

**BELMONT HIGH SCHOOL BUILDING COMMITTEE**  
**FINAL MEETING MINUTES**  
**Wednesday, June 29, 2016**  
**Homer Building Gallery**  
**7:30 AM**

RECEIVED  
TOWN CLERK  
BELMONT, MA

2017 JAN 31 AM 9:19

**Meeting #4**

*Committee Members Attending:*

Chair Lovallo; Members: Sami Baghdady, David Kale, Tom Caputo, Gerry Boyle, Pat Bruschi, Dan Richards, Bob McLaughlin, Joe DeStefano, Joel Mooney, Diane Miller, Chris Messer, Phil Ruggiero, and Jamie Shea

*Members Absent:* Phyllis Marshall, John Phelan, Dan Richards

**I. Call to Order**

The meeting was called to order at 7:36 a.m. by Chair Lovallo.

**II. Minutes of Previous Meetings**

*Mr. McLaughlin moved:* To approve the Minutes of 5/25/16.  
The motion passed unanimously.

Chair Lovallo reported that there is no Treasurer's report, per se, however, the \$1.75M has been assigned to the committee. While money has not yet been spent, some expenses have been incurred.

**III. Discussion: Belmont High School Tour**

Chair Lovallo began by stating that the tour was helpful as it highlighted important building issues. Photos can now be taken as school is out of session. Every corner, he said, seems to be crammed with stuff and/or students. The tour helped highlight the previously submitted Statement of Interest (SOI).

Among the issues noted were that the storage rooms, the band room, and the music room were extremely crowded. Also, there seems to be a moisture problem throughout the high school.

Ms. Shea noted that the little theater floor is leaking. The concrete floor seems to be seeping and it smells. Also, many ceiling tiles are missing; dust is floating down from the ceiling. Faculty/staff, she added, are concerned about what the substance is that is floating around. Mr. Boyle stated that asbestos testing has occurred and the results are negative, indicating that they do not exceed health limitations. Chair Lovallo explained that, when the high school was built, fire-proof construction was installed, often using steel, which was insulated from exposure to extreme heat via an insulating cementitious coating containing asbestos.

Mr. McLaughlin said that he had wondered about a building renovation versus tear down. Renovation, he said, will involve gutting the building. Chair Lovallo agreed and added that the existing elevators do not fit motorized wheel chairs. The MSBA will not cover a new or renovated pool, but may help cover the cost of a renovated field house – the pool and field house will need to be fitted into the high school plan if maintained in their present form.

Concerning the auditorium, the MSBA only covers 750 capacity in a new auditorium, while the current one holds approximately 900 [note: Mr. Boyle has since noted that the number of upholstered seats has been

identified as 844, so the capacity estimate may include standing room].

Chair Lovallo stated that the structure of the building does not appear to be under duress; the building itself appears to be well-supported on its foundation. However, the infrastructure is needy. The fire alarm system is currently being upgraded. The roof seems tight. Any upgrade will involve improvements to or replacement of the exterior walls to comply with current energy codes. The science rooms are clearly in dire need of an upgrade. Mr. Caputo added that the design of the existing science wing is not aligned with the way science is currently taught.

Mr. Mooney raised the issue of building security, noting that a new building will need locking doors. Mr. Boyle noted that some of the doors are receiving new locks.

Chair Lovallo noted that Belmont has great teachers and great results with a school that is severely challenged. He acknowledged the staff and students for excelling in a compromised building.

#### **IV. Update: Maintenance and Capital Plan**

Mr. Boyle stated that his staff is working on the Maintenance and Capital plan. They are in contact with Mr. Tony DiCologero.

Chair Lovallo said that the current phase is Modular One: Eligibility Period. The Enrollment Certification and Maintenance reports are both due on August 8. The Board of Selectmen will sign off on the Enrollment Certification. The enrollment work has relied heavily on input from the school administration.

#### **V. Update: District Enrollment**

Mr. Kale summarized the enrollment meeting with the MSBA (held on June 13). He referenced the MSBA enrollment memo dated June 24, 2016. The MSBA acknowledged that the Wellington projections did not pan out. This is helpful, he said, as it underscores that Belmont understands its enrollment trends. He explained the trending models, which are reflecting increased enrollment 10 as well as 20 years out. The impact of the international student growth factor and the SPED population (including LABBB) were also explored with the MSBA. He noted that, according to the MSBA, the “grade 8 configuration” needs to be based on an educational model, not an enrollment model.

Mr. Kale then reviewed some of the enrollment numbers.

He raised the Library project as it relates to the high school campus. The MSBA will respond to inquiries related to the combining of these facilities. It will be useful to have a factual answer to questions raised about combining the two facilities. Mr. Kale noted that he will follow up with the MSBA on this separate topic with specific questions.

Chair Lovallo added that the MSBA looks at a 10-year enrollment average across the state. Their numbers are purely mathematical, based on the 10-year trend. SPED numbers were not in their report. The MSBA designs for enrollment, not capacity. Design enrollment is targeted at 85% of design capacity.

The enrollment number submitted by Belmont (via Superintendent Phelan) was 1501 for grades 9-12; the MSBA enrollment number is currently 1475.

Enrollment projections were discussed and explored.

Chair Lovallo noted that the enrollment number, once confirmed, will be used to set the programs and spaces

required for the high school design for the next 24 to 30 months, during the feasibility and schematic design phases. Mr. Mooney added that the enrollment number should hold for longer than the first 18-months that the new building is open.

Mr. Caputo reviewed his analysis of the enrollment data, including enrollment projections from the McKibben data as well as the MSBA/DESE data. He compared and contrasted the projections. He looked at grades 9-12 and at a 10-year average. He discussed capacity adjustments.

Selectman Baghdady asked about the MSBA funding a vocational component. Ms. Brusch stated that MSBA's response to this is very challenging and complex. Mr. Kale noted that the state has not made a policy decision concerning voc tech educational programming. The MSBA may not fund a voc tech expansion. The program offerings would be highly scrutinized.

Chair Lovallo stated that the BHSBC has been advised to sign the MSBA enrollment documents only after they have been thoroughly reviewed and Belmont accepts the numbers. Once the enrollment documents are signed, the enrollment projections cannot be changed.

The 10- versus 20-year enrollment projection were further discussed. Mr. Caputo noted that the 1501 number was submitted (in May) before the Town received the McKibben analysis.

Ms. Brusch added that the McKibben data may need to be revisited as the international population influx may not be accurately reflected. There is a trend for international families to move to Belmont so that their children can attend BHS. She noted that Minuteman is building a new school that is 300 students larger than the current enrollment reflects (for member towns), which the MSBA has sanctioned. This point should be noted to the MSBA. Belmont, she said, needs to present a very strong case (concerning enrollment) to the MSBA and now is the time to do that.

## **VI. Discussion: Open Meeting Law (OML) & Conflict of Interest**

Chair Lovallo noted that both he and Mr. McLaughlin met with the Town Clerk concerning the OML guidelines.

Mr. McLaughlin began with the town employee status of BHSBC members. He explained the "*special municipal employee status*", which the Board of Selectmen approved recently.

Regarding OML, he noted that the BHSBC has received documentation concerning OML and ethics. He reminded the committee to take the ethics certification test, which is good for two years.

Mr. McLaughlin reviewed the definition of what constitutes a public record. Personal notes are not considered a public record, but can be used for litigation purposes. He advised the committee to be careful with emails as they are considered public records. Bids are private until they are made open.

He summarized the main points of the OML. BHSBC and its designated subcommittees are considered public bodies under this statute. He noted that "working groups" fall into a grey area, depending on if the group *advises the committee* or merely *reports* back to the BHSBC.

He discussed how OML impacts emails, phone calls, draft documents, quorums, quorum in series, etc. He noted what is considered a deliberation. (Emails that pertain to scheduling issues are not considered a deliberation.) He reviewed site meetings/inspections.

Concerning Joint Meetings, the committee can talk, but not deliberate – unless the joint meeting is posted. The



Town Clerk's Office has a list of written rules concerning the posting of meetings (in a public space, accessible, with an agenda, etc.). He reviewed the reasons to hold an Executive Session (ES) and the process by which an ES is conducted.

Concerning Minutes, a draft is considered public. There is a need to list the documents that are referred to during the meeting.

He reviewed the Violation process, which is initiated by a complaint. The process is fairly arduous, but it has occurred.

Finally, he reviewed what constitutes an Ethics violation, e.g., bribes, gifts, and the *appearance* of impropriety. He instructed members to send potential conflict of interest concerns (in dealing with outside businesses who may be dealing with the committee) to the Town Moderator, Mr. Mike Widmer, with a copy to the Town Clerk. There is a form that can be filled out pertaining to conflict of interest.

#### **VII. Continuing Discussion: Public Relations (Committee Messages, Web Page, Other Media Outlets, etc.)**

Chair Lovallo deferred this agenda item.

The BHSBC will meet again on Wednesday, July 27 at 7:30 a.m. Agenda items will include an update on enrollment, maintenance, and a discussion of public relations.

#### **VIII. Related Meeting Documents:**

1. MSBA Enrollment Projections May 2016
2. McKibben Demographic Study June 2016
3. MSBA Enrollment Projection Letter dated June 24, 2016
4. Mr. Caputo's Enrollment Analysis

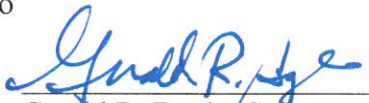
#### **XI. Adjournment**

The meeting was adjourned at 9:32 a.m. by Mr. McLaughlin.

Respectfully submitted by:

Lisa Gibalerio

Approved:

  
Gerald R. Boyle, Secretary

8/2/16  
Date

# MSBA Enrollment Projection – Belmont, MA

## Historic Enrollment Data (DESE)

| YEAR    | PK | K   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | K-12  | K-4   | 5-8   | 9-12  |
|---------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| 1993-94 | 31 | 265 | 320 | 261 | 263 | 289 | 248 | 252 | 232 | 212 | 197 | 218 | 179 | 171 | 3,107 | 1,398 | 944   | 765   |
| 1994-95 | 30 | 294 | 292 | 302 | 268 | 255 | 293 | 252 | 254 | 235 | 226 | 192 | 216 | 184 | 3,263 | 1,411 | 1,034 | 818   |
| 1995-96 | 31 | 278 | 297 | 269 | 307 | 269 | 263 | 290 | 259 | 253 | 250 | 230 | 189 | 212 | 3,366 | 1,420 | 1,065 | 881   |
| 1996-97 | 18 | 275 | 282 | 292 | 270 | 306 | 288 | 276 | 291 | 271 | 244 | 239 | 220 | 191 | 3,445 | 1,425 | 1,126 | 894   |
| 1997-98 | 22 | 267 | 289 | 295 | 293 | 276 | 297 | 281 | 249 | 286 | 252 | 249 | 227 | 207 | 3,468 | 1,420 | 1,113 | 935   |
| 1998-99 | 24 | 268 | 278 | 286 | 307 | 298 | 271 | 299 | 259 | 251 | 269 | 240 | 239 | 217 | 3,482 | 1,437 | 1,080 | 965   |
| 1999-00 | 49 | 262 | 284 | 278 | 282 | 317 | 288 | 273 | 288 | 257 | 251 | 269 | 247 | 225 | 3,521 | 1,423 | 1,106 | 992   |
| 2000-01 | 50 | 252 | 261 | 293 | 280 | 282 | 318 | 286 | 270 | 292 | 269 | 222 | 264 | 224 | 3,513 | 1,368 | 1,166 | 979   |
| 2001-02 | 44 | 279 | 253 | 257 | 293 | 285 | 278 | 308 | 284 | 269 | 299 | 246 | 219 | 260 | 3,530 | 1,367 | 1,139 | 1,024 |
| 2002-03 | 53 | 242 | 273 | 272 | 261 | 295 | 275 | 287 | 303 | 283 | 290 | 299 | 252 | 216 | 3,548 | 1,343 | 1,148 | 1,057 |
| 2003-04 | 42 | 276 | 254 | 286 | 272 | 269 | 295 | 296 | 290 | 293 | 314 | 286 | 291 | 249 | 3,671 | 1,357 | 1,174 | 1,140 |
| 2004-05 | 56 | 248 | 272 | 251 | 275 | 274 | 273 | 306 | 284 | 293 | 309 | 298 | 287 | 285 | 3,655 | 1,320 | 1,156 | 1,179 |
| 2005-06 | 68 | 272 | 252 | 280 | 253 | 275 | 270 | 274 | 296 | 285 | 291 | 298 | 294 | 286 | 3,626 | 1,332 | 1,125 | 1,169 |
| 2006-07 | 55 | 274 | 297 | 270 | 296 | 263 | 269 | 273 | 281 | 299 | 287 | 289 | 287 | 287 | 3,672 | 1,400 | 1,122 | 1,150 |
| 2007-08 | 52 | 278 | 286 | 308 | 269 | 309 | 261 | 289 | 274 | 277 | 309 | 279 | 286 | 282 | 3,707 | 1,450 | 1,101 | 1,156 |
| 2008-09 | 72 | 289 | 306 | 285 | 318 | 291 | 296 | 270 | 296 | 278 | 295 | 294 | 291 | 282 | 3,791 | 1,489 | 1,140 | 1,162 |
| 2009-10 | 71 | 330 | 314 | 318 | 307 | 331 | 304 | 314 | 274 | 292 | 265 | 284 | 293 | 277 | 3,903 | 1,600 | 1,184 | 1,119 |
| 2010-11 | 62 | 289 | 328 | 321 | 318 | 302 | 318 | 300 | 306 | 280 | 281 | 257 | 281 | 285 | 3,866 | 1,558 | 1,204 | 1,104 |
| 2011-12 | 66 | 344 | 301 | 330 | 310 | 316 | 297 | 312 | 300 | 302 | 280 | 273 | 256 | 274 | 3,895 | 1,601 | 1,211 | 1,083 |
| 2012-13 | 71 | 318 | 350 | 313 | 346 | 307 | 324 | 296 | 318 | 302 | 308 | 280 | 276 | 256 | 3,994 | 1,634 | 1,240 | 1,120 |
| 2013-14 | 68 | 338 | 331 | 351 | 316 | 350 | 316 | 328 | 298 | 326 | 314 | 314 | 285 | 270 | 4,137 | 1,686 | 1,268 | 1,183 |
| 2014-15 | 63 | 353 | 341 | 332 | 347 | 326 | 339 | 331 | 323 | 292 | 341 | 304 | 312 | 279 | 4,220 | 1,699 | 1,285 | 1,236 |
| 2015-16 | 61 | 312 | 376 | 355 | 341 | 349 | 332 | 341 | 322 | 328 | 300 | 337 | 297 | 311 | 4,301 | 1,733 | 1,323 | 1,245 |

## Historic Birth Data (MA Department of Public Health)

| Maternal Age | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10-14 Yrs    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 15-19 Yrs    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 5    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 20-24 Yrs    | 15   | 5    | 9    | 12   | 10   | 10   | 7    | 5    | 10   | 7    | 6    | 6    | 11   | 0    | 7    | 8    | 7    | 8    | 12   | 10   | 6    | 8    | 5    | 5    | 0    |
| 25-29 Yrs    | 62   | 83   | 83   | 55   | 75   | 61   | 56   | 55   | 43   | 40   | 52   | 39   | 46   | 37   | 44   | 47   | 33   | 44   | 37   | 58   | 43   | 53   | 47   | 39   | 36   |
| 30-34 Yrs    | 111  | 102  | 108  | 121  | 121  | 129  | 118  | 130  | 114  | 129  | 112  | 101  | 106  | 105  | 111  | 109  | 86   | 91   | 114  | 113  | 106  | 110  | 116  | 113  | 128  |
| 35-39 Yrs    | 39   | 67   | 60   | 70   | 84   | 76   | 74   | 69   | 93   | 95   | 88   | 108  | 81   | 103  | 91   | 86   | 97   | 93   | 108  | 93   | 101  | 99   | 69   | 96   | 86   |
| 40-44 Yrs    | 16   | 14   | 7    | 19   | 15   | 14   | 22   | 20   | 19   | 12   | 19   | 20   | 26   | 16   | 28   | 30   | 24   | 27   | 22   | 31   | 22   | 23   | 28   | 23   | 23   |
| Total Births | 248  | 272  | 269  | 278  | 306  | 291  | 282  | 284  | 282  | 286  | 280  | 278  | 277  | 270  | 282  | 286  | 249  | 266  | 298  | 309  | 282  | 294  | 271  | 281  | 279  |

