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## DEMOGRAPHIC STUDY

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for the

### WATCHUNG HILLS REGIONAL HIGH SCHOOL DISTRICT

Warren, Somerset County, State of New Jersey

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Prepared By:

*Whitehall Associates, Inc.*

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April 10, 2019

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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 the 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 Watchung Hills Regional High School Board of Education was prepared in compliance with the appropriate law and administrative code.

**IMPORTANT NOTICE:** The enrollments for these demographics begin with the 2013-2014 school year and end with the 2018-2019 school year. The enrollment projections are through the 2023-2024 school year. The enrollment projections in this report take into account the dynamics of the district. The NJDOE Cohort Survival Worksheet does not take into account some of the dynamics within the district such as residential development or changes in programs. Bernard Piaia, at the NJDOE Office of School Facilities, has agreed to accept this report for review and consideration, if it is 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

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## **INTRODUCTION**

Whitehall Associates was retained by the Watchung Hills Regional Board of Education to prepare a demographic study for the Watchung Hills Regional High School. The constituent or sending elementary districts included in this report are Green Brook Township, Long Hill Township, Warren Township and Watchung Borough. 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 REGIONAL SCHOOL DISTRICT**

The Watchung Hills Regional High School District receives students from the following PK-8 elementary districts: Green Brook Township, Warren Township and Watchung Borough in Somerset County and Long Hill Township in Morris County, New Jersey. The Watchung Hills Regional High School Board of Education maintains one school in a grade 9-12 configuration. Board offices are located in the high school building at 108 Stirling Road in Warren. This report is intended for the schools districts that are sharing the cost - Watchung Hills Regional High School, Green Brook, Warren and Watchung.

The Green Brook School District serves public school students in pre-kindergarten through eighth grade. As of the 2018-19 school year, the district and its two schools had an enrollment of 782 students. Schools in the district are Irene E. Feldkirchner Elementary School (grades PreK-4; 387 students) and Green Brook Middle School (grades 5-8; 395 students).

The Warren Township Board of Education is a PK-8 public school district providing educational services to approximately 1,700

students. The school district is comprised of one PK-5 school, three K-5 schools, and one middle school. Further information may be obtained by visiting the school district's website at [www.warrentboe.org](http://www.warrentboe.org).

The Watchung Borough Board of Education is a PK-8 public school district providing educational services to approximately 650 students. The school district is comprised of the Bayberry School a PK-4 school, and the Valley View School housing grades 5-8. Further information may be obtained by visiting the school district's website at [www.watchungschools.com](http://www.watchungschools.com).

The Long Hill Township School District operates three schools that serve grades pre-kindergarten through eighth grade. Children attend Gillette Elementary School for grades Pre-K to 1st, Millington Elementary School for grades 2nd to 5th, and Central Middle School for grades 6th to 8th. Additional information about the Long Hill Township School District can be found at [www.longhill.org](http://www.longhill.org).

## **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 the modified LRFP demographics, even though they do not agree with this report, providing this report, in its final form, is submitted, in its entirety, along with the NJDOE worksheets. This report must be submitted with an original signature on page 2.

#### **NOTE CONCERNING THE SOURCE OF ENROLLMENT DATA**

Official student enrollments are now obtained from the NJSMART data base 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, as of October 15<sup>th</sup> of each year 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. 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 by the Center for Urban Policy Research at Rutgers University and Whitehall's research. In the Watchung Hills Regional area there is some proposed residential development that will warrant a modification of the cohort survival projections.

### MUNICIPAL POPULATION TRENDS

This table lists the decennial population of the constituent municipalities since 1930.

#### TABLE 1

For the high school district this table lists the eighth grade enrollments for the elementary districts.

The pre-kindergarten data for the district, both the "universe" and the actual is provided. 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.

#### TABLE 2

The districts' 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 (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. 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.

Table 3 for the elementary districts begins, as mentioned above, with the live births attributed to the municipality for the five years prior to the kindergarten year shown. The projection of student enrollment for the next five years has been made.

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 eight year's births, or the last known birth figure. In this case we used a regression analysis.

Table 3 for the high school is projected for five years and begins, as mentioned above, with the previous year's eighth grade enrollments as a base instead of birth figures.

The projection of student enrollment for the next five years has been made. The line **Net Development Impact** displays, by grade, the impact residential development will have on the cohort survival projections. The line 2023-24 Total Enrollment combines the net development impact and the normal cohort projection for 2023-24 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 the respective municipalities.

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 be 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.

Usually the **Net Development Impact** is added to the last year of enrollment projections. This becomes the planning figure for new facilities. It is understood that the developments could contribute additional students throughout the five year period of projections. However, there is no competent way to determine how many students will be added in any particular year.

