

# **Comments on Kiryas Joel's Annexation Requests**

## **Draft Generic Environmental Impact Statement Input**

### **Population Growth And Impact On Water And Wastewater capacity.**

**This submission contains 2 new scenarios that are based on 2000 to 2010 population growth based on the growth within age groups.**

**Also submitted was 3 scenarios that were done in 2013 and are based on municipal growth in the Orange County Sewer District**

**What is not currently considered in the DGEIS is the impacts that this growth will have on the surrounding communities.**

**Robert A. Fromaget  
5 Arlington Drive  
Monroe NY 10950**

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## The Draft Environmental Impact Statement (DGEIS) Comments.

### Introduction:

As described below, the population growth analysis and the assumptions on which it was based in the DGEIS are fundamentally flawed and must be redone in either a Supplemental Generic Environmental Impact Statement or the Final Environmental Impact Statement. The DGEIS and the population data on which it relies grossly understates the potential growth of the Village of Kiryas Joel. Based on the analysis below, the Village by its internal growth rate and in-migration rate, which the data herein cited suggests is significantly higher than cited in the DGEIS, is likely to result in the growth of the Village to more than 147,063 people by the year 2040 if a sufficient housing stock in a geographically expanded Village is available to accommodate such a population expansion.

As the DGEIS states time and again, the Village strives to provide its residents with several municipal services, including, most notably connection to the municipal sewer. However, the Orange County Sewer District No. 1, the Harriman Wastewater Treatment Plant and the Ramapo River have a fixed capacity to accommodate sewage flow and the overutilization of that capacity by the Village of Kirays Joel's significant rezoning of property within the sewer district to accommodate such growth will undoubtedly affect the patterns of population concentration, distribution and growth for both communities within Orange County Sewer District No. 1 and the Modena Communities because the sewage capacities these communities need to grow will be monopolized by the Village of Kiryas Joel.

In order for the lead agency to meet its obligation to take a hard look at the environmental impacts of an annexation that will undoubtedly facilitate a significant increase in density and sewer capacity utilization in Orange County Sewer District 1, particularly impacts on the patters of population concentration, distribution and growth, community character and human health, the Final Generic Environmental Impact Statement or a Supplemental Generic Environmental Impact Statement must:

1. revise its population analysis to address the issues and concerns raised in this submission; and
2. analyze the Village of Kiryas Joel's utilization of the capacity of Orange County Sewer District 1 and the potential utilization of such capacity by an expanded Village population within the Orange County Sewer District when compared with other communities in the sewer district and the Modena communities and

3. analyze how limited sewer capacity within the sewer district due to overutilization of such capacity by Kiryas Joel will impact the patterns of population concentration, distribution and growth and the availability and affordability of housing in the other Orange County Sewer District No 1 communities and the Modena communities.

## *Concerns about population projections for the Village of Kiryas Joel:*

### Concerns about Tim Miller Associates Population Projections:

Tim Miller and Associate's DGEIS document used the 2010 U.S. Census population of 20,175 but this represents the population when the Census was collected during 2010 and does not consider the year end final population which was 20,878. This is supported by the U.S. Census Summary document on page 1 of section H1. Using the year-end rate would result in a much higher population over the time period of 2010 to 2040.

Tim Miller and Associates used school age girls in the Kiryas Joel own parochial schools as the only population driver and this is not based on any methodology that I have seen for projecting population. This approach is not verifiable since there is no independent source for this information besides his tables in section H3 of the DGEIS.

The Tim Miller Associates document assumes that the U.S. Census growth rate was valid. However, my analysis suggests that the U.S. Census data is flawed and does not reflect the Kiryas Joel actual growth rate. In fact, my study suggests that the growth rate is closer to 8.5% and is consistent with the housing unit growth over the 2000 to 2010 period<sup>1</sup>.

As a result of the fact that Tim Miller Associates used population by age, I reviewed the various population groups presented in the U.S. Census in order to determine where they got the projections in Section H1 of their DGEIS. Table 1.0 contains a summary of my review of the total population growth in Kiryas Joel from 2010 to 2040 and when added to my previous study becomes scenario number 4.<sup>2</sup>

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<sup>1</sup> Orange County Sewer District, Population, Water Demand, Wastewater Projections, Assessment and Investigation. by Robert A. Fromaget, Dated February 7,2013.

<sup>2</sup> Orange County Sewer District, Population, Water Demand, Wastewater Projections, Assessment and Investigation. by Robert A. Fromaget, Dated February 7,2013.



## Population Estimates Based On U.S. Census Age Groups

U.S. Census Kiryas Joel Total Population [Years of age]	% Growth by age group 2000 to 2010	2010 U.S. Census Pop.	2020	2030	2040	Change over 30 years	% Change over 30 years
Under 5	72.2%	4,609	9,252	18,573	37,284	28,032	608%
5 to 9	67.3%	3,648	7,000	13,431	25,771	18,771	515%
10 to 14	57.0%	2,707	4,713	8,206	14,288	9,575	354%
15 to 19	16.6%	2,075	2,447	2,886	3,404	957	46%
20 to 24	9.5%	1,596	1,754	1,927	2,117	364	23%
<b>[15 to 24]</b>	<b>13.4%</b>	<b>3,671</b>	<b>4,194</b>	<b>4,801</b>	<b>5,501</b>	<b>1,830</b>	<b>50%</b>
25 to 34	90.7%	2,763	6,582	15,680	37,354	30,772	1114%
35 to 44	80.8%	1,311	2,852	6,205	13,499	10,647	812%
45 to 54	-40.5%	509	442	292	193	(248)	-49%
55 to 59 *	693.9%	389	658	1,114	3,028	2,370	609%
60 to 64 *	839.5%	357	604	1,022	3,018	2,414	676%
65 and over	3.4%	211	218	225	233	15	7%
	53.6%	20,175	36,523	69,562	140,190	103,667	514%

Table 1.0, Total projected growth in Kiryas Joel from 2010 to 2040. The rate of growth is based on the U.S. Census data from 2000 to 2010. Details for this table are provided in Appendix A-1 – 2011 to 2020, A4 – 2021 to 2030 and A-9- 2031 to 2040.

There are a couple concerns with these projections.

1. Since the 15 to 24 age group is the group that is culturally significant how could the 2000 to 2010 U.S. Census data suggest that this group grew at a rate of 13.4% a year over that 10 year period. This group represents 18% of the total population and given the statements by the leaders of Kiryas Joel concerning their culture it is unrealistic to suggest that they grew an average of 13.4% a year. This is especially evident given the growth rates for the other age groups in table 1.0 above. What I suspect actually happened was that this group was not properly counted in the 2010 Census.
2. The growth of the “under 5 group” suggests that these children are not being born in this community but are “in-migrating” to Kiryas Joel. This is supported by the fact that the growth of the 25 to 34 age group was 90.7% from 2000 to 2010 while the 15 to 24 age group grew at the rate of 13.4% over that same period. Thus, the 25 to 44 group is the one that is providing the real growth for Kiryas Joel. This is supported by the data in Table 2.0, Female growth in Kiryas Joel. Table 2.0 shows that the 15 to 24 female group only grew by 7.5 % from 2000 to 2010 while the 25 to 34 age group grew by 104.1%.

My outlook supports a total growth for Kiryas Joel without ‘In-migration’ of 140,190 residents by 2040. However this does not consider the imbalance between the female population and the male population.

Based on the rate derived from the 2000 to 2010 U.S. Census data it is expected that Kiryas Joel’s female population will grow faster than their male counterparts from 2010 to 2040.

U.S. Census Kiryas Joel Female Population [Years of age]	2010 U.S. Census Female Pop.	2020	2030	2040	Change over 30 years	% Change over 30 years
<b>Under 5</b>	2,295	5,011	10,464	21,411	19,116	833%
<b>5 to 9</b>	1,759	3,720	7,482	14,702	12,943	736%
<b>10 to 14</b>	1,320	2,494	4,537	8,095	6,775	513%
<b>15 to19</b>	887	1,105	1,362	1,665	560	63%
<b>20 to 24</b>	721	813	915	1,026	213	30%
<b>Total:</b>	<b>1,608</b>	<b>1,918</b>	<b>2,276</b>	<b>2,691</b>	<b>1,083</b>	<b>67%</b>
<b>25 to 34</b>	1,366	3,600	8,923	21,603	18,003	1318%
<b>35 to 44</b>	652	1,554	3,515	7,782	6,229	955%
<b>45 to 54</b>	251	212	124	66	(145)	-58%
<b>55 to 59</b>	198	355	622	1,742	1,387	700%
<b>60 to 64</b>	163	308	552	1,720	1,412	866%
<b>65 and over</b>	120	124	128	133	9	7%
	9,732	19,296	38,625	79,945	66,500	683.3%

Table 2.0, Projected growth of the Kiryas Joel Female population from 2010 to 2040. The rate of growth is based on the % growth based on U.S. Census data for 2000 to 2010. Detail for this table is provided in Appendix A-2, A-5 and A8 below.

The data above shows that the female population will grow by 64,786 residents from 2010 to 2040, or 666% over the 30 year period. As you can see in Table 2.0 above there is one group that continues to grow at a suspiciously slow rate of growth. That is those females reaching the age for marriage, i.e., 15 to 24. This raises a couple of concerns:

1. What happens to the total populations for those under 14 once they turn 15? Where do they go? Or were the 15 to 24 year old females even counted in the 2010 Census when it was conducted.
2. With the low number of 20 to 24 year olds where did the 25 to 34 population come from? Were they “in-migrants” or are they the women that were not counted in the Census Survey? Since Kiryas Joel leadership states that they

have very little “in-migration” it suggests that they were in Kiryas Joel in 2010 but were not counted.

Concerns about the U.S. Census male projections based on age groups.

The male population projections<sup>3</sup> shown in Table 2.0 are growing at a slower rate than the female. This suggests that the “in-migration” of males to Kiryas Joel will add to the internal growth rate and by 2040 it will reach a total of 12,558 in order to provide spouses for the larger female population.

U.S. Census Kiryas Joel Male Population [Years of age] - (53.8%)	2010 U.S. Census male Pop.	2020	2030	2040	Change over 30 years	% Change over 30 years
Under 5	2,314	4,241	8,109	15,873	13,559	586.0%
5 to 9	1,889	3,280	5,949	11,069	9,180	486.0%
10 to 14	1,387	2,219	3,669	6,193	4,806	346.5%
15 to 19	1,188	1,342	1,525	1,740	397	33.4%
20 to 24	875	940	1,012	1,091	216	17.2%
<b>[15 to 24]</b>	<b>2,063</b>	<b>2,283</b>	<b>2,537</b>	<b>2,831</b>	<b>768</b>	<b>37.2%</b>
25 to 34	1,397	2,982	6,757	15,751	14,354	1027.5%
35 to 44	659	1,299	2,690	5,717	5,058	767.5%
45 to 54	258	230	168	127	(131)	-50.8%
55 to 59	191	303	492	1,286	1,095	573.4%
60 to 64	194	297	470	1,298	1,104	569.2%
65 and over	91	94	97	100	9	10.0%
	10,443	17,227	30,937	60,245	49,648	475.4%

Table 2.0, Projected growth of the Kiryas Joel Male population from 2010 to 2040. The rate of growth is based on the % growth based on U.S. Census data for 2000 to 2010. Detail for this table is provided in Appendix A-3, A-6 and A9 below.

The only group that has more males than females is the 15 to 24 group in 2010.

<sup>3</sup> Table 2.0, Growth of all groups of males between Under 5 through 44 years of age based on U.S. Census growth from 2000 to 2010.

The impact of the Female and Male population growth projections.

Although the male population in 2010 was higher than the female population the rate of growth for the males was slower between 2000 and 2010 and the growth of the females will exceed that of the male population about midway through the 2020's.

U.S. Census Kiryas Joel Population	2010 U.S. Census male Pop.	2020	2030	2040	Change over 30 years	% Change 2010 to 2040
Kiryas Joel Females	9,732	19,296	38,625	79,945	66,500	683.3%
Kiryas Joel Males	10,443	17,227	30,937	60,245	49,648	475.4%
Male In-migration		377	5,308	6,873	12,558	
<b>Total Population</b>	<b>20,175</b>	<b>36,900</b>	<b>74,870</b>	<b>147,063</b>	<b>128,706</b>	

Table 3.0, Projected shortage of male spouses for the available female population from 2020 to 2040.

The concern with this shortfall in males is that the community currently claims that they need the housing for the newlyweds between the 15 and 24 years of age. Yet that group (15 to 24) has more men than women which would mean there will be men who are available to be relocated to find a spouse in other communities.

Then there is the group that is in the 25 to 44 age groups that is growing faster than the 20 to 24 age group. The 20 to 24 age groups is too small to sustain the growth of the 25 to 44 age groups from within the community thus requiring more “in-migration.” This raises a question, “Who is actually in need of the housing and where are they coming from?”

The shortfall in available men mainly exists in the population in the age group under 5 to 14 years of age, where 6,872 males are needed to ensure the females have spouses. All of these conditions suggest a larger “in-migration” will be needed to support Kiryas Joel’s growth and it will further escalate their growth.

Senior growth rates need to be adjusted to reflect reasonable growth..

The age groups 55 to 59 and 60 to 64 had significant increases from 2000 to 2010. However, the 2000 population in these groups were less than 100 and the 2010 populations were over 400 resulting in a significant growth rates for both of these age groups. Looking at the estimated 2011 thru 2013 growth rate for this population was of no use since the actual projected in the U.S. Census data for those years bounced up and down and had no value. Therefore, I converted to using the 5.4% growth rate for Kiryas Joel’s community for both of these age groups.

## Conclusion on Growth for Kiryas Joel.

The total estimated population found in this scenario based on 2000 to 2010 growth rate projections for each age group is 147,063 by 2040.

## Impact of population on water and wastewater demand.

The impact of this assessment on population growth suggests that from 2010 to 2040 there will be a population of 147,063 people in the Village of Kiryas Joel and they will need 10.6 million gallons per day (gpd) of water. This is based on the Kiryas Joel FEIS document for their water pipeline where they state their average consumption is 72 gallons per day per resident.

Their wastewater capacity to support this community will be based on housing units and this population with an average of 6 persons per household will require 24,510 housing units. The DEC states that the wastewater capacity depends on the number of bedrooms and number of kitchens per unit<sup>4</sup>. However, the number of kitchens is not used in Orange County. At 450 gpd per unit Kiryas Joel will require 11.0 million gallons per day to support the 147,063 people in their municipality.<sup>5</sup> However, then we need to add in the impact of infiltration and inflow (seepage into the sewer lines that ends up in the wastewater treatment plants). This could be in excess of 20% of the capacity, thus requiring an additional 2.2 million gallons of capacity.

## A comparison of the U.S. Census growth for the 15 to 24 year old populations for most of the Orange County Sewer Districts municipalities.<sup>6</sup>

Taking a closer look at the 15 to 24 year old population. Table 4.0 below looks at the population and compares the population growth from 2000 to 2010 and shows that the growth in Kiryas Joel is in need of investigation since it is the only municipality that is growing below their U.S. Census population growth rate (See the last column in Table 4 below).

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<sup>4</sup> <http://www.timmlerassociates.com/publicreview/btholdings/App%20J%20Wastewater%20Report.pdf>,

Wastewater Projections, Chester NY, page 3 indicated that 3 bedrooms would require 400 gpd. Since I assume all units will have 4 bedrooms then I used 450 gpd for this estimate.

<sup>5</sup> See page 43 table 2.0, scenario 2, footnote 31: Kiryas Joel's population, water demand and wastewater projections based on an adjusted housing unit growth from 2000 to 2010.

<sup>6</sup> Missing from this assessment is the Village of South Blooming Grove and part of the Town of Monroe that is in the district.

Municipality	Category	Total 2000 to 2010 U.S. Census Population Growth Rate	2000 U.S. Census	2010 U. S. Census	Change 2000 to 2010	% change 2000 to 2010	Avg. Growth Per Year	Avg Growth as a percent of U.S. Census Growth
Kiryas Joel	<b>Total</b>	<b>5.4%</b>	<b>3,237</b>	<b>3,671</b>	<b>434</b>	<b>13%</b>	<b>1.3%</b>	<b>24%</b>
	Females		1,495	1,608	113	8%	0.8%	
	Males		1,742	2,063	321	18%	1.8%	
Blooming Grove	<b>Total</b>	<b>0.4%</b>	<b>2,049</b>	<b>2,418</b>	<b>369</b>	<b>18%</b>	<b>1.8%</b>	<b>450%</b>
	Females		1,022	1,154	132	13%	1.3%	
	Males		1,027	1,264	237	23%	2.3%	
Harriman	<b>Total</b>	<b>0.8%</b>	<b>224</b>	<b>294</b>	<b>70</b>	<b>31%</b>	<b>3.1%</b>	<b>388%</b>
	Females		111	143	32	28%	2.8%	
	Males		113	151	38	34%	3.4%	
Woodbury	<b>Total</b>	<b>2.1%</b>	<b>1,013</b>	<b>1460</b>	<b>447</b>	<b>44%</b>	<b>4.4%</b>	<b>210%</b>
	Females		441	484	73	18%	1.8%	
	Males		407	616	209	52%	5.2%	
Village of Monroe	<b>Total</b>	<b>0.8%</b>	<b>818</b>	<b>1,100</b>	<b>282</b>	<b>34%</b>	<b>3.4%</b>	<b>425%</b>
	Females		441	484	73	18%	1.8%	
	Males		407	616	209	52%	5.2%	
Village of Chester	<b>Total</b>	<b>1.5%</b>	<b>369</b>	<b>429</b>	<b>60</b>	<b>16%</b>	<b>1.6%</b>	<b>106%</b>
	Females		186	192	6	3.0%	0.3%	
	Males		183	237	54	29%	2.9%	

Table 4.0, Population growth for males and females in the age group of 15 to 24 from 2000 to 2010 for communities within the Orange County Sewer District suggests that Kiryas Joel's female and male population is growing the slowest for this age group.