## MSBA Enrollment Projection – Belmont, MA

### Female Population Data

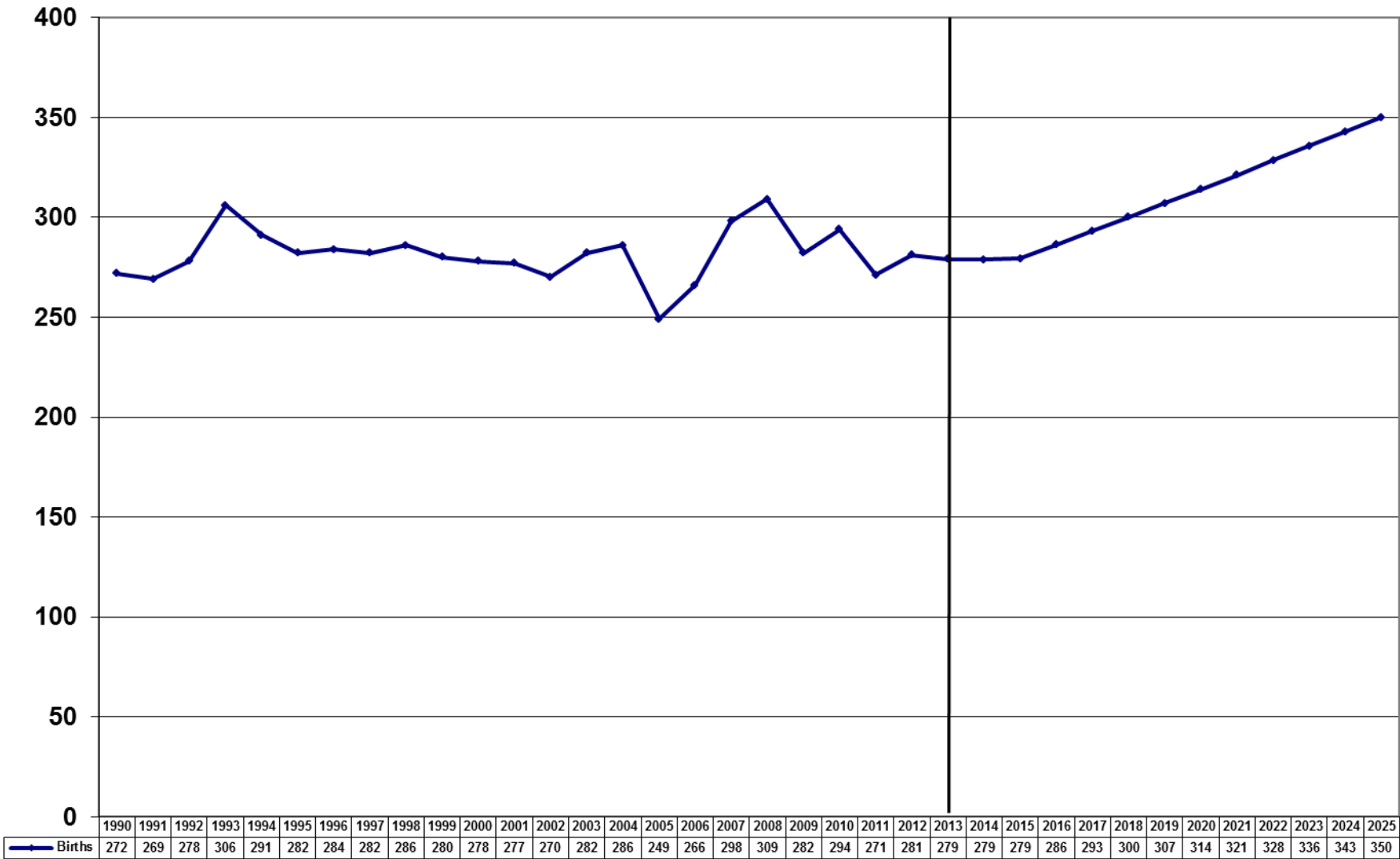
| Maternal Age  | US Census Data |        |        | U Mass Donohue Institute |        |        |        | 2011-2013 Avg<br>Fertility Rate |
|---------------|----------------|--------|--------|--------------------------|--------|--------|--------|---------------------------------|
|               | 1990           | 2000   | 2010   | 2015                     | 2020   | 2025   | 2030   |                                 |
| 10-14 Yrs     | 596            | 756    | 896    | 1,018                    | 971    | 948    | 1,089  | 0.00%                           |
| 15-19 Yrs     | 634            | 604    | 693    | 787                      | 900    | 857    | 792    | 0.00%                           |
| 20-24 Yrs     | 829            | 419    | 462    | 504                      | 599    | 683    | 639    | 0.72%                           |
| 25-29 Yrs     | 1,279          | 736    | 689    | 832                      | 926    | 1,092  | 1,235  | 5.59%                           |
| 30-34 Yrs     | 1,176          | 936    | 771    | 905                      | 1,053  | 1,147  | 1,333  | 14.73%                          |
| 35-39 Yrs     | 1,038          | 1,151  | 909    | 727                      | 828    | 930    | 1,002  | 10.25%                          |
| 40-44 Yrs     | 1,047          | 1,167  | 1,050  | 809                      | 678    | 755    | 834    | 2.64%                           |
| Total Females | 13,509         | 12,902 | 13,109 | 13,236                   | 13,634 | 14,183 | 14,800 | 2.10%                           |

### Birth Projections

| Maternal Age | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10-14 Yrs    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 15-19 Yrs    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 20-24 Yrs    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    |
| 25-29 Yrs    | 45   | 47   | 48   | 49   | 50   | 51   | 52   | 54   | 55   | 57   | 59   | 61   | 63   | 64   | 66   | 67   | 69   |
| 30-34 Yrs    | 129  | 133  | 138  | 142  | 146  | 151  | 155  | 158  | 161  | 163  | 166  | 169  | 174  | 180  | 185  | 191  | 196  |
| 35-39 Yrs    | 78   | 75   | 77   | 79   | 81   | 83   | 85   | 87   | 89   | 91   | 93   | 95   | 97   | 98   | 100  | 101  | 103  |
| 40-44 Yrs    | 23   | 21   | 21   | 20   | 19   | 19   | 18   | 18   | 19   | 19   | 20   | 20   | 20   | 21   | 21   | 22   | 22   |
| Totals       | 279  | 279  | 286  | 293  | 300  | 307  | 314  | 321  | 328  | 336  | 343  | 350  | 359  | 368  | 377  | 386  | 395  |

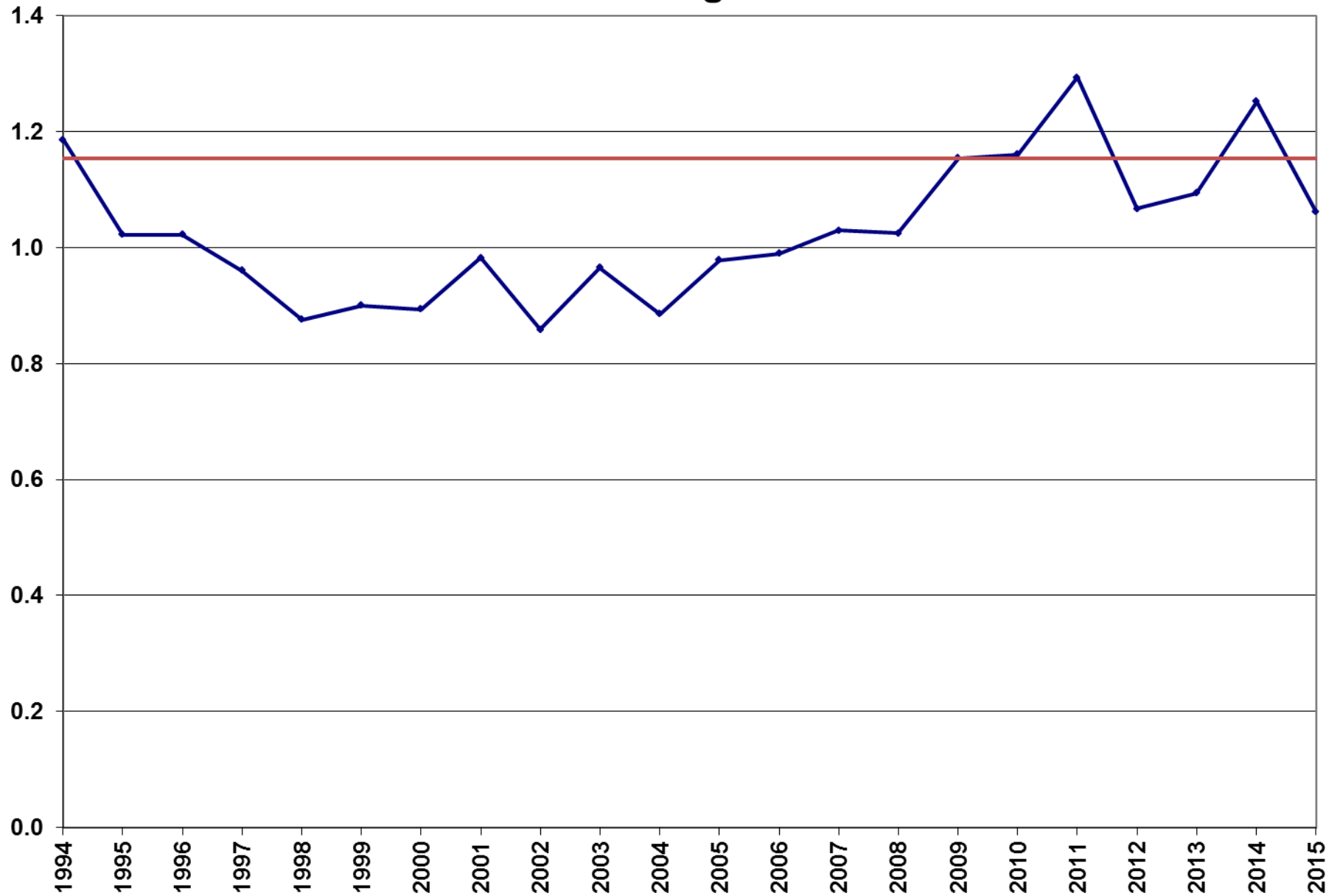
MSBA Enrollment Projection – Belmont, MA

Births



## MSBA Enrollment Projection – Belmont, MA

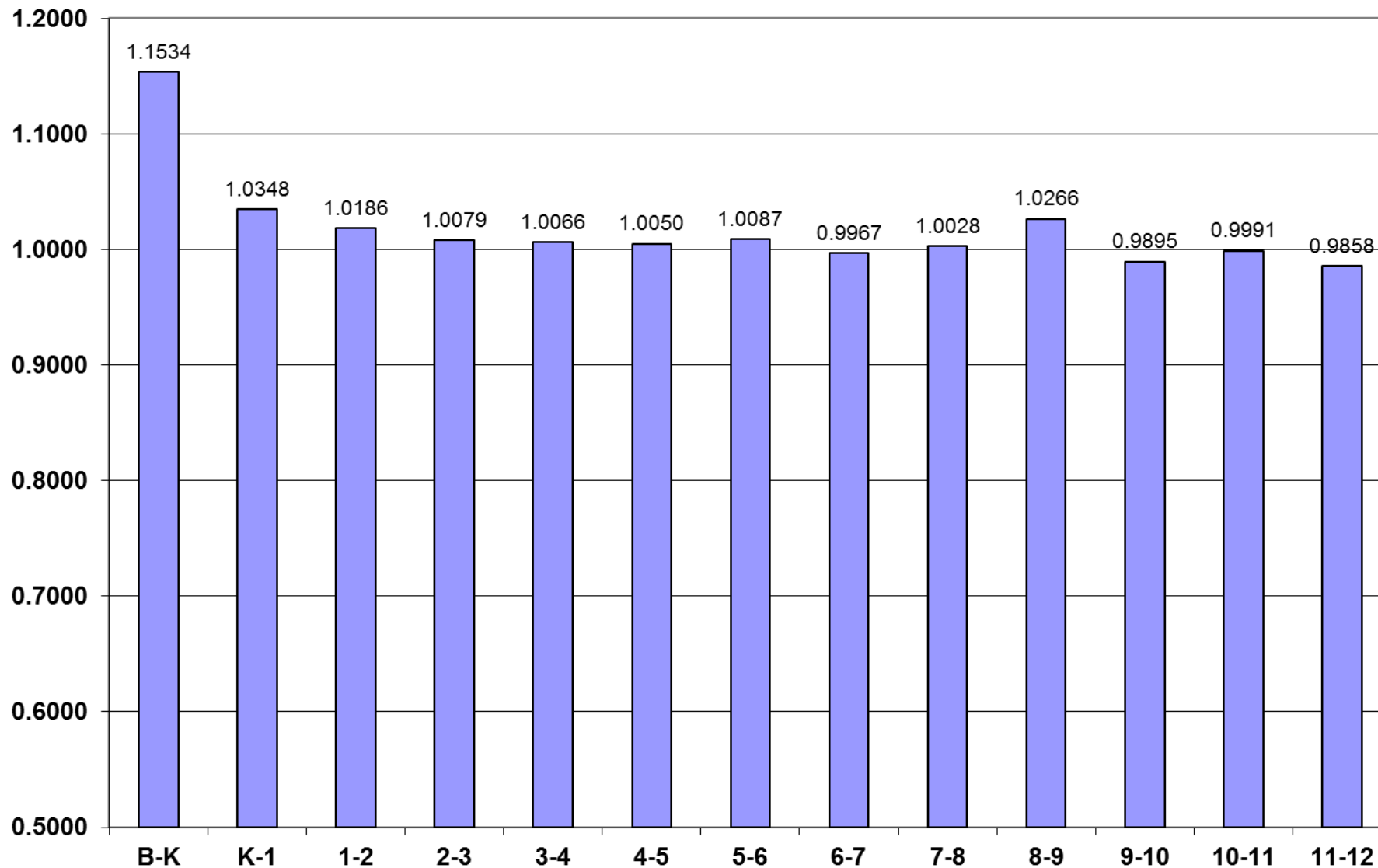
### Birth to Kindergarten Ratio





## MSBA Enrollment Projection – Belmont, MA

### Grade-to-Grade Ratios - 5 Yr Average



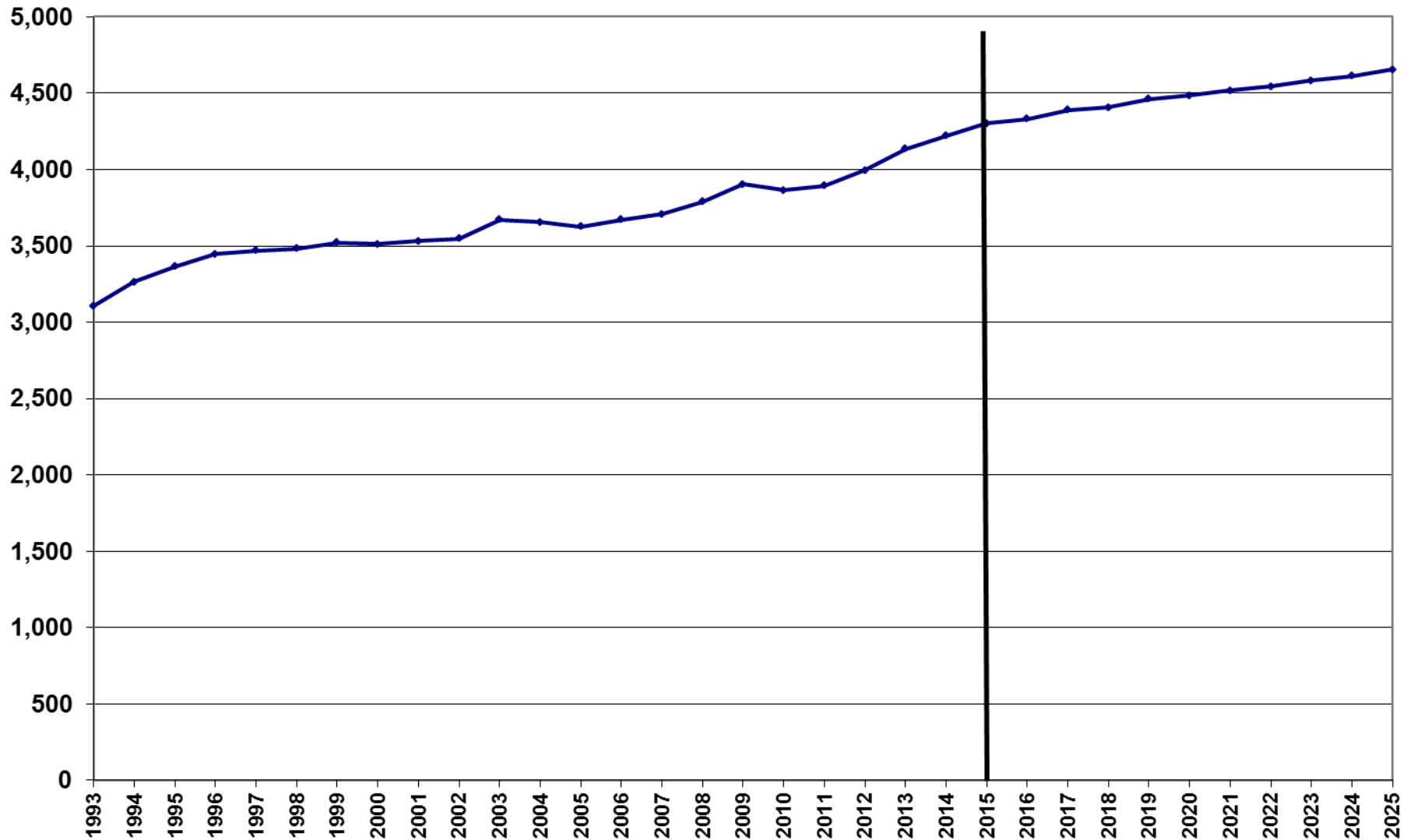
# MSBA Enrollment Projection – Belmont, MA

