered manually. Any modification to the NJDOE worksheets will be fully explained in this report. In

some instances there is no way to rectify this report with the NJDOE worksheets. The Office of the Chief of Staff - School Facilities of the NJDOE will accept this report in its final form if submitted, in its entirety, along with the NJDOE worksheets. This report must be submitted with an original signature on page 2.

SPECIAL NOTE CONCERNING FIVE YEAR PRE-SCHOOL PROGRAM PLAN

As of June 13, 2008, The NJDOE promulgated N.J.A.C. 6A-13A which established the ground rules for state funded pre-school programs. One of the factors was determining the "universe". According to the definitions in paragraph 1.2, "Universe of eligible three- and four-year-old children" means all three- and four-year-old general education children eligible for preschool pursuant to the School Funding Reform Act (P.L. 2007, c. 260) in a public school district providing a *universal* or *targeted* pre-school program. This is different than what was previously used by demographers. Previously, the "universe" was considered the maximum number of students that could be expected to be enrolled in pre-school programs. It was generally accepted that this figure would be the live births for that cohort. The NJDOE Data Center now combines the pre-kindergarten figures and list them as PK.

NOTE CONCERNING THE SOURCE OF ENROLLMENT DATA

In the NJDOE forms that must be completed by school districts applying for State-funded pre-school programs, the enrollment figures are required to be obtained from the *Application for State School Aid* (ASSA). Until 1997 it was customary to use the enrollment figures from

the ASSA for all facilities related demographics. That year the form was changed to report special education students in "tiers." Some, if not the majority, of these tier students were in "pull-out" programs and occupy seats in regular classrooms except for the time they were receiving additional help. The classification of tiers was changed in 2009 to grade groupings. In either case, the students are not counted in the enrollment figures of any particular grade. Since seats must be provided for these students in their regular grade, the ASSA cannot be used for accurate student population projections where facilities planning is concerned. The Fall Survey Report on the other hand did not change and continued to identify only those special education students in self-contained classes. Full-time students with an Individualized Education Plan (IEP) were counted in the grade totals in the Fall Survey Report.

In 2010 the Fall Survey Report was eliminated by the New Jersey Department of Education (NJDOE). Official student enrollments are now computed from NJSMART using the **Program Type Codes**. This was done to standardize reporting and make it simpler for the NJDOE to prepare reports that are needed by Federal, State, and local entities.

The projections for the pre-school students are calculated by the cohort survival method. We have found this to be the most accurate method.

ENROLLMENT DATA AND PROJECTIONS

In studies for the New Jersey Department of Education, enrollment data, by grade, for the past six years is required. A five year

enrollment projection based on these data and computed by the cohort survival method is required. The resulting enrollments are used as a factor in determining the adequacy of the educational facilities. Birth figures are obtained from the Center for Health Statistics of the New Jersey Department of Health and Senior Services. Enrollment figures are as described in the previous section. The only special education students in this report are those in self-contained classrooms. Self-contained students are defined as those with 39 percent or less time in regular classes. Prior to the 2010-11 school year these students were reported by classification as special education students and by grade grouping such as pre-kindergarten, K-5, 6-8, and 9-12. Now they are grouped together as "ungraded" or "UG".

In developing a projection of five year enrollments, the cohort-survival method has been used as a base. This method is the one required by law and expected by the New Jersey Department of Education unless a cogent reason exists for another method to be used. The use of a different method must be explained and justified to the satisfaction of the Commissioner of Education.

The cohort-survival method acquires its name from the use of grade to grade survival figures derived from a recent history of the school district. Grade survival ratios at each level can then be computed on the basis of the recent years' known enrollment with an average survival ratio per grade determined. Ratios less than one usually reflect such factors as out-transfers, ex-migration from the school district and other such losses. A survival ratio of more than one usually reflects such factors as in-transfers and in-migration. Projections of enrollment can then be made by applying the individual grade

by grade survival ratio to each grade level for future years with a base of known enrollments for the present year. In reports for districts with self-contained special education students, projections are made by using the percent of population method. That is, the number of special education students is divided by the total school population to arrive at a percentage for each year. The last year's percentage in Table 2 is used to project the number of special education students reported in Table 3.

With some adaptation to local circumstances, the cohort survival method is the most accurate we have to project enrollments. In rapidly developing districts, the impact of new residential development must be taken into account. This is accomplished by using data derived from the Center for Urban Policy Research at Rutgers University and Whitehall's research. In Bloomfield's case there is no proposed residential development that will warrant the modification of the cohort survival projections.

MUNICIPAL POPULATION TRENDS

This table lists the population of Bloomfield since 1930. The largest percentage growth took place in the 1940's. There has been a decline in the overall population since 1970.

TABLE 1

The pre-kindergarten data for the district, both the "universe" and the actual is provided. Please refer back to the special comments on page 4 concerning pre-school enrollment projections.