The data above provides an interesting picture and reinforces my concern about the accuracy of the U.S. Census for 2010. Upon careful review what you find is the Kiryas Joel population data for the age of 15 to 24 for both females and males, according the U.S. Census, grew 13.4% from 2000 to 2010. While all of the other communities in that district grew at a much faster rate. If you look at Appendix A2 below (Kiryas Joel U.S. Census Data by Age Groups) the data suggests that the growth for this population in Kiryas Joel remains almost flat over the 2010 to 2040 time period.

#### Growth in other Orange County Sewer District Municipalities:

Appendix B thru E contains population estimates using their population age groups. In reviewing these municipalities you can see that the population of most of the groups in most of the municipalities are experiencing a decrease in population. The only groups that are growing are the seniors and the 15 to 24 groups. This is not a healthy picture for our County or our state because as this population grows and working aged

residents decline in the neighboring communities and this will create many economic issues with healthcare and funding the programs needed to support this mix of residents.

## Smart Growth

In response to the person from Tim Miller Associates concerning “Smart Growth.” Smart Growth requires resources such as water and sewer and the community grows around the established infrastructure as the community grows.

“Smart Growth promotes efficient use of public and private infrastructure and starts with creating neighborhoods that maximize the use of existing infrastructure. Special consideration should be given to the location and timing of infrastructure extensions in rural areas *so as not to encourage growth that will promote inefficient and unsustainable development patterns; create the need for additional inefficient and costly infrastructure; result in the loss of viable agriculture, forest land, and important natural habitat; create conflicts between agricultural and urban land uses; or ultimately harm the character of the rural community.* Smart Growth principles have an economic benefit to the communities and regions that employ them.”<sup>7</sup>

The above outlines why Kiryas Joel fails in its attempt to implement smart growth. It fails because it “promotes inefficient and unsustainable development patterns” by seeking to acquire the resources needed for their growth regardless of the cost to the environment or the taxpayers with whom they share these resources. That is why Kiryas Joel needs to go to Cornwall and New Windsor to get their water and this drives the need for more wastewater capacity. By Kiryas Joel’s own words it will grow regardless of the availability of land and the infrastructure will be provided by the government (aka, taxpayers) to support that growth. If we continue to dump the effluent into the Ramapo waterway which now has more effluent than it has capacity to process we are exposing the downstream municipalities that rely on this waterway as a sole source aquifer and this must stop. Kiryas Joel must complete an honest SEQRA document that addresses these issues and the government must take action if we are to understand the impact on the Ramapo river and the downstream communities. The last study completed on the amount of effluent that can be dumped into the Ramapo was when the plant was 1<sup>st</sup> built in approximately 1976. At that time it was rated as “not to exceed 6 million gallons per day (gpd)”. With the Orange County Sewer District at 6 million gpd and the Kiryas Joel District at 970,000 gpd there is no more capacity and a new study MUST be performed.

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<sup>7</sup> <https://www.planning.org/policy/guides/adopted/smartgrowth.htm>



*This is not smart growth, this is an environmental disaster waiting to happen!*

I received the following from Mr. Terry Hughes (an engineer), who once operated the Suffern Wastewater treatment plant that also dumps into the Ramapo river. “The Ramapo River under the federal Safe Drinking Water Act is an identified sole source aquifer. It is the only sole source aquifer under that Act to be bi-state. However, unlike the Delaware River and the Susquehanna River, both of which supply drinking water to communities along its path, but are not Sole Source Aquifers, the Ramapo River is the only one which is not the subject of an interstate compact. The Delaware River compact involves NY, NY, and Pa., the Susquehanna River Compact involves NY and Pa.

The key point now for the petition is that the SEQRA analysis of environmental impacts does not include New Jersey as an interested agency in any form (the Bergen County boroughs sourcing their drinking water from the aquifer could be considered interested agencies or even involved agencies). As Superintendent of Public Works for the Village of Suffern our sewer plant, discharging just upstream of Mahwah, New Jersey, of course had to disinfect our sewage discharges under our SPDES permit with chlorine, but since this was a sole source aquifer the requirement was the chlorine had to be eliminated since the Ramapo River was a drinking water source, so after chlorine disinfection sulfur dioxide treatment was demanded. Since this meant storage of two highly hazardous chemicals with difficult process control standards, the Village of Suffern became the first in the United States to use UV light for disinfection. Should this not be required for the carrying capacity of a drinking water source not to be compromised for any expansion of the poorly run Harriman sewage treatment plant of Orange County?<sup>8</sup>

I don’t know, but the integrity of the Ramapo River as a bi-state sole source aquifer must be addressed in the DGEIS. Tim Miller Associates, the professionals preparing the DEIS for KJ, made a big point at the recent public hearing of stating since KJ plans to get its drinking water from the NYC aqueduct that there would be no impacts on available potable water supplies in Orange County, but in obverse issue is whether the wastewater from the expansion will destroy federally protected bi-state water supplies. Remember, this is not simply in NJ, the Village of Suffern wells are recharged from the Ramapo River, as are the United Water wells along the Ramapo River, which you can see from the Thruway.”<sup>9</sup>

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<sup>8</sup> The Harriman Wastewater Treatment Plant is run by the County.

<sup>9</sup> Provided by Terry Hughes, engineer and former head of DPW in Suffern, NY. Responsible for operating their sewer district.



## *Conclusion*

### *Kiryas Joel's water supply and future demand.*

Assume that this population projection for Kiryas Joel is correct and it will grow to 147,063 and with a consumption rate of 72 gpd per person, then its people will need 10.6 mgpd to satisfy their demand.

The current amount of water that is available to the Kiryas Joel Population is 1,928,000 gallons per day and each unit requires 432 gallon per day. In 2010 there were 4,135 housing units requiring 1,786,320 gpd to be set aside for those units leaving 141,680 gallons of the current supply available for growth. The county reported that from 2010 to 2013 an additional 424 building permits were issued and this means Kiryas Joel needs an additional 183,168 gallons of water, a shortfall of a little over 40,000 gallons per day. One thing that this does not take into consideration is the constant drawing water from these well will lower the water tables and thus the amount of water that can be drawn from there wells. This needs to be looked at if they are to maintain a sufficient capacity for back up as required by the DEP in NYC in order for them to hook up to the aqueduct.

A tour of Kiryas Joel will readily show that their construction has escalated, now they are building three story apartment buildings (more units) and there is no water to support the people when they move in. I submit this is why Kiryas Joel is so desperate to link to the Mountainville water supply and the aqueduct.

### *Kiryas Joel's wastewater supply and future demand.*

The current capacity of the OCSD is 6 million gallons per day and there is 2.5 million gallons allocated to the 4 OCSD members.<sup>10</sup> Since the OCSD users flows are not monitored with meters it is difficult to know how much each member uses. I would estimate based on their current water demand that Kiryas Joel's utilization is well over 2 mgpd if we include the seepage of water into the sewer mains (Infiltration and Inflow – I&I).

The increased population found in this study means Kiryas Joel will need 14.9 mgpd just to support the 158,355 people, or an increase of 12.4 mgpd. This will cover the actual water consumed by Kiryas Joel's projected population (11.4 mgpd) and the infiltration and inflows for that community.

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<sup>10</sup> Moodna members are not included because they have their own allocations or over 2 mgpd and some communities have requested to share in the 1.5 million that was added in 2006-2008..

However, as you know there are other communities connected to this district so their growth needs to be added to this capacity requirement.<sup>11</sup> What will they need?

The affluence from both the OCSD and the Kiryas Joel WWTPs is being dumped into the Ramapo River, a sole source waterway that replenishes the aquifers that supplies millions of people downstream with drinking water. This river was last rated to handle 6 mgpd of affluence per day and with the OCSD and Kiryas Joel's WWTPs both dumping into this waterway there is 6.97 mgpd poised to be dumped into the Ramapo River and in fact during storms it has exceeded this flow.

This growth exposes the drinking water source to contamination since the affluence may enter the aquifers and affect the water supply for the downstream communities that depend on it for drinking water. Now there is talk of increasing the capacity of the OCSD and the potential for contamination of this important waterway will increase.

What will this increased demand for water and wastewater do to the supply for all the residents of our county? How much will it cost? Shouldn't we take the time to protect these important resources and studied these impacts very carefully?

I understand that the DGEIS is presenting a negative declaration on the SEQRA – no environmental impacts. Is this the correct decision? I say no! I request that a full SEQRA be done with the participation of the State of New Jersey and the downstream communities in New York to protect this water source for the present and future residents of our Country.

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<sup>11</sup> This information can be found in my other study, Orange County Sewer District, Population, Water Demand, Wastewater Projections, Assessment and Investigation. by Robert A. Fromaget, Dated February 7,2013.

## Appendices:

### Appendix A Kiryas Joel U.S. Census Data by Age Group.

#### 1. Kiryas Joel's Total U.S. Census Population projections for 2011 to 2020 based on 2000 to 2010 U.S. Census

U.S. Census Kiryas Joel Total Population [Years of age]	2000 U.S. Census Population	2010 U.S. Census Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% Change 2010 to 2020
Under 5	2,677	4,609	1,932	72%	7.2%	4,942	5,298	5,681	6,091	6,530	7,001	7,507	8,049	8,629	9,252	100.7%
5 to 9	2,180	3,648	1,468	67%	6.7%	3,894	4,156	4,436	4,734	5,053	5,393	5,757	6,144	6,558	7,000	91.9%
10 to 14	1,724	2,707	983	57%	5.7%	2,861	3,024	3,197	3,379	3,572	3,776	3,991	4,218	4,459	4,713	74.1%
15 to19	1,779	2,075	296	17%	1.7%	2,110	2,145	2,180	2,217	2,253	2,291	2,329	2,368	2,407	2,447	17.9%
20 to 24	1,458	1,596	138	9%	0.9%	1,611	1,626	1,642	1,657	1,673	1,689	1,705	1,721	1,737	1,754	9.9%
<b>[15 to 24 ]</b>	<b>3,237</b>	<b>3,671</b>	<b>434</b>	<b>13%</b>	<b>1.3%</b>	<b>3,721</b>	<b>3,771</b>	<b>3,821</b>	<b>3,872</b>	<b>3,924</b>	<b>3,977</b>	<b>4,030</b>	<b>4,084</b>	<b>4,139</b>	<b>4,194</b>	<b>14.3%</b>
25 to 34	1,449	2,763	1,314	91%	9.1%	3,014	3,287	3,585	3,910	4,265	4,651	5,073	5,533	6,035	6,582	138.2%
35 to 44	725	1,311	586	81%	8.1%	1,417	1,531	1,655	1,789	1,934	2,090	2,259	2,441	2,639	2,852	117.6%
45 to 54	855	509	(346)	-40%	-4.0%	488	469	590	566	543	521	500	480	460	442	-13.2%
55 to 59 *	49	389	340	694%	69.4%	410	432	455	480	506	533	562	592	624	658	69.2%
60 to 64 *	38	357	319	839%	83.9%	376	397	418	441	464	489	516	544	573	604	69.2%
65 and over	204	211	7	3%	0.3%	212	212	213	214	215	215	216	217	218	218	3.5%
<b>Totals:</b>	<b>13,138</b>	<b>20,175</b>	<b>7,037</b>	<b>54%</b>	<b>5.4%</b>	<b>21,334</b>	<b>22,578</b>	<b>24,052</b>	<b>25,478</b>	<b>27,008</b>	<b>28,651</b>	<b>30,414</b>	<b>32,308</b>	<b>34,340</b>	<b>36,523</b>	

\* For the purpose of estimating growth we estimated a growth rate of 5.4% a year due to the very low 2000 populations and relatively high 2010 population.

Table A1 –Total Kiryas Joel's population with the 2011 to 2020 growth based on 2000 to 2010 growth rate

Total Growth of all Kiryas Joel's residents in the 15 to 24 age group was 13% from 2000 to 2010 time period, or an average of 1.3% a year. This shows a significant decline in growth as compared to the growth in all groups younger than 15 and older than 24. Also, it brings into question the validity of this groups Census data.

## 2. Kiryas Joel's Female U.S. Census Population projections for 2011 to 2020 based on 2000 to 2010 U.S. Census

U.S. Census Kiryas Joel Female Population [Years of age]	2000 U.S. Census Female Pop. - (46.2%)	2010 U.S. Census Female Pop. (48.2%)	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% Change 2010 to 2020
Under 5	1,237	2,295	1,058	85.6%	8.6%	2,490	2,698	2,922	3,162	3,419	3,695	3,990	4,307	4,647	5,011	118.4%
5 to 9	1,007	1,759	752	74.6%	7.5%	1,903	2,056	2,220	2,395	2,581	2,780	2,993	3,219	3,462	3,720	111.5%
10 to 14	796	1,320	524	65.7%	6.6%	1,410	1,506	1,607	1,713	1,826	1,945	2,071	2,204	2,345	2,494	88.9%
15 to19	822	887	65	7.9%	0.8%	907	928	949	970	991	1,013	1,036	1,058	1,081	1,105	24.6%
20 to 24	674	721	47	7.0%	0.7%	730	739	748	757	766	775	785	794	804	813	12.8%
<b>[15 to 24 ]</b>	<b>1,495</b>	<b>1,608</b>	<b>113</b>	<b>7.5%</b>	<b>0.8%</b>	<b>1,637</b>	<b>1,666</b>	<b>1,696</b>	<b>1,727</b>	<b>1,757</b>	<b>1,789</b>	<b>1,820</b>	<b>1,852</b>	<b>1,885</b>	<b>1,918</b>	19.3%
25 to 34	669	1,366	697	104.1%	10.4%	1,513	1,672	1,847	2,037	2,244	2,471	2,717	2,987	3,280	3,600	163.6%
35 to 44	335	652	317	94.7%	9.5%	714	781	853	932	1,016	1,108	1,207	1,313	1,429	1,554	138.3%
45 to 54	395	251	(144)	-36.5%	-3.6%	239	227	298	284	271	258	246	234	223	212	-15.7%
55 to 59	23	198	175	774.6%	77.5%	210	223	237	251	266	282	299	317	336	355	79.5%
60 to 64	18	163	145	828.5%	82.8%	174	186	199	212	226	240	256	272	289	308	88.7%
65 and over	94	120	26	27.3%	2.7%	120	121	121	122	122	123	123	123	124	124	3.6%
	6,070	9,732	3,662	60.3%	6.0%	10,410	11,138	12,000	12,834	13,730	14,691	15,722	16,830	18,019	19,296	

Table A2 –Kiryas Joel's female Population with the 2011 to 2020 growth based on 2000 to 2010 growth rate

Total Growth of all Kiryas Joel female residents between the ages of 15 to 24 was 7.5% over the 2000 to 2010 time period. The growth rate above and below the 15 to 24 age groups have a significantly higher population growth than this group and raises all kinds of questions as to the accuracy and completeness of the 2010 U.S. Census.