## Base Enrollment Projections

| YEAR       | K   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | TOTAL | K-4   | 5-8   | 9-12  |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| 1993       | 265 | 320 | 261 | 263 | 289 | 248 | 252 | 232 | 212 | 197 | 218 | 179 | 171 | 3,107 | 1,398 | 944   | 765   |
| 1994       | 294 | 292 | 302 | 268 | 255 | 293 | 252 | 254 | 235 | 226 | 192 | 216 | 184 | 3,263 | 1,411 | 1,034 | 818   |
| 1995       | 278 | 297 | 269 | 307 | 269 | 263 | 290 | 259 | 253 | 250 | 230 | 189 | 212 | 3,366 | 1,420 | 1,065 | 881   |
| 1996       | 275 | 282 | 292 | 270 | 306 | 288 | 276 | 291 | 271 | 244 | 239 | 220 | 191 | 3,445 | 1,425 | 1,126 | 894   |
| 1997       | 267 | 289 | 295 | 293 | 276 | 297 | 281 | 249 | 286 | 252 | 249 | 227 | 207 | 3,468 | 1,420 | 1,113 | 935   |
| 1998       | 268 | 278 | 286 | 307 | 298 | 271 | 299 | 259 | 251 | 269 | 240 | 239 | 217 | 3,482 | 1,437 | 1,080 | 965   |
| 1999       | 262 | 284 | 278 | 282 | 317 | 288 | 273 | 288 | 257 | 251 | 269 | 247 | 225 | 3,521 | 1,423 | 1,106 | 992   |
| 2000       | 252 | 261 | 293 | 280 | 282 | 318 | 286 | 270 | 292 | 269 | 222 | 264 | 224 | 3,513 | 1,368 | 1,166 | 979   |
| 2001       | 279 | 253 | 257 | 293 | 285 | 278 | 308 | 284 | 269 | 299 | 246 | 219 | 260 | 3,530 | 1,367 | 1,139 | 1,024 |
| 2002       | 242 | 273 | 272 | 261 | 295 | 275 | 287 | 303 | 283 | 290 | 299 | 252 | 216 | 3,548 | 1,343 | 1,148 | 1,057 |
| 2003       | 276 | 254 | 286 | 272 | 269 | 295 | 296 | 290 | 293 | 314 | 286 | 291 | 249 | 3,671 | 1,357 | 1,174 | 1,140 |
| 2004       | 248 | 272 | 251 | 275 | 274 | 273 | 306 | 284 | 293 | 309 | 298 | 287 | 285 | 3,655 | 1,320 | 1,156 | 1,179 |
| 2005       | 272 | 252 | 280 | 253 | 275 | 270 | 274 | 296 | 285 | 291 | 298 | 294 | 286 | 3,626 | 1,332 | 1,125 | 1,169 |
| 2006       | 274 | 297 | 270 | 296 | 263 | 269 | 273 | 281 | 299 | 287 | 289 | 287 | 287 | 3,672 | 1,400 | 1,122 | 1,150 |
| 2007       | 278 | 286 | 308 | 269 | 309 | 261 | 289 | 274 | 277 | 309 | 279 | 286 | 282 | 3,707 | 1,450 | 1,101 | 1,156 |
| 2008       | 289 | 306 | 285 | 318 | 291 | 296 | 270 | 296 | 278 | 295 | 294 | 291 | 282 | 3,791 | 1,489 | 1,140 | 1,162 |
| 2009       | 330 | 314 | 318 | 307 | 331 | 304 | 314 | 274 | 292 | 265 | 284 | 293 | 277 | 3,903 | 1,600 | 1,184 | 1,119 |
| 2010       | 289 | 328 | 321 | 318 | 302 | 318 | 300 | 306 | 280 | 281 | 257 | 281 | 285 | 3,866 | 1,558 | 1,204 | 1,104 |
| 2011       | 344 | 301 | 330 | 310 | 316 | 297 | 312 | 300 | 302 | 280 | 273 | 256 | 274 | 3,895 | 1,601 | 1,211 | 1,083 |
| 2012       | 318 | 350 | 313 | 346 | 307 | 324 | 296 | 318 | 302 | 308 | 280 | 276 | 256 | 3,994 | 1,634 | 1,240 | 1,120 |
| 2013       | 338 | 331 | 351 | 316 | 350 | 316 | 328 | 298 | 326 | 314 | 314 | 285 | 270 | 4,137 | 1,686 | 1,268 | 1,183 |
| 2014       | 353 | 341 | 332 | 347 | 326 | 339 | 331 | 323 | 292 | 341 | 304 | 312 | 279 | 4,220 | 1,699 | 1,285 | 1,236 |
| 2015       | 312 | 376 | 355 | 341 | 349 | 332 | 341 | 322 | 328 | 300 | 337 | 297 | 311 | 4,301 | 1,733 | 1,323 | 1,245 |
| 2016       | 313 | 323 | 383 | 358 | 343 | 351 | 335 | 340 | 323 | 337 | 297 | 337 | 293 | 4,331 | 1,720 | 1,349 | 1,264 |
| 2017       | 324 | 323 | 329 | 386 | 360 | 345 | 354 | 334 | 341 | 331 | 333 | 297 | 332 | 4,389 | 1,722 | 1,374 | 1,293 |
| 2018       | 322 | 335 | 329 | 331 | 389 | 362 | 348 | 353 | 335 | 350 | 328 | 333 | 292 | 4,407 | 1,706 | 1,398 | 1,303 |
| 2019       | 321 | 333 | 342 | 332 | 334 | 391 | 365 | 347 | 354 | 344 | 346 | 328 | 328 | 4,464 | 1,662 | 1,457 | 1,346 |
| 2020       | 322 | 333 | 339 | 344 | 334 | 335 | 394 | 364 | 348 | 363 | 340 | 346 | 323 | 4,486 | 1,672 | 1,441 | 1,372 |
| 2021       | 330 | 333 | 339 | 342 | 347 | 336 | 338 | 393 | 365 | 357 | 359 | 340 | 341 | 4,519 | 1,691 | 1,432 | 1,397 |
| 2022       | 338 | 342 | 340 | 341 | 344 | 348 | 339 | 337 | 394 | 375 | 353 | 359 | 335 | 4,545 | 1,705 | 1,418 | 1,422 |
| 2023       | 346 | 350 | 348 | 342 | 344 | 346 | 351 | 338 | 338 | 404 | 371 | 353 | 354 | 4,585 | 1,730 | 1,373 | 1,482 |
| 2024       | 354 | 358 | 356 | 351 | 344 | 345 | 349 | 350 | 339 | 347 | 400 | 370 | 348 | 4,612 | 1,763 | 1,383 | 1,465 |
| 2025       | 362 | 366 | 365 | 359 | 353 | 346 | 348 | 348 | 351 | 348 | 343 | 400 | 365 | 4,655 | 1,805 | 1,393 | 1,456 |
| 10 yr avg  | 313 | 323 | 318 | 317 | 314 | 306 | 305 | 299 | 298 | 298 | 291 | 286 | 280 | 3,949 | 1,585 | 1,208 | 1,156 |
| 5 yr avg   | 333 | 340 | 336 | 332 | 330 | 322 | 322 | 312 | 310 | 309 | 302 | 285 | 278 | 4,109 | 1,652 | 1,255 | 1,162 |
| 2 yr avg   | 333 | 359 | 344 | 344 | 338 | 336 | 336 | 323 | 310 | 321 | 321 | 305 | 295 | 4,261 | 1,716 | 1,304 | 1,241 |
| 5 yr proj  | 320 | 329 | 344 | 350 | 352 | 357 | 359 | 347 | 340 | 345 | 329 | 328 | 314 | 4,415 | 1,696 | 1,404 | 1,316 |
| 10 yr proj | 333 | 340 | 347 | 349 | 349 | 351 | 352 | 350 | 349 | 356 | 347 | 346 | 331 | 4,499 | 1,718 | 1,402 | 1,380 |

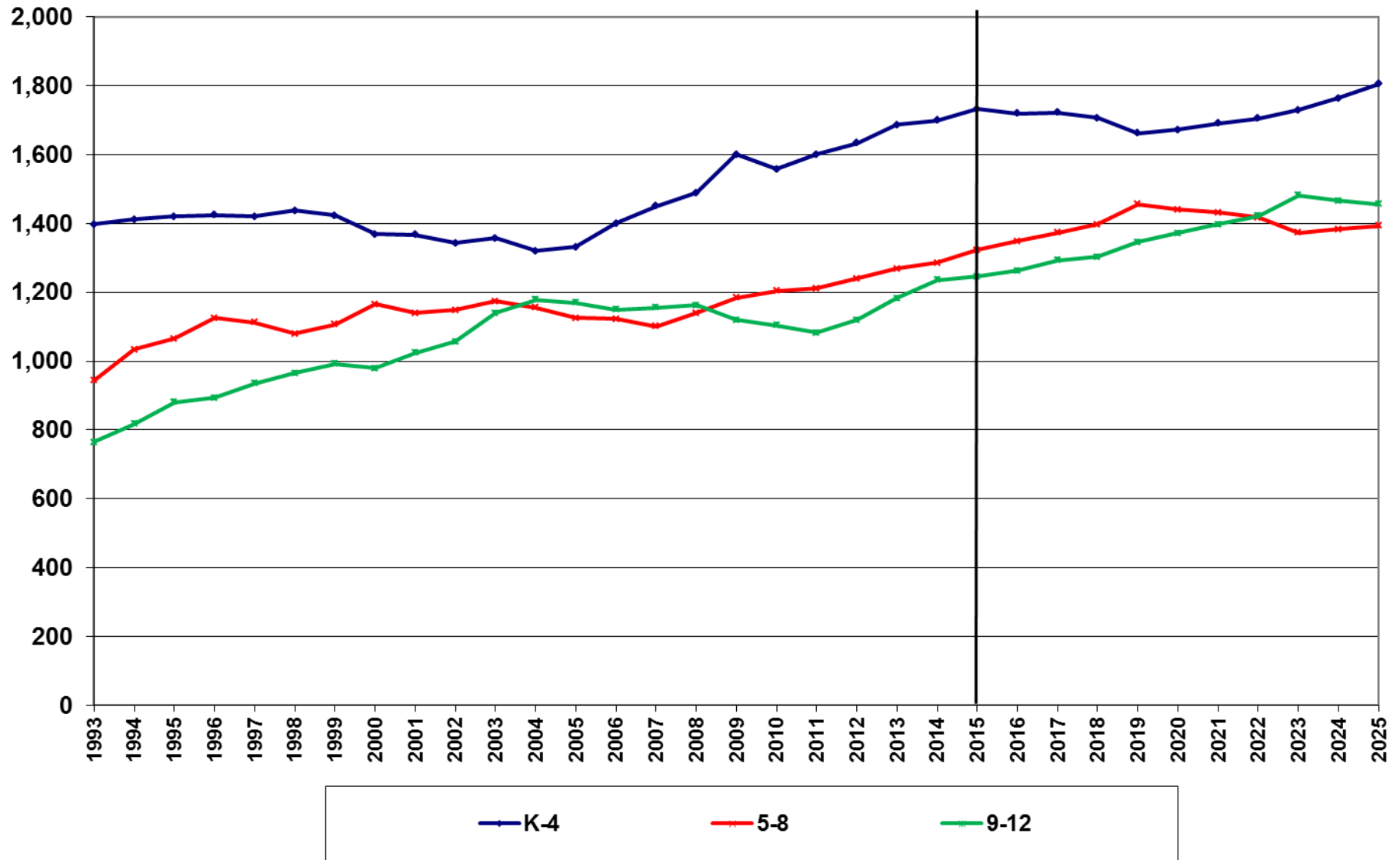
## MSBA Enrollment Projection – Belmont, MA

### Total Enrollment



## MSBA Enrollment Projection – Belmont, MA

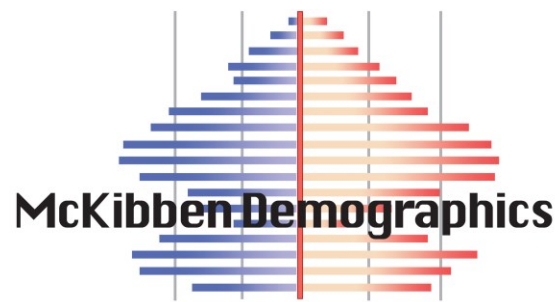
### Enrollment by Grade Group





**Belmont Public Schools**  
**Demographic Study**

**June 2016**



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### Executive Summary

1. The Belmont Public School's residence fertility rates over the life of the forecasts are below replacement levels. (1.79 vs. replacement level of 2.1)
2. Most of the in-migration to the district continues to occur in the 0-to-9 and 25-to-44 age groups.
3. The local 18-to-24 year old population continues to leave the district, going to college or moving to other urbanized areas. This population accounts for the largest segment of the district's out migration flow.
4. The primary factor causing the district's enrollment to grow is the construction of new housing units in the district coupled with a strong level of in-migration of young households/families.
5. Changes in year-to-year enrollment (at least for the next five years) will primarily be due to large cohorts entering and moving through the system in conjunction with smaller cohorts leaving the system.
6. The elementary enrollment will experience a slight annual decline after 2023.
7. The median age of the district population will increase from 41.5 in 2010 to 44.2 in 2025.
8. As the district continues to have a modest level of new home construction, (as compared to the 2001-2007 time period) the rate and magnitude of existing home sales will become the increasingly dominant factor affecting the amount of population and enrollment change
9. Total enrollment is projected to increase by 296 students, or 6.7%, between 2015-16 and 2020-21. Total enrollment will grow by 204 students, or 4.3%, from 2020-21 to 2025-26.

## INTRODUCTION

By demographic principle, distinctions are made between projections and forecasts. A projection extrapolates the past (and present) into the future with little or no attempt to take into account any factors that may impact the extrapolation (e.g., changes in fertility rates, housing patterns or migration patterns) while a forecast results when a projection is modified by reasoning to take into account the aforementioned factors.

To maximize the use of this study as a planning tool, the ultimate goal is not simply to project the past into the future, but rather to assess various factors' impact on the future. The future population and enrollment change of each school district is influenced by a variety of factors. Not all factors will influence the entire school district at the same level. Some may affect different areas at dissimilar magnitudes and rates causing changes at varying points of time within the same district. The forecaster's judgment, based on a thorough and intimate study of the district, has been used to modify the demographic trends and factors to more accurately predict likely changes. Therefore, strictly speaking, this study is a forecast, not a projection; and the amount of modification of the demographic trends varies between different areas of the district as well as within the timeframe of the forecast.

To calculate population forecasts of any type, particularly for smaller populations such as a school district, realistic suppositions must be made as to what the future will bring in terms of age specific fertility rates and residents' demographic behavior at certain points of the life course. The demographic history of the school district and its interplay with the social and economic history of the area is the starting point and basis of most of these suppositions particularly on key factors such as the age structure of the area. The unique nature of each district's and attendance area's demographic composition and rate of change over time must be assessed and understood to be factors throughout the life of the forecast series. Moreover, no two populations, particularly at the school district and attendance area level, have exactly the same characteristics.

The manifest purpose of these forecasts is to ascertain the demographic factors that will ultimately influence the enrollment levels in the district's schools.

There are of course, other non-demographic factors that affect enrollment levels over time. These factors include, but are not limited to transfer policies within the district; student transfers to and from neighboring districts; placement of "special programs" within school facilities that may serve students from outside the attendance area; state or federal mandates that dictate the movement of students from one facility to another (No Child Left Behind was an excellent example of this factor); the development of charter schools in the district; the prevalence of home schooling in the area; and the dynamics of local private schools.

Unless the district specifically requests the calculation of forecasts that reflect the effects of changes in these non-demographic factors, their influences are held constant for the life of the forecasts. Again, the main function of these forecasts is to determine what impact demographic changes will have on future enrollment. It is quite possible to calculate special "scenario" forecasts to measure the impact of school policy modifications as well as planned economic and financial changes. However in this case the results of these population and enrollment forecast are meant to represent the most likely scenario for changes over the next 10 years in the district and its attendance areas.

The first part of the report will examine the assumptions made in calculating the population forecasts for the Belmont Public Schools. Since the results of the population forecasts drive the subsequent enrollment forecasts, the assumptions listed in this section are paramount to understanding the area's demographic dynamics. The remainder of the report is an explanation and analysis of the district's population forecasts and how they will shape the district's grade level enrollment forecasts.

## DATA

The data used for the forecasts come from a variety of sources. The Belmont Public Schools provided enrollments by grade and attendance center for the school years 2010-2011 to 2015-16. Birth and death data for the years 2000 through 2013 were obtained from the Massachusetts Department of Health. The net migration values were calculated using Internal Revenue Service migration reports for the years 2000 through 2012. The data used for the calculation of migration models came from the United States Bureau of the Census, 2005 to 2010, and the models were designed using demographic

and economic factors. The base age-sex population counts used are from the results of the 2010 Census.

Recently the Census Bureau began releasing annual estimates of demographic variables at the block group and tract level from the American Community Survey (ACS). There has been wide scale reporting of these results in the national, state and local media. However, due to the methodological problems the Census Bureau is experiencing with their estimates derived from ACS data, particularly in areas with a population of less than 60,000, the results of the ACS are not used in these forecasts. For example, given the sampling framework used by the Census Bureau, each year only 300 of the over 9,700 current households in the district would have been included. For comparison 1,600 households in the district were included in the sample for the long form questionnaire in the 2000 Census. As a result of this small sample size, the ACS survey results from the last 5 years must be aggregated to produce the tract and block group estimates.