TABLE 2

The district's enrollment history is exhibited wherein the survival ratios mentioned in the preceding paragraphs are developed. Student enrollments used were those provided by the district administration to the New Jersey Department of Education or to Whitehall Associates directly. These figures are for students housed in the district schools and do not include out of district placements. This method is standard and is fully acceptable by the Department of Education and required by law as the source of enrollments. Birth figures were obtained from the Center for Health Statistics of the New Jersey Department of Health and Senior Services (NJDOH). This also is standard and is required by law.

TABLE 3

This is the main table and is designed to be used in conferences and meetings and conforms to the NJDOE worksheet. It allows the participant to be able to refer to one page rather than searching through a document for more information. The back-up for Table 3 entries will be found in other tables. All calculations are carried to eight or more decimal places. Since there cannot be fractions of a student, the district totals may vary by one or two students if added manually. These projections can and should be updated every year.

The solid boxed area to the lower left of the table is an area of low confidence in that these children have either not been born or reported. Births in the red dashed boxed area may be shown as a regression, an average of the last nine year's births, or the last known

birth figure. In this case we used a regression analysis.

Table 3 shows the live births attributed to Bloomfield for the five years prior to the kindergarten year shown.

The projection of student enrollment for the next five years has been made. The total school population is expected to increase by 569 students or 9.23 percent in the next five years.

The line **Net Development Impact** displays, by grade, the impact residential development will have on the cohort survival projections.

The line **2017-18 Total Enrollment** combines the net development impact and the normal cohort projection for 2016-17 to give a planning figure for enrollments.

TABLE 4

This table shows the population impact of planned and approved residential development in the district. The name of the development, type, number of units, number of bedrooms and remarks were supplied by Nicole Brennan of the Bloomfield Planning and Zoning Office.

We begin with some assumptions. The cohort survival method assumes that the rate of growth during the period the data is collected will remain the same for the period of population projection. Therefore the rate of growth indicated in Table 2 will carry over to Table 3 in all cases. Now if something were to happen that changes the rate of growth, that event must be taken into account. Residential development is one of those factors. There are several options at this point:

- a. If the development impact in Table 4 is less than the projected five year increase in student population shown in Table 3, the Table 4 impact is ignored. To do otherwise would be double counting.
- b. If the development impact in Table 4 is more than the projected five year increase in student population shown in Table 3, the net impact is shown on the line labeled **Net Development Impact** in Table 3.
- c. If there is a projected decrease in the student population in Table 3, the entire Table 4 impact is considered and shown on the line labeled **Net Development Impact** in Table 3.
- d. If, within the past five years, there has been no development of the magnitude shown in Table 4, the entire Table 4 impact is considered and shown on a line labeled **Net Development Impact** in Table 3.

Since the development impact in Table 4 is less than the projected five year increase in student population shown in Table 3, the Table 4 impact is ignored.

TABLE 5

The enrollment projections by school, by grade for the year 2017-18 are shown here. The ratio of students was taken from the October 15, 2012 enrollment data supplied by the district, as mentioned in the section on the source of enrollment data, and applied to the 2017-18 district wide projections. This method is required by the NJDOE in the Long Range Facilities Plan.

**BLOOMFIELD TOWNSHIP
MUNICIPAL POPULATION TRENDS**

LAND AREA = 5.32 Sq. Mi.

YEAR	POPULATION	INCREASE	% INCREASE
1930	38,077		
		3,546	9.31%
1940	41,623		
		7,684	18.46%
1950	49,307		
		2,560	5.19%
1960	51,867		
		162	0.31%
1970	52,029		
		-4,237	-8.14%
1980	47,792		
		-2,731	-5.71%
1990	45,061		
		2,622	5.82%
2000	47,683		
		-368	-0.77%
2010	47,315		

SOURCE: U.S. Census Bureau

**TABLE 1
BLOOMFIELD SCHOOL DISTRICT
PRE-SCHOOL STUDENT ENROLLMENT HISTORY**

PRE-SCHOOL UNIVERSE CALCULATIONS

District Factor Group: **DE**

Universal Districts = 1st Grade X 2 = **894**

Targeted Districts = 1st Grade X 2 X % of free and reduced (K-12) = **354**

Number of free and reduced lunches (K-12) = **2441**

Percent of free and reduced lunches = **39.56**

YEAR	PK
ACTUAL	
07-08	132
08-09	119
09-10	0
10-11	0
11-12	0
12-13	0
PROJECTED	
13-14	0
14-15	0
15-16	0
16-17	0
17-18	0

NOTES:

1. The method for Pre-school universe calculations shown to the left above is that required by the NJDOE Pre-School Education Office.
2. The table to the right is a cohort survival calculation of actual pre-school enrollments as of the 2012-13 school year.
3. Please read the narrative concerning the Pre-school projections.