#### TABLE 5 (ELEMENTARY DISTRICTS ONLY)

The enrollment projections by school, by grade for the year 2023-24 are enrollment data supplied by the district, as mentioned in the section shown here. The ratio of students was taken from the October 15, 2018 on the source of enrollment data, and applied to the 2023-24 district wide projections. This method is required by the NJDOE in the Long Range Facilities Plan.

**TABLE 1**  
**WATCHUNG HILLS REGIONAL HIGH SCHOOL DISTRICT**  
**GRADE 8 ENROLLMENTS**

SCHOOL YEAR	GREEN BROOK	LONG HILL	WARREN TOWNSHIP	WATCHUNG BOROUGH	GRADE 8 TOTALS
2012-13	115	104	273	87	579
2013-14	114	118	258	82	572
2014-15	99	105	239	73	516
2015-16	121	113	218	73	525
2016-17	111	102	209	88	510
2017-18	115	92	230	103	540
2018-19	99	68	242	71	480
2019-20	101	103	199	67	470
2020-21	96	82	191	87	456
2021-22	96	81	185	66	428
2022-23	83	92	170	61	406
2023-24	76	94	173	69	412

**NOTE:** These figures do not include ungraded students,



**TABLE 2**  
**WATCHUNG HILLS REGIONAL HIGH SCHOOL DISTRICT**  
**STUDENT ENROLLMENT HISTORY**

School Year	Previous Grade 8	9th Gr.	10th Gr.	11th Gr.	12th Gr.	UG	DISTRICT TOTAL
<b>HISTORIC DATA</b>							
2013-14	579	0.97 563	549	534	531	1	2178
2014-15	572	0.99 565	546	546	540	1	2198
2015-16	516	0.97 502	545	542	536	20	2145
2016-17	525	0.91 480	491	548	526	21	2066
2017-18	510	0.96 490	474	483	540	29	2016
2018-19	540	0.96 518	483	469	484	27	1981
Average Survival Ratio		0.96	0.98	0.99	0.99		

**TABLE 3**  
**WATCHUNG HILLS REGIONAL HIGH SCHOOL DISTRICT**  
**STUDENT ENROLLMENT PROJECTIONS**

School Year	Previous Grade 8	9th Gr.	10th Gr.	11th Gr.	12th Gr.	UG	DISTRICT TOTAL
<b>PROJECTIONS</b>							
2019-20	480	0.96 461	506	480	464	26	1938
2020-21	470	0.98 452	0.99 451	0.99 503	475	26	1906
2021-22	456	438	441	448	498	25	1851
2022-23	428	411	428	438	443	24	1745
2023-24	406	390	402	425	434	23	1675
<b>NET DEVELOPMENT IMPACT</b>							
		21	22	22	23	1	89
<b>2023-24 TOTAL ENROLLMENT</b>		411	424	448	457	24	1764

1. 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.
2. The line **2023-24 TOTAL ENROLLMENT** must be entered manually into the Long Range Facility Plan Worksheet along with the explanation that the normal cohort did not consider residential development impact.

**TABLE 4-1  
RESIDENTIAL DEVELOPMENT IMPACT**

DEVELOPMENT	TYPE OF UNIT	NUMBER OF		REMARKS	9-12 STUDENTS
		UNITS	BEDROOMS		
GREEN BROOK TOWNSHIP					
Schwartz	Single Family - Detached	16	3-4	near Top of the World Devel.	2
Paoletta	Multifamily (5+ units - rent)	125	2		7
Sage	Multifamily (5+ units - rent)	160	2		9
Allure	Multifamily (5+ units - rent)	23	2		1
Cygna	Multifamily (5+ units - rent)	24	2		1
LONG HILL TOWNSHIP					
These 360 units are under consideration pending resolution of sewer capacity. According to the Long Hill Planner, these are all estimates based on how they have set up the zoning.	Multifamily (5+ units - rent)	164	1		2
	Multifamily (5+ units - rent)	10	1	affordable	0
	Multifamily (5+ units - rent)	142	2		8
	Multifamily (5+ units - rent)	33	2	affordable	5
	Multifamily (5+ units - rent)	11	3	affordable	4
WARREN TOWNSHIP					
Mountain Boulevard (3 sites)	Multifamily (5+ units - rent)	20	2-3		2
Flag Plaza	Multifamily (5+ units - rent)	20	2-3		2
Mt. Bethel Area	Multifamily (5+ units - rent)	25	2-3		3
K Hovnanian	Single Family - Attached	48	2-3		3
Mt. Horeb & Mt. Bethel (Vincedes)	Multifamily (5+ units - rent)	8	2-3		1
Wagner Farm (Block 83 Lot 4)	Multifamily (5+ units - rent)	32	2-3	special needs	0
Hillcrest Crossing	Multifamily (5+ units - rent)	44	2-3		5
North Hill Wash Valley	Multifamily (5+ units - rent)	10	2-3	special needs	0
Lindberg Avenue Township Project	Multifamily (5+ units - rent)	80	2-3		9
Chase	Multifamily (5+ units - rent)	67	2-3		8
	Single Family - Attached	8	2-3		1
				PAGE TOTAL	74