### 3. Kiryas Joel's Male U.S. Census Population projections for 2011 to 2020 based on 2000 to 2010 U.S. Census

U.S. Census Kiryas Joel Male Population [Years of age] - (53.8%)	2000 U.S. Census Male Pop (53.8%)	2010 U.S. Census Female Pop. (51.8%)	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% Change 2010 to 2020
Under 5	1,440	2,314	874	60.7%	6.1%	2,452	2,600	2,759	2,929	3,111	3,307	3,516	3,741	3,982	4,241	83.3%
5 to 9	1,173	1,889	716	61.1%	6.1%	1,991	2,100	2,216	2,340	2,472	2,613	2,764	2,925	3,097	3,280	73.6%
10 to 14	928	1,387	459	49.5%	5.0%	1,451	1,519	1,590	1,666	1,746	1,830	1,920	2,014	2,114	2,219	60.0%
15 to19	957	1,188	231	24.1%	2.4%	1,202	1,217	1,232	1,247	1,262	1,278	1,293	1,310	1,326	1,342	13.0%
20 to 24	784	875	91	11.5%	1.2%	881	888	894	900	907	914	920	927	934	940	7.5%
<b>[15 to 24 ]</b>	<b>1,742</b>	<b>2,063</b>	<b>321</b>	<b>18.5%</b>	<b>1.8%</b>	<b>2,084</b>	<b>2,104</b>	<b>2,126</b>	<b>2,147</b>	<b>2,169</b>	<b>2,191</b>	<b>2,214</b>	<b>2,236</b>	<b>2,259</b>	<b>2,283</b>	<b>10.7%</b>
25 to 34	780	1,397	617	79.2%	7.9%	1,501	1,614	1,738	1,873	2,020	2,181	2,356	2,547	2,755	2,982	113.4%
35 to 44	390	659	269	69.0%	6.9%	703	750	802	857	917	982	1,052	1,128	1,210	1,299	97.0%
45 to 54	460	258	(202)	-43.9%	-4.4%	249	241	292	282	272	263	254	246	238	230	-10.8%
55 to 59	26	191	165	624.5%	62.5%	200	209	219	229	240	251	263	275	289	303	58.5%
60 to 64	20	194	174	848.9%	84.9%	202	210	219	229	239	249	260	271	284	297	52.8%
65 and over	110	91	(19)	-17.1%	-1.7%	91	92	92	92	93	93	93	93	94	94	3.4%
	7,068	10,443	3,375	48%	4.8%	10,924	11,440	12,052	12,644	13,279	13,960	14,692	15,478	16,321	17,227	

Table A3 –Kiryas Joel's male Population with the 2011 to 2020 growth based on 2000 to 2010 growth rate

Total Growth of all Kiryas Joel's male residents between the ages of 15 to 24 was 10.7 over the 2000 to 2010 time period. The growth of the Kiryas Joel male population over the 2000 to 2010 for those younger than 15 and higher than 24 grew at a lower rate than their female counterparts. Therefore, the female population out grew the male population during the 2011 to 2020 time period.

#### 4. Kiryas Joel's Total U.S. Census Population projections for 2021 to 2030 based on 2000 to 2010 U.S. Census

U.S. Census Kiryas Joel Total Population [Years of age]	2000 U.S. Census Pop	2010 U.S. Census Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average % Growth Per year by age group	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	% Change 2010 to 2020
Under 5	2,677	4,609	1,932	72.2%	7.2%	9,920	10,636	11,403	12,226	13,109	14,055	15,069	16,157	17,323	18,573	100.7%
5 to 9	2,180	3,648	1,468	67.3%	6.7%	7,471	7,974	8,511	9,084	9,696	10,349	11,046	11,790	12,584	13,431	91.9%
10 to 14	1,724	2,707	983	57.0%	5.7%	4,982	5,266	5,566	5,884	6,219	6,574	6,949	7,345	7,764	8,206	74.1%
15 to 19	1,779	2,075	296	16.6%	1.7%	2,488	2,529	2,571	2,614	2,658	2,702	2,747	2,793	2,839	2,886	17.9%
20 to 24	1,458	1,596	138	9.5%	0.9%	1,770	1,787	1,804	1,821	1,838	1,856	1,873	1,891	1,909	1,927	9.9%
<b>[15 to 24 ]</b>	<b>3,237</b>	<b>3,671</b>	<b>434</b>	<b>13.4%</b>	<b>1.3%</b>	<b>4,258</b>	<b>4,315</b>	<b>4,373</b>	<b>4,432</b>	<b>4,491</b>	<b>4,551</b>	<b>4,613</b>	<b>4,674</b>	<b>4,737</b>	<b>4,801</b>	<b>14.5%</b>
25 to 34	1,449	2,763	1,314	90.7%	9.1%	7,179	7,830	8,540	9,315	10,159	11,080	12,085	13,181	14,377	15,680	138.2%
35 to 44	725	1,311	586	80.8%	8.1%	3,083	3,332	3,601	3,892	4,207	4,547	4,914	5,312	5,741	6,205	117.6%
45 to 54	855	509	(346)	-40.5%	-4.0%	424	407	390	375	359	345	331	318	305	292	33.8%
55 to 59	49	389	340	693.9%	69.4%	694	731	771	812	856	902	951	1,002	1,057	1,114	69.2%
60 to 64	38	357	319	839.5%	83.9%	637	671	707	745	786	828	873	920	970	1,022	69.2%
65 and over	204	211	7	3.4%	0.3%	218	219	220	221	221	222	223	224	224	225	3.1%
	16,375	23,846	7,471	45.6%	4.6%	38,866	41,382	44,086	46,989	50,109	53,460	57,061	60,931	65,091	69,562	

Table A4 –Total Kiryas Joel's population growth for 2021 to 2030 is based on the 2000 to 2010 growth rate.

Total Growth of all Kiryas Joel's residents in the 15 to 24 age group grew at a rate of 14.4%% from 2000 to 2010 time period. This was a smaller growth rate than any of age groups younger than 14 and between the ages of 25 to 44.

## 5. Kiryas Joel's Female U.S. Census Population for 2021 to 2030 based on 2000 to 2010 U.S. Census

U.S. Census Kiryas Joel Female Population [Years of age]	2000 U.S. Census Female Pop. - (46.2%)	2010 U.S. Census Female Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Avg. % Change Per Year
Under 5	1,237	2,295	1,058	85.6%	8.6%	5,402	5,821	6,270	6,751	7,268	7,821	8,415	9,051	9,733	10,464	108.8%
5 to 9	1,007	1,759	752	74.6%	7.5%	3,996	4,290	4,604	4,939	5,297	5,679	6,087	6,522	6,987	7,482	101.1%
10 to 14	796	1,320	524	65.7%	6.6%	2,651	2,817	2,993	3,178	3,375	3,582	3,801	4,033	4,278	4,537	81.9%
15 to19	822	887	65	7.9%	0.8%	1,129	1,153	1,177	1,202	1,228	1,254	1,280	1,307	1,334	1,362	23.3%
20 to 24	674	721	47	7.0%	0.7%	823	833	843	853	863	873	883	894	904	915	12.5%
<b>[15 to 24 ]</b>	<b>1,495</b>	<b>1,608</b>	<b>113</b>	<b>7.5%</b>	<b>0.8%</b>	<b>1,952</b>	<b>1,986</b>	<b>2,020</b>	<b>2,055</b>	<b>2,091</b>	<b>2,127</b>	<b>2,163</b>	<b>2,200</b>	<b>2,238</b>	<b>2,276</b>	18.7%
25 to 34	669	1,366	697	104.1%	10.4%	3,950	4,330	4,746	5,199	5,693	6,232	6,820	7,461	8,160	8,923	147.8%
35 to 44	335	652	317	94.7%	9.5%	1,688	1,834	1,992	2,162	2,346	2,545	2,760	2,992	3,244	3,515	126.3%
45 to 54	395	251	(144)	-36.5%	-3.6%	201	191	182	172	163	155	147	139	131	124	-41.3%
55 to 59	23	198	175	774.6%	77.5%	376	398	421	446	471	498	527	557	589	622	75.0%
60 to 64	18	163	145	828.5%	82.8%	327	347	368	390	414	439	465	492	521	552	79.5%
65 and over	94	120	26	27.3%	2.7%	124	125	125	126	126	127	127	127	128	128	3.2%
	7,565	11,340	3,775	49.9%	5.0%	20,667	22,139	23,721	25,419	27,244	29,205	31,312	33,576	36,009	38,625	

Table A5 –Total Kiryas Joel's Female population growth for 2021 to 2030 is based on the 2000 to 2010 growth rate.

Total Growth of all Kiryas Joel's Female residents in the 15 to 24 age group grew 18.7% from 2021 to 2030 time period. All other age groups younger than 14 and between the ages of 24 to 44 grew at a much faster rate.

## 6. Kiryas Joel's Male U.S. Census Population projections for 2021 to 2030 based on 2000 to 2010 U.S. Census

U.S. Census Kiryas Joel Male Population [Years of age] - (53.8%)	2000 U.S. Census Female Pop (53.8%)	2010 U.S. Census Female Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Avg. % Change Per Year
Under 5	1,440	2,314	874	60.7%	6.1%	4,518	4,815	5,133	5,475	5,841	6,234	6,655	7,106	7,590	8,109	91.2%
5 to 9	1,173	1,889	716	61.1%	6.1%	3,475	3,684	3,907	4,145	4,399	4,670	4,959	5,268	5,597	5,949	81.4%
10 to 14	928	1,387	459	49.5%	5.0%	2,331	2,449	2,573	2,705	2,844	2,992	3,147	3,311	3,485	3,669	65.3%
15 to 19	957	1,188	231	24.1%	2.4%	1,359	1,377	1,394	1,412	1,430	1,448	1,467	1,486	1,505	1,525	13.6%
20 to 24	784	875	91	11.5%	1.2%	947	954	961	968	976	983	990	997	1,005	1,012	7.6%
<b>[15 to 24 ]</b>	<b>1,742</b>	<b>2,063</b>	<b>321</b>	<b>18.5%</b>	<b>1.8%</b>	<b>2,307</b>	<b>2,331</b>	<b>2,355</b>	<b>2,380</b>	<b>2,405</b>	<b>2,431</b>	<b>2,457</b>	<b>2,483</b>	<b>2,510</b>	<b>2,537</b>	11.1%
25 to 34	780	1,397	617	79.2%	7.9%	3,230	3,500	3,794	4,116	4,466	4,848	5,265	5,720	6,216	6,757	126.6%
35 to 44	390	659	269	69.0%	6.9%	1,394	1,498	1,609	1,730	1,861	2,002	2,154	2,319	2,497	2,690	107.1%
45 to 54	460	258	(202)	-43.9%	-4.4%	223	216	209	202	196	190	184	179	173	168	-27.0%
55 to 59	26	191	165	624.5%	62.5%	317	333	349	367	385	404	424	446	468	492	62.4%
60 to 64	20	194	174	848.9%	84.9%	310	324	339	355	372	390	408	428	448	470	58.5%
65 and over	110	91	(19)	-17.1%	-1.7%	94	94	95	95	95	96	96	96	97	97	3.0%
	8,810	12,506	3,696	42.0%	4.2%	18,199	19,243	20,365	21,570	22,864	24,255	25,749	27,355	29,081	30,937	

Table A6 –Total Kiryas Joel's Male population growth for 2021 to 2030 is based on the 2000 to 2010 growth rate.

Total Growth of all Kiryas Joel's male residents in the 15 to 24 age group 11.1% from 2021 to 2030 time period. The growth of the male population grew at a much slower rate than their female counterparts. This resulted in a shortage of eligible men and this a need for more in-migration.



7. Kiryas Joel's Total U.S. Census Population projections for 2031 to 2040 based on 2000 to 2010 U.S. Census

U.S. Census Kiryas Joel Total Population [Years of age]	2000 U.S. Census Pop.	2010 U.S. Census Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average % Growth Per year by age group	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	% change from 2030 to 2040
Under 5	2,677	4,609	1,932	72%	7.2%	19,913	21,351	22,891	24,544	26,315	28,214	30,250	32,433	34,774	37,284	100.7%
5 to 9	2,180	3,648	1,468	67%	6.7%	14,335	15,301	16,331	17,431	18,605	19,857	21,195	22,622	24,145	25,771	91.9%
10 to 14	1,724	2,707	983	57%	5.7%	8,674	9,169	9,691	10,244	10,828	11,446	12,098	12,788	13,517	14,288	74.1%
15 to19	1,779	2,075	296	17%	1.7%	2,934	2,983	3,033	3,083	3,135	3,187	3,240	3,294	3,348	3,404	17.9%
20 to 24	1,458	1,596	138	9%	0.9%	1,945	1,964	1,982	2,001	2,020	2,039	2,058	2,078	2,097	2,117	9.9%
<b>[15 to 24 ]</b>	<b>3,237</b>	<b>3,671</b>	<b>434</b>	<b>13%</b>	<b>1.3%</b>	<b>4,880</b>	<b>4,945</b>	<b>5,011</b>	<b>5,078</b>	<b>5,147</b>	<b>5,216</b>	<b>5,285</b>	<b>5,356</b>	<b>5,428</b>	<b>5,501</b>	<b>14.6%</b>
25 to 34	1,449	2,763	1,314	91%	9.1%	17,102	18,653	20,345	22,190	24,202	26,396	28,790	31,401	34,248	37,354	138.2%
35 to 44	725	1,311	586	81%	8.1%	6,706	7,248	7,834	8,468	9,152	9,892	10,691	11,555	12,489	13,499	117.6%
45 to 54	855	509	(346)	-40%	-4.0%	280	269	258	248	238	228	219	210	202	193	-33.8%
55 to 59	49	389	340	694%	69.4%	1,174	1,988	2,096	2,209	2,328	2,454	2,586	2,726	2,873	3,028	171.9%
60 to 64	38	357	319	839%	83.9%	1,077	1,982	2,089	2,201	2,320	2,446	2,578	2,717	2,864	3,018	195.3%
65 and over	204	211	7	3%	0.3%	226	227	228	228	229	230	231	231	232	233	3.5%
	16,375	23,846	7,471	46%	4.6%	74,369	81,134	86,778	92,846	99,371	106,388	113,936	122,055	130,791	140,190	

Table A7 –Total Kiryas Joel's total population growth for 2031 to 2040 is based on the 2000 to 2010 growth rate.

Total Growth of all Kiryas Joel's residents in the 15 to 24 age group grew at a rate of 14.6% from 2030 to 2040. Looking at the Under 5 to 14 age groups and the 25 to 44 groups it is not possible for the 15 to 24 age groups to generate the population without significant in-migrate for 25 to 44 populations and a significant exodus for the 10 to 14 age groups.

8. Kiryas Joel's Female U.S. Census Population projections for 2031 to 2040 based on 2000 to 2010 U.S. Census

U.S. Census Kiryas Joel Female Population [Years of age]	2000 U.S. Census Female Pop. - (46.2%)	2010 U.S. Census Female Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	% change from 2030 to 2040
Under 5	1,237	2,295	1,058	86%	8.6%	11,249	12,089	12,991	13,957	14,994	16,105	17,296	18,573	19,943	21,411	104.6%
5 to 9	1,007	1,759	752	75%	7.5%	8,011	8,576	9,179	9,822	10,509	11,242	12,024	12,859	13,751	14,702	96.5%
10 to 14	796	1,320	524	66%	6.6%	4,811	5,100	5,406	5,729	6,071	6,432	6,814	7,218	7,644	8,095	78.4%
15 to19	822	887	65	8%	0.8%	1,390	1,418	1,447	1,477	1,507	1,537	1,568	1,600	1,632	1,665	22.2%
20 to 24	674	721	47	7%	0.7%	925	936	947	958	969	980	991	1,003	1,014	1,026	12.2%
<b>[15 to 24 ]</b>	<b>1,495</b>	<b>1,608</b>	<b>113</b>	<b>8%</b>	<b>0.8%</b>	<b>2,315</b>	<b>2,354</b>	<b>2,394</b>	<b>2,435</b>	<b>2,476</b>	<b>2,518</b>	<b>2,560</b>	<b>2,603</b>	<b>2,646</b>	<b>2,691</b>	<b>18.2%</b>
25 to 34	669	1,366	697	104%	10.4%	9,755	10,662	11,652	12,731	13,908	15,192	16,593	18,120	19,786	21,603	142.1%
35 to 44	335	652	317	95%	9.5%	3,808	4,126	4,468	4,839	5,239	5,672	6,140	6,645	7,192	7,782	121.4%
45 to 54	395	251	(144)	-36%	-3.6%	117	111	104	98	92	87	81	76	71	66	-46.6%
55 to 59	23	198	175	775%	77.5%	657	1,134	1,196	1,263	1,332	1,406	1,484	1,565	1,651	1,742	180.1%
60 to 64	18	163	145	828%	82.8%	584	1,113	1,176	1,242	1,312	1,385	1,462	1,544	1,629	1,720	211.5%
65 and over	94	120	26	27%	2.7%	129	129	130	130	131	131	131	132	132	133	3.6%
	7,565	11,340	3,775	50%	5.0%	41,437	45,395	48,697	52,247	56,064	60,170	64,585	69,335	74,446	79,945	

Table A8 –Total Kiryas Joel's Female population growth for 2031 to 2040 is based on the 2000 to 2010 growth rate.

Total Growth of all Kiryas Joel's Female residents in the 15 to 24 age group grew 18.2% from 2031 to 2040. . However, all of the other age groups younger than 44 grew at a much faster rate. Again bringing into question U.S. Census data for the 15 to 24 age group. The females continue to grow faster than their male counterparts and therefore driving the need for in-migration of males to provide spouses for the growing female population.