**TABLE 2
BLOOMFIELD SCHOOL DISTRICT
STUDENT ENROLLMENT HISTORY**

School Year	Births 5 Yrs. Ago	PK	K	1st Gr.	2nd Gr.	3rd Gr.	4th Gr.	5th Gr.	6th Gr.	7th Gr.	8th Gr.	9th Gr.	10th Gr.	11th Gr.	12th Gr.	UNGRADED	DISTRICT TOTAL
HISTORIC DATA																	
2007-08	590	0.23 132	0.54 317	389	409	396	474	401	433	432	440	517	428	426	446	312	5952
				1.30	1.04	1.05	1.00	0.95	1.02	0.99	1.08	1.18	0.90	1.03	0.95		
2008-09	562	0.18 119	0.57 319	411	406	430	396	451	408	430	466	517	463	442	404	255	5917
				1.23	1.00	1.00	0.97	1.02	1.04	1.03	0.97	1.15	0.90	0.84	1.06		
2009-10	678	0.00 0	0.63 428	393	411	407	416	402	469	421	417	537	466	388	470	263	5888
				1.06	1.01	1.01	1.05	1.03	1.03	1.01	1.05	1.18	0.91	0.93	1.02		
2010-11	629	0.00 0	0.71 446	454	397	415	426	430	414	474	443	493	486	433	396	241	5948
				1.06	1.00	1.05	0.99	1.06	0.98	1.03	0.97	1.09	0.89	1.01	0.95		
2011-12	650	0.00 0	0.76 494	472	453	415	412	453	420	428	460	484	441	493	411	223	6059
				0.90	0.98	0.99	1.01	1.01	1.00	1.00	1.01	1.18	0.96	1.04	0.94		
2012-13	699	0.00 0	0.71 495	447	464	450	420	416	455	422	432	542	466	458	461	242	6170
Average Survival Ratio		0.00	0.73	1.11	1.01	1.02	1.00	1.01	1.01	1.02	1.16	0.91	0.97	0.98			

NOTE: Due to the increase in the birth to kindergarten ratios, only an average of the last three years was used in this report.

**TABLE 3
BLOOMFIELD SCHOOL DISTRICT
STUDENT ENROLLMENT PROJECTIONS**

School Year	Births 5 Yrs. Ago	PK	K	1st Gr.	2nd Gr.	3rd Gr.	4th Gr.	5th Gr.	PK-5 Total	6th Gr.	7th Gr.	8th Gr.	6-8 Total	9th Gr.	10th Gr.	11th Gr.	12th Gr.	9-12 Total	UNGRADED	DISTRICT TOTAL
PROJECTIONS																				
2013-14	704	0	0.73 511	550	450	473	452	426	2862	422	462	429	1312	499	494	452	450	1896	248	6318
		0.00	1.11	1.01	1.02	1.00	1.01	1.01		1.01	1.02	1.16		0.91	0.97	0.98				
2014-15	590	0	428	567	554	459	475	458	2942	432	428	469	1329	496	455	480	445	1876	251	6398
2015-16	601	0	436	475	571	565	461	482	2991	465	438	435	1338	542	452	442	472	1908	255	6492
2016-17	654	0	474	484	479	583	567	468	3055	489	471	445	1406	503	495	439	435	1871	258	6590
2017-18	658	0	477	527	488	489	585	575	3141	474	496	479	1449	515	458	480	431	1885	264	6739
NET DEVELOPMENT IMPACT																				
2017-18 TOTAL ENROLLMENT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	477	527	488	489	585	575	3141	474	496	479	1449	515	458	480	431	1885	264	6739

- NOTES:**
1. Births in the dashed boxes were calculated by a regression analysis. Students in those year groups have not been born or reported to date.
 2. The solid boxed area to the lower left of the table is an area of low confidence in that these children have not been born or reported to date.
 3. All calculations are carried to eight or more decimal places. Since there cannot be fractions of a student, the district total may vary by one or two students if added manually.