**TABLE 4-2  
RESIDENTIAL DEVELOPMENT IMPACT**

DEVELOPMENT	TYPE OF UNIT	NUMBER OF		REMARKS	9-12 STUDENTS
		UNITS	BEDROOMS		
WATCHUNG BOROUGH					
BNE Development Group - 291 Bonnie Burn Rd	Multifamily (5+ units - rent)	5	1	affordable	0
	Multifamily (5+ units - rent)	31	2	affordable	5
	Multifamily (5+ units - rent)	10	3	affordable	3
	Multifamily (5+ units - rent)	184	1-2		5
Watchung Associates, LLC - 708 Mountain Blvd	Multifamily (2-4 units)	1	1	affordable	0
	Multifamily (2-4 units)	2	2	affordable	0
	Multifamily (2-4 units)	1	3	affordable	0
	Multifamily (5+ units - own)	21	2		0
Joseph Valini, 35 Valley Road	Single Family - Detached	1	3-4		0
Bella Builders, LLC - 206 Anderson Rd	Single Family - Detached	1	3-4		0
				PAGE TOTAL	14
				GRAND TOTAL	89

**NOTES:**

1. The name of the development, type, number of units, number of bedrooms, and remarks were supplied by the respective municipalities.
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. If there is a projected decrease in student population in Table 3, the entire Table 4 impact is considered and shown on the line labeled **NET DEVELOPMENT IMPACT** in Table 3.
4. Any net development impact must be added to the normal 2023-24 projection and entered manually into the Long Range Facility Plan Worksheet along with an appropriate explanation.

**TOWNSHIP OF GREEN BROOK  
MUNICIPAL POPULATION TRENDS**

**LAND AREA = 4.58 Sq. Mi.**

YEAR	POPULATION	INCREASE	% INCREASE
1930	544		
		219	40.26%
1940	763		
		392	51.38%
1950	1,155		
		2,467	213.59%
1960	3,622		
		680	18.77%
1970	4,302		
		338	7.86%
1980	4,640		
		-180	-3.88%
1990	4,460		
		1,194	26.77%
2000	5,654		
		1,549	27.40%
2010	7,203		
		-40	-0.56%
2017	7,163		

**SOURCE: U.S. Census Bureau**

**TABLE 1**  
**GREEN BROOK TOWNSHIP PUBLIC SCHOOL DISTRICT**  
**PRE-SCHOOL STUDENT ENROLLMENT HISTORY**

**PRE-SCHOOL UNIVERSE CALCULATIONS**

District Factor Group: **GH**

Universal Districts = 1st Grade X 2 = **126**

Targeted Districts = 1st Grade X 2 X % of free and reduced (K-12) = **9**

Number of free and reduced lunches (K-12) = **58**

Percent of free and reduced lunches = **7.42**

YEAR	PK
<b>ACTUAL</b>	
<b>13-14</b>	<b>7</b>
<b>14-15</b>	<b>7</b>
<b>15-16</b>	<b>15</b>
<b>16-17</b>	<b>24</b>
<b>17-18</b>	<b>24</b>
<b>18-19</b>	<b>29</b>
<b>PROJECTED</b>	
<b>19-20</b>	<b>19</b>
<b>20-21</b>	<b>25</b>
<b>21-22</b>	<b>22</b>
<b>22-23</b>	<b>21</b>
<b>23-24</b>	<b>21</b>

**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 regular pre-school enrollments as of the 2018-19 school year, exclusive of Pre-K handicapped. Pre-K handicapped students are accounted for with the "UNGRADED" students.
3. Please read the narrative concerning the Pre-school projections.

**TABLE 2**  
**GREEN BROOK TOWNSHIP PUBLIC 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.	UNGRADED	DISTRICT TOTAL
2013-14	78	0.11 7	1.17 91	1.01 87	0.97 86	1.07 97	1.02 105	1.01 109	1.01 121	1.01 102	0.97 114	8	927
2014-15	61	0.08 7	1.23 75	1.11 92	1.10 84	1.00 92	1.12 99	0.97 106	1.05 110	0.99 122	0.99 99	11	897
2015-16	84	0.25 15	0.79 66	1.05 83	1.02 101	0.99 84	1.08 103	0.97 96	1.01 110	0.96 116	1.02 121	14	909
2016-17	61	0.50 24	1.10 67	1.07 69	1.06 85	0.99 100	0.96 91	1.09 100	1.01 98	1.04 111	1.03 111	20	876
2017-18	48	0.36 24	1.23 59	1.07 72	1.00 73	0.99 84	0.96 96	0.98 99	1.01 103	1.00 99	1.04 115	17	841
2018-19	66	0.52 29	0.95 63	1.07 63	1.00 72	0.99 72	0.96 81	0.98 94	0.99 95	1.00 102	1.00 99	12	782
Average Survival Ratio		0.41	1.08	1.06	1.03	1.01	1.03	1.00	1.01	0.99	0.99		