## 9. Kiryas Joel's Male U.S. Census Population projections for 2031 to 2040 based on 2000 to 2010 U.S. Census

U.S. Census Kiryas Joel Male Population [Years of age] - (53.8%)	2000 U.S. Census Female Pop (53.8%)	2010 U.S. Census Female Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	% change from 2030 to 2040
Under 5	1,440	2,314	874	60.7%	6.1%	8,665	9,261	9,901	10,586	11,321	12,109	12,954	13,860	14,832	15,873	95.8%
5 to 9	1,173	1,889	716	61.1%	6.1%	6,324	6,724	7,152	7,608	8,095	8,615	9,170	9,762	10,395	11,069	86.1%
10 to 14	928	1,387	459	49.5%	5.0%	3,863	4,068	4,285	4,515	4,757	5,013	5,284	5,570	5,873	6,193	68.8%
15 to 19	957	1,188	231	24.1%	2.4%	1,545	1,565	1,585	1,606	1,628	1,649	1,671	1,694	1,716	1,740	14.1%
20 to 24	784	875	91	11.5%	1.2%	1,020	1,028	1,035	1,043	1,051	1,059	1,067	1,075	1,083	1,091	7.8%
<b>[15 to 24 ]</b>	<b>1,742</b>	<b>2,063</b>	<b>321</b>	<b>18.5%</b>	<b>1.8%</b>	<b>2,564</b>	<b>2,592</b>	<b>2,621</b>	<b>2,649</b>	<b>2,679</b>	<b>2,708</b>	<b>2,738</b>	<b>2,769</b>	<b>2,800</b>	<b>2,831</b>	<b>11.6%</b>
25 to 34	780	1,397	617	79.2%	7.9%	7,347	7,991	8,693	9,458	10,293	11,204	12,197	13,281	14,462	15,751	133.1%
35 to 44	390	659	269	69.0%	6.9%	2,898	3,123	3,366	3,629	3,913	4,220	4,551	4,910	5,298	5,717	112.5%
45 to 54	460	258	(202)	-43.9%	-4.4%	163	158	154	150	145	141	138	134	130	127	-24.4%
55 to 59	26	191	165	624.5%	62.5%	517	855	899	946	996	1,048	1,103	1,161	1,222	1,286	161.6%
60 to 64	20	194	174	848.9%	84.9%	493	868	913	959	1,009	1,061	1,115	1,173	1,234	1,298	176.2%
65 and over	110	91	(19)	-17.1%	-1.7%	97	98	98	98	99	99	99	99	100	100	3.4%
	8,810	12,506	3,696	42.0%	4.2%	32,931	35,739	38,081	40,599	43,307	46,219	49,351	52,720	56,345	60,245	

Table A9 –Total Kiryas Joel's male population growth for 2031 to 2040 is based on the 2000 to 2010 growth rate.

Total Growth of all Kiryas Joel's male residents in the 15 to 24 age group grew 11.6% from 2031 to 2040. Still less than all the other age groups younger than 44. Female residents continue to grow faster than their male counterparts.

Appendix B Blooming Grove's U.S. Census Data by Age Group.

1. Blooming Grove's U.S. Census Total Population projections from 2011 to 2020 based on U.S. Census Data for, 2000 to 2010

U.S. Census Blooming Grove Total Population [Years of age]	2000 U.S. Census Pop.	2010 U.S. Census Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Avg. % Change Per Year
Under 5	1,229	965	(264)	-21%	-2.1%	944	924	904	885	866	847	829	811	794	777	-2.0%
5 to 9	1,523	1,249	(274)	-18%	-1.8%	1,227	1,204	1,183	1,162	1,141	1,120	1,100	1,080	1,061	1,042	-1.7%
10 to 14	1,561	1,403	(158)	-10%	-1.0%	1,389	1,375	1,361	1,347	1,333	1,320	1,307	1,293	1,280	1,267	-1.0%
15 to 19	1,323	1,408	85	6%	0.6%	1,417	1,426	1,435	1,445	1,454	1,463	1,473	1,482	1,492	1,501	0.7%
20 to 24	726	1,010	284	39%	3.9%	1,050	1,091	1,133	1,178	1,224	1,271	1,321	1,373	1,427	1,482	4.7%
<b>[15 to 24 ]</b>	<b>2,049</b>	<b>2,418</b>	<b>369</b>	<b>18%</b>	<b>1.8%</b>	<b>2,467</b>	<b>2,511</b>	<b>2,556</b>	<b>2,602</b>	<b>2,649</b>	<b>2,697</b>	<b>2,745</b>	<b>2,795</b>	<b>2,845</b>	<b>2,896</b>	<b>2.0%</b>
25 to 34	1,999	1,597	(402)	-20%	-2.0%	1,565	1,533	1,503	1,472	1,443	1,414	1,385	1,357	1,330	1,303	-1.8%
35 to 44	3,358	2,703	(655)	-20%	-2.0%	2,650	2,599	2,548	2,498	2,449	2,402	2,355	2,309	2,264	2,220	-1.8%
45 to 54	2,699	3,328	629	23%	2.3%	3,406	3,485	3,566	3,649	3,734	3,821	3,910	4,002	4,095	4,190	2.6%
55 to 59	875	1,297	422	48%	4.8%	1,360	1,425	1,494	1,566	1,641	1,721	1,804	1,891	1,982	2,077	6.0%
60 to 64	619	973	354	57%	5.7%	1,029	1,087	1,150	1,215	1,285	1,358	1,436	1,518	1,605	1,697	7.4%
65 and over	1,439	2,095	656	46%	4.6%	2,191	2,290	2,395	2,504	2,618	2,737	2,862	2,993	3,129	3,272	5.6%
	17,351	18,028	677	4%	0.4%	18,226	18,440	18,671	18,920	19,188	19,475	19,782	20,109	20,458	20,828	

Table B1 –Total Blooming Grove population with the growth calculated from 2000 to 2010 to determine year to year average growth rate.

Total Growth of all Blooming Growth residents in the 15 to 24 age group is an average of 1.8% per year over the 2000 to 2010 time period. This is against declining growth in all other age groups from under 5 to 44 years of age and 25 to 44 years of age. In addition, this age group differs from the Kiryas Joel community in that this is the age when people go to college or the service.

## 2. Blooming Grove’s U.S. Census Female Population projections from 2011 to 2020 based on U.S. Census Data for, 2000 to 2010

U.S. Census Blooming Grove Female Population [Years of age]	2000 U.S. Census Female Pop. (49.9%)	2010 U.S. Census Female Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Avg. % Change Per Year
Under 5	613	470	(143)	-23%	-2.3%	459	448	438	428	418	408	398	389	380	371	-2.1%
5 to 9	760	616	(144)	-19%	-1.9%	604	593	582	571	560	549	539	529	519	509	-1.7%
10 to 14	779	710	(69)	-9%	-0.9%	704	697	691	685	679	673	667	661	655	650	-0.9%
15 to 19	660	692	32	5%	0.5%	695	699	702	705	709	712	716	719	723	726	0.5%
20 to 24	362	462	100	28%	2.8%	475	488	501	515	529	544	559	574	590	606	3.1%
<b>[15 to 24 ]</b>	<b>1,022</b>	<b>1,154</b>	<b>132</b>	<b>13%</b>	<b>1.3%</b>	<b>1,170</b>	<b>1,185</b>	<b>1,200</b>	<b>1,216</b>	<b>1,231</b>	<b>1,247</b>	<b>1,263</b>	<b>1,280</b>	<b>1,296</b>	<b>1,313</b>	<b>1.4%</b>
25 to 34	998	799	(199)	-20%	-2.0%	783	768	752	737	723	708	694	680	667	654	-1.8%
35 to 44	1,676	1,426	(250)	-15%	-1.5%	1,405	1,384	1,363	1,343	1,323	1,303	1,284	1,265	1,246	1,227	-1.4%
45 to 54	1,347	1,671	324	24%	2.4%	1,711	1,752	1,795	1,838	1,882	1,927	1,974	2,021	2,070	2,120	2.7%
55 to 59	437	629	192	44%	4.4%	657	686	716	747	780	815	851	888	927	968	5.4%
60 to 64	309	494	185	60%	6.0%	524	555	588	624	661	700	742	787	834	884	7.9%
65 and over	718	1,177	459	64%	6.4%	1,252	1,332	1,417	1,508	1,604	1,707	1,816	1,932	2,056	2,187	8.6%
	8,658	9,146	488	6%	0.6%	9,269	9,402	9,546	9,701	9,868	10,047	10,239	10,445	10,666	10,901	

Table B2 –Blooming Grove’s female population with the growth calculated from 2000 to 2010 to determine year to year average growth rate.

Total Growth of all Blooming Grove female residents between the ages of 15 to 24 is 1.3% per year from 2000 to 2010. This is less than the rate of the males in the same age group. If you compare the growth in the female population in all other age groups against that of the males it shows that the females are growing/declining at a faster rate. The residents in the 45 to 65 and over are the fastest growing groups in Blooming Grove.

### 3. Blooming Grove’s U.S. Census Male Population projections from 2011 to 2020 based on U.S. Census Data for, 2000 to 2010

U.S. Census Blooming Grove Male Population [Years of age]	2000 U.S. Census Female Pop.	2010 U.S. Census Female Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Avg. % Change Per Year
Under 5	616	495	(121)	-20%	-2.0%	485	476	466	457	448	440	431	422	414	406	-1.8%
5 to 9	763	633	(130)	-17%	-1.7%	622	612	601	591	581	571	561	552	542	533	-1.6%
10 to 14	782	693	(89)	-11%	-1.1%	685	677	670	662	654	647	640	632	625	618	-1.1%
15 to19	663	716	53	8%	0.8%	722	728	733	739	745	751	757	763	769	776	0.8%
20 to 24	364	548	184	51%	5.1%	576	605	636	668	702	737	775	814	855	898	6.4%
<b>[15 to 24 ]</b>	<b>1,027</b>	<b>1,264</b>	<b>237</b>	<b>23%</b>	<b>2.3%</b>	<b>1,298</b>	<b>1,328</b>	<b>1,358</b>	<b>1,390</b>	<b>1,422</b>	<b>1,455</b>	<b>1,488</b>	<b>1,523</b>	<b>1,558</b>	<b>1,594</b>	2.6%
25 to 34	1,001	798	(203)	-20%	-2.0%	782	766	750	735	720	706	691	677	663	650	-1.9%
35 to 44	1,682	1,277	(405)	-24%	-2.4%	1,246	1,216	1,187	1,158	1,130	1,103	1,077	1,051	1,025	1,001	-2.2%
45 to 54	1,352	1,657	305	23%	2.3%	1,694	1,733	1,772	1,812	1,852	1,894	1,937	1,980	2,025	2,071	2.5%
55 to 59	438	668	230	52%	5.2%	703	740	779	819	862	907	955	1,005	1,058	1,113	6.7%
60 to 64	310	479	169	54%	5.4%	505	533	562	592	624	658	694	732	772	814	7.0%
65 and over	721	918	197	27%	2.7%	943	969	995	1,023	1,051	1,079	1,109	1,139	1,170	1,202	3.1%
	8,693	8,882	189	2%	0.2%	8,964	9,053	9,151	9,256	9,371	9,494	9,626	9,768	9,920	10,081	

Table B3 –Blooming Grove’s male population with the growth calculated from 2000 to 2010 to determine year to year average growth rate.

Total Growth of all Blooming Grove male residents between the ages of 15 to 24 are growing at 2.3% per year over the 2000 to 2010 time period and is almost twice the rate of growth of females. In addition, the males in the under 5 through the 10 to 14 age group are declining at a slower rated.

4. Blooming Grove’s U.S. Census Total Population projections from 2021 to 2030 based on U.S. Census Data for, 2000 to 2010

U.S. Census Blooming Grove Total Population [Years of age]	2000 U.S. Census Pop.	2010 U.S. Census Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Avg. % Change Per Year
Under 5	1,229	965	(264)	-21%	-2.1%	760	744	728	712	697	682	667	653	639	625	-2.0%
5 to 9	1,523	1,249	(274)	-18%	-1.8%	1,023	1,004	986	969	951	934	917	901	885	869	-1.7%
10 to 14	1,561	1,403	(158)	-10%	-1.0%	1,254	1,242	1,229	1,217	1,204	1,192	1,180	1,168	1,156	1,145	-1.0%
15 to19	1,323	1,408	85	6%	0.6%	1,511	1,520	1,530	1,540	1,550	1,560	1,570	1,580	1,590	1,600	0.7%
20 to 24	726	1,010	284	39%	3.9%	1,540	1,601	1,663	1,728	1,796	1,866	1,939	2,015	2,094	2,176	4.7%
<b>[15 to 24 ]</b>	<b>2,049</b>	<b>2,418</b>	<b>369</b>	<b>18%</b>	<b>1.8%</b>	<b>3,051</b>	<b>3,106</b>	<b>3,162</b>	<b>3,219</b>	<b>3,277</b>	<b>3,336</b>	<b>3,396</b>	<b>3,457</b>	<b>3,519</b>	<b>3,583</b>	<b>-1.5%</b>
25 to 34	1,999	1,597	(402)	-20%	-2.0%	1,277	1,252	1,226	1,202	1,178	1,154	1,131	1,108	1,086	1,064	-1.8%
35 to 44	3358	2,703	(655)	-20%	-2.0%	2,176	2,134	2,092	2,052	2,012	1,972	1,934	1,896	1,859	1,823	-1.8%
45 to 54	2699	3328	629	23%	2.3%	4,288	4,388	4,490	4,595	4,702	4,811	4,923	5,038	5,156	5,276	2.6%
55 to 59	875	1297	422	48%	4.8%	2,177	2,283	2,393	2,508	2,629	2,756	2,889	3,028	3,174	3,327	6.0%
60 to 64	619	973	354	57%	5.7%	1,794	1,896	2,005	2,120	2,241	2,369	2,504	2,648	2,799	2,959	7.4%
65 and over	1439	2095	656	46%	4.6%	3,421	3,577	3,740	3,910	4,089	4,275	4,470	4,674	4,887	5,110	5.6%
	19,400	20,446	1,046	5%	0.5%	21,222	21,640	22,083	22,552	23,048	23,572	24,125	24,709	25,324	25,973	

5. Blooming Grove’s U.S. Census Females Population projections from 2021 to 2030 based on U.S. Census Data for, 2000 to 2010

U.S. Census Blooming Grove Female Population Years of age]	2000 U.S. Census Female Pop. (49.9%)	2010 U.S. Census Female Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Avg. % Change Per Year
Under 5	613	470	(143)	-23%	-2.3%	362	354	346	338	330	322	314	307	300	293	-2.1%
5 to 9	760	616	(144)	-19%	-1.9%	499	490	480	471	462	454	445	437	428	420	-1.7%
10 to 14	779	710	(69)	-9%	-0.9%	644	638	633	627	621	616	610	605	600	594	-0.9%
15 to19	660	692	32	5%	0.5%	730	733	737	740	744	747	751	755	758	762	0.5%
20 to 24	362	462	100	28%	2.8%	623	640	658	676	694	713	733	753	774	795	3.1%
<b>[15 to 24 ]</b>	<b>1,022</b>	<b>1,154</b>	<b>132</b>	<b>13%</b>	<b>1.3%</b>	<b>1,352</b>	<b>1,370</b>	<b>1,387</b>	<b>1,405</b>	<b>1,423</b>	<b>1,442</b>	<b>1,460</b>	<b>1,479</b>	<b>1,498</b>	<b>1,517</b>	<b>-1.2%</b>
25 to 34	998	799	(199)	-20%	-2.0%	641	628	615	603	591	579	568	556	545	535	-1.8%
35 to 44	1,676	1,426	(250)	-15%	-1.5%	1,209	1,191	1,173	1,156	1,139	1,122	1,105	1,088	1,072	1,056	-1.4%
45 to 54	1,347	1,671	324	24%	2.4%	2,171	2,223	2,277	2,331	2,387	2,445	2,504	2,564	2,626	2,689	2.7%
55 to 59	437	629	192	44%	4.4%	1,011	1,055	1,102	1,150	1,201	1,254	1,309	1,367	1,427	1,490	5.4%
60 to 64	309	494	185	60%	6.0%	937	993	1,053	1,116	1,183	1,254	1,329	1,408	1,493	1,582	7.9%
65 and over	718	1,177	459	64%	6.4%	2,327	2,475	2,634	2,802	2,981	3,172	3,374	3,590	3,819	4,064	8.6%
	8,658	9,146	488	6%	0.6%	11,153	11,420	11,706	12,010	12,333	12,677	13,042	13,431	13,843	14,280	



6. Blooming Grove’s U.S. Census Male Population projections from 2021 to 2030 based on U.S. Census Data for, 2000 to 2010

U.S. Census Blooming Grove Male Population [Years of age]	2000 U.S. Census Female Pop.	2010 U.S. Census Female Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Avg. % Change Per Year
Under 5	616	495	(121)	-20%	-2.0%	398	390	383	375	368	361	354	347	340	333	-1.8%
5 to 9	763	633	(130)	-17%	-1.7%	524	515	506	498	489	481	473	465	457	449	-1.6%
10 to 14	782	693	(89)	-11%	-1.1%	611	604	597	590	584	577	570	564	557	551	-1.1%
15 to 19	663	716	53	8%	0.8%	782	788	794	801	807	814	820	827	833	840	0.8%
20 to 24	364	548	184	51%	5.1%	944	992	1,042	1,095	1,150	1,208	1,270	1,334	1,401	1,472	6.4%
<b>[15 to 24 ]</b>	<b>1,027</b>	<b>1,264</b>	<b>237</b>	<b>23%</b>	<b>2.3%</b>	<b>1,726</b>	<b>1,765</b>	<b>1,806</b>	<b>1,848</b>	<b>1,891</b>	<b>1,935</b>	<b>1,979</b>	<b>2,025</b>	<b>2,072</b>	<b>2,120</b>	<b>1.4%</b>
25 to 34	1,001	798	(203)	-20%	-2.0%	637	624	611	599	587	575	563	551	540	529	-1.9%
35 to 44	1,682	1,277	(405)	-24%	-2.4%	977	953	930	908	886	864	844	823	803	784	-2.2%
45 to 54	1,352	1,657	305	23%	2.3%	2,117	2,165	2,214	2,264	2,315	2,367	2,420	2,475	2,531	2,588	2.5%
55 to 59	438	668	230	52%	5.2%	1,171	1,233	1,297	1,365	1,437	1,512	1,591	1,675	1,762	1,855	6.7%
60 to 64	310	479	169	54%	5.4%	858	905	954	1,006	1,061	1,119	1,180	1,244	1,312	1,383	7.0%
65 and over	721	918	197	27%	2.7%	1,235	1,269	1,303	1,339	1,376	1,413	1,452	1,492	1,532	1,574	3.1%
	8,693	8,882	189	2%	0.2%	10,254	10,437	10,632	10,839	11,058	11,291	11,536	11,796	12,070	12,359	

Appendix C Harriman's U.S. Census Data by Age Group.