To develop the population forecast models, past migration patterns, current age specific fertility patterns, the magnitude and dynamics of the gross migration, the age specific mortality trends, the distribution of the population by age and sex, the rate and type of existing housing unit sales, and future housing unit construction are considered to be primary variables. In addition, the change in household size relative to the age structure of the forecast area was addressed. While there was a slight drop in the average household size in the Belmont Public Schools as well as most other areas of the state during the previous 20 years, the rate of this decline has been forecasted to slow over the next ten years.

## ASSUMPTIONS

For these forecasts, the mortality probabilities are held constant at the levels calculated for the year 2010. While the number of deaths in an area are impacted by and will change given the proportion of the local population over age 65, in the absence of an extraordinary event such as a natural disaster or a breakthrough in the treatment of heart disease, death rates rarely move rapidly in any direction, particularly at the school district or attendance area level. Thus, significant changes are not foreseen in district's mortality rates between now and the year 2025. Any increases forecasted in the number of deaths will be due primarily to the general aging of the district's population

and specifically to the increase in the number of residents aged 65 and older.

Similarly, fertility rates are assumed to stay fairly constant for the life of the forecasts. Like mortality rates, age specific fertility rates rarely change quickly or dramatically, particularly in small areas. Even with the recently reported rise in the fertility rates of the United States, overall fertility rates have stayed within a 10% range for most of the last 40 years. In fact, the vast majority of year to year change in an area's number of births is due to changes in the number of women in child bearing ages (particularly ages 20-29) rather than any fluctuation in an area's fertility rate.

The total fertility rate (TFR), the average number of births a woman will have while living in the school district during her lifetime, is estimated to be 1.79 for the total district for the ten years of the population forecasts. A TFR of 2.1 births per woman is considered to be the theoretical "replacement level" of fertility necessary for a population to remain constant in the absence of in-migration. Therefore, in the absence of migration, fertility alone would be insufficient to maintain the current level of population and enrollment within the Belmont Public Schools over the course of the forecast period.

A close examination of data for the Belmont Public Schools has shown the age specific pattern of net migration will be nearly constant throughout the life of the forecasts. While the number of in and out migrants has changed in past years for the Belmont Public Schools (and will change again over the next 10 years), the basic age pattern of the migrants has stayed nearly the same over the last 30 years. Based on the analysis of data it is safe to assume this age specific migration trend will remain unchanged into the future. This pattern of migration shows most of the local out-migration occurring in the 18-to-24 year old age group as young adults leave the area to go to college or move to other urbanized areas. The second group of out-migrants is those householders aged 70 and older who are downsizing their residences. Most of the local in-migration occurs in the 0-to-9 and 25-44 age groups (the bulk of the which come from areas within 75 miles of the Belmont Public Schools) primarily consisting of younger adults and their children.

As the Middlesex County area is not currently contemplating any major expansions or contractions, the forecasts also assume that the current economic, political, social, and environmental factors, as well as the

transportation and public works infrastructure (with a few notable exceptions) of the Belmont Public Schools and its attendance areas will remain the same through the year 2025. Below is a list of assumptions and issues that are specific to the Belmont Public Schools. These issues have been used to modify the population forecast models to more accurately predict the impact of these factors on each area's population change. Specifically, the forecasts for the Belmont Public Schools assume that throughout the study period:

- a. There will be no short term economic recovery in the next 18 months and the national, state or regional economy does not go into deep recession at any time during the 10 years of the forecasts; (Deep recession is defined as four consecutive quarters where the GDP contracts greater than 1% per quarter)
- b. Interest rates have reached a historic low and will not fluctuate more than one percentage point in the short term; the interest rate for a 30 year fixed home mortgage stays below 5.0%;
- c. The rate of mortgage approval stays at 1999-2003 levels and lenders do not return to "sub-prime" mortgage practices;
- d. There are no additional restrictions placed on home mortgage lenders or additional bankruptcies of major credit providers;
- e. The rate of housing foreclosures does not exceed 125% of the 2005-2007 average of Middlesex County for any year in the forecasts;
- f. All currently planned, platted, and approved housing developments are built out and completed by 2024. All housing units constructed are occupied by 2025;
- g. The unemployment rates for the Middlesex County and the Boston Metropolitan Area will remain below 7.0% for the 10 years of the forecasts;
- h. The rate of students transferring into and out of the Belmont Public Schools will remain at the 2011-12 to 2015-16 average;
- i. The Residences at Acorn Park will be completed by the end of 2017 and by at least 95% occupied by December 31, 2017
- j. The inflation rate for gasoline will stay below 5% per year for the 10 years of the forecasts;
- k. There will be no building moratorium within the district;

- l. Businesses within the district and the Belmont Public Schools area will remain viable;
- m. The number of existing home sales in the district that are a result of "distress sales" (homes worth less than the current mortgage value) will not exceed 20% of total homes sales in the district for any given year;
- n. Housing turnover rates (sale of existing homes in the district) will remain at their current levels. The majority of existing home sales are made by home owners over the age of 60;
- o. Private school and home school attendance rates will remain constant;
- p. The rate of foreclosures for commercial property remains at the 2004-2008 average for Middlesex County;

If a major employer in the district or in the Greater Boston Metropolitan Area closes, reduces or expands its operations, the population forecasts would need to be adjusted to reflect the changes brought about by the change in economic and employment conditions. The same holds true for any type of natural disaster, major change in the local infrastructure (e.g., highway construction, water and sewer expansion, changes in zoning regulations etc.), a further economic downturn, any additional weakness in the housing market or any instance or situation that causes rapid and dramatic population changes that could not be foreseen at the time the forecasts were calculated.

The high proportion of high school graduates from the Belmont Public Schools that attend college or move to urban areas outside of the district for employment is a significant demographic factor. Their departure is a major reason for the extremely high out-migration in the 18 to 24 age group, and was taken into account when calculating these forecasts. The out-migration of graduating high school seniors is expected to continue over the period of the forecasts and the rate of out-migration has been forecasted to remain the same over the life of the forecast series.

Finally, all demographic trends (i.e., births, deaths, and migration) are assumed to be linear in nature and annualized over the forecast period. For example, if 1,000 births are forecasted for a 5-year period, an equal number, or proportion of the births are assumed to occur every year, 200 per year. Actual year-to-year variations do and will occur, but overall year to year trends are expected to be constant.

## METHODOLOGY

The population forecasts presented in this report are the result of using the Cohort-Component Method of population forecasting (Siegel, and Swanson, 2004: 561-601) (Smith et. al. 2004). As stated in the **INTRODUCTION**, the difference between a projection and a forecast is in the use of explicit judgment based upon the unique features of the area under study. Strictly speaking, a cohort projection refers to the future population that would result if a mathematical extrapolation of historical trends. Conversely, a cohort-component forecast refers to the future population that is expected because of a studied and purposeful selection of the components of change (i.e., births, deaths, and migration) and forecast models are developed to measure the impact of these changes in each specific geographic area.

Five sets of data are required to generate population and enrollment forecasts. These five data sets are:

1. a base-year population (here, the 2010 Census population for Belmont Public Schools and its attendance areas);
2. a set of age-specific fertility rates for the district to be used over the forecast period and its attendance areas;
3. a set of age-specific survival (mortality) rates for the district and its attendance areas;
4. a set of age-specific migration rates for the district and its attendance areas; and;
5. the historical enrollment figures by grade.

The most significant and difficult aspect of producing enrollment forecasts is the generation of the population forecasts in which the school age population (and enrollment) is embedded. In turn, the most challenging aspect of generating the population forecasts is found in deriving the rates of change in fertility, mortality, and migration. From the standpoint of demographic analysis, the Belmont Public Schools is classified as a "small area" population (as compared to the population of the state of Massachusetts or to that of the United States). Small area population forecasts are more complicated to calculate because local variations in fertility, mortality, and migration may be more irregular than those at the regional, state or national scale. Especially challenging is the forecast of the migration rates for local areas, because changes in the area's

socioeconomic characteristics can quickly change from past and current patterns (Peters and Larkin, 2002.)

The population forecasts for Belmont Public Schools were calculated using a cohort-component method with the populations divided into male and female groups by five-year age cohorts that range from 0-to-4 years of age to 85 years of age and older (85+). Age- and sex-specific fertility, mortality, and migration models were constructed to specifically reflect the unique demographic characteristics of each of the attendance areas in the Belmont Public Schools.

The enrollment forecasts were calculated using a modified average survivorship method. Average survivor rates (i.e., the proportion of students who progress from one grade level to the next given the average amount of net migration for that grade level) over the previous five years of year-to-year enrollment data were calculated for grades two through twelve. This procedure is used to identify specific grades where there are large numbers of students changing facilities for non-demographic factors, such as private school transfers or enrollment in special programs.

The survivorship rates were modified or adjusted to reflect the average rate of forecasted in and out migration of 5-to-9, 10-to-14 and 15-to-17 year old cohorts to each of the attendance centers in Belmont Public Schools for the period 2010 to 2015. These survivorship rates then were adjusted to reflect the forecasted changes in age-specific migration the district should experience over the next five years. These modified survivorship rates were used to project the enrollment of grades 2 through 12 for the period 2015 to 2020. The survivorship rates were adjusted again for the period 2020 to 2025 to reflect the predicted changes in the amount of age-specific migration in the district for the period.

The forecasted enrollments for kindergarten and first grade are derived from the 5-to-9 year old population of the age-sex population forecast at the elementary attendance center district level. This procedure allows the changes in the incoming grade sizes to be factors of forecasted population change and not an extrapolation of previous class sizes. Given the potentially large amount of variation in Kindergarten enrollment due to parental choice, changes in the state's minimum age requirement, and differing district policies on allowing children to start Kindergarten early, first grade enrollment is deemed to be a more accurate and reliable starting point for the forecasts. (McKibben,



1996) The level of the accuracy for both the population and enrollment forecasts at the school district level is estimated to be  $\pm 2.0\%$  for the life of the forecasts.

## REFERENCES

- McKibben, J.  
The Impact of Policy Changes on Forecasting for School Districts. Population Research and Policy Review, Vol. 15, No. 5-6, December 1996
- McKibben, J., M. Gann, and K. Faust.  
The Baby Boomlet's Role in Future College Enrollment. American Demographics, June 1999.
- Peters, G. and R. Larkin  
Population Geography. 7<sup>th</sup> Edition. Dubuque, IA: Kendall Hunt Publishing. 2002.
- Siegel, J. and D. Swanson  
The Methods and Materials of Demography: Second Edition, Academic Press: New York, New York. 2004.
- Smith, S., J. Tayman and D. Swanson  
State and Local Population Projections, Academic Press, New York, New York. 2001.



Appendix A: Census Data

**Table 1: Forecasted Elementary Area Population Change, 2010 to 2020**

|                | 2010   | 2015   | 2010-2015<br>Change | 2020   | 2015-2020<br>Change | 2010-2020<br>Change |
|----------------|--------|--------|---------------------|--------|---------------------|---------------------|
| Burbank        | 3,548  | 3,610  | 1.7%                | 3,640  | 0.8%                | 2.6%                |
| Butler         | 6,010  | 6,170  | 2.6%                | 6,280  | 1.8%                | 4.5%                |
| Wellington     | 8,859  | 9,110  | 2.8%                | 9,190  | 0.9%                | 3.7%                |
| Winn Brook     | 6,313  | 6,330  | 0.3%                | 6,660  | 5.2%                | 5.5%                |
| District Total | 24,729 | 25,220 | 1.9%                | 25,770 | 2.2%                | 4.2%                |

**Table 2: Household Characteristics by Elementary Districts, 2010 Census**

|                | HH w/ Pop<br>Under 18 | % HH w/<br>Pop Under<br>18 | Total<br>Households | Household<br>Population | Persons Per<br>Household |
|----------------|-----------------------|----------------------------|---------------------|-------------------------|--------------------------|
| Burbank ES     | 529                   | 42.3%                      | 1251                | 3548                    | 2.84                     |
| Butler ES      | 751                   | 29.8%                      | 2519                | 6010                    | 2.32                     |
| Wellington ES  | 1282                  | 36.4%                      | 3523                | 8859                    | 2.50                     |
| Winn Brook ES  | 873                   | 37.0%                      | 2357                | 6312                    | 2.68                     |
| District Total | 3435                  | 35.6%                      | 9650                | 24729                   | 2.54                     |

**Table 3: Householder Characteristics by Elementary Districts, 2010 Census**

|                | Percentage of<br>Householders aged<br>35-54 | Percentage of<br>Householders aged 65+ | Percentage of<br>Householders Who<br>Own Homes |
|----------------|---|--|--|
| Burbank ES     | 44.6%                                       | 27.8%                                  | 80.6%  |
| Butler ES      | 42.6%                                       | 21.9%                                  | 45.4%  |
| Wellington ES  | 44.5%                                       | 22.4%                                  | 58.4%  |
| Winn Brook ES  | 40.5%                                       | 34.0%                                  | 80.4%  |
| District Total | 43.0%                                       | 25.8%                                  | 63.3%  |

**Table 4: Single Person Households and Single Person Households  
over age 65 by Elementary Districts, 2010 Census**

|                | Percentage of Single<br>Person Households | Percentage of Single Person<br>Households and are 65+ |
|----------------|---|---|
| Burbank ES     | 15.60%                                    | 6.01%   |
| Butler ES      | 30.72%                                    | 19.07%  |
| Wellington ES  | 23.88%                                    | 14.76%  |
| Winn Brook ES  | 22.17%                                    | 8.16%   |
| District Total | 24.17%                                    | 13.14%  |

**Table 5: Total Elementary Enrollment, (K-4) 2010, 2015, 2020**

|                | 2010  | 2015  | 2010-2015<br>Change | 2020  | 2015-2020<br>Change | 2010-2020<br>Change |
|----------------|-------|-------|---------------------|-------|---------------------|---------------------|
| Burbank ES     | 327   | 343   | 4.9%                | 329   | -4.1%               | 0.6%                |
| Butler ES      | 361   | 363   | 0.6%                | 378   | 4.1%                | 4.7%                |
| Wellington ES  | 434   | 572   | 31.8%               | 580   | 1.4%                | 33.6%               |
| Winn Brook ES  | 444   | 456   | 2.7%                | 503   | 10.3%               | 13.3%               |
| District Total | 1,566 | 1,734 | 10.7%               | 1,799 | 3.7%                | 14.9%               |

**Table 6: Age Under One to Age Ten Population Counts, by Year of Age,  
by Elementary Attendance Area: 2010 Census**

|                | Under 1<br>year | 1 year | 2 years | 3 years | 4 years | 5 years | 6 years | 7 years | 8 years | 9 years | 10 years |
|----------------|-----------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| Burbank ES     | 26              | 42     | 37      | 51      | 35      | 52      | 50      | 61      | 46      | 63      | 69       |
| Butler ES      | 93              | 96     | 64      | 78      | 85      | 72      | 76      | 69      | 66      | 65      | 56       |
| Wellington ES  | 107             | 129    | 121     | 116     | 122     | 128     | 116     | 143     | 109     | 126     | 125      |
| Winn Brook ES  | 64              | 62     | 67      | 85      | 72      | 92      | 92      | 92      | 102     | 100     | 109      |
| District Total | 290             | 329    | 290     | 331     | 314     | 344     | 334     | 365     | 323     | 354     | 360      |

**Table 7: Comparison of District Enrollment by Grade with 2010 Census Counts by Age, 2010-2015**

| 2010 Census                       | Under 1<br>year | 1 year     | 2 years    | 3 years    | 4 years    | 5 years    | 6 years    | 7 years    | 8 years    | 9 years    | 10 years   | 11 years   | 12 years   |
|-----------------------------------|-----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Belmont Public<br/>Schools</b> | <b>290</b>      | <b>329</b> | <b>290</b> | <b>331</b> | <b>314</b> | <b>344</b> | <b>334</b> | <b>365</b> | <b>323</b> | <b>354</b> | <b>360</b> | <b>346</b> | <b>361</b> |
| 2015 Enrollment                   | 313             | 376        | 355        | 341        | 349        | 332        | 341        | 322        | 328        | 300        | 337        | 298        | 311        |
|                                   | 107.93%         | 114.29%    | 122.41%    | 103.02%    | 111.15%    | 96.51%     | 102.10%    | 88.22%     | 101.55%    | 84.75%     | 93.61%     | 86.13%     | 86.15%     |
| 2014 Enrollment                   |                 | 341        | 332        | 347        | 326        | 339        | 331        | 323        | 292        | 341        | 304        | 311        | 281        |
|                                   |                 | 103.65%    | 114.48%    | 104.83%    | 103.82%    | 98.55%     | 99.10%     | 88.49%     | 90.40%     | 96.33%     | 84.44%     | 89.88%     | 77.84%     |
| 2013 Enrollment                   |                 |            | 351        | 316        | 350        | 316        | 328        | 298        | 326        | 314        | 314        | 285        | 270        |
|                                   |                 |            | 121.03%    | 95.47%     | 111.46%    | 91.86%     | 98.20%     | 81.64%     | 100.93%    | 88.70%     | 87.22%     | 82.37%     | 74.79%     |
| 2012 Enrollment                   |                 |            |            | 346        | 307        | 324        | 296        | 318        | 302        | 307        | 281        | 276        | 256        |
|                                   |                 |            |            | 104.53%    | 97.77%     | 94.19%     | 88.62%     | 87.12%     | 93.50%     | 86.72%     | 78.06%     | 79.77%     | 70.91%     |
| 2011 Enrollment                   |                 |            |            |            | 316        | 297        | 312        | 301        | 302        | 280        | 273        | 256        | 275        |
|                                   |                 |            |            |            | 100.64%    | 86.34%     | 93.41%     | 82.47%     | 93.50%     | 79.10%     | 75.83%     | 73.99%     | 76.18%     |
| 2010 Enrollment                   |                 |            |            |            |            | 317        | 301        | 306        | 281        | 285        | 256        | 280        | 285        |
|                                   |                 |            |            |            |            | 92.15%     | 90.12%     | 83.84%     | 87.00%     | 80.51%     | 71.11%     | 80.92%     | 78.95%     |