**NOTE:** Only the last four years were used to compute the average birth to pre-kindergarten survival ratio.

**TABLE 3**  
**GREEN BROOK TOWNSHIP PUBLIC 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	UNGRADED	DISTRICT TOTAL
2019-20	56	19	1.08 60	67	65	72	74	81	439	95	96	101	293	11	743
		0.41		1.06	1.03	1.01	1.03	1.00		1.01	1.01	0.99			
2020-21	46	25	50	64	69	65	75	74	422	82	96	96	274	11	707
2021-22	62	22	67	53	66	69	67	75	419	75	83	96	254	10	683
2022-23	54	21	58	71	54	66	71	67	410	76	76	83	235	10	654
2023-24	52	21	56	62	73	54	68	72	407	68	77	76	221	10	637
NET DEVELOPMENT IMPACT		3	7	7	8	8	8	9	49	9	10	10	29	1	80
2023-24 TOTAL ENROLLMENT		24	63	69	81	62	77	80	456	77	87	86	250	11	717

- NOTES:**
1. Births in the dashed box were calculated by a regression analysis. Students in that year group 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**  
**TOWNSHIP OF GREEN BROOK**  
**RESIDENTIAL DEVELOPMENT IMPACT**

DEVELOPMENT	TYPE OF UNIT	NUMBER OF		REMARKS	TOTAL STUDENTS	
		UNITS	BEDROOMS		PK-8	9-12
Schwartz	Single Family - Detached	16	3-4	near Top of the World Development	8	2
Paoletta	Multifamily (5+ units - rent)	125	2		27	7
Sage	Multifamily (5+ units - rent)	160	2		35	9
Allure	Multifamily (5+ units - rent)	23	2		5	1
Cygna	Multifamily (5+ units - rent)	24	2		5	1
<b>TOTALS</b>					<b>80</b>	<b>22</b>

**NOTES:**

1. The name of the development, type, number of units, number of bedrooms, and remarks were supplied by Nancy Probst, Land Use Coordinator for Green Brook.
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. If there is a projected decrease in student population in Table 3, the entire Table 4 impact is considered and shown on the line labeled **NET DEVELOPMENT IMPACT** in Table 3.
4. Any net development impact must be added to the normal 2023-24 projection and entered manually into the Long Range Facility Plan Worksheet along with an appropriate explanation.

**TABLE 5**  
**GREEN BROOK TOWNSHIP PUBLIC SCHOOL DISTRICT**  
**OCTOBER 15, 2018 ENROLLMENT, BY SCHOOL, BY GRADE**

SCHOOL	PK	K	1	2	3	4	5	6	7	8	UG	TOTAL
Green Brook M.S. (030)	0	0	0	0	0	0	94	95	102	99	5	395
Irene E. Feldkirchner E.S. (050)	29	63	63	72	72	81	0	0	0	0	7	387
TOTAL	29	63	63	72	72	81	94	95	102	99	12	782

**PROJECTED ENROLLMENT BY SCHOOL, BY GRADE - FOR 2023-24**

SCHOOL	PK	K	1	2	3	4	5	6	7	8	UG	TOTAL
Green Brook M.S. (030)	0	0	0	0	0	0	80	77	87	86	5	335
Irene E. Feldkirchner E.S. (050)	24	63	69	81	62	77	0	0	0	0	6	382
TOTAL	24	63	69	81	62	77	80	77	87	86	11	717

TABLE 3 PROJECTIONS FOR 2023-24	24	63	69	81	62	77	80	77	87	86	11	717
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**TOWNSHIP OF WARREN  
MUNICIPAL POPULATION TRENDS**

**LAND AREA = 19.68 Sq. Mi.**

YEAR	POPULATION	INCREASE	% INCREASE
1930	1,399		
		740	52.89%
1940	2,139		
		1,177	55.03%
1950	3,316		
		2,070	62.42%
1960	5,386		
		3,206	59.52%
1970	8,592		
		1,213	14.12%
1980	9,805		
		1,025	10.45%
1990	10,830		
		3,429	31.66%
2000	14,259		
		1,052	7.38%
2010	15,311		
		18	0.12%
2017	15,329		

**SOURCE: U.S. Census Bureau**

**TABLE 1**  
**WARREN TOWNSHIP SCHOOL DISTRICT**  
**PRE-SCHOOL STUDENT ENROLLMENT HISTORY**

**PRE-SCHOOL UNIVERSE CALCULATIONS**

District Factor Group: 1

Universal Districts = 1st Grade X 2 = 310

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

Number of free and reduced lunches (K-12) = 7

Percent of free and reduced lunches = 0.41

YEAR	PK
<b>ACTUAL</b>	
13-14	9
14-15	26
15-16	25
16-17	26
17-18	46
18-19	51
<b>PROJECTED</b>	
19-20	37
20-21	47
21-22	37
22-23	39
23-24	39

**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 regular pre-school enrollments as of the 2018-19 school year, exclusive of Pre-K handicapped. Pre-K handicapped students are accounted for with the "UNGRADED" students.
3. Please read the narrative concerning the Pre-school projections.