1. Harriman's U.S. Census Total Population projections from 2011 to 2020 based on U.S. Census Data for, 2000 to 2010

U.S. Census Harriman Total Population [Years of age]	2000 U.S. Census Pop.	2010 U.S. Census Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Avg. % Change Per Year.
Under 5	155	162	7	5%	0.5%	163	163	164	165	166	166	167	168	169	169	0.5%
5 to 9	170	154	(16)	-9%	-0.9%	153	151	150	148	147	146	144	143	141	140	-0.9%
10 to 14	175	145	(30)	-17%	-1.7%	143	140	138	135	133	131	128	126	124	122	-1.6%
15 to19	128	153	25	20%	2.0%	156	159	162	165	169	172	175	179	182	186	2.1%
20 to 24	96	141	45	47%	4.7%	148	155	162	169	177	186	194	203	213	223	5.8%
<b>[15 to 24]</b>	<b>224</b>	<b>294</b>	<b>70</b>	<b>31%</b>	<b>3.1%</b>	<b>303</b>	<b>313</b>	<b>322</b>	<b>333</b>	<b>343</b>	<b>354</b>	<b>365</b>	<b>376</b>	<b>388</b>	<b>400</b>	<b>3.6%</b>
25 to 34	395	381	(14)	-4%	-0.4%	380	378	377	376	374	373	372	370	369	368	-0.3%
35 to 44	763	400	(363)	-48%	-4.8%	381	363	346	329	313	299	284	271	258	246	-3.9%
45 to 54	298	385	87	29%	2.9%	396	408	420	432	445	458	471	485	499	513	3.3%
55 to 59	85	151	66	78%	7.8%	163	175	189	204	219	237	255	275	296	319	11.1%
60 to 64	66	111	45	68%	6.8%	119	127	135	145	154	165	176	188	201	215	9.3%
65 and over	221	241	20	9%	0.9%	243	245	248	250	252	254	257	259	261	264	0.9%
	2,552	2,424	-128	-5%	-0.5%	2,443	2,465	2,490	2,518	2,550	2,585	2,624	2,667	2,713	2,764	

Table C1 –Total Harriman's population with the growth calculated from 2000 to 2010 to determine year to year average growth rate.

Total growth of all Harriman's residents in the 15 to 24 age group is an average of 3.1% per year over the 2000 to 2010 time period.

## 2. Harriman's U.S. Census Female Population projections from 2011 to 2020 based on U.S. Census Data for, 2000 to 2010

U.S. Census Harriman Female Population [Years of age]	2000 U.S. Census Female Pop. (49.7%)	2010 U.S. Census Female Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Avg. % Change Per Year.
Under 5	77	84	7	9%	0.9%	85	86	86	87	88	89	89	90	91	92	0.9%
5 to 9	84	79	(5)	-6%	-0.6%	78	78	77	77	76	76	75	75	74	74	-0.6%
10 to 14	87	68	(19)	-22%	-2.2%	67	65	64	62	61	60	58	57	56	55	-2.0%
15 to19	64	76	12	19%	1.9%	77	79	81	82	84	85	87	89	90	92	2.1%
20 to 24	48	67	19	40%	4.0%	70	73	75	79	82	85	88	92	96	100	4.9%
<b>[15 to 24]</b>	<b>111</b>	<b>143</b>	<b>32</b>	<b>28%</b>	<b>2.8%</b>	<b>147</b>	<b>151</b>	<b>156</b>	<b>160</b>	<b>165</b>	<b>169</b>	<b>174</b>	<b>179</b>	<b>184</b>	<b>189</b>	<b>3.2%</b>
25 to 34	196	189	(7)	-4%	-0.4%	188	188	187	186	186	185	184	183	183	182	-0.4%
35 to 44	379	212	(167)	-44%	-4.4%	203	194	185	177	169	162	155	148	141	135	-3.6%
45 to 54	148	193	45	30%	3.0%	199	205	211	217	224	231	238	245	253	260	3.5%
55 to 59	42	77	35	82%	8.2%	83	90	98	106	114	124	134	145	157	170	12.0%
60 to 64	33	63	30	92%	9.2%	69	75	82	90	98	107	117	127	139	152	14.1%
65 and over	110	139	29	27%	2.7%	143	146	150	154	158	163	167	171	176	181	3.0%
	1,268	1,247	-21	-2%	-0.2%	1,262	1,278	1,297	1,317	1,340	1,365	1,393	1,423	1,456	1,492	

Table C2 –Harriman's female population with the growth calculated from 2000 to 2010 to determine year to year average growth rate.

Total Growth of all Harriman's female residents between the ages of 15 to 24 is 2.8% per year from 2000 to 2010. This is less than the rate of the males in the same age group. If you compare the growth in the female population in all other age groups against that of the males it shows that the females are growing/declining at a faster rate. The residents in the 45 to 65 and over are the fastest growing groups in Harriman.

### 3. Harriman’s U.S. Census Male Population projections from 2011 to 2020 based on U.S. Census Data for, 2000 to 2010

U.S. Census Harriman Male Population [Years of age]	2000 U.S. Census Male Pop.	2010 U.S. Census Male Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Avg. % Change Per Year
Under 5	78	78	0	0%	0.0%	78	78	78	78	78	78	78	78	78	78	0.0%
5 to 9	86	75	(11)	-12%	-1.2%	74	73	72	71	71	70	69	68	67	66	-1.2%
10 to 14	88	77	(11)	-13%	-1.3%	76	75	74	73	72	71	70	70	69	68	-1.2%
15 to19	64	77	13	20%	2.0%	79	80	82	83	85	87	88	90	92	93	2.1%
20 to 24	48	74	26	53%	5.3%	78	82	86	91	96	101	106	112	118	124	6.8%
<b>[15 to 24]</b>	<b>113</b>	<b>151</b>	<b>38</b>	<b>34%</b>	<b>3.4%</b>	<b>156</b>	<b>161</b>	<b>167</b>	<b>173</b>	<b>178</b>	<b>185</b>	<b>191</b>	<b>197</b>	<b>204</b>	<b>211</b>	<b>4.0%</b>
25 to 34	199	192	(7)	-3%	-0.3%	191	191	190	189	189	188	188	187	186	186	-0.3%
35 to 44	384	188	(196)	-51%	-5.1%	178	169	161	152	145	137	130	124	117	111	-4.1%
45 to 54	150	192	42	28%	2.8%	197	203	209	214	221	227	233	240	246	253	3.2%
55 to 59	43	74	31	73%	7.3%	79	85	91	98	105	113	121	130	140	150	10.2%
60 to 64	33	48	15	45%	4.5%	50	52	55	57	60	62	65	68	71	74	5.5%
65 and over	111	102	(9)	-8%	-0.8%	101	100	99	99	98	97	96	95	95	94	-0.8%
	1,284	1,177	-107	-8%	-0.8%	1,182	1,189	1,198	1,207	1,218	1,231	1,245	1,261	1,279	1,298	

Table C3 –Harriman’s male population with the growth calculated from 2000 to 2010 to determine year to year average growth rate.

Total Growth of all Harriman’s male residents between the ages of 15 to 24 have grown 2.6% per year over the 2000 to 2010 time period and is almost twice the rate of growth of females. In addition, the males in the under 5 through the 10 to 14 age group are declining at a slower rate than the females.

Appendix D Woodbury's U.S. Census Data by Age Group.

1. Woodbury, U.S. Census Total Population projections from 2011 to 2020 based on U.S. Census Data for, 2000 to 2010

U.S. Census Woodbury Total Population [Years of age]	2000 U.S. Census Pop.	2010 U.S. Census Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Avg. % Change Per Year
Under 5	767	728	(39)	-5%	-0.5%	724	721	717	713	710	706	702	699	695	692	-0.5%
5 to 9	839	958	119	14%	1.4%	972	985	999	1,014	1,028	1,042	1,057	1,072	1,087	1,103	1.5%
10 to 14	853	1,104	251	29%	2.9%	1,136	1,170	1,204	1,240	1,276	1,314	1,352	1,392	1,433	1,475	3.4%
15 to 19	645	911	266	41%	4.1%	949	988	1,028	1,071	1,115	1,161	1,209	1,259	1,311	1,365	5.0%
20 to 24	368	549	181	49%	4.9%	576	604	634	665	698	732	768	806	846	887	6.2%
<b>[15 to 24]</b>	<b>1,013</b>	<b>1,460</b>	<b>447</b>	<b>44%</b>	<b>4.4%</b>	<b>1,524</b>	<b>1,592</b>	<b>1,662</b>	<b>1,735</b>	<b>1,812</b>	<b>1,892</b>	<b>1,975</b>	<b>2,062</b>	<b>2,153</b>	<b>2,248</b>	5.4%
25 to 34	1,122	971	(151)	-13%	-1.3%	958	945	932	920	907	895	883	871	860	848	-1.3%
35 to 44	1,851	1,887	36	2%	0.2%	1,891	1,894	1,898	1,902	1,905	1,909	1,913	1,917	1,920	1,924	0.2%
45 to 54	1,458	1,988	530	36%	3.6%	2,060	2,135	2,213	2,293	2,377	2,463	2,552	2,645	2,741	2,841	4.3%
55 to 59	516	719	203	39%	3.9%	747	777	807	839	872	906	942	979	1,018	1,058	4.7%
60 to 64	339	541	202	60%	6.0%	573	607	644	682	723	766	811	860	911	965	7.8%
65 and over	702	997	295	42%	4.2%	1,039	1,083	1,128	1,175	1,225	1,276	1,330	1,386	1,444	1,505	5.1%
	9,460	11,353	1,893	20%	2.0%	11,625	11,909	12,205	12,514	12,836	13,171	13,521	13,886	14,266	14,663	

Table D1 –Total Woodbury's population with the growth calculated from 2000 to 2010 to determine year to year average growth rate.

Total growth of all Woodbury's residents in the 15 to 24 age group is an average of 4.4% per year over the 2000 to 2010 time period.

## 2. Woodbury, U.S. Census Female Population projections from 2011 to 2020 based on U.S. Census Data for, 2000 to 2010

U.S. Census Woodbury Female Population [Years of age]	2000 U.S. Census Female Pop. (50.9%)	2010 U.S. Census Female Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Avg. % Change Per Year
Under 5	390	384	(6)	-2%	-0.2%	383	383	382	381	381	380	380	379	378	378	-0.2%
5 to 9	427	488	61	14%	1.4%	495	502	509	516	524	531	539	547	554	562	1.5%
10 to 14	434	579	145	33%	3.3%	598	618	639	660	682	705	728	753	778	804	3.9%
15 to19	328	482	154	47%	4.7%	505	528	553	579	606	634	664	695	728	762	5.8%
20 to 24	187	317	130	69%	6.9%	339	362	388	414	443	474	506	542	579	619	9.5%
<b>[15 to 24]</b>	<b>516</b>	<b>799</b>	<b>283</b>	<b>55%</b>	<b>5.5%</b>	<b>843</b>	<b>889</b>	<b>938</b>	<b>990</b>	<b>1,044</b>	<b>1,101</b>	<b>1,162</b>	<b>1,226</b>	<b>1,293</b>	<b>1,364</b>	<b>7.1%</b>
25 to 34	571	470	(101)	-18%	-1.8%	462	454	445	438	430	422	415	407	400	393	-1.6%
35 to 44	942	855	(87)	-9%	-0.9%	847	839	831	824	816	809	801	794	786	779	-0.9%
45 to 54	742	981	239	32%	3.2%	1,013	1,045	1,079	1,114	1,149	1,186	1,225	1,264	1,305	1,347	3.7%
55 to 59	263	628	365	139%	13.9%	715	815	928	1,057	1,204	1,372	1,563	1,780	2,028	2,310	26.8%
60 to 64	173	455	282	164%	16.4%	529	616	717	834	971	1,130	1,315	1,530	1,781	2,072	35.5%
65 and over	357	139	(218)	-61%	-6.1%	131	123	115	108	101	95	89	84	79	74	-4.7%
	4,815	5,778	963	20%	2.0%	6,017	6,285	6,587	6,926	7,308	7,739	8,225	8,774	9,396	10,100	

Table D2 –Woodbury’s female population with the growth calculated from 2000 to 2010 to determine year to year average growth rate.

Total Growth of all Woodbury’s female residents between the ages of 15 to 24 is 5.5% per year from 2000 to 2010.

### 3. Woodbury, U.S. Census Male Population projections from 2011 to 2020 based on U.S. Census Data for, 2000 to 2010

U.S. Census Woodbury Male Population [Years of age]	2000 U.S. Census Male Pop.	2010 U.S. Census Male Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Avg. % Change Per Year
Under 5	377	344	(33)	-9%	-0.9%	341	338	335	332	329	326	324	321	318	315	-0.8%
5 to 9	412	470	58	14%	1.4%	477	483	490	497	504	511	518	526	533	541	1.5%
10 to 14	419	525	106	25%	2.5%	538	552	566	580	595	610	625	641	658	674	2.8%
15 to 19	317	429	112	35%	3.5%	444	460	476	493	510	529	547	567	587	608	4.2%
20 to 24	181	232	51	28%	2.8%	237	244	251	258	265	273	280	288	297	305	3.1%
<b>[15 to 24]</b>	<b>497</b>	<b>661</b>	<b>164</b>	<b>33%</b>	<b>3.3%</b>	<b>683</b>	<b>705</b>	<b>728</b>	<b>752</b>	<b>777</b>	<b>803</b>	<b>829</b>	<b>856</b>	<b>885</b>	<b>914</b>	<b>3.8%</b>
25 to 34	551	501	(50)	-9%	-0.9%	496	492	487	483	479	474	470	466	461	457	-0.9%
35 to 44	909	1,032	123	14%	1.4%	1,044	1,058	1,072	1,087	1,101	1,116	1,131	1,147	1,162	1,178	1.4%
45 to 54	716	1,007	291	41%	4.1%	1,048	1,090	1,135	1,181	1,229	1,279	1,331	1,385	1,441	1,500	4.9%
55 to 59	253	91	(162)	-64%	-6.4%	32	30	28	26	24	23	21	20	19	18	-8.1%
60 to 64	166	86	(80)	-48%	-4.8%	44	42	40	38	36	34	33	31	29	28	-6.7%
65 and over	345	858	513	149%	14.9%	908	1,044	1,199	1,378	1,583	1,819	2,089	2,401	2,758	3,169	26.9%
	4,645	5,575	930	20%	2.0%	5,608	5,832	6,078	6,352	6,656	6,994	7,370	7,792	8,263	8,792	

Table D3 –Woodbury’s male population with the growth calculated from 2000 to 2010 to determine year to year average growth rate.

Total Growth of all Woodbury’s male residents between the ages of 15 to 24 have grown 3.3% per year over the 2000 to 2010 time period and is almost twice the rate of growth of females. In addition, the males in the under 5 through the 10 to 14 age group are declining at a slower rate than the females.

Appendix E Village of Monroe's U.S. Census Data by Age Group.