## Appendix B: Population Forecasts

### Belmont Public Schools: Total Population

| Males        | 2010          | 2015          | 2020          | 2025          |
|--------------|---------------|---------------|---------------|---------------|
| 0-4          | 829           | 770           | 810           | 730           |
| 5-9          | 833           | 950           | 950           | 930           |
| 10-14        | 840           | 850           | 970           | 960           |
| 15-19        | 779           | 750           | 740           | 880           |
| 20-24        | 430           | 540           | 450           | 490           |
| 25-29        | 583           | 460           | 610           | 490           |
| 30-34        | 631           | 660           | 600           | 660           |
| 35-39        | 792           | 720           | 770           | 650           |
| 40-44        | 954           | 800           | 770           | 770           |
| 45-49        | 957           | 940           | 800           | 760           |
| 50-54        | 927           | 940           | 920           | 770           |
| 55-59        | 749           | 890           | 910           | 890           |
| 60-64        | 639           | 680           | 820           | 820           |
| 65-69        | 518           | 550           | 540           | 700           |
| 70-74        | 382           | 420           | 400           | 450           |
| 75-79        | 330           | 360           | 380           | 370           |
| 80-84        | 227           | 350           | 370           | 410           |
| 85+          | 220           | 220           | 280           | 330           |
| <b>Total</b> | <b>11,620</b> | <b>11,850</b> | <b>12,090</b> | <b>12,060</b> |

| Females      | 2010          | 2015          | 2020          | 2025          |
|--------------|---------------|---------------|---------------|---------------|
| 0-4          | 725           | 750           | 790           | 710           |
| 5-9          | 887           | 830           | 920           | 910           |
| 10-14        | 896           | 910           | 880           | 930           |
| 15-19        | 693           | 810           | 800           | 780           |
| 20-24        | 462           | 450           | 510           | 560           |
| 25-29        | 689           | 500           | 530           | 550           |
| 30-34        | 771           | 750           | 630           | 590           |
| 35-39        | 909           | 860           | 880           | 700           |
| 40-44        | 1,050         | 920           | 920           | 900           |
| 45-49        | 1,068         | 1,040         | 910           | 920           |
| 50-54        | 1,060         | 1,050         | 1,030         | 900           |
| 55-59        | 907           | 1,040         | 1,030         | 1,000         |
| 60-64        | 769           | 850           | 970           | 970           |
| 65-69        | 618           | 700           | 740           | 900           |
| 70-74        | 434           | 550           | 580           | 670           |
| 75-79        | 380           | 400           | 500           | 540           |
| 80-84        | 365           | 490           | 510           | 650           |
| 85+          | 426           | 470           | 550           | 620           |
| <b>Total</b> | <b>13,109</b> | <b>13,370</b> | <b>13,680</b> | <b>13,800</b> |

| Total             | 2010          | 2015          | 2020          | 2025          |
|-------------------|---------------|---------------|---------------|---------------|
| 0-4               | 1,554         | 1,520         | 1,600         | 1,440         |
| 5-9               | 1,720         | 1,780         | 1,870         | 1,840         |
| 10-14             | 1,736         | 1,760         | 1,850         | 1,890         |
| 15-19             | 1,472         | 1,560         | 1,540         | 1,660         |
| 20-24             | 892           | 990           | 960           | 1,050         |
| 25-29             | 1,272         | 960           | 1,140         | 1,040         |
| 30-34             | 1,402         | 1,410         | 1,230         | 1,250         |
| 35-39             | 1,701         | 1,580         | 1,650         | 1,350         |
| 40-44             | 2,004         | 1,720         | 1,690         | 1,670         |
| 45-49             | 2,025         | 1,980         | 1,710         | 1,680         |
| 50-54             | 1,987         | 1,990         | 1,950         | 1,670         |
| 55-59             | 1,656         | 1,930         | 1,940         | 1,890         |
| 60-64             | 1,408         | 1,530         | 1,790         | 1,790         |
| 65-69             | 1,136         | 1,250         | 1,280         | 1,600         |
| 70-74             | 816           | 970           | 980           | 1,120         |
| 75-79             | 710           | 760           | 880           | 910           |
| 80-84             | 592           | 840           | 880           | 1,060         |
| 85+               | 646           | 690           | 830           | 950           |
| <b>Total</b>      | <b>24,729</b> | <b>25,220</b> | <b>25,770</b> | <b>25,860</b> |
| <b>Median Age</b> | <b>41.5</b>   | <b>43.1</b>   | <b>43.1</b>   | <b>44.2</b>   |

|                         | 2010 to 2015 | 2015 to 2020 | 2020 to 2025 |
|-------------------------|--------------|--------------|--------------|
| <b>Births</b>           | 1,180        | 1,090        | 1,020        |
| <b>Deaths</b>           | 1,000        | 1,180        | 1,250        |
| <b>Natural Increase</b> | 180          | -90          | -230         |
| <b>Net Migration</b>    | 330          | 650          | 330          |
| <b>Change</b>           | 510          | 560          | 100          |

Differences between period Totals may not equal Change due to rounding.

### Burbank Elementary

| Males        | 2010         | 2015         | 2020         | 2025         |
|--------------|--------------|--------------|--------------|--------------|
| 0-4          | 94           | 100          | 100          | 90           |
| 5-9          | 138          | 150          | 160          | 150          |
| 10-14        | 151          | 140          | 150          | 160          |
| 15-19        | 127          | 130          | 120          | 140          |
| 20-24        | 56           | 50           | 50           | 50           |
| 25-29        | 64           | 60           | 50           | 60           |
| 30-34        | 60           | 80           | 80           | 60           |
| 35-39        | 96           | 90           | 110          | 100          |
| 40-44        | 131          | 100          | 100          | 110          |
| 45-49        | 132          | 130          | 100          | 100          |
| 50-54        | 161          | 130          | 130          | 100          |
| 55-59        | 127          | 150          | 120          | 120          |
| 60-64        | 88           | 110          | 140          | 110          |
| 65-69        | 93           | 70           | 90           | 110          |
| 70-74        | 65           | 70           | 50           | 70           |
| 75-79        | 46           | 60           | 60           | 50           |
| 80-84        | 24           | 50           | 60           | 70           |
| 85+          | 27           | 30           | 40           | 50           |
| <b>Total</b> | <b>1,681</b> | <b>1,700</b> | <b>1,710</b> | <b>1,700</b> |

| Females      | 2010         | 2015         | 2020         | 2025         |
|--------------|--------------|--------------|--------------|--------------|
| 0-4          | 97           | 100          | 100          | 90           |
| 5-9          | 134          | 150          | 150          | 150          |
| 10-14        | 149          | 140          | 160          | 160          |
| 15-19        | 146          | 130          | 120          | 140          |
| 20-24        | 60           | 70           | 50           | 50           |
| 25-29        | 65           | 70           | 70           | 60           |
| 30-34        | 66           | 80           | 80           | 80           |
| 35-39        | 95           | 100          | 110          | 110          |
| 40-44        | 151          | 100          | 110          | 120          |
| 45-49        | 185          | 150          | 100          | 110          |
| 50-54        | 162          | 180          | 150          | 100          |
| 55-59        | 146          | 160          | 180          | 140          |
| 60-64        | 116          | 130          | 140          | 160          |
| 65-69        | 94           | 100          | 120          | 130          |
| 70-74        | 58           | 80           | 80           | 100          |
| 75-79        | 56           | 50           | 70           | 80           |
| 80-84        | 45           | 70           | 70           | 90           |
| 85+          | 42           | 50           | 70           | 80           |
| <b>Total</b> | <b>1,867</b> | <b>1,910</b> | <b>1,930</b> | <b>1,950</b> |

| Total             | 2010         | 2015         | 2020         | 2025         |
|-------------------|--------------|--------------|--------------|--------------|
| 0-4               | 192          | 200          | 200          | 180          |
| 5-9               | 271          | 300          | 310          | 300          |
| 10-14             | 300          | 280          | 310          | 320          |
| 15-19             | 273          | 260          | 240          | 280          |
| 20-24             | 116          | 120          | 100          | 100          |
| 25-29             | 129          | 130          | 120          | 120          |
| 30-34             | 127          | 160          | 160          | 140          |
| 35-39             | 190          | 190          | 220          | 210          |
| 40-44             | 283          | 200          | 210          | 230          |
| 45-49             | 316          | 280          | 200          | 210          |
| 50-54             | 323          | 310          | 280          | 200          |
| 55-59             | 273          | 310          | 300          | 260          |
| 60-64             | 204          | 240          | 280          | 270          |
| 65-69             | 186          | 170          | 210          | 240          |
| 70-74             | 124          | 150          | 130          | 170          |
| 75-79             | 103          | 110          | 130          | 130          |
| 80-84             | 69           | 120          | 130          | 160          |
| 85+               | 70           | 80           | 110          | 130          |
| <b>Total</b>      | <b>3,548</b> | <b>3,610</b> | <b>3,640</b> | <b>3,650</b> |
| <b>Median Age</b> | <b>43.1</b>  | <b>44.1</b>  | <b>43.8</b>  | <b>43.8</b>  |

|                         | 2010 to 2015 | 2015 to 2020 | 2020 to 2025 |
|-------------------------|--------------|--------------|--------------|
| <b>Births</b>           | 120          | 120          | 110          |
| <b>Deaths</b>           | 130          | 170          | 180          |
| <b>Natural Increase</b> | -10          | -50          | -70          |
| <b>Net Migration</b>    | 80           | 80           | 70           |
| <b>Change</b>           | 70           | 30           | 0            |

Differences between period Totals may not equal Change due to rounding.

**Butler Elementary**

| Males        | 2010         | 2015         | 2020         | 2025         |
|--------------|--------------|--------------|--------------|--------------|
| 0-4          | 244          | 200          | 190          | 170          |
| 5-9          | 173          | 220          | 180          | 170          |
| 10-14        | 139          | 180          | 220          | 180          |
| 15-19        | 140          | 120          | 160          | 200          |
| 20-24        | 151          | 150          | 130          | 180          |
| 25-29        | 218          | 160          | 170          | 140          |
| 30-34        | 220          | 230          | 180          | 180          |
| 35-39        | 248          | 230          | 240          | 180          |
| 40-44        | 236          | 250          | 230          | 240          |
| 45-49        | 229          | 230          | 250          | 230          |
| 50-54        | 183          | 220          | 230          | 240          |
| 55-59        | 138          | 180          | 220          | 220          |
| 60-64        | 123          | 120          | 160          | 190          |
| 65-69        | 92           | 100          | 100          | 130          |
| 70-74        | 81           | 70           | 80           | 80           |
| 75-79        | 64           | 80           | 60           | 70           |
| 80-84        | 47           | 70           | 80           | 70           |
| 85+          | 59           | 50           | 60           | 70           |
| <b>Total</b> | <b>2,784</b> | <b>2,860</b> | <b>2,940</b> | <b>2,940</b> |

| Females      | 2010         | 2015         | 2020         | 2025         |
|--------------|--------------|--------------|--------------|--------------|
| 0-4          | 172          | 200          | 190          | 160          |
| 5-9          | 175          | 140          | 170          | 160          |
| 10-14        | 141          | 180          | 150          | 170          |
| 15-19        | 128          | 130          | 160          | 130          |
| 20-24        | 170          | 140          | 130          | 180          |
| 25-29        | 272          | 180          | 160          | 150          |
| 30-34        | 273          | 280          | 200          | 170          |
| 35-39        | 293          | 290          | 300          | 200          |
| 40-44        | 263          | 300          | 290          | 300          |
| 45-49        | 219          | 260          | 290          | 290          |
| 50-54        | 231          | 220          | 260          | 290          |
| 55-59        | 164          | 230          | 210          | 250          |
| 60-64        | 168          | 150          | 210          | 190          |
| 65-69        | 137          | 150          | 130          | 190          |
| 70-74        | 88           | 120          | 130          | 110          |
| 75-79        | 85           | 80           | 110          | 120          |
| 80-84        | 93           | 110          | 100          | 140          |
| 85+          | 154          | 150          | 150          | 150          |
| <b>Total</b> | <b>3,226</b> | <b>3,310</b> | <b>3,340</b> | <b>3,350</b> |

| Total             | 2010         | 2015         | 2020         | 2025         |
|-------------------|--------------|--------------|--------------|--------------|
| 0-4               | 417          | 400          | 380          | 330          |
| 5-9               | 348          | 360          | 350          | 330          |
| 10-14             | 280          | 360          | 370          | 350          |
| 15-19             | 268          | 250          | 320          | 330          |
| 20-24             | 321          | 290          | 260          | 360          |
| 25-29             | 490          | 340          | 330          | 290          |
| 30-34             | 493          | 510          | 380          | 350          |
| 35-39             | 541          | 520          | 540          | 380          |
| 40-44             | 499          | 550          | 520          | 540          |
| 45-49             | 447          | 490          | 540          | 520          |
| 50-54             | 414          | 440          | 490          | 530          |
| 55-59             | 302          | 410          | 430          | 470          |
| 60-64             | 291          | 270          | 370          | 380          |
| 65-69             | 229          | 250          | 230          | 320          |
| 70-74             | 169          | 190          | 210          | 190          |
| 75-79             | 149          | 160          | 170          | 190          |
| 80-84             | 140          | 180          | 180          | 210          |
| 85+               | 214          | 200          | 210          | 220          |
| <b>Total</b>      | <b>6,010</b> | <b>6,170</b> | <b>6,280</b> | <b>6,290</b> |
| <b>Median Age</b> | <b>38.6</b>  | <b>40.5</b>  | <b>42.0</b>  | <b>43.9</b>  |

|                         | 2010 to 2015 | 2015 to 2020 | 2020 to 2025 |
|-------------------------|--------------|--------------|--------------|
| <b>Births</b>           | 340          | 300          | 250          |
| <b>Deaths</b>           | 250          | 270          | 280          |
| <b>Natural Increase</b> | 90           | 30           | -30          |
| <b>Net Migration</b>    | 70           | 70           | 80           |
| <b>Change</b>           | 160          | 100          | 50           |

Differences between period Totals may not equal Change due to rounding.

**Wellington Elementary**

| Males        | 2010         | 2015         | 2020         | 2025         |
|--------------|--------------|--------------|--------------|--------------|
| 0-4          | 310          | 310          | 300          | 280          |
| 5-9          | 301          | 330          | 330          | 310          |
| 10-14        | 275          | 300          | 330          | 330          |
| 15-19        | 285          | 240          | 260          | 290          |
| 20-24        | 129          | 200          | 140          | 160          |
| 25-29        | 211          | 140          | 210          | 150          |
| 30-34        | 261          | 230          | 150          | 220          |
| 35-39        | 299          | 300          | 260          | 180          |
| 40-44        | 356          | 300          | 300          | 260          |
| 45-49        | 336          | 350          | 300          | 290          |
| 50-54        | 344          | 330          | 340          | 290          |
| 55-59        | 272          | 330          | 320          | 330          |
| 60-64        | 248          | 250          | 310          | 290          |
| 65-69        | 169          | 220          | 220          | 270          |
| 70-74        | 126          | 140          | 180          | 190          |
| 75-79        | 103          | 120          | 130          | 170          |
| 80-84        | 61           | 110          | 120          | 140          |
| 85+          | 60           | 60           | 80           | 100          |
| <b>Total</b> | <b>4,146</b> | <b>4,260</b> | <b>4,280</b> | <b>4,250</b> |

| Females      | 2010         | 2015         | 2020         | 2025         |
|--------------|--------------|--------------|--------------|--------------|
| 0-4          | 285          | 300          | 290          | 270          |
| 5-9          | 321          | 300          | 320          | 310          |
| 10-14        | 351          | 330          | 310          | 320          |
| 15-19        | 235          | 310          | 280          | 270          |
| 20-24        | 136          | 150          | 220          | 190          |
| 25-29        | 264          | 150          | 160          | 220          |
| 30-34        | 320          | 280          | 160          | 180          |
| 35-39        | 347          | 350          | 310          | 190          |
| 40-44        | 379          | 350          | 360          | 320          |
| 45-49        | 387          | 380          | 350          | 360          |
| 50-54        | 375          | 380          | 370          | 340          |
| 55-59        | 337          | 370          | 370          | 360          |
| 60-64        | 287          | 320          | 350          | 360          |
| 65-69        | 219          | 270          | 300          | 330          |
| 70-74        | 148          | 200          | 250          | 280          |
| 75-79        | 108          | 140          | 180          | 230          |
| 80-84        | 106          | 140          | 180          | 240          |
| 85+          | 108          | 130          | 150          | 190          |
| <b>Total</b> | <b>4,713</b> | <b>4,850</b> | <b>4,910</b> | <b>4,960</b> |

| Total             | 2010         | 2015         | 2020         | 2025         |
|-------------------|--------------|--------------|--------------|--------------|
| 0-4               | 595          | 610          | 590          | 550          |
| 5-9               | 622          | 630          | 650          | 620          |
| 10-14             | 626          | 630          | 640          | 650          |
| 15-19             | 520          | 550          | 540          | 560          |
| 20-24             | 265          | 350          | 360          | 350          |
| 25-29             | 475          | 290          | 370          | 370          |
| 30-34             | 581          | 510          | 310          | 400          |
| 35-39             | 646          | 650          | 570          | 370          |
| 40-44             | 735          | 650          | 660          | 580          |
| 45-49             | 723          | 730          | 650          | 650          |
| 50-54             | 719          | 710          | 710          | 630          |
| 55-59             | 609          | 700          | 690          | 690          |
| 60-64             | 535          | 570          | 660          | 650          |
| 65-69             | 388          | 490          | 520          | 600          |
| 70-74             | 274          | 340          | 430          | 470          |
| 75-79             | 211          | 260          | 310          | 400          |
| 80-84             | 166          | 250          | 300          | 380          |
| 85+               | 168          | 190          | 230          | 290          |
| <b>Total</b>      | <b>8,859</b> | <b>9,110</b> | <b>9,190</b> | <b>9,210</b> |
| <b>Median Age</b> | <b>40.7</b>  | <b>42.6</b>  | <b>44.3</b>  | <b>46.2</b>  |

|                         | 2010 to 2015 | 2015 to 2020 | 2020 to 2025 |
|-------------------------|--------------|--------------|--------------|
| <b>Births</b>           | 480          | 400          | 360          |
| <b>Deaths</b>           | 320          | 380          | 430          |
| <b>Natural Increase</b> | 160          | 20           | -70          |
| <b>Net Migration</b>    | 90           | 80           | 80           |
| <b>Change</b>           | 250          | 100          | 10           |

Differences between period Totals may not equal Change due to rounding.