**TABLE 2**  
**WARREN TOWNSHIP 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.	UNGRADED	DISTRICT TOTAL
2013-14	100	0.09 9	1.44 144	1.12 165	1.12 172	1.03 231	1.02 215	1.02 226	0.99 217	1.00 238	1.00 258	29	1904
2014-15	100	0.31 26	1.43 143	1.08 161	1.04 184	1.02 178	1.06 235	1.01 220	0.99 208	1.01 215	1.01 239	30	1839
2015-16	85	0.30 25	1.66 141	1.05 154	1.05 167	1.02 187	1.04 188	1.02 237	1.02 226	1.02 205	1.02 218	31	1779
2016-17	83	0.32 26	1.90 158	1.06 148	1.08 162	1.01 171	1.03 194	1.01 191	1.02 237	1.00 230	1.00 209	28	1754
2017-18	81	0.49 46	1.75 142	1.09 168	1.02 160	1.03 163	1.02 176	1.05 195	1.06 187	1.00 242	1.00 230	21	1730
2018-19	94	0.57 51	1.51 142	1.09 155	1.02 171	1.03 164	1.02 167	1.05 185	1.06 187	1.00 198	1.00 242	30	1692
Average Survival Ratio		0.40	1.62	1.08	1.06	1.02	1.03	1.02	1.01	1.01			

NOTE: 1. The 2013-14 pre-kindergarten enrollment was considered an anomaly and was not used in calculating the birth to pre-kindergarten average survival ratio.

**TABLE 3**  
**WARREN TOWNSHIP 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	UNGRADED	DISTRICT TOTAL
2019-20	90	37	1.62 145	153	164	175	169	170	1014	181	190	199	570	29	1613
		0.40		1.08	1.06	1.02	1.03	1.02		0.98	1.01	1.01			
2020-21	92	47	149	157	163	168	180	173	1037	167	183	191	541	28	1607
2021-22	119	37	192	161	167	166	173	184	1080	169	169	185	523	29	1632
2022-23	93	39	150	208	170	170	172	177	1086	180	171	170	522	29	1637
2023-24	98	39	158	162	220	174	176	175	1105	173	183	173	528	29	1663
NET DEVELOPMENT IMPACT		3	11	12	13	12	12	13	76	12	13	13	38	2	117
2023-24 TOTAL ENROLLMENT		42	170	174	233	186	188	188	1181	185	195	186	567	32	1779

- NOTES:**
1. Births in the dashed box were calculated by a regression analysis. Students in that year group 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.
  4. The line **2023-24 TOTAL ENROLLMENT** must be entered manually into the Long Range Facility Plan Worksheet along with the explanation that the normal cohort did not consider residential development impact.

**TABLE 4**  
**TOWNSHIP OF WARREN**  
**RESIDENTIAL DEVELOPMENT IMPACT**

DEVELOPMENT	TYPE OF UNIT	NUMBER OF		REMARKS	TOTAL STUDENTS	
		UNITS	BEDROOMS		PK-8	9-12
Mountain Boulevard (3 sites)	Multifamily (5+ units - rent)	20	2-3		8	2
Flag Plaza	Multifamily (5+ units - rent)	20	2-3		8	2
Mt. Bethel Area	Multifamily (5+ units - rent)	25	2-3		10	3
K Hovnanian	Single Family - Attached	48	2-3		9	3
Mt. Horeb & Mt. Bethel (Vincedes)	Multifamily (5+ units - rent)	8	2-3		3	1
Wagner Farm (Block 83 Lot 4)	Multifamily (5+ units - rent)	32	2-3	special needs	0	0
Hillcrest Crossing	Multifamily (5+ units - rent)	44	2-3		18	5
North Hill Wash Valley	Multifamily (5+ units - rent)	10	2-3	special needs	0	0
Lindberg Avenue Township Project	Multifamily (5+ units - rent)	80	2-3		32	9
Chase	Multifamily (5+ units - rent)	67	2-3		27	8
	Single Family - Attached	8	2-3		2	1
<b>TOTAL</b>					<b>117</b>	<b>34</b>

**NOTES:**

1. The name of the development, type, number of units, were supplied by John Chadwick, the Warren Township Planner.
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. If there is a projected decrease in student population in Table 3, the entire Table 4 impact is considered and shown on the line labeled **NET DEVELOPMENT IMPACT** in Table 3.
4. Any net development impact must be added to the normal 2023-24 projection and entered manually into the Long Range Facility Plan Worksheet along with an appropriate explanation.