**TABLE 4
BLOOMFIELD TOWNSHIP
RESIDENTIAL DEVELOPMENT IMPACT**

DEVELOPMENT	TYPE OF UNIT	NUMBER OF		REMARKS	TOTAL STUDENTS
		UNITS	BEDROOMS		
Parkside at Bloomfield, LLC	Multifamily (5+ units - rent)	40	1-2		5
Oakes Pond	Multifamily (5+ units - rent)	332	1-2		40
Bloomfield Urban Renewal, LLC	Multifamily (studio- rent)	26	1	224 residential units, mixed studio, 1 br, 2br, 3 br	2
	Multifamily (5+ units - rent)	92	1		6
	Multifamily (5+ units - rent)	94	2		26
	Multifamily (5+ units - rent)	12	3		10
	Multifamily (2-4 units)	4	3		3
Watseasing Realty, LLC	Multifamily (2-4 units)	4	3		3
Franklin Development Group, LLC	Single Family - Attached	12	2-3		3
S&S at Park Street, LLC	Multifamily (5+ units - rent)	50	1-2		6
Prism Capital Partners, LLC	Multifamily (5+ units - own)	90	2-3		20
Lion's Gate/Scientific Glass	Multifamily (5+ units - own)	104	2-3	These properties were added at the request of the Board. Further definitive information, i.e. number of bedrooms, etc. is not available at this time.	23
General Electric Building - Phase I	Multifamily (5+ units - rent)	361	2-3		184
General Electric Building - Phase II	Single Family - Attached	150	2-3		40
Hartz Mountain	Multifamily (5+ units - rent)	395	2		109
Bloomfield School Building	Multifamily (5+ units - own)	116	2-3		26
South Jr.	Multifamily (5+ units - rent)	124	studio		7
Big M	unknown type	140	no info		
TOTALS					509

NOTES:

1. The name of the development, type, number of units, number of bedrooms, and remarks of the first ten entries were supplied by Nicole Cosenza of the Bloomfield Planning and Zoning Office.
2. All calculations are carried to eight or more decimal places. Since there cannot be fractions of a student, the district total may vary by one or two students if added manually.
3. The last seven properties listed were added at the request of the Board and more definitive information was not available from the Township. The estimated number of students was prepared using the "best guess" of what would most likely exist once approvals are given by the Township.
4. If the development impact in Table 4 is the same or less than the projected five year increase in student population, the development impact is ignored.

**TABLE 5
BLOOMFIELD SCHOOL DISTRICT
OCTOBER 15, 2012 ENROLLMENT, BY SCHOOL, BY GRADE**

SCHOOL	K	1	2	3	4	5	6	7	8	9	10	11	12	UG	TOTAL
Bloomfield H.S. (020)	0	0	0	0	0	0	0	0	0	542	466	458	461	31	1958
Bloomfield Middle (030)	0	0	0	0	0	0	0	422	432	0	0	0	0	28	882
Berkeley E.S. (050)	55	47	59	56	53	45	64	0	0	0	0	0	0	35	414
Brookdale E.S. (060)	61	52	66	50	45	43	40	0	0	0	0	0	0	0	357
Carteret E.S. (080)	57	66	57	71	61	52	72	0	0	0	0	0	0	8	444
Demarest E.S. (100)	76	66	79	75	65	63	67	0	0	0	0	0	0	7	498
Fairview E.S. (110)	83	72	69	63	76	55	71	0	0	0	0	0	0	18	507
Franklin E.S. (130)	47	52	58	53	50	64	57	0	0	0	0	0	0	0	381
Oak View E.S. (140)	60	55	40	51	38	44	38	0	0	0	0	0	0	45	371
Watsessing E.S. (150)	56	37	36	31	32	50	46	0	0	0	0	0	0	46	334
Bridges Academy @ Forest Glen (120)	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24
TOTAL	495	447	464	450	420	416	455	422	432	542	466	458	461	242	6170

PROJECTED ENROLLMENT BY SCHOOL, BY GRADE - FOR 2017-18

SCHOOL	K	1	2	3	4	5	6	7	8	9	10	11	12	UG	TOTAL
Bloomfield H.S. (020)	0	0	0	0	0	0	0	0	0	515	458	480	431	34	1919
Bloomfield Middle (030)	0	0	0	0	0	0	0	496	479	0	0	0	0	31	1006
Berkeley E.S. (050)	53	55	62	61	74	62	67	0	0	0	0	0	0	38	472
Brookdale E.S. (060)	59	61	69	54	63	59	42	0	0	0	0	0	0	0	408
Carteret E.S. (080)	55	78	60	77	85	72	75	0	0	0	0	0	0	9	510
Demarest E.S. (100)	73	78	83	81	91	87	70	0	0	0	0	0	0	8	571
Fairview E.S. (110)	80	85	73	68	106	76	74	0	0	0	0	0	0	20	581
Franklin E.S. (130)	45	61	61	58	70	89	59	0	0	0	0	0	0	0	443
Oak View E.S. (140)	58	65	42	55	53	61	40	0	0	0	0	0	0	49	423
Watsessing E.S. (150)	54	44	38	34	45	69	48	0	0	0	0	0	0	50	381
Bridges Academy @ Forest Glen (120)	0	0	0	0	0	0	0	0	0	0	0	0	0	26	26
TOTAL	477	527	488	489	585	575	474	496	479	515	458	480	431	264	6739

TABLE 3 PROJECTIONS FOR 2017-18	477	527	488	489	585	575	474	496	479	515	458	480	431	264	6739
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