1. **Village of Monroe**, U.S. Census Total Population projections from 2011 to 2020 based on U.S. Census Data for, 2000 to 2010

U.S. Census Village of Monroe Total Population [Years of age]	2000 U.S. Census Pop.	2010 U.S. Census Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Avg. % Change Per Year
Under 5	558	539	(19)	-3%	-0.3%	537	535	534	532	530	528	526	524	523	521	-0.3%
5 to 9	691	674	(17)	-2%	-0.2%	672	671	669	667	666	664	662	661	659	658	-0.2%
10 to 14	715	657	(58)	-8%	-0.8%	652	646	641	636	631	626	621	616	611	606	-0.8%
15 to 19	505	609	104	21%	2.1%	622	634	647	661	674	688	702	717	732	747	2.3%
20 to 24	313	491	178	57%	5.7%	519	548	580	613	647	684	723	764	808	854	7.4%
<b>[15 to 24]</b>	<b>818</b>	<b>1,100</b>	<b>282</b>	<b>34%</b>	<b>3.4%</b>	<b>1,138</b>	<b>1,177</b>	<b>1,218</b>	<b>1,260</b>	<b>1,303</b>	<b>1,348</b>	<b>1,395</b>	<b>1,443</b>	<b>1,492</b>	<b>1,544</b>	<b>4.0%</b>
25 to 34	912	851	(61)	-7%	-0.7%	845	840	834	828	823	817	812	807	801	796	-0.6%
35 to 44	1497	1,295	(202)	-13%	-1.3%	1,278	1,260	1,243	1,227	1,210	1,194	1,178	1,162	1,146	1,130	-1.3%
45 to 54	1184	1399	215	18%	1.8%	1,424	1,450	1,477	1,503	1,531	1,559	1,587	1,616	1,645	1,675	2.0%
55 to 59	426	508	82	19%	1.9%	518	528	538	548	559	570	581	592	603	615	2.1%
60 to 64	247	440	193	78%	7.8%	474	511	551	594	641	691	745	803	866	934	11.2%
65 and over	732	901	169	23%	2.3%	922	943	965	987	1,010	1,033	1,057	1,082	1,106	1,132	2.6%
	7,780	8,364	584	8%	0.8%	8,463	8,568	8,679	8,797	8,921	9,054	9,194	9,342	9,499	9,666	

Table E1 –Total Village of Monroe’s population with the growth calculated from 2000 to 2010 to determine year to year average growth rate.

Total growth of all Village of Monroe’s residents in the 15 to 24 age group was 3.4% per year over the 2000 to 2010 time period.



2. *Village of Monroe*, U.S. Census Female Population projections from 2011 to 2020 based on U.S. Census Data for, 2000 to 2010

U.S. Census Village of Monroe Female Population [Years of age]	2000 U.S. Census Female Pop. (50.9%)	2010 U.S. Census Female Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Avg. % Change Per Year
Under 5	281	255	(26)	-9%	-0.9%	253	250	248	246	244	241	239	237	235	233	-0.9%
5 to 9	348	311	(37)	-11%	-1.1%	308	304	301	298	295	292	289	286	283	280	-1.0%
10 to 14	360	311	(49)	-14%	-1.4%	307	303	299	295	291	287	283	279	275	271	-1.3%
15 to 19	254	283	29	11%	1.1%	286	289	293	296	300	303	306	310	313	317	1.2%
20 to 24	157	201	44	28%	2.8%	207	212	218	224	230	237	243	250	257	264	3.1%
<b>[15 to 24]</b>	<b>411</b>	<b>484</b>	<b>73</b>	<b>18%</b>	<b>1.8%</b>	<b>493</b>	<b>501</b>	<b>510</b>	<b>519</b>	<b>528</b>	<b>538</b>	<b>547</b>	<b>557</b>	<b>566</b>	<b>576</b>	<b>1.9%</b>
25 to 34	459	434	(25)	-5%	-0.5%	432	429	427	425	422	420	418	416	413	411	-0.5%
35 to 44	753	662	(91)	-12%	-1.2%	654	646	638	631	623	615	608	601	593	586	-1.1%
45 to 54	596	691	95	16%	1.6%	702	713	725	736	748	760	772	785	797	810	1.7%
55 to 59	214	258	44	20%	2.0%	263	269	274	280	285	291	297	303	309	316	2.2%
60 to 64	124	228	104	84%	8.4%	247	268	290	314	340	369	400	433	469	508	12.3%
65 and over	368	504	136	37%	3.7%	523	542	562	583	604	626	649	673	698	724	4.4%
	3,913	4,138	225	6%	0.6%	4,181	4,226	4,275	4,327	4,382	4,442	4,505	4,572	4,644	4,721	

Table E2 –Village of Monroe’s female population with the growth calculated from 2000 to 2010 to determine year to year average growth rate.

Total Growth of all Village of Monroe’s female residents between the ages of 15 to 24 is an average of 1.8% per year from 2000 to 2010.

### 3. *Village of Monroe*, U.S. Census Male Population projections from 2011 to 2020 based on U.S. Census Data for, 2000 to 2010

U.S. Census Village of Monroe Male Population [Years of age]	2000 U.S. Census Male Pop.	2010 U.S. Census Male Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Avg. % Change Per Year
Under 5	277	284	7	2%	0.2%	284	285	286	287	287	288	289	289	290	291	0.2%
5 to 9	343	363	20	6%	0.6%	365	367	369	371	373	375	377	379	382	384	0.6%
10 to 14	355	346	(9)	-3%	-0.3%	345	344	343	342	341	340	339	339	338	337	-0.3%
15 to19	251	326	75	30%	3.0%	335	345	356	366	377	389	400	412	424	437	3.4%
20 to 24	156	290	134	86%	8.6%	312	339	369	401	435	473	514	558	606	659	12.7%
<b>[15 to 24]</b>	<b>407</b>	<b>616</b>	<b>209</b>	<b>52%</b>	<b>5.2%</b>	<b>648</b>	<b>681</b>	<b>716</b>	<b>753</b>	<b>792</b>	<b>833</b>	<b>876</b>	<b>921</b>	<b>968</b>	<b>1,018</b>	<b>6.5%</b>
25 to 34	453	417	(36)	-8%	-0.8%	414	410	407	404	401	397	394	391	388	385	-0.8%
35 to 44	744	633	(111)	-15%	-1.5%	624	614	605	596	587	578	570	561	553	545	-1.4%
45 to 54	588	708	120	20%	2.0%	722	737	752	767	783	799	815	832	848	866	2.2%
55 to 59	212	250	38	18%	1.8%	255	259	264	269	273	278	283	289	294	299	2.0%
60 to 64	123	212	89	73%	7.3%	227	244	262	281	301	323	346	372	399	428	10.2%
65 and over	364	397	33	9%	0.9%	399	403	407	410	414	418	422	425	429	433	0.9%
	3,867	4,226	359	9%	0.9%	4,282	4,348	4,418	4,493	4,573	4,658	4,749	4,847	4,951	5,062	

Table E3 Village of Monroe’s male population with the growth calculated from 2000 to 2010 to determine year to year average growth rate.

Total Growth of all Village of Monroe’s male residents between the ages of 15 to 24 have grown 5.2% per year over the 2000 to 2010 time period and is more than double the rate of growth of females. In addition, the males in the under 5 through the 10 to 14 age group are declining at a slower rate than the females.

Appendix F Village of Chester's U.S. Census Data by Age Group.

1. **Village of Chester**, U.S. Census Total Population projections from 2011 to 2020 based on U.S. Census Data for, 2000 to 2010

U.S. Census Village of Chester Total Population [Years of age]	2000 U.S. Census Pop.	2010 U.S. Census Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Avg. % Change Per Year
Under 5	235	278	43	18%	1.8%	283	288	294	299	304	310	316	321	327	333	2.0%
5 to 9	242	235	(7)	-3%	-0.3%	234	234	233	232	232	231	230	230	229	228	-0.3%
10 to 14	215	273	58	27%	2.7%	280	288	296	304	312	320	329	338	347	356	3.0%
15 to19	181	235	54	30%	3.0%	242	249	257	264	272	280	289	297	306	315	3.4%
20 to 24	188	194	6	3%	0.3%	195	195	196	196	197	198	198	199	200	200	0.3%
<b>[15 to 24]</b>	<b>369</b>	<b>429</b>	<b>60</b>	<b>16%</b>	<b>1.6%</b>	<b>436</b>	<b>443</b>	<b>450</b>	<b>458</b>	<b>465</b>	<b>473</b>	<b>480</b>	<b>488</b>	<b>496</b>	<b>504</b>	<b>1.8%</b>
25 to 34	625	599	(26)	-4%	-0.4%	597	594	592	589	587	584	582	579	577	575	-0.4%
35 to 44	638	658	20	3%	0.3%	660	662	664	666	668	670	673	675	677	679	0.3%
45 to 54	464	659	195	42%	4.2%	687	716	746	777	810	844	879	916	955	995	5.1%
55 to 59	159	238	79	50%	5.0%	250	262	275	289	303	318	334	351	368	387	6.2%
60 to 64	121	185	64	53%	5.3%	195	205	216	227	239	252	265	279	294	310	6.7%
65 and over	377	415	38	10%	1.0%	419	423	428	432	436	441	445	450	454	459	1.1%
	3,445	3,969	524	15%	1.5%	4,041	4,117	4,195	4,276	4,361	4,449	4,540	4,635	4,734	4,837	

Table E1 –Total Village of Chester’s population with the growth calculated from 2000 to 2010 to determine year to year average growth rate.

Total growth of all Village of Chester’s residents in the 15 to 24 age group was an average of 1.6% per year over the 2000 to 2010 time period.

2. *Village of Chester*, U.S. Census Female Population projections from 2011 to 2020 based on U.S. Census Data for, 2000 to 2010

U.S. Census Village of Chester Female Population [Years of age]	2000 U.S. Census Female Pop. (50.9%)	2010 U.S. Census Female Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Avg. % Change Per Year
Under 5	122	138	16	13%	1.3%	140	142	143	145	147	149	151	153	155	157	1.4%
5 to 9	126	123	(3)	-2%	-0.2%	123	122	122	122	122	121	121	121	121	120	-0.2%
10 to 14	112	130	18	16%	1.6%	132	134	136	139	141	143	146	148	150	153	1.8%
15 to 19	91	90	(1)	-1%	-0.1%	90	90	90	90	89	89	89	89	89	89	-0.1%
20 to 24	95	102	7	8%	0.8%	103	104	104	105	106	107	108	109	109	110	0.8%
<b>[15 to 24]</b>	<b>186</b>	<b>192</b>	<b>6</b>	<b>3%</b>	<b>0.3%</b>	<b>193</b>	<b>193</b>	<b>194</b>	<b>195</b>	<b>195</b>	<b>196</b>	<b>197</b>	<b>197</b>	<b>198</b>	<b>199</b>	<b>0.3%</b>
25 to 34	325	318	(7)	-2%	-0.2%	317	317	316	315	315	314	313	313	312	311	-0.2%
35 to 44	332	322	(10)	-3%	-0.3%	321	320	319	318	317	316	315	314	314	313	-0.3%
45 to 54	241	344	103	43%	4.3%	359	374	390	406	424	442	461	480	501	522	5.2%
55 to 59	83	129	46	56%	5.6%	136	144	152	160	169	179	189	200	211	222	7.2%
60 to 64	63	97	34	54%	5.4%	102	108	114	120	126	133	140	148	156	164	6.9%
65 and over	196	247	51	26%	2.6%	253	260	267	274	281	288	296	303	311	319	2.9%
	1,785	2,040	255	14%	1.4%	2,076	2,114	2,153	2,195	2,237	2,282	2,329	2,377	2,428	2,481	

Table E2 –Village of Chester’s female population with the growth calculated from 2000 to 2010 to determine year to year average growth rate.

Total Growth of all Village of Chester’s female residents between the ages of 15 to 24 is an average of 0.3% per year from 2000 to 2010. This is less than the rate of the males in the same age group. If you compare the growth in the female population in all other age groups against that of the Village of Monroe.

3. *Village of Chester*, U.S. Census Male Population projections from 2011 to 2020 based on U.S. Census Data for, 2000 to 2010

U.S. Census Village of Chester Male Population [Years of age]	2000 U.S. Census Male Pop.	2010 U.S. Census Male Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Avg. % Change Per Year
Under 5	113	140	27	24%	2.4%	143	147	150	154	158	161	165	169	173	178	2.7%
5 to 9	116	112	(4)	-4%	-0.4%	112	111	111	110	110	110	109	109	108	108	-0.4%
10 to 14	103	143	40	39%	3.9%	148	154	160	166	172	179	186	193	201	208	4.6%
15 to 19	90	145	55	61%	6.1%	152	161	171	182	193	205	217	231	245	260	7.9%
20 to 24	93	92	(1)	-2%	-0.2%	92	92	92	91	91	91	91	91	91	91	-0.2%
<b>[15 to 24]</b>	<b>183</b>	<b>237</b>	<b>54</b>	<b>29%</b>	<b>2.9%</b>	<b>244</b>	<b>251</b>	<b>258</b>	<b>266</b>	<b>274</b>	<b>282</b>	<b>290</b>	<b>298</b>	<b>307</b>	<b>316</b>	<b>3.3%</b>
25 to 34	300	281	(19)	-6%	-0.6%	279	277	276	274	272	270	269	267	265	264	-0.6%
35 to 44	306	336	30	10%	1.0%	339	342	346	349	352	356	359	363	366	370	1.0%
45 to 54	223	315	92	41%	4.1%	328	342	356	371	386	402	419	436	454	473	5.0%
55 to 59	76	109	33	43%	4.3%	114	118	124	129	134	140	146	152	159	166	5.2%
60 to 64	58	88	30	52%	5.2%	93	97	102	108	113	119	125	132	138	145	6.5%
65 and over	181	168	(13)	-7%	-0.7%	166	165	163	162	161	160	159	158	156	155	-0.8%
	1,660	1,929	269	16%	1.6%	1,965	2,007	2,050	2,096	2,143	2,193	2,245	2,300	2,357	2,417	

Table E3 Village of Chester’s male population with the growth calculated from 2000 to 2010 to determine year to year average growth rate.

Total Growth of all Village of Chester’s male residents between the ages of 15 to 24 have grown 2.9% per year over the 2000 to 2010 time period.

## Addendum to my submission on The Draft Environmental Impact Statement (DGEIS) Annexation Comments

### Introduction:

This document is added to my original submission and it address the issue concerning the 2000 to 2010 population growth for the 15 to 24 year old population for both females and males.

In order to assess the number of residents that would fall into the 15 to 24 categories I took the Kiryas Joel population growth from 2000 to 2010 and made the following adjustments:

1. Adjusted the 15 to19 population to have the same growth rate as that of the 10 to 14 year olds (females - 6.6% growth; males – 5.0% growth).
2. Adjusted the 20 to 24 population to have the same growth as the 24 to 34 age group (females - 10.4% growth; males – 7.9% growth.)

The net result is the following:

### Kiryas Joel’s Adjusted Female Population

Appendix A below provides the detail behind the data in the following table.

U.S. Census Kiryas Joel Female Population [Years of age]	2000 U.S. Census Female Pop. - (46.2%)	2010 U.S. Census Female Pop.	% Change 2000 to 2010	2020	2030	2040	Change over 30 years
Under 5	1,237	2,295	85.6%	5,012	10,466	21,414	833.1%
5 to 9	1,007	1,759	74.6%	3,603	7,140	13,928	691.8%
10 to 14	796	1,320	65.7%	2,464	4,456	7,924	500.3%
15 to19	822	887	7.9%	1,764	3,291	5,949	570.7%
20 to 24	674	721	7.0%	1,974	4,958	12,066	1573.5%
<b>Total:</b>	<b>1,495</b>	<b>1,608</b>	<b>7.5%</b>	<b>3,737</b>	<b>8,248</b>	<b>18,015</b>	<b>1020.3%</b>
25 to 34	669	1,366	104.1%	3,535	8,700	21,007	1437.8%
35 to 44	335	652	94.7%	1,544	3,483	7,703	1081.5%
45 to 54	395	251	-36.5%	173	121	87	-65.4%
55 to 59	23	198	774.6%	333	560	946	377.6%
60 to 64	18	163	828.5%	287	496	849	421.0%
65 and over	94	120	27.3%	124	127	131	9.5%
	<b>6,070</b>	<b>9,732</b>	<b>60.3%</b>	<b>20,810</b>	<b>43,798</b>	<b>92,004</b>	<b>845.4%</b>

Table 1.0, Summary of the adjusted Kiryas Joel’s projected female population growth from 2010 to 2040.

This adjusted population growth for Kiryas Joel adds in an adjustment to the 15 to 24 age groups growth rate and then spread out the growth taking into consideration the fact that the females are growing at a faster rate than their male counterparts. It takes the 2000 to 2010

growth rate and divided it for each age group by the total of the female and male growth for those age groups. The total population growth was then distributed based on the percentage of growth each was responsible for. The result is an increase in the female population of 12,059 over the original calculation presented in the original document I submitted concerning the Annexation.

The final female population projection is 92,004 by 2040. However, again this is a conservative growth estimate as I show in my original Orange County Sewer District, Water Demand, Wastewater Projections, Assessment and Investigation Document submitted with my original submission.