**Winn Brook Elementary**

| Males        | 2010         | 2015         | 2020         | 2025         |
|--------------|--------------|--------------|--------------|--------------|
| 0-4          | 180          | 160          | 220          | 190          |
| 5-9          | 221          | 250          | 280          | 300          |
| 10-14        | 275          | 230          | 270          | 290          |
| 15-19        | 227          | 260          | 200          | 250          |
| 20-24        | 94           | 140          | 130          | 100          |
| 25-29        | 90           | 100          | 180          | 140          |
| 30-34        | 89           | 120          | 190          | 200          |
| 35-39        | 149          | 100          | 160          | 190          |
| 40-44        | 231          | 150          | 140          | 160          |
| 45-49        | 261          | 230          | 150          | 140          |
| 50-54        | 239          | 260          | 220          | 140          |
| 55-59        | 211          | 230          | 250          | 220          |
| 60-64        | 180          | 200          | 210          | 230          |
| 65-69        | 165          | 160          | 130          | 190          |
| 70-74        | 110          | 140          | 90           | 110          |
| 75-79        | 117          | 100          | 130          | 80           |
| 80-84        | 95           | 120          | 110          | 130          |
| 85+          | 73           | 80           | 100          | 110          |
| <b>Total</b> | <b>3,009</b> | <b>3,030</b> | <b>3,160</b> | <b>3,170</b> |

| Females      | 2010         | 2015         | 2020         | 2025         |
|--------------|--------------|--------------|--------------|--------------|
| 0-4          | 170          | 150          | 210          | 190          |
| 5-9          | 257          | 240          | 280          | 290          |
| 10-14        | 255          | 260          | 260          | 280          |
| 15-19        | 184          | 240          | 240          | 240          |
| 20-24        | 96           | 90           | 110          | 140          |
| 25-29        | 88           | 100          | 140          | 120          |
| 30-34        | 112          | 110          | 190          | 160          |
| 35-39        | 174          | 120          | 160          | 200          |
| 40-44        | 256          | 170          | 160          | 160          |
| 45-49        | 277          | 250          | 170          | 160          |
| 50-54        | 291          | 270          | 250          | 170          |
| 55-59        | 260          | 280          | 270          | 250          |
| 60-64        | 199          | 250          | 270          | 260          |
| 65-69        | 169          | 180          | 190          | 250          |
| 70-74        | 140          | 150          | 120          | 180          |
| 75-79        | 131          | 130          | 140          | 110          |
| 80-84        | 121          | 170          | 160          | 180          |
| 85+          | 121          | 140          | 180          | 200          |
| <b>Total</b> | <b>3,304</b> | <b>3,300</b> | <b>3,500</b> | <b>3,540</b> |

| Total             | 2010         | 2015         | 2020         | 2025         |
|-------------------|--------------|--------------|--------------|--------------|
| 0-4               | 350          | 310          | 430          | 380          |
| 5-9               | 479          | 490          | 560          | 590          |
| 10-14             | 531          | 490          | 530          | 570          |
| 15-19             | 411          | 500          | 440          | 490          |
| 20-24             | 190          | 230          | 240          | 240          |
| 25-29             | 178          | 200          | 320          | 260          |
| 30-34             | 201          | 230          | 380          | 360          |
| 35-39             | 323          | 220          | 320          | 390          |
| 40-44             | 487          | 320          | 300          | 320          |
| 45-49             | 539          | 480          | 320          | 300          |
| 50-54             | 531          | 530          | 470          | 310          |
| 55-59             | 472          | 510          | 520          | 470          |
| 60-64             | 378          | 450          | 480          | 490          |
| 65-69             | 333          | 340          | 320          | 440          |
| 70-74             | 249          | 290          | 210          | 290          |
| 75-79             | 248          | 230          | 270          | 190          |
| 80-84             | 216          | 290          | 270          | 310          |
| 85+               | 194          | 220          | 280          | 310          |
| <b>Total</b>      | <b>6,313</b> | <b>6,330</b> | <b>6,660</b> | <b>6,710</b> |
| <b>Median Age</b> | <b>45.0</b>  | <b>46.8</b>  | <b>41.8</b>  | <b>41.2</b>  |

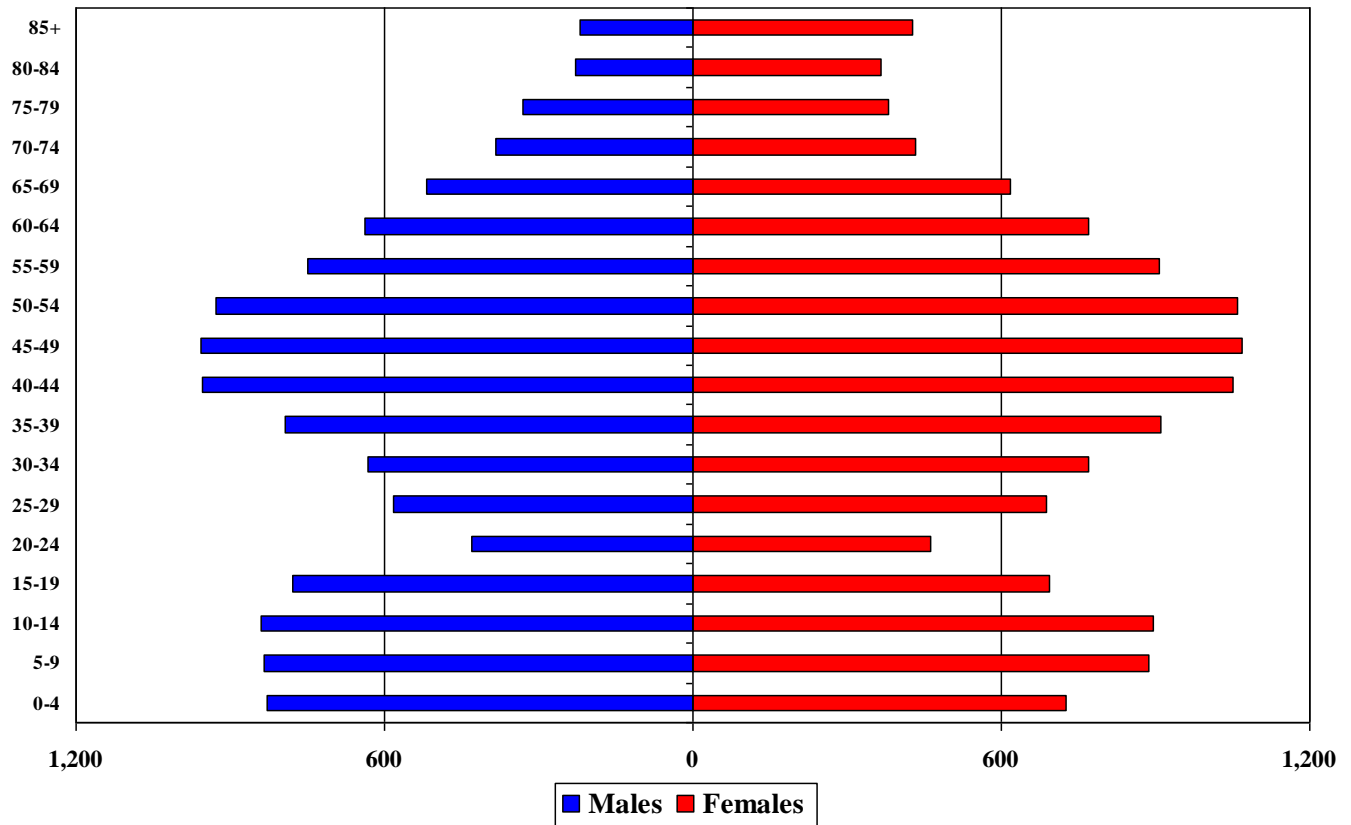
|                         | 2010 to 2015 | 2015 to 2020 | 2020 to 2025 |
|-------------------------|--------------|--------------|--------------|
| <b>Births</b>           | 240          | 270          | 300          |
| <b>Deaths</b>           | 300          | 360          | 360          |
| <b>Natural Increase</b> | -60          | -90          | -60          |
| <b>Net Migration</b>    | 90           | 420          | 100          |
| <b>Change</b>           | 30           | 330          | 40           |

Differences between period Totals may not equal Change due to rounding.

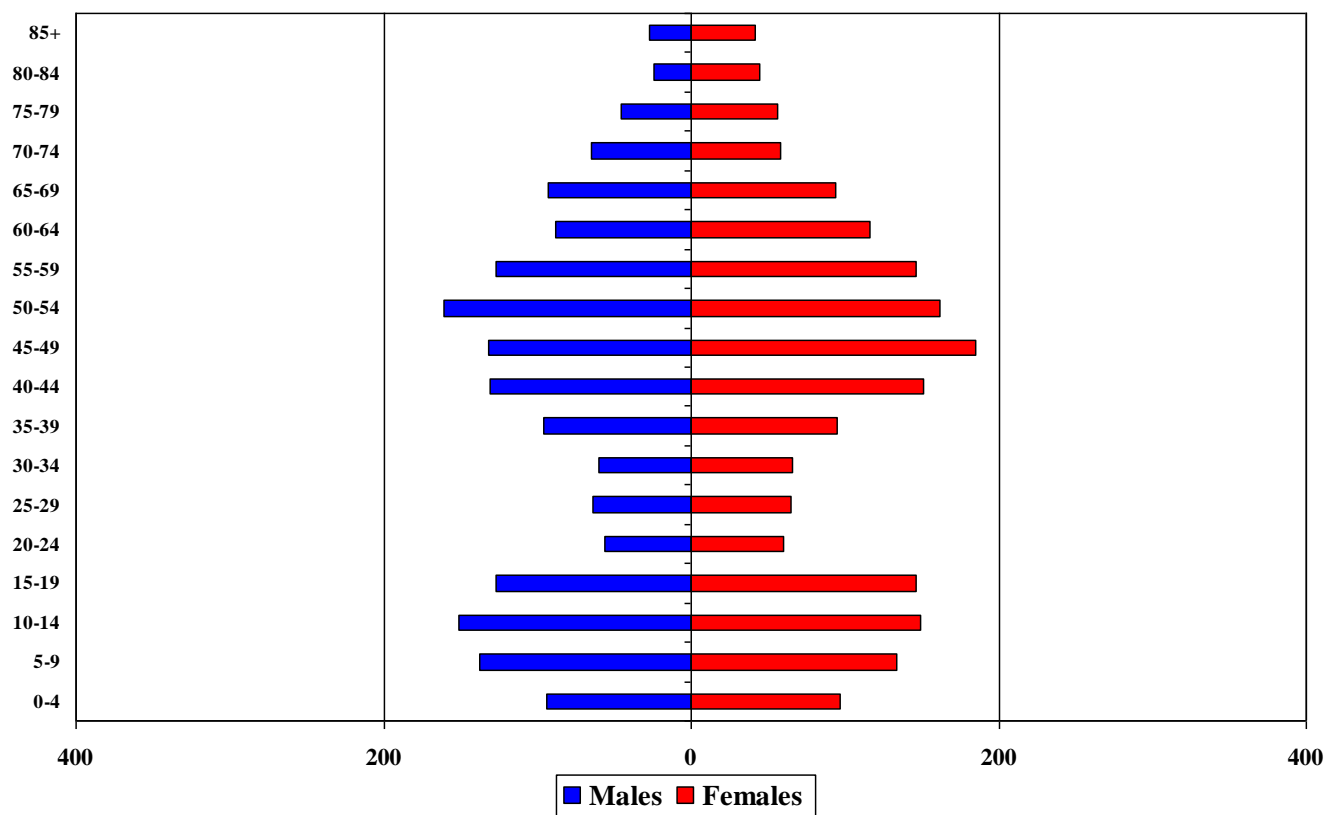


Appendix C: Population Pyramids

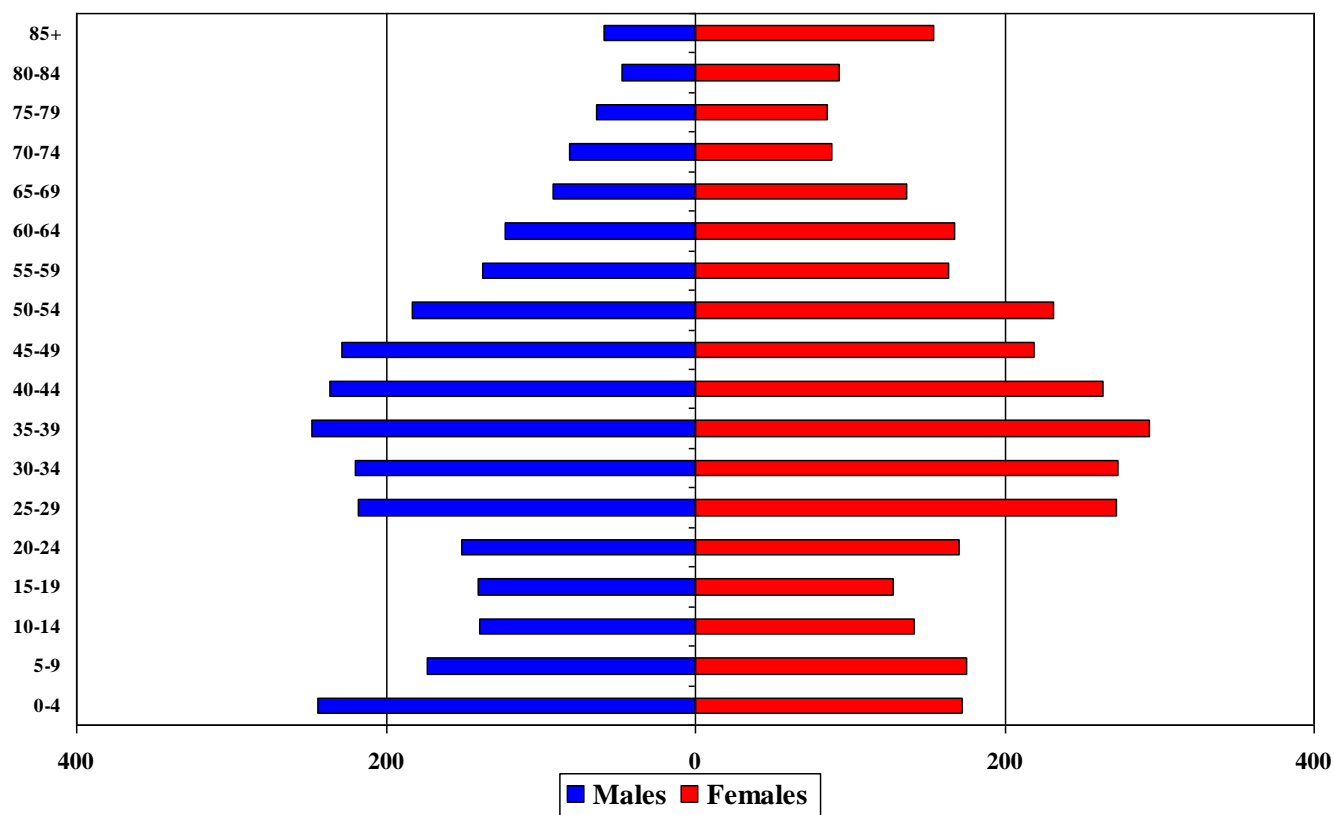
Belmont, Massachusetts Total Population – 2010 Census