**TABLE 5**  
**WARREN TOWNSHIP SCHOOL DISTRICT**  
**OCTOBER 15, 2018 ENROLLMENT, BY SCHOOL, BY GRADE**

SCHOOL	PK	K	1	2	3	4	5	6	7	8	UG	TOTAL
Warren M.S. (033)	0	0	0	0	0	0	0	187	198	242	9	636
Central E.S. (030)	0	45	51	53	52	52	57	0	0	0	6	316
Angelo Tomaso E.S. (040)	0	43	26	49	40	42	43	0	0	0	8	251
Woodland E.S. (050)	0	31	47	40	35	45	52	0	0	0	0	250
Mount Horeb E.S. (035)	51	23	31	29	37	28	33	0	0	0	7	239
<b>TOTAL</b>	<b>51</b>	<b>142</b>	<b>155</b>	<b>171</b>	<b>164</b>	<b>167</b>	<b>185</b>	<b>187</b>	<b>198</b>	<b>242</b>	<b>30</b>	<b>1692</b>

**PROJECTED ENROLLMENT BY SCHOOL, BY GRADE - FOR 2023-24**

SCHOOL	PK	K	1	2	3	4	5	6	7	8	UG	TOTAL
Warren M.S. (033)	0	0	0	0	0	0	0	185	195	186	9	576
Central E.S. (030)	0	54	57	72	59	59	58	0	0	0	6	365
Angelo Tomaso E.S. (040)	0	51	29	67	45	47	44	0	0	0	8	292
Woodland E.S. (050)	0	37	53	54	40	51	53	0	0	0	0	288
Mount Horeb E.S. (035)	42	27	35	40	42	32	33	0	0	0	7	258
<b>TOTAL</b>	<b>42</b>	<b>170</b>	<b>174</b>	<b>233</b>	<b>186</b>	<b>188</b>	<b>188</b>	<b>185</b>	<b>195</b>	<b>186</b>	<b>32</b>	<b>1779</b>

<b>TABLE 3 PROJECTIONS FOR 2023-24</b>	<b>42</b>	<b>170</b>	<b>174</b>	<b>233</b>	<b>186</b>	<b>188</b>	<b>188</b>	<b>185</b>	<b>195</b>	<b>186</b>	<b>32</b>	<b>1779</b>
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**BOROUGH OF WATCHUNG  
MUNICIPAL POPULATION TRENDS**

**LAND AREA = 6.00 Sq. Mi.**

<b>YEAR</b>	<b>POPULATION</b>	<b>INCREASE</b>	<b>% INCREASE</b>
1930	906		
		252	27.81%
1940	1,158		
		660	56.99%
1950	1,818		
		1,494	82.18%
1960	3,312		
		1,438	43.42%
1970	4,750		
		540	11.37%
1980	5,290		
		-180	-3.40%
1990	5,110		
		503	9.84%
2000	5,613		
		188	3.35%
2010	5,801		
		33	0.57%
2017	5,834		

**SOURCE: U.S. Census Bureau**

**TABLE 1**  
**WATCHUNG BOROUGH PUBLIC SCHOOL DISTRICT**  
**PRE-SCHOOL STUDENT ENROLLMENT HISTORY**

**PRE-SCHOOL UNIVERSE CALCULATIONS**

District Factor Group: 1

Universal Districts = 1st Grade X 2 = 124

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

Number of free and reduced lunches (K-12) = 4

Percent of free and reduced lunches = 0.62

YEAR	PK
<b>ACTUAL</b>	
13-14	0
14-15	25
15-16	13
16-17	16
17-18	8
18-19	28
<b>PROJECTED</b>	
19-20	19
20-21	22
21-22	18
22-23	19
23-24	20

**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 regular pre-school enrollments as of the 2018-19 school year, exclusive of Pre-K handicapped. Pre-K handicapped students are accounted for with the "UNGRADED" students.
3. Please read the narrative concerning the Pre-school projections.

**TABLE 2**  
**WATCHUNG BOROUGH PUBLIC 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.	UNGRADED	DISTRICT TOTAL
2013-14	41	0.00 0	1.29 53	1.02 92	1.01 68	1.04 64	1.05 94	1.00 78	0.97 77	0.94 78		7	693
2014-15	46	0.44 25	1.11 51	1.16 54	1.06 93	1.01 71	1.01 67	1.07 94	1.00 85	0.97 75		2	690
2015-16	57	0.29 13	0.98 56	1.14 59	1.07 57	1.09 94	0.97 72	1.00 72	1.02 101	1.04 85		0	682
2016-17	45	0.34 16	1.47 66	1.08 64	1.02 63	1.02 62	1.15 91	1.04 72	0.97 78	1.00 103		1	704
2017-18	47	0.22 8	1.34 63	0.98 71	0.96 65	1.03 64	0.95 71	0.93 95	1.03 67	0.93 76		0	683
2018-19	36	0.57 28	1.86 67	0.98 62	0.96 68	1.03 67	0.95 61	0.93 66	0.93 89	0.93 69		0	648
Average Survival Ratio		0.37	1.34	1.08	1.02	1.04	1.03	1.01	1.00	0.98			