### Kiryas Joel's Adjusted Male Population Projection

U.S. Census Kiryas Joel Male Population [Years of age] - (53.8%)	2000 U.S. Census Male Pop (53.8%)	2010 U.S. Census Male Pop.	% Change 2000 to 2010	2020	2030	2040	Change over 30 years
Under 5	1,440	2,314	60.7%	4,240	8,107	15,870	585.8%
5 to 9	1,173	1,889	61.1%	3,397	6,291	11,843	526.9%
10 to 14	928	1,387	49.5%	2,249	3,750	6,364	358.8%
15 to 19	957	1,188	24.1%	1,849	3,000	5,003	321.1%
20 to 24	784	875	11.5%	1,828	4,100	9,511	987.0%
	1,742	2,063	18.5%	3,677	7,100	14,514	603.5%
25 to 34	780	1,397	79.2%	3,048	6,980	16,347	1070.2%
35 to 44	390	659	69.0%	1,309	2,722	5,796	779.4%
45 to 54	460	258	-43.9%	164	102	60	-76.6%
55 to 59	26	191	624.5%	326	553	939	391.5%
60 to 64	20	194	848.9%	318	527	880	353.7%
65 and over	110	91	-17.1%	95	98	102	12.5%
<b>Totals:</b>	<b>7,068</b>	<b>10,443</b>	<b>47.7%</b>	<b>18,822</b>	<b>36,229</b>	<b>72,716</b>	<b>596.3%</b>

Table 2.0, Summary of the adjusted Kiryas Joel's projected male population growth from 2010 to 2040.

This adjusted population growth for Kiryas Joel adds in an adjustment to the 15 to 24 age groups growth rate and then spread out the growth taking into consideration the fact that the females are growing at a faster rate than their male counterparts. It takes the 2000 to 2010 growth rate and divided it for each age group by the total of the female and male growth for those age groups. The total population growth was then distributed based on the percentage of growth each was responsible for. The result is an increase in the Male population of 12,506 over the original calculation presented in the original document I submitted concerning the Annexation.

This growth is total due to the change in the 15 to 24 year old groups and is consistent with the fact that the males in these groups grew faster than the females.

### The Impact on the In-Migration as a result of this estimate

U.S. Census Kiryas Joel Population [Years of age] - (53.8%)	2000 U.S. Census Females minus Males	2010 U.S. Census Females minus Males	2020 Estimated Females to Males	2030 Estimated Females to Males	2040 Estimated Females to Males
Under 5	(203)	(19)	771	2,358	5,543
5 to 9	(166)	(130)	206	849	2,085
10 to 14	(131)	(67)	215	705	1,559
15 to 19	(135)	(301)	(85)	291	946
20 to 24	(111)	(154)	145	858	2,555
	(246)	(455)	60	1,149	3,501
25 to 34	(110)	(31)	487	1,721	4,659
35 to 44	(55)	(7)	235	762	1,908
45 to 54	(65)	(7)	9	20	27
55 to 59	(4)	7	7	7	7
60 to 64	(3)	(31)	(31)	(31)	(31)
65 and over	(16)	29	29	29	29
	(1,245)	(1,166)	1,988	7,569	19,287

Table 3.0, Summary of the adjusted Kiryas Joel's projected female and male population growth from 2010 to 2040 and the impact on in-migration. Since 2010 the growth rate of the females has been higher than the males and thus spouses will be moving in to fill the shortfall.

### Conclusion:

The estimated in-migration will be 19,287. This will bring the total population of Kiryas Joel to 184,007 by 2040.



## Appendices

### Appendix A2 Kiryas Joel U.S. Census Data by Age Group.

#### 1. Kiryas Joel's Total U.S. Census Population projections for 2011 to 2020 based on 2000 to 2010 U.S. Census

U.S. Census Kiryas Joel Total Population [Years of age]	2000 U.S. Census Pop.	2010 U.S. Census Pop.	Change 2000 to 2010	% Change 2000 to 2010	Avg % by age group	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Change over 10 years.
Under 5	2,677	4,609	1,932	72.2%	7.2%	4,942	5,298	5,681	6,091	6,530	7,001	7,507	8,049	8,629	9,252	100.7%
5 to 9	2,180	3,648	1,468	67.3%	6.7%	3,894	4,156	4,436	4,734	5,053	5,393	5,757	6,144	6,558	7,000	91.9%
10 to 14	1,724	2,707	983	57.0%	5.7%	2,861	3,024	3,197	3,379	3,572	3,776	3,991	4,218	4,459	4,713	74.1%
15 to19	1,779	2,075	296	16.6%	1.7%	2,193	2,318	2,451	2,590	2,738	2,894	3,059	3,234	3,418	3,613	74.1%
20 to 24	1,458	1,596	138	9.5%	0.9%	1,741	1,899	2,071	2,259	2,463	2,687	2,930	3,196	3,486	3,802	138.2%
[15 to 24 ]	3,237	3,671	434	13.4%	1.3%	3,934	4,217	4,521	4,849	5,201	5,581	5,989	6,430	6,904	7,415	102.0%
25 to 34	1,449	2,763	1,314	90.7%	9.1%	3,014	3,287	3,585	3,910	4,265	4,651	5,073	5,533	6,035	6,582	138.2%
35 to 44	725	1,311	586	80.8%	8.1%	1,417	1,531	1,655	1,789	1,934	2,090	2,259	2,441	2,639	2,852	117.6%
45 to 54	855	509	(346)	-40.5%	-4.0%	488	469	450	431	414	397	381	366	351	337	-33.8%
55 to 59 *	49	389	340	693.9%	69.4%	410	432	455	480	506	533	562	592	624	658	69.2%
60 to 64 *	38	357	319	839.5%	83.9%	376	397	418	441	464	489	516	544	573	604	69.2%
65 and over	204	211	7	3.4%	0.3%	212	212	213	214	215	215	216	217	218	218	3.5%
<b>Totals:</b>	<b>13,138</b>	<b>20,175</b>	<b>7,037</b>	<b>53.6%</b>	<b>5.4%</b>	<b>21,548</b>	<b>23,024</b>	<b>24,611</b>	<b>26,318</b>	<b>28,154</b>	<b>30,128</b>	<b>32,251</b>	<b>34,534</b>	<b>36,990</b>	<b>39,632</b>	<b>83.3%</b>

\* Assumed to grow at 5.4% a year. The 2000 to 2010 must be an anomaly and has no value in projecting growth for these age groups

Table A2.1 –Total Kiryas Joel's population with the 2011 to 2020 growth based on 2000 to 2010 growth rate for all groups with the exception of the 15 to19 assumed to grow at the same rate as the 10 to 14 age group (5.7%), 20 to 24 assumed to grow at the same rate as the 24 to 29 age group (9.1%), 55 to 59 and 60 to 64 both of these senior groups are assumed to grow at 5.4% a year.

This adjusted population growth for Kiryas Joel is to determine what would happen if the grow was adjusted to determine the effects of a more rapid growth for the 15 to 24 age groups. It is not logical for us to accept the 2000 to 2010 U.S. Census growth rate as it is at best it is questionable given the growth rates of the younger groups and the 25 to 44 age groups. The result is an increase of 3,109 over the original calculation where we did not make the adjustments to the 15 to24 age groups.

## 2. Kiryas Joel's Female U.S. Census Population projections for 2011 to 2020 based on 2000 to 2010 U.S. Census

U.S. Census Kiryas Joel Female Population [Years of age]	2000 U.S. Census Female Pop. - (46.2%)	2010 U.S. Census Female Pop.	Change 2000 to 2010	% Change 2000 to 2010	Avg Growth by age group	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Change over 10 years.
Under 5	1,237	2,295	1,058	85.6%	8.6%	2,490	2,698	2,922	3,162	3,419	3,695	3,991	4,308	4,647	5,012	118.4%
5 to 9	1,007	1,759	752	74.6%	7.5%	1,894	2,038	2,192	2,357	2,532	2,719	2,919	3,132	3,360	3,603	104.8%
10 to 14	796	1,320	524	65.7%	6.6%	1,408	1,501	1,599	1,703	1,813	1,929	2,052	2,182	2,319	2,464	86.7%
15 to19	822	887	65	7.9%	0.8%	954	1,026	1,101	1,181	1,265	1,354	1,448	1,548	1,653	1,764	98.9%
20 to 24	674	721	47	7.0%	0.7%	803	893	991	1,097	1,213	1,340	1,479	1,630	1,794	1,974	173.7%
[15 to 24 ]	1,495	1,608	113	7.5%	0.8%	1,684	1,766	1,854	1,949	2,051	2,161	2,279	2,407	2,544	2,692	67.4%
25 to 34	669	1,366	697	104.1%	10.4%	1,508	1,663	1,833	2,017	2,219	2,438	2,678	2,939	3,224	3,535	158.7%
35 to 44	335	652	317	94.7%	9.5%	713	780	851	929	1,012	1,103	1,200	1,306	1,420	1,544	136.8%
45 to 54	395	251	(144)	-36.5%	-3.6%	242	233	224	216	208	200	193	186	179	173	-31.1%
55 to 59	23	198	175	774.6%	77.5%	209	220	231	244	257	270	285	300	316	333	68.0%
60 to 64	18	163	145	828.5%	82.8%	173	183	194	205	217	229	242	256	271	287	75.8%
65 and over	94	120	26	27.3%	2.7%	120	121	121	121	122	122	123	123	123	124	3.1%
<b>Totals:</b>	<b>6,070</b>	<b>9,732</b>	<b>3,662</b>	<b>60.3%</b>	<b>6.0%</b>	<b>10,514</b>	<b>11,355</b>	<b>12,259</b>	<b>13,231</b>	<b>14,277</b>	<b>15,400</b>	<b>16,609</b>	<b>17,909</b>	<b>19,306</b>	<b>20,810</b>	<b>98.4%</b>

Table A2.2 –Kiryas Joel's female Population with the 2011 to 2020 growth based on 2000 to 2010 growth rate for all groups with the exception of the 15 to19 assumed to grow at the same rate as the 10 to 14 age group (5.7%), 20 to 24 assumed to grow at the same rate as the 24 to 29 age group (9.1%), 55 to 59 and 60 to 64 both of these senior groups are assumed to grow at 5.4% a year. We then distribute the growth number across the Female and Male population based on their respective growth rates for each category

This adjusted population growth for Kiryas Joel is then spread out to take into consideration the fact that the females are growing at a more rapid rate than their male counterparts. We took the 2000 to 2010 growth rate and divided it for each age group by the total of the female and male growth for those age groups. The total population growth was then distributed based on the percentage of growth each was responsible for. The result is an increase of 1,514 over the original calculation where we did not make the adjustments to the 15 to24 age groups.

### 3. Kiryas Joel's Male U.S. Census Population projections for 2011 to 2020 based on 2000 to 2010 U.S. Census

U.S. Census Kiryas Joel Male Population [Years of age] - (53.8%)	2000 U.S. Census Male Pop (53.8%)	2010 U.S. Census Female Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Change over 10 years.
Under 5	1,440	2,314	874	61%	6.1%	2,452	2,600	2,759	2,929	3,111	3,307	3,516	3,741	3,982	4,240	83.2%
5 to 9	1,173	1,889	716	61%	6.1%	2,000	2,118	2,243	2,378	2,521	2,674	2,838	3,012	3,198	3,397	79.8%
10 to 14	928	1,387	459	50%	5.0%	1,453	1,523	1,598	1,676	1,759	1,846	1,939	2,037	2,140	2,249	62.2%
15 to 19	957	1,188	231	24%	2.4%	1,239	1,293	1,349	1,409	1,473	1,540	1,611	1,686	1,765	1,849	55.6%
20 to 24	784	875	91	12%	1.2%	938	1,006	1,080	1,161	1,250	1,346	1,452	1,567	1,692	1,828	109.0%
[15 to 24 ]	1,742	2,063	321	18%	1.8%	2,250	2,451	2,667	2,900	3,150	3,420	3,710	4,023	4,360	4,723	128.9%
25 to 34	780	1,397	617	79%	7.9%	1,505	1,623	1,752	1,893	2,046	2,213	2,395	2,594	2,811	3,048	118.2%
35 to 44	390	659	269	69%	6.9%	704	752	804	860	921	987	1,058	1,135	1,219	1,309	98.6%
45 to 54	460	258	(202)	-44%	-4.4%	247	236	226	216	206	197	188	180	172	164	-36.5%
55 to 59	26	191	165	625%	62.5%	202	213	224	237	250	263	278	293	309	326	70.5%
60 to 64	20	194	174	849%	84.9%	204	214	225	236	248	260	273	287	302	318	63.7%
65 and over	110	91	(19)	-17%	-1.7%	91	92	92	92	93	93	94	94	94	95	4.0%
<b>Totals:</b>	<b>7,068</b>	<b>10,443</b>	<b>3,375</b>	<b>47.7%</b>	<b>4.8%</b>	<b>11,033</b>	<b>11,669</b>	<b>12,352</b>	<b>13,087</b>	<b>13,877</b>	<b>14,728</b>	<b>15,642</b>	<b>16,626</b>	<b>17,684</b>	<b>18,822</b>	<b>69.3%</b>

Table A2.3 –Kiryas Joel's male Population with the 2011 to 2020 growth based on 2000 to 2010 growth rate for all groups with the exception of the 15 to19 assumed to grow at the same rate as the 10 to 14 age group (5.7%), 20 to 24 assumed to grow at the same rate as the 24 to 29 age group (9.1%), 55 to 59 and 60 to 64 both of these senior groups are assumed to grow at 5.4% a year. We then distribute the growth number across the Female and Male population based on their respective growth rates for each category

This adjusted population growth for Kiryas Joel is then spread out to take into consideration the fact that the females are growing at a more rapid rate than their male counterparts. We took the 2000 to 2010 growth rate and divided it for each age group by the total of the female and male growth for those age groups. The total population growth was then distributed based on the percentage of growth each was responsible for. As you can see the total growth for the males is about 30% less than the women. The result is an increase of 1,595 over the original calculation where we did not make the adjustments to the 15 to 24 age groups.

#### 4. Kiryas Joel's Total U.S. Census Population projections for 2021 to 2030 based on 2000 to 2010 U.S. Census

U.S. Census Kiryas Joel Total Population [Years of age]	2000 U.S. Census Pop.	2010 U.S. Census Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	% Change over 10 years.
Under 5	2,677	4,609	1,932	72%	7.2%	9,920	10,636	11,403	12,226	13,109	14,055	15,069	16,157	17,323	18,573	100.7%
5 to 9	2,180	3,648	1,468	67%	6.7%	7,471	7,974	8,511	9,084	9,696	10,349	11,046	11,790	12,584	13,431	91.9%
10 to 14	1,724	2,707	983	57%	5.7%	4,982	5,266	5,566	5,884	6,219	6,574	6,949	7,345	7,764	8,206	74.1%
15 to19	1,779	2,075	296	17%	1.7%	3,819	4,037	4,267	4,510	4,767	5,039	5,326	5,630	5,951	6,290	74.1%
20 to 24	1,458	1,596	138	9%	0.9%	4,147	4,523	4,933	5,380	5,868	6,400	6,981	7,614	8,304	9,057	138.2%
<b>Total</b>	3,237	3,671	434	13%	1.3%	7,966	8,559	9,200	9,890	10,635	11,439	12,307	13,244	14,255	15,348	107.0%
25 to 34	1,449	2,763	1,314	91%	9.1%	7,179	7,830	8,540	9,315	10,159	11,080	12,085	13,181	14,377	15,680	138.2%
35 to 44	725	1,311	586	81%	8.1%	3,083	3,332	3,601	3,892	4,207	4,547	4,914	5,312	5,741	6,205	117.6%
45 to 54	855	509	(346)	-40%	-4.0%	323	310	298	285	274	263	252	242	232	223	-33.8%
55 to 59	49	389	340	694%	69.4%	694	731	771	812	856	902	951	1,002	1,057	1,114	69.2%
60 to 64	38	357	319	839%	83.9%	637	671	707	745	786	828	873	920	970	1,022	69.2%
65 and over	204	211	7	3%	0.3%	219	220	221	221	222	223	224	224	225	226	3.5%
	13,138	20,175	7,037	54%	5.4%	42,473	45,529	48,818	52,356	56,163	60,261	64,670	69,417	74,526	80,027	101.9%

Table A2.4 –Total Kiryas Joel's population with the 2011 to 2020 growth based on 2000 to 2010 growth rate for all groups with the exception of the 15 to19 assumed to grow at the same rate as the 10 to 14 age group (5.7%), 20 to 24 assumed to grow at the same rate as the 24 to 29 age group (9.1%), 55 to 59 and 60 to 64 both of these senior groups are assumed to grow at 5.4% a year.

This adjusted population growth for Kiryas Joel is to determine what would happen if the grow was adjusted to determine the effects of a more rapid growth for the 15 to 24 age groups. It is not logical for us to accept the 2000 to 2010 U.S. Census growth rate as it is at best it is questionable given the growth rates of the younger groups and the 25 to 44 age groups. The result is an increase of 10,465 over the original calculation where we did not make the adjustments to the 15 to24 age groups.