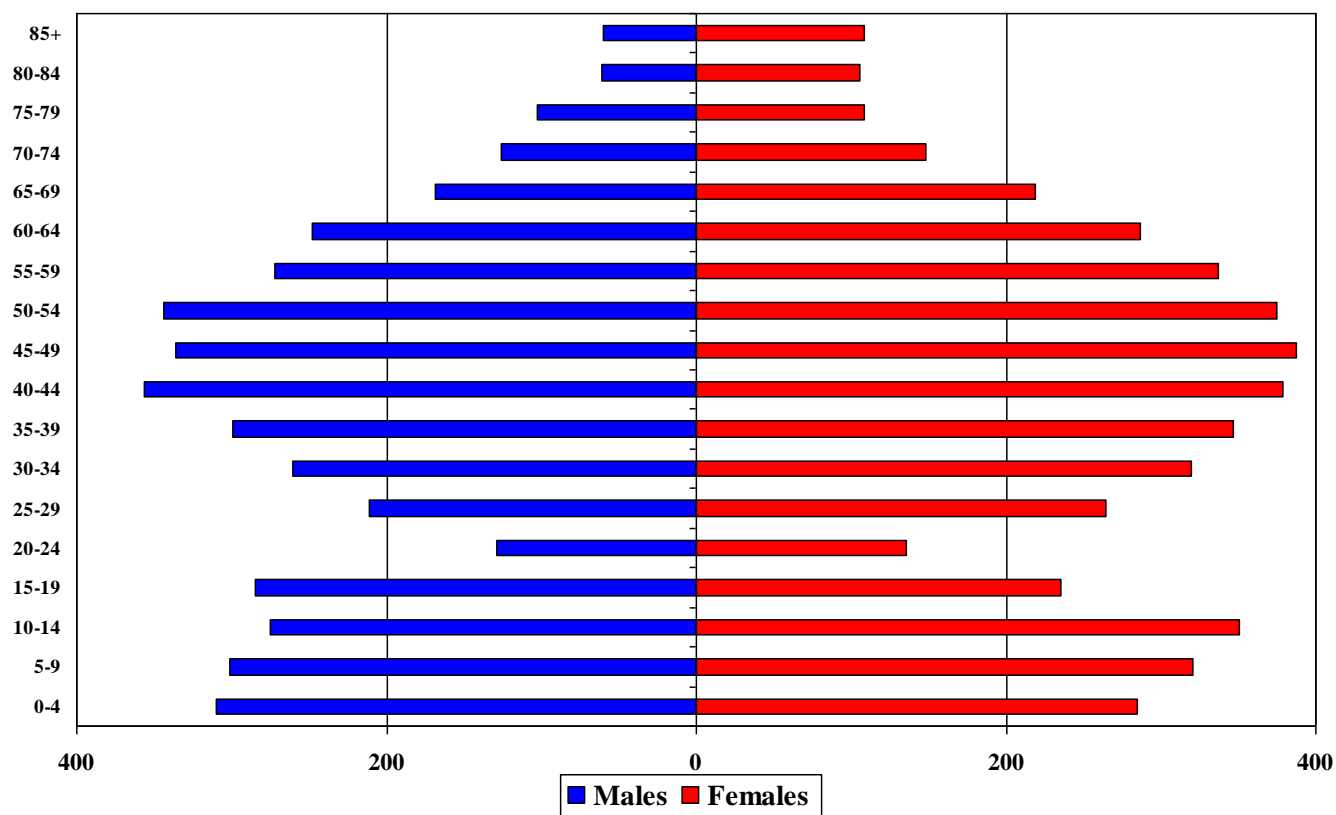
**Burbank Elementary Total Population – 2010 Census**



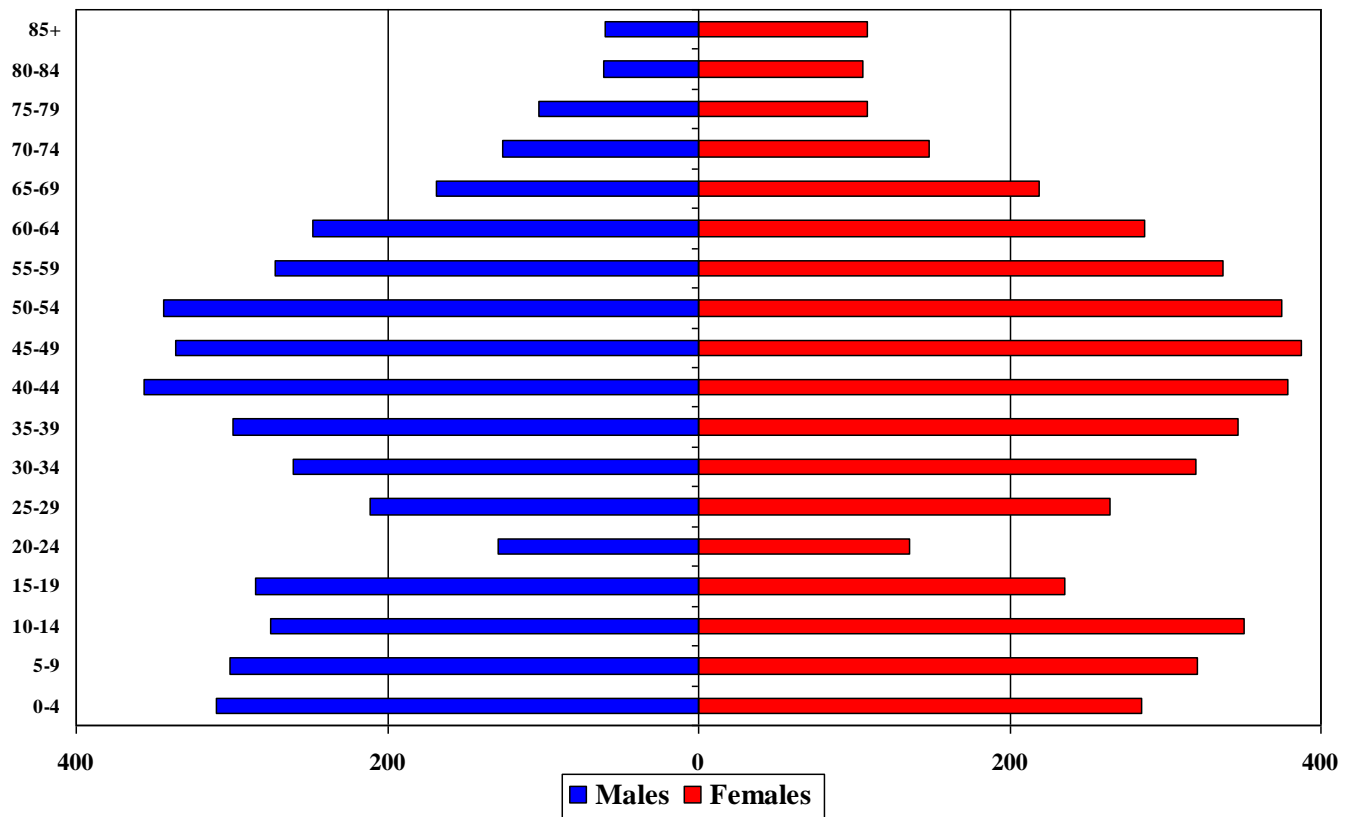
Butler Elementary Total Population - 2010 Census



Wellington Elementary Total Population - 2010 Census



Winn Brook Elementary Total Population - 2010 Census



Appendix D: Enrollment Forecasts

**Belmont Public Schools: Total District Enrollment**

|                     | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>PK</b>           | 57      | 68      | 71      | 68      | 63      | 63      | 63      | 63      | 63      | 63      | 63      | 63      | 63      | 63      | 63      | 63      |
| <b>LABBB</b>        | 21      | 28      | 24      | 24      | 24      | 21      | 21      | 21      | 21      | 21      | 21      | 21      | 21      | 21      | 21      | 21      |
| <b>K</b>            | 298     | 345     | 318     | 337     | 354     | 313     | 330     | 334     | 337     | 341     | 344     | 345     | 343     | 343     | 339     | 338     |
| <b>1</b>            | 326     | 302     | 350     | 331     | 341     | 376     | 346     | 346     | 349     | 352     | 355     | 353     | 354     | 352     | 352     | 348     |
| <b>2</b>            | 320     | 331     | 313     | 351     | 332     | 355     | 381     | 353     | 353     | 357     | 366     | 368     | 366     | 367     | 365     | 365     |
| <b>3</b>            | 318     | 310     | 346     | 316     | 347     | 341     | 355     | 385     | 357     | 357     | 367     | 375     | 377     | 375     | 376     | 373     |
| <b>4</b>            | 304     | 316     | 307     | 350     | 326     | 349     | 343     | 361     | 392     | 364     | 367     | 376     | 384     | 386     | 384     | 385     |
| <b>Total: PK-4</b>  | 1644    | 1700    | 1729    | 1777    | 1787    | 1818    | 1839    | 1863    | 1872    | 1855    | 1883    | 1901    | 1908    | 1907    | 1900    | 1893    |
|                     | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 |
| <b>5</b>            | 317     | 297     | 324     | 316     | 339     | 332     | 342     | 336     | 354     | 384     | 355     | 358     | 367     | 374     | 376     | 374     |
| <b>6</b>            | 301     | 312     | 296     | 328     | 331     | 341     | 337     | 347     | 341     | 359     | 388     | 359     | 362     | 371     | 378     | 380     |
| <b>7</b>            | 306     | 301     | 318     | 298     | 323     | 322     | 338     | 334     | 344     | 338     | 357     | 386     | 357     | 360     | 369     | 376     |
| <b>8</b>            | 281     | 302     | 302     | 326     | 292     | 328     | 325     | 341     | 337     | 347     | 341     | 361     | 390     | 361     | 364     | 373     |
| <b>LABBB</b>        | 27      | 21      | 22      | 22      | 27      | 32      | 32      | 32      | 32      | 32      | 32      | 32      | 32      | 32      | 32      | 32      |
| <b>Total: 5-8</b>   | 1232    | 1233    | 1262    | 1290    | 1312    | 1355    | 1374    | 1390    | 1408    | 1460    | 1473    | 1496    | 1508    | 1498    | 1519    | 1535    |
|                     | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 |
| <b>9</b>            | 285     | 280     | 307     | 314     | 341     | 300     | 335     | 332     | 348     | 344     | 356     | 350     | 370     | 400     | 370     | 373     |
| <b>10</b>           | 256     | 273     | 281     | 314     | 304     | 337     | 296     | 331     | 328     | 344     | 340     | 352     | 346     | 366     | 395     | 366     |
| <b>11</b>           | 280     | 256     | 276     | 285     | 311     | 298     | 335     | 295     | 329     | 326     | 342     | 338     | 350     | 344     | 364     | 393     |
| <b>12</b>           | 285     | 275     | 256     | 270     | 281     | 311     | 294     | 330     | 291     | 324     | 321     | 337     | 333     | 345     | 339     | 359     |
| <b>LABBB</b>        | 30      | 20      | 19      | 16      | 22      | 23      | 23      | 23      | 23      | 23      | 23      | 23      | 23      | 23      | 23      | 23      |
| <b>Total: 9-12</b>  | 1136    | 1104    | 1139    | 1199    | 1259    | 1269    | 1283    | 1311    | 1319    | 1361    | 1382    | 1400    | 1422    | 1478    | 1491    | 1514    |
| <b>Total: PK-12</b> | 4012    | 4037    | 4130    | 4266    | 4358    | 4442    | 4496    | 4564    | 4599    | 4676    | 4738    | 4797    | 4838    | 4883    | 4910    | 4942    |
|                     | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 |
| <b>Total: PK-12</b> | 4012    | 4037    | 4130    | 4266    | 4358    | 4442    | 4496    | 4564    | 4599    | 4676    | 4738    | 4797    | 4838    | 4883    | 4910    | 4942    |
| <b>Change</b>       |         | 25      | 93      | 136     | 92      | 84      | 54      | 68      | 35      | 77      | 62      | 59      | 41      | 45      | 27      | 32      |
| <b>%-Change</b>     |         | 0.6%    | 2.3%    | 3.3%    | 2.2%    | 1.9%    | 1.2%    | 1.5%    | 0.8%    | 1.7%    | 1.3%    | 1.2%    | 0.9%    | 0.9%    | 0.6%    | 0.7%    |
|                     | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 |
| <b>Total: PK-4</b>  | 1644    | 1700    | 1729    | 1777    | 1787    | 1818    | 1839    | 1863    | 1872    | 1855    | 1883    | 1901    | 1908    | 1907    | 1900    | 1893    |
| <b>Change</b>       |         | 56      | 29      | 48      | 10      | 31      | 21      | 24      | 9       | -17     | 28      | 18      | 7       | -1      | -7      | -7      |
| <b>%-Change</b>     |         | 3.4%    | 1.7%    | 2.8%    | 0.6%    | 1.7%    | 1.2%    | 1.3%    | 0.5%    | -0.9%   | 1.5%    | 1.0%    | 0.4%    | -0.1%   | -0.4%   | -0.4%   |
|                     | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 |
| <b>Total: 5-8</b>   | 1232    | 1233    | 1262    | 1290    | 1312    | 1355    | 1374    | 1390    | 1408    | 1460    | 1473    | 1496    | 1508    | 1498    | 1519    | 1535    |
| <b>Change</b>       |         | 1       | 29      | 28      | 22      | 43      | 19      | 16      | 18      | 52      | 13      | 23      | 12      | -10     | 21      | 16      |
| <b>%-Change</b>     |         | 0.1%    | 2.4%    | 2.2%    | 1.7%    | 3.3%    | 1.4%    | 1.2%    | 1.3%    | 3.7%    | 0.9%    | 1.6%    | 0.8%    | -0.7%   | 1.4%    | 1.1%    |
|                     | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 |
| <b>Total: 9-12</b>  | 1136    | 1104    | 1139    | 1199    | 1259    | 1269    | 1283    | 1311    | 1319    | 1361    | 1382    | 1400    | 1422    | 1478    | 1491    | 1514    |
| <b>Change</b>       |         | -32     | 35      | 60      | 60      | 10      | 14      | 28      | 8       | 42      | 21      | 18      | 22      | 56      | 13      | 23      |
| <b>%-Change</b>     |         | -2.8%   | 3.2%    | 5.3%    | 5.0%    | 0.8%    | 1.1%    | 2.2%    | 0.6%    | 3.2%    | 1.5%    | 1.3%    | 1.6%    | 3.9%    | 0.9%    | 1.5%    |



### Burbank Elementary

|                   | 2010-11    | 2011-12    | 2012-13    | 2013-14    | 2014-15    | 2015-16    | 2016-17    | 2017-18    | 2018-19    | 2019-20    | 2020-21    | 2021-22    | 2022-23    | 2023-24    | 2024-25    | 2025-26    |
|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| LABBB             | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |
| K                 | 58         | 66         | 65         | 67         | 71         | 59         | 60         | 61         | 62         | 63         | 64         | 65         | 65         | 66         | 66         | 65         |
| 1                 | 64         | 57         | 65         | 71         | 68         | 72         | 63         | 62         | 63         | 64         | 65         | 65         | 66         | 66         | 67         | 67         |
| 2                 | 68         | 65         | 62         | 69         | 70         | 70         | 74         | 65         | 64         | 65         | 67         | 68         | 68         | 69         | 69         | 70         |
| 3                 | 69         | 66         | 68         | 72         | 71         | 72         | 71         | 75         | 66         | 65         | 67         | 69         | 70         | 70         | 71         | 71         |
| 4                 | 68         | 66         | 66         | 76         | 71         | 70         | 73         | 72         | 76         | 67         | 66         | 68         | 70         | 71         | 71         | 72         |
| <b>Total: K-4</b> | <b>327</b> | <b>320</b> | <b>326</b> | <b>355</b> | <b>351</b> | <b>343</b> | <b>341</b> | <b>335</b> | <b>331</b> | <b>324</b> | <b>329</b> | <b>335</b> | <b>339</b> | <b>342</b> | <b>344</b> | <b>345</b> |

|                   | 2010-11    | 2011-12    | 2012-13    | 2013-14    | 2014-15    | 2015-16    | 2016-17    | 2017-18    | 2018-19    | 2019-20    | 2020-21    | 2021-22    | 2022-23    | 2023-24    | 2024-25    | 2025-26    |
|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Total: K-4</b> | <b>327</b> | <b>320</b> | <b>326</b> | <b>355</b> | <b>351</b> | <b>343</b> | <b>341</b> | <b>335</b> | <b>331</b> | <b>324</b> | <b>329</b> | <b>335</b> | <b>339</b> | <b>342</b> | <b>344</b> | <b>345</b> |
| <b>Change</b>     |            | -7         | 6          | 29         | -4         | -8         | -2         | -6         | -4         | -7         | 5          | 6          | 4          | 3          | 2          | 1          |
| <b>% Change</b>   |            | -2.1%      | 1.9%       | 8.9%       | -1.1%      | -2.3%      | -0.6%      | -1.8%      | -1.2%      | -2.1%      | 1.5%       | 1.8%       | 1.2%       | 0.9%       | 0.6%       | 0.3%       |