**NOTE:** Only the last five years were used to compute the average birth to pre-kindergarten average survival ratio.

**TABLE 3**  
**WATCHUNG BOROUGH PUBLIC 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	UNGRADED	DISTRICT TOTAL
2019-20	49	19	1.34 66	72	63	71	69	62	421	68	89	67	224	0	645
		0.37		1.08	1.02	1.04	1.03	1.01		1.02	1.00	0.98			
2020-21	52	22	70	71	74	66	72	69	443	63	67	87	217	0	661
2021-22	58	18	78	75	72	76	67	73	460	71	63	66	200	0	660
2022-23	49	19	66	84	77	75	78	68	467	75	71	61	207	0	674
2023-24	52	20	70	71	86	80	77	79	481	70	75	69	214	0	695
NET DEVELOPMENT IMPACT		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2023-24 TOTAL ENROLLMENT		20	70	71	86	80	77	79	481	70	75	69	214	0	695

- NOTES:**
1. Births in the dashed box were calculated by a regression analysis. Students in that year group 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**  
**BOROUGH OF WATCHUNG**  
**RESIDENTIAL DEVELOPMENT IMPACT**

DEVELOPMENT	TYPE OF UNIT	NUMBER OF		REMARKS	TOTAL STUDENTS	
		UNITS	BEDROOMS		PK-8	9-12
BNE Development Group - 291 Bonnie Burn Rd	Multifamily (5+ units - rent)	5	1	affordable	1	0
	Multifamily (5+ units - rent)	31	2	affordable	15	5
	Multifamily (5+ units - rent)	10	3	affordable	10	3
	Multifamily (5+ units - rent)	184	1-2		18	5
Watchung Associates, LLC - 708 Mountain Blvd	Multifamily (2-4 units)	1	1	affordable	0	0
	Multifamily (2-4 units)	2	2	affordable	1	0
	Multifamily (2-4 units)	1	3	affordable	1	0
	Multifamily (5+ units - own)	21	2		2	0
Joseph Valini, 35 Valley Road	Single Family - Detached	1	3-4		0	0
Bella Builders, LLC - 206 Anderson Rd	Single Family - Detached	1	3-4		0	0
<b>TOTALS</b>					<b>47</b>	<b>14</b>

**NOTES:**

1. The name of the development, type, number of units, number of bedrooms, and remarks were supplied by Marcia Schiffman, PP, the Watchung Borough Planner.
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. 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**  
**WATCHUNG BOROUGH PUBLIC SCHOOL DISTRICT**  
**OCTOBER 15, 2018 ENROLLMENT, BY SCHOOL, BY GRADE**

SCHOOL	PK	K	1	2	3	4	5	6	7	8	UG	TOTAL
Valley View M.S. (050)	0	0	0	0	0	0	66	89	69	71	0	295
Bayberry E.S. (040)	28	67	62	68	67	61	0	0	0	0	0	353
<b>TOTAL</b>	28	67	62	68	67	61	66	89	69	71	0	648

**PROJECTED ENROLLMENT BY SCHOOL, BY GRADE - FOR 2023-24**

SCHOOL	PK	K	1	2	3	4	5	6	7	8	UG	TOTAL
Valley View M.S. (050)	0	0	0	0	0	0	79	70	75	69		293
Bayberry E.S. (040)	20	70	71	86	80	77	0	0	0	0		402
<b>TOTAL</b>	20	70	71	86	80	77	79	70	75	69	0	695

<b>TABLE 3 PROJECTIONS FOR 2023-24</b>	20	70	71	86	80	77	79	70	75	69	0	695
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**TOWNSHIP OF LONG HILL  
MUNICIPAL POPULATION TRENDS**

**LAND AREA = 12.07 Sq. Mi.**

YEAR	POPULATION	INCREASE	% INCREASE
1930	2,149		
		515	23.96%
1940	2,664		
		765	28.72%
1950	3,429		
		2,108	61.48%
1960	5,537		
		1,856	33.52%
1970	7,393		
		-118	-1.60%
1980	7,275		
		551	7.57%
1990	7,826		
		951	12.15%
2000	8,777		
		-75	-0.85%
2010	8,702		
		9	0.10%
2017	8,711		

**SOURCE: U.S. Census Bureau**

**TABLE 1**  
**LONG HILL TOWNSHIP SCHOOL DISTRICT**  
**PRE-SCHOOL STUDENT ENROLLMENT HISTORY**

**PRE-SCHOOL UNIVERSE CALCULATIONS**

District Factor Group:

Universal Districts = 1st Grade X 2 =

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

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

Percent of free and reduced lunches =

YEAR	PK
<b>ACTUAL</b>	
13-14	15
14-15	25
15-16	27
16-17	20
17-18	32
18-19	28
<b>PROJECTED</b>	
19-20	29
20-21	28
21-22	21
22-23	25
23-24	25

**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 regular pre-school enrollments as of the 2018-19 school year, exclusive of Pre-K handicapped. Pre-K handicapped students are accounted for with the "UNGRADED" students.
3. Please read the narrative concerning the Pre-school projections.