## 5. Kiryas Joel's Female U.S. Census Population for 2021 to 2030 based on 2000 to 2010 U.S. Census

U.S. Census Kiryas Joel Female Population [Years of age]	2000 U.S. Census Female Pop. - (46.2%)	2010 U.S. Census Female Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	% Change over 10 years.
Under 5	1,237	2,295	1,058	86%	8.6%	5,403	5,821	6,271	6,752	7,268	7,822	8,415	9,052	9,734	10,466	108.8%
5 to 9	1,007	1,759	752	75%	7.5%	3,862	4,139	4,434	4,749	5,086	5,445	5,828	6,237	6,674	7,140	98.2%
10 to 14	796	1,320	524	66%	6.6%	2,617	2,779	2,950	3,131	3,323	3,525	3,739	3,965	4,203	4,456	80.8%
15 to 19	822	887	65	8%	0.8%	1,881	2,006	2,137	2,275	2,422	2,577	2,741	2,914	3,097	3,291	86.6%
20 to 24	674	721	47	7%	0.7%	2,169	2,383	2,616	2,870	3,147	3,449	3,779	4,138	4,530	4,958	151.2%
<b>Total</b>	<b>1,495</b>	<b>1,608</b>	<b>113</b>	<b>8%</b>	<b>0.8%</b>	<b>4,051</b>	<b>4,388</b>	<b>4,753</b>	<b>5,145</b>	<b>5,569</b>	<b>6,026</b>	<b>6,519</b>	<b>7,052</b>	<b>7,627</b>	<b>8,248</b>	<b>206.4%</b>
25 to 34	669	1,366	697	104%	10.4%	3,873	4,243	4,646	5,086	5,566	6,089	6,659	7,281	7,960	8,700	146.2%
35 to 44	335	652	317	95%	9.5%	1,677	1,821	1,977	2,145	2,327	2,524	2,737	2,967	3,215	3,483	125.7%
45 to 54	395	251	(144)	-36%	-3.6%	167	161	155	150	144	139	135	130	125	121	-29.9%
55 to 59	23	198	175	775%	77.5%	350	369	389	410	432	455	479	505	532	560	68.5%
60 to 64	18	163	145	828%	82.8%	303	320	338	357	377	399	421	445	469	496	72.9%
65 and over	94	120	26	27%	2.7%	124	124	125	125	126	126	126	127	127	127	3.1%
	6,070	9,732	3,662	60%	6.0%	22,427	24,166	26,038	28,051	30,218	32,549	35,058	37,760	40,667	43,798	110.5%

Table A2.5 –Kiryas Joel's female Population with the 2011 to 2020 growth based on 2000 to 2010 growth rate for all groups with the exception of the 15 to 19 assumed to grow at the same rate as the 10 to 14 age group (5.7%), 20 to 24 assumed to grow at the same rate as the 24 to 29 age group (9.1%), 55 to 59 and 60 to 64 both of these senior groups are assumed to grow at 5.4% a year. We then distribute the growth number across the Female and Male population based on their respective growth rates for each category

This adjusted population growth for Kiryas Joel is then spread out to take into consideration the fact that the females are growing at a more rapid rate than their male counterparts. We took the 2000 to 2010 growth rate and divided it for each age group by the total of the female and male growth for those age groups. The total population growth was then distributed based on the percentage of growth each was responsible for. The result is an increase in the female population of 5,173 over the original calculation where we did not make the adjustments to the 15 to 24 age groups.

## 6. Kiryas Joel's Male U.S. Census Population projections for 2021 to 2030 based on 2000 to 2010 U.S. Census

U.S. Census Kiryas Joel Male Population [Years of age] - (53.8%)	2000 U.S. Census Female Pop (53.8%)	2010 U.S. Census Female Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	% Change over 10 years.
Under 5	1,440	2,314	874	61%	6.1%	4,517	4,814	5,133	5,474	5,840	6,233	6,654	7,105	7,589	8,107	91.2%
5 to 9	1,173	1,889	716	61%	6.1%	3,609	3,836	4,077	4,335	4,610	4,904	5,218	5,552	5,909	6,291	85.2%
10 to 14	928	1,387	459	50%	5.0%	2,365	2,487	2,616	2,752	2,896	3,049	3,210	3,380	3,560	3,750	66.7%
15 to19	957	1,188	231	24%	2.4%	1,937	2,031	2,130	2,235	2,345	2,462	2,585	2,716	2,854	3,000	62.2%
20 to 24	784	875	91	12%	1.2%	1,977	2,140	2,317	2,511	2,721	2,951	3,202	3,476	3,774	4,100	124.2%
<b>Total</b>	<b>1,742</b>	<b>2,063</b>	<b>321</b>	<b>18%</b>	<b>1.8%</b>	<b>3,915</b>	<b>4,171</b>	<b>4,447</b>	<b>4,745</b>	<b>5,067</b>	<b>5,413</b>	<b>5,788</b>	<b>6,192</b>	<b>6,628</b>	<b>7,100</b>	<b>50.3%</b>
25 to 34	780	1,397	617	79%	7.9%	3,306	3,587	3,894	4,229	4,594	4,992	5,426	5,900	6,416	6,980	129.0%
35 to 44	390	659	269	69%	6.9%	1,406	1,511	1,624	1,747	1,879	2,023	2,178	2,345	2,526	2,722	108.0%
45 to 54	460	258	(202)	-44%	-4.4%	156	149	142	136	130	123	118	112	107	102	-38.0%
55 to 59	26	191	165	625%	62.5%	343	362	382	403	425	448	472	498	525	553	69.9%
60 to 64	20	194	174	849%	84.9%	334	351	369	388	408	430	452	476	500	527	65.8%
65 and over	110	91	(19)	-17%	-1.7%	95	95	96	96	97	97	97	98	98	98	4.0%
	7,068	10,443	3,375	48%	4.8%	20,046	21,363	22,780	24,305	25,946	27,711	29,612	31,657	33,859	36,229	92.5%

Table A2.6 –Kiryas Joel's male Population with the 2011 to 2020 growth based on 2000 to 2010 growth rate for all groups with the exception of the 15 to19 assumed to grow at the same rate as the 10 to 14 age group (5.7%), 20 to 24 assumed to grow at the same rate as the 24 to 29 age group (9.1%), 55 to 59 and 60 to 64 both of these senior groups are assumed to grow at 5.4% a year. We then distribute the growth number across the Female and Male population based on their respective growth rates for each category

This adjusted population growth for Kiryas Joel is then spread out to take into consideration the fact that the females are growing at a more rapid rate than their male counterparts. We took the 2000 to 2010 growth rate and divided it for each age group by the total of the female and male growth for those age groups. The total population growth was then distributed based on the percentage of growth each was responsible for. As you can see the total growth for the males is about 30% less than the women. The result is an increase of 5,292 over the original calculation where we did not make the adjustments to the 15 to 24 age groups.

## 7. Kiryas Joel's Total U.S. Census Population projections for 2031 to 2040 based on 2000 to 2010 U.S. Census

U.S. Census Kiryas Joel Total Population [Years of age]	2000 U.S. Census Pop	2010 U.S. Census Pop.	Change 2000 to 2010	% Change 2000 to 2010	Avg. Growth by age group	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	% Change over 10 years.
<b>Under 5</b>	2,677	4,609	1,932	72%	7.2%	19,913	21,351	22,891	24,544	26,315	28,214	30,250	32,433	34,774	37,284	100.7%
<b>5 to 9</b>	2,180	3,648	1,468	67%	6.7%	14,335	15,301	16,331	17,431	18,605	19,857	21,195	22,622	24,145	25,771	91.9%
<b>10 to 14</b>	1,724	2,707	983	57%	5.7%	8,674	9,169	9,691	10,244	10,828	11,446	12,098	12,788	13,517	14,288	74.1%
<b>15 to19</b>	1,779	2,075	296	17%	1.7%	6,649	7,028	7,429	7,852	8,300	8,773	9,274	9,802	10,361	10,952	74.1%
<b>20 to 24</b>	1,458	1,596	138	9%	0.9%	9,879	10,775	11,752	12,817	13,980	15,247	16,630	18,138	19,783	21,577	138.2%
<b>Total</b>	3,237	3,671	434	13%	1.3%	16,528	17,803	19,181	20,670	22,280	24,021	25,904	27,941	30,144	32,529	111.9%
<b>25 to 34</b>	1,449	2,763	1,314	91%	9.1%	17,102	18,653	20,345	22,190	24,202	26,396	28,790	31,401	34,248	37,354	138.2%
<b>35 to 44</b>	725	1,311	586	81%	8.1%	6,706	7,248	7,834	8,468	9,152	9,892	10,691	11,555	12,489	13,499	117.6%
<b>45 to 54</b>	855	509	(346)	-40%	-4.0%	214	205	197	189	181	174	167	160	154	147	-33.8%
<b>55 to 59</b>	49	389	340	694%	69.4%	1,174	1,237	1,304	1,374	1,449	1,527	1,609	1,696	1,788	1,884	69.2%
<b>60 to 64</b>	38	357	319	839%	83.9%	1,077	1,135	1,197	1,261	1,329	1,401	1,477	1,557	1,641	1,729	69.2%
<b>65 and over</b>	204	211	7	3%	0.3%	227	228	228	229	230	231	231	232	233	234	3.5%
	13,138	20,175	7,037	54%	5.4%	85,951	92,329	99,199	106,599	114,570	123,159	132,413	142,385	153,134	164,720	105.8%

Table A2.7 –Total Kiryas Joel's population with the 2011 to 2020 growth based on 2000 to 2010 growth rate for all groups with the exception of the 15 to19 assumed to grow at the same rate as the 10 to 14 age group (5.7%), 20 to 24 assumed to grow at the same rate as the 24 to 29 age group (9.1%), 55 to 59 and 60 to 64 both of these senior groups are assumed to grow at 5.4% a year.

This adjusted population growth for Kiryas Joel is to determine what would happen if the grow was adjusted to determine the effects of a more rapid growth for the 15 to 24 age groups. It is not logical for us to accept the 2000 to 2010 U.S. Census growth rate as it is at best it is questionable given the growth rates of the younger groups and the 25 to 44 age groups. The result is a cumulative increase of 24,530 over the original calculation where we did not make the adjustments to the 15 to24 age groups.

## 8. Kiryas Joel's Female U.S. Census Population projections for 2031 to 2040 based on 2000 to 2010 U.S. Census

U.S. Census Kiryas Joel Female Population [Years of age]	2000 U.S. Census Female Pop. - (46.2%)	2010 U.S. Census Female Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	% Change over 10 years.
Under 5	1,237	2,295	1,058	86%	8.6%	11,250	12,091	12,992	13,959	14,996	16,107	17,298	18,576	19,945	21,414	104.6%
5 to 9	1,007	1,759	752	75%	7.5%	7,638	8,169	8,735	9,340	9,986	10,675	11,411	12,196	13,034	13,928	95.1%
10 to 14	796	1,320	524	66%	6.6%	4,723	5,005	5,303	5,618	5,951	6,303	6,675	7,068	7,484	7,924	77.8%
15 to19	822	887	65	8%	0.8%	3,495	3,711	3,940	4,181	4,437	4,707	4,992	5,293	5,612	5,949	80.8%
20 to 24	674	721	47	7%	0.7%	5,424	5,933	6,487	7,092	7,752	8,472	9,257	10,114	11,048	12,066	143.4%
<b>Total</b>	<b>1,495</b>	<b>1,608</b>	<b>113</b>	<b>8%</b>	<b>0.8%</b>	<b>8,919</b>	<b>9,644</b>	<b>10,427</b>	<b>11,274</b>	<b>12,189</b>	<b>13,179</b>	<b>14,249</b>	<b>15,407</b>	<b>16,660</b>	<b>18,015</b>	<b>118.4%</b>
25 to 34	669	1,366	697	104%	10.4%	9,508	10,388	11,349	12,396	13,539	14,785	16,144	17,627	19,243	21,007	141.4%
35 to 44	335	652	317	95%	9.5%	3,773	4,087	4,426	4,792	5,188	5,616	6,079	6,579	7,119	7,703	121.1%
45 to 54	395	251	(144)	-36%	-3.6%	117	113	109	106	102	99	96	93	90	87	-28.2%
55 to 59	23	198	175	775%	77.5%	590	622	656	691	728	767	808	852	897	946	68.8%
60 to 64	18	163	145	828%	82.8%	523	552	583	615	649	685	723	763	805	849	71.4%
65 and over	94	120	26	27%	2.7%	128	128	129	129	129	130	130	131	131	131	3.1%
	6,070	9,732	3,662	60%	6.0%	47,169	50,799	54,709	58,921	63,458	68,346	73,613	79,290	85,408	92,004	110.1%

Table A2.8 –Kiryas Joel's female Population with the 2011 to 2020 growth based on 2000 to 2010 growth rate for all groups with the exception of the 15 to19 assumed to grow at the same rate as the 10 to 14 age group (5.7%), 20 to 24 assumed to grow at the same rate as the 24 to 29 age group (9.1%), 55 to 59 and 60 to 64 both of these senior groups are assumed to grow at 5.4% a year. We then distribute the growth number across the Female and Male population based on their respective growth rates for each category

This adjusted population growth for Kiryas Joel is then spread out to take into consideration the fact that the females are growing at a more rapid rate than their male counterparts. We took the 2000 to 2010 growth rate and divided it for each age group by the total of the female and male growth for those age groups. The total population growth was then distributed based on the percentage of growth each was responsible for. The result is an increase in the female population of 12,059 over the original calculation where we did not make the adjustments to the 15 to24 age groups.



## 9. Kiryas Joel's Male U.S. Census Population projections for 2031 to 2040 based on 2000 to 2010 U.S. Census

U.S. Census Kiryas Joel Male Population [Years of age] - (53.8%)	2000 U.S. Census Male Pop (53.8%)	2010 U.S. Census Male Pop.	Change 2000 to 2010	% Change 2000 to 2010	Average Growth by age group	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	% Change over 10 years.
Under 5	1,440	2,314	874	61%	6.1%	8,664	9,260	9,899	10,584	11,319	12,107	12,952	13,858	14,829	15,870	95.7%
5 to 9	1,173	1,889	716	61%	6.1%	6,698	7,132	7,596	8,090	8,619	9,182	9,784	10,426	11,111	11,843	88.3%
10 to 14	928	1,387	459	50%	5.0%	3,952	4,164	4,389	4,626	4,877	5,143	5,423	5,720	6,033	6,364	69.7%
15 to19	957	1,188	231	24%	2.4%	3,154	3,317	3,489	3,671	3,863	4,067	4,282	4,509	4,749	5,003	66.8%
20 to 24	784	875	91	12%	1.2%	4,455	4,842	5,264	5,725	6,227	6,775	7,373	8,025	8,735	9,511	132.0%
<b>Total</b>	<b>1,742</b>	<b>2,063</b>	<b>321</b>	<b>18%</b>	<b>1.8%</b>	<b>7,609</b>	<b>8,159</b>	<b>8,753</b>	<b>9,396</b>	<b>10,091</b>	<b>10,842</b>	<b>11,655</b>	<b>12,534</b>	<b>13,485</b>	<b>14,514</b>	<b>104.4%</b>
25 to 34	780	1,397	617	79%	7.9%	7,594	8,265	8,996	9,793	10,663	11,611	12,646	13,774	15,005	16,347	134.2%
35 to 44	390	659	269	69%	6.9%	2,933	3,161	3,408	3,675	3,964	4,275	4,612	4,976	5,370	5,796	113.0%
45 to 54	460	258	(202)	-44%	-4.4%	97	92	87	83	79	75	71	67	64	60	-40.5%
55 to 59	26	191	165	625%	62.5%	583	615	649	684	721	760	801	845	890	939	69.6%
60 to 64	20	194	174	849%	84.9%	554	583	614	646	680	716	754	794	836	880	67.2%
65 and over	110	91	(19)	-17%	-1.7%	99	99	100	100	100	101	101	102	102	102	4.0%
	7,068	10,443	3,375	48%	4.8%	38,782	41,530	44,490	47,678	51,113	54,813	58,799	63,095	67,726	72,716	100.7%

Table A2.6 –Kiryas Joel's male Population with the 2011 to 2020 growth based on 2000 to 2010 growth rate for all groups with the exception of the 15 to19 assumed to grow at the same rate as the 10 to 14 age group (5.7%), 20 to 24 assumed to grow at the same rate as the 24 to 29 age group (9.1%), 55 to 59 and 60 to 64 both of these senior groups are assumed to grow at 5.4% a year. We then distribute the growth number across the Female and Male population based on their respective growth rates for each category

This adjusted population growth for Kiryas Joel is then spread out to take into consideration the fact that the females are growing at a more rapid rate than their male counterparts. We took the 2000 to 2010 growth rate and divided it for each age group by the total of the female and male growth for those age groups. The total population growth was then distributed based on the percentage of growth each was responsible for. As you can see the total growth for the males is about 30% less than the women. The result is an increase of 12,471 over the original calculation where we did not make the adjustments to the 15 to 24 age groups