**TABLE 2**  
**LONG HILL TOWNSHIP 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.	UNGRADED	DISTRICT TOTAL
2013-14	75	0.18 15	0.87 65	1.14 74	0.97 91	1.07 70	0.97 93	1.02 93	1.00 117	0.98 107	1.00 118	3	846
2014-15	83	0.38 25	0.99 82	1.10 74	1.01 72	1.11 97	1.03 68	1.00 95	1.02 92	0.97 117	1.00 105	3	830
2015-16	65	0.32 27	1.25 81	1.15 90	1.00 75	1.09 80	1.03 100	1.03 68	0.98 91	1.09 94	1.00 113	2	821
2016-17	85	0.24 20	0.84 71	1.17 93	0.99 90	1.04 82	0.99 82	1.00 103	1.00 68	1.03 89	1.00 102	30	830
2017-18	82	0.41 32	1.12 92	1.13 83	1.00 92	1.02 94	0.97 81	1.00 82	0.97 105	1.00 68	1.00 92	28	849
2018-19	78	0.37 28	1.19 93	1.00 102	1.02 83	0.97 94	1.00 91	0.99 81	0.97 81	1.00 102	1.00 68	28	851
Average Survival Ratio		0.32	1.04	1.14	1.00	1.07	1.00	1.01	0.99	0.99	1.01		

**TABLE 3**  
**LONG HILL TOWNSHIP 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	UNGRADED	DISTRICT TOTAL
2019-20	76	29	1.04 79	106	102	89	94	92	589	80	81	103	264	29	883
		0.32		1.14	1.00	1.07	1.00	1.01		0.99	0.99	1.01			
2020-21	91	28	95	90	105	108	88	95	609	91	80	82	252	29	891
2021-22	88	21	92	108	90	112	108	89	619	94	91	81	265	30	914
2022-23	65	25	68	104	107	96	112	109	620	88	93	92	273	30	924
2023-24	78	25	81	77	104	114	95	113	609	108	88	94	290	31	930
NET DEVELOPMENT IMPACT		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2023-24 TOTAL ENROLLMENT		25	81	77	104	114	95	113	609	108	88	94	290	31	930

- NOTES: 1. Births in the dashed box were calculated by a regression analysis. Students in that year group 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**  
**TOWNSHIP OF LONG HILL**  
**RESIDENTIAL DEVELOPMENT IMPACT**

DEVELOPMENT	TYPE OF UNIT	NUMBER OF		REMARKS	TOTAL STUDENTS	
		UNITS	BEDROOMS		PK-8	9-12
These 360 units are under consideration pending resolution of sewer capacity. According to the Long Hill Planner, these are all estimates based on how they have set up the zoning.	Multifamily (5+ units - rent)	164	1		8	2
	Multifamily (5+ units - rent)	10	1	affordable	1	0
	Multifamily (5+ units - rent)	142	2		31	8
	Multifamily (5+ units - rent)	33	2	affordable	16	5
	Multifamily (5+ units - rent)	11	3	affordable	10	4
TOTALS					66	19

**NOTES:**

1. The above information was provided by Jessica C. Caldwell, PP, AICP, LEED GA, the Principal Planner for Long Hill.
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. 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**  
**LONG HILL TOWNSHIP SCHOOL DISTRICT**  
**OCTOBER 15, 2018 ENROLLMENT, BY SCHOOL, BY GRADE**

SCHOOL	PK	K	1	2	3	4	5	6	7	8	UG	TOTAL
Central M.S. (030)	0	0	0	0	0	0	0	81	102	68	6	257
Millington E.S. (060)	0	0	0	83	94	91	81	0	0	0	18	367
Gillette E.S. (050)	28	93	102	0	0	0	0	0	0	0	4	227
TOTAL	28	93	102	83	94	91	81	81	102	68	28	851

**PROJECTED ENROLLMENT BY SCHOOL, BY GRADE - FOR 2023-24**

SCHOOL	PK	K	1	2	3	4	5	6	7	8	UG	TOTAL
Central M.S. (030)	0	0	0	0	0	0	0	108	88	94	7	297
Millington E.S. (060)	0	0	0	104	114	95	113	0	0	0	20	446
Gillette E.S. (050)	25	81	77	0	0	0	0	0	0	0	4	187
TOTAL	25	81	77	104	114	95	113	108	88	94	31	930

TABLE 3 PROJECTIONS FOR 2023-24	25	81	77	104	114	95	113	108	88	94	31	930
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