### Butler Elementary

|                   | 2010-11    | 2011-12    | 2012-13    | 2013-14    | 2014-15    | 2015-16    | 2016-17    | 2017-18    | 2018-19    | 2019-20    | 2020-21    | 2021-22    | 2022-23    | 2023-24    | 2024-25    | 2025-26    |
|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| LABBB             | 12         | 16         | 13         | 11         | 13         | 11         | 11         | 11         | 11         | 11         | 11         | 11         | 11         | 11         | 11         | 11         |
| K                 | 68         | 70         | 62         | 71         | 73         | 68         | 75         | 74         | 73         | 72         | 73         | 72         | 70         | 69         | 68         | 69         |
| 1                 | 86         | 70         | 67         | 69         | 67         | 87         | 82         | 80         | 79         | 78         | 77         | 76         | 75         | 73         | 72         | 71         |
| 2                 | 66         | 83         | 69         | 68         | 66         | 72         | 85         | 80         | 78         | 77         | 79         | 78         | 77         | 76         | 74         | 73         |
| 3                 | 69         | 60         | 82         | 72         | 62         | 69         | 71         | 84         | 79         | 77         | 79         | 81         | 80         | 79         | 78         | 75         |
| 4                 | 72         | 69         | 58         | 89         | 74         | 67         | 70         | 72         | 86         | 81         | 79         | 81         | 83         | 82         | 81         | 80         |
| <b>Total: K-4</b> | <b>373</b> | <b>368</b> | <b>351</b> | <b>380</b> | <b>355</b> | <b>374</b> | <b>394</b> | <b>401</b> | <b>406</b> | <b>396</b> | <b>398</b> | <b>399</b> | <b>396</b> | <b>390</b> | <b>384</b> | <b>379</b> |

|                   | 2010-11    | 2011-12    | 2012-13    | 2013-14    | 2014-15    | 2015-16    | 2016-17    | 2017-18    | 2018-19    | 2019-20    | 2020-21    | 2021-22    | 2022-23    | 2023-24    | 2024-25    | 2025-26    |
|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Total: K-4</b> | <b>373</b> | <b>368</b> | <b>351</b> | <b>380</b> | <b>355</b> | <b>374</b> | <b>394</b> | <b>401</b> | <b>406</b> | <b>396</b> | <b>398</b> | <b>399</b> | <b>396</b> | <b>390</b> | <b>384</b> | <b>379</b> |
| <b>Change</b>     |            | -5         | -17        | 29         | -25        | 19         | 20         | 7          | 5          | -10        | 2          | 1          | -3         | -6         | -6         | -5         |
| <b>% Change</b>   |            | -1.3%      | -4.6%      | 8.3%       | -6.6%      | 5.4%       | 5.3%       | 1.8%       | 1.2%       | -2.5%      | 0.5%       | 0.3%       | -0.8%      | -1.5%      | -1.5%      | -1.3%      |

### Wellington Elementary

|                    | 2010-11    | 2011-12    | 2012-13    | 2013-14    | 2014-15    | 2015-16    | 2016-17    | 2017-18    | 2018-19    | 2019-20    | 2020-21    | 2021-22    | 2022-23    | 2023-24    | 2024-25    | 2025-26    |
|--------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Pre-K              | 0          | 68         | 71         | 68         | 63         | 63         | 63         | 63         | 63         | 63         | 63         | 63         | 63         | 63         | 63         | 63         |
| LABBB              | 9          | 12         | 11         | 13         | 11         | 10         | 10         | 10         | 10         | 10         | 10         | 10         | 10         | 10         | 10         | 10         |
| K                  | 87         | 121        | 104        | 111        | 115        | 106        | 109        | 108        | 109        | 110        | 110        | 109        | 107        | 106        | 104        | 105        |
| 1                  | 89         | 91         | 124        | 100        | 111        | 121        | 116        | 114        | 113        | 114        | 115        | 113        | 112        | 110        | 109        | 107        |
| 2                  | 97         | 93         | 95         | 120        | 101        | 117        | 123        | 118        | 116        | 115        | 117        | 118        | 116        | 115        | 113        | 112        |
| 3                  | 84         | 97         | 101        | 89         | 121        | 106        | 118        | 124        | 119        | 117        | 117        | 119        | 120        | 118        | 117        | 115        |
| 4                  | 77         | 85         | 101        | 94         | 94         | 122        | 108        | 120        | 126        | 121        | 121        | 121        | 123        | 124        | 122        | 121        |
| <b>Total: PK-4</b> | <b>443</b> | <b>567</b> | <b>607</b> | <b>595</b> | <b>616</b> | <b>645</b> | <b>647</b> | <b>657</b> | <b>656</b> | <b>650</b> | <b>653</b> | <b>653</b> | <b>651</b> | <b>646</b> | <b>638</b> | <b>633</b> |

|                    | 2010-11    | 2011-12    | 2012-13    | 2013-14    | 2014-15    | 2015-16    | 2016-17    | 2017-18    | 2018-19    | 2019-20    | 2020-21    | 2021-22    | 2022-23    | 2023-24    | 2024-25    | 2025-26    |
|--------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Total: PK-4</b> | <b>443</b> | <b>567</b> | <b>607</b> | <b>595</b> | <b>616</b> | <b>645</b> | <b>647</b> | <b>657</b> | <b>656</b> | <b>650</b> | <b>653</b> | <b>653</b> | <b>651</b> | <b>646</b> | <b>638</b> | <b>633</b> |
| <b>Change</b>      |            | 124        | 40         | -12        | 21         | 29         | 2          | 10         | -1         | -6         | 3          | 0          | -2         | -5         | -8         | -5         |
| <b>% Change</b>    |            | 28.0%      | 7.1%       | -2.0%      | 3.5%       | 4.7%       | 0.3%       | 1.5%       | -0.2%      | -0.9%      | 0.5%       | 0.0%       | -0.3%      | -0.8%      | -1.2%      | -0.8%      |

**Winn Brook Elementary**

|            | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| LABBB      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| K          | 85      | 88      | 87      | 88      | 95      | 80      | 86      | 91      | 93      | 96      | 97      | 99      | 101     | 102     | 101     | 99      |
| 1          | 87      | 84      | 94      | 91      | 95      | 96      | 85      | 90      | 94      | 96      | 98      | 99      | 101     | 103     | 104     | 103     |
| 2          | 89      | 90      | 87      | 94      | 95      | 96      | 99      | 90      | 95      | 100     | 103     | 104     | 105     | 107     | 109     | 110     |
| 3          | 96      | 87      | 95      | 83      | 93      | 94      | 95      | 102     | 93      | 98      | 104     | 106     | 107     | 108     | 110     | 112     |
| 4          | 87      | 96      | 82      | 91      | 87      | 90      | 92      | 97      | 104     | 95      | 101     | 106     | 108     | 109     | 110     | 112     |
|            | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 |
| Total: K-4 | 444     | 445     | 445     | 447     | 465     | 456     | 457     | 470     | 479     | 485     | 503     | 514     | 522     | 529     | 534     | 536     |

|            | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total: K-4 | 444     | 445     | 445     | 447     | 465     | 456     | 457     | 470     | 479     | 485     | 503     | 514     | 522     | 529     | 534     | 536     |
| Change     |         | 1       | 0       | 2       | 18      | -9      | 1       | 13      | 9       | 6       | 18      | 11      | 8       | 7       | 5       | 2       |
| % Change   |         | 0.2%    | 0.0%    | 0.4%    | 4.0%    | -1.9%   | 0.2%    | 2.8%    | 1.9%    | 1.3%    | 3.7%    | 2.2%    | 1.6%    | 1.3%    | 0.9%    | 0.4%    |

**Chenery Middle School**

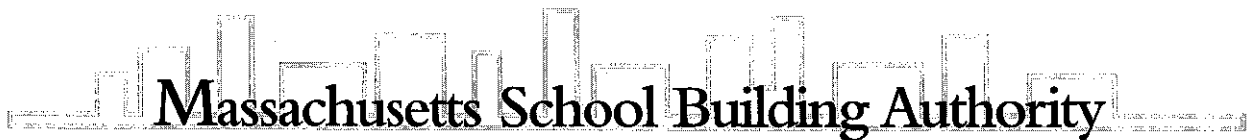
|            | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 5          | 317     | 297     | 324     | 316     | 339     | 332     | 342     | 336     | 354     | 384     | 355     | 358     | 367     | 374     | 376     | 374     |
| 6          | 301     | 312     | 296     | 328     | 331     | 341     | 337     | 347     | 341     | 359     | 388     | 359     | 362     | 371     | 378     | 380     |
| 7          | 306     | 301     | 318     | 298     | 323     | 322     | 338     | 334     | 344     | 338     | 357     | 386     | 357     | 360     | 369     | 376     |
| 8          | 281     | 302     | 302     | 326     | 292     | 328     | 325     | 341     | 337     | 347     | 341     | 361     | 390     | 361     | 364     | 373     |
| LABBB      | 27      | 21      | 22      | 22      | 27      | 32      | 32      | 32      | 32      | 32      | 32      | 32      | 32      | 32      | 32      | 32      |
|            | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 |
| Total: 5-8 | 1232    | 1233    | 1262    | 1290    | 1312    | 1355    | 1374    | 1390    | 1408    | 1460    | 1473    | 1496    | 1508    | 1498    | 1519    | 1535    |

|            | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total: 6-8 | 1232    | 1233    | 1262    | 1290    | 1312    | 1355    | 1374    | 1390    | 1408    | 1460    | 1473    | 1496    | 1508    | 1498    | 1519    | 1535    |
| Change     |         | 1       | 29      | 28      | 22      | 43      | 19      | 16      | 18      | 52      | 13      | 23      | 12      | -10     | 21      | 16      |
| % Change   |         | 0.1%    | 2.4%    | 2.2%    | 1.7%    | 3.3%    | 1.4%    | 1.2%    | 1.3%    | 3.7%    | 0.9%    | 1.6%    | 0.8%    | -0.7%   | 1.4%    | 1.1%    |

**Belmont High School**

|             | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 9           | 285     | 280     | 307     | 314     | 341     | 300     | 335     | 332     | 348     | 344     | 356     | 350     | 370     | 400     | 370     | 373     |
| 10          | 256     | 273     | 281     | 314     | 304     | 337     | 296     | 331     | 328     | 344     | 340     | 352     | 346     | 366     | 395     | 366     |
| 11          | 280     | 256     | 276     | 285     | 311     | 298     | 335     | 295     | 329     | 326     | 342     | 338     | 350     | 344     | 364     | 393     |
| 12          | 285     | 275     | 256     | 270     | 281     | 311     | 294     | 330     | 291     | 324     | 321     | 337     | 333     | 345     | 339     | 359     |
| LABBB       | 30      | 20      | 19      | 16      | 22      | 23      | 23      | 23      | 23      | 23      | 23      | 23      | 23      | 23      | 23      | 23      |
|             | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 |
| Total: 9-12 | 1136    | 1104    | 1139    | 1199    | 1259    | 1269    | 1283    | 1311    | 1319    | 1361    | 1382    | 1400    | 1422    | 1478    | 1491    | 1514    |

|             | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total: 9-12 | 1136    | 1104    | 1139    | 1199    | 1259    | 1269    | 1283    | 1311    | 1319    | 1361    | 1382    | 1400    | 1422    | 1478    | 1491    | 1514    |
| Change      |         | -32     | 35      | 60      | 60      | 10      | 14      | 28      | 8       | 42      | 21      | 18      | 22      | 56      | 13      | 23      |
| % Change    |         | -2.8%   | 3.2%    | 5.3%    | 5.0%    | 0.8%    | 1.1%    | 2.2%    | 0.6%    | 3.2%    | 1.5%    | 1.3%    | 1.6%    | 3.9%    | 0.9%    | 1.5%    |



# Massachusetts School Building Authority

**Deborah B. Goldberg**  
*Chairman, State Treasurer*

**Maureen G. Valente**  
*Chief Executive Officer*

**John K. McCarthy**  
*Executive Director / Deputy CEO*

June 24, 2016

Mr. Mark A. Paolillo, Chair  
Belmont Board of Selectmen  
Office of the Board of Selectmen  
455 Concord Avenue, 2<sup>nd</sup> Floor  
Belmont, MA 02478

Re: Town of Belmont, Belmont High School

Dear Mr. Paolillo:

I would like to thank your team for meeting with Massachusetts School Building Authority (the "MSBA") staff on June 13, 2016 during which enrollment projections and methodologies were reviewed for the Belmont High School in the Town of Belmont (the "District"). As discussed, the next critical step is for the MSBA and the District to agree on a study enrollment for the Belmont High School.

Belmont High School presently serves the District's entire grade 9-12 enrollment. The MSBA understands that the District would like their Feasibility Study to examine a number of potential configurations including:

- Maintaining the current configuration of grades 9-12.
- Moving grade 8 students from the Chenery Middle School to the Belmont High School, thus creating a grade 8-12 configuration.
- Maintaining the current configuration of grades 9-12 and creating an early childhood center in the Belmont High School facility by moving the pre-K and K students from the elementary schools.

Please note, as discussed at the meeting on June 13, 2016, the MSBA does not include pre-K enrollment in the enrollment projections. If the preferred solution includes an early childhood center, the allowable space for pre-K programming will be determined during the next phase of the MSBA's process at the time of the review of the District's proposed educational space program for the Belmont High School.

The table below illustrates the Town of Belmont's K-12 enrollment during the most recent ten year period, including enrollment for the current school year (2015-2016) as reported by the Department of Elementary and Secondary Education (the "DESE"). K-4 enrollment has been on an increasing trend for at least the past ten years. Grade 5-8 enrollment has been on an increasing trend since 2007. The grade 9-12 enrollment in the Town of Belmont as reported by the District

for the current school year is 1,245 students, which was the maximum grade 9-12 enrollment reported in the preceding ten years. Additionally, the current year's grade 9-12 enrollment reflects an increase of approximately 89 students (8%) from the average grade 9-12 enrollment reported during the preceding ten year period.

| YEAR      | K-4   | 5-8   | 9-12  | TOTAL |
|-----------|-------|-------|-------|-------|
| 2006-2007 | 1,400 | 1,122 | 1,150 | 3,672 |
| 2007-2008 | 1,450 | 1,101 | 1,156 | 3,707 |
| 2008-2009 | 1,489 | 1,140 | 1,162 | 3,791 |
| 2009-2010 | 1,600 | 1,184 | 1,119 | 3,903 |
| 2010-2011 | 1,558 | 1,204 | 1,104 | 3,866 |
| 2011-2012 | 1,601 | 1,211 | 1,083 | 3,895 |
| 2012-2013 | 1,634 | 1,240 | 1,120 | 3,994 |
| 2013-2014 | 1,686 | 1,268 | 1,183 | 4,137 |
| 2014-2015 | 1,699 | 1,285 | 1,236 | 4,220 |
| 2015-2016 | 1,733 | 1,323 | 1,245 | 4,301 |

The MSBA understands that the District is proposing a design enrollment to accommodate approximately 1,501 in grades 9-12 at Belmont High School.

The MSBA's base enrollment forecast indicates that the Town of Belmont's grade K-4 enrollment will be somewhat flat and perhaps decline slightly through 2019 before it will return to a growth trend. Grade 6-8 enrollment will continue to grow through about 2019 then decline slightly. Grade 9-12 enrollment will continue to grow through 2023 then stabilize and perhaps decline slightly through 2027 at which point it will experience an increasing trend again. The results of the base enrollment forecast are as follows:

- The average grade 9-12 enrollment forecast for the projected period through the 2025-2026 school year is 1,380 students.
- The average grade 8-12 enrollment forecast for the projected period through the 2025-2026 school year is 1,730 students.
- The average kindergarten enrollment forecast for the projected period through the 2025-2026 school year is 335 students.

As a result of a sensitivity analysis performed by the MSBA on this base enrollment projection and further discussion with the District, the following adjustments have been made to the base enrollment projection:

- Sustained Enrollment Growth
  - The MSBA default methodology is based on the average future enrollment projected over a ten year period. Enrollment projections for the Town of Belmont

predict sustained enrollment growth in each grade group significantly beyond the ten year projection period.

- Based on the discussions between the District and the MSBA, the MSBA base model has been adjusted to use the average future enrollment projected over a 20 year period.
- This adjustment added the following totals to the projected averages for the District's proposed grade configurations as compared to the base enrollment projection:
  - For grades 9-12, the adjustment added approximately 40 students.
  - For grades 8-12, the adjustment added approximately 55 students.
  - For kindergarten, the adjustment added approximately 40 students.

- Out-of-District Enrollment

- In order to adjust for fluctuations to the out-of-district enrollment patterns of the District's residents over time, the MSBA has made an adjustment to the base enrollment projection.
- In order to make this adjustment, the MSBA adjusted the grade to grade survival ratios for the impacted grades by a total of 3.3% throughout a four year period in the projection.
- This adjustment added the following totals to the 20-year average enrollments for the District's proposed grade configurations as compared to the projection without this adjustment:
  - For grades 9-12, the adjustment added approximately 30 students.
  - For grades 8-12, the adjustment added approximately 30 students.
  - For kindergarten, the adjustment added approximately 0 students.

- Development

- In response to additional information provided by the District and discussion regarding future housing development, the District may experience increased in-migration beyond the historically typical range. Therefore, the MSBA model has been adjusted to use the five year 75<sup>th</sup> percentile cohort survival rate rather than the five year average survival rate which is utilized in the base enrollment methodology.
- This adjustment added the following totals to the 20-year average enrollments for the District's proposed grade configurations as compared to the projection without this adjustment:
  - For grades 9-12, the adjustment added approximately 25 students.
  - For grades 8-12, the adjustment added approximately 30 students.
  - For kindergarten, the adjustment added approximately 5 students.

Based on the historical enrollment trends of the District and the adjustments, analysis and discussions with the District described above, the MSBA recommends the following study enrollments for the potential project at the Belmont High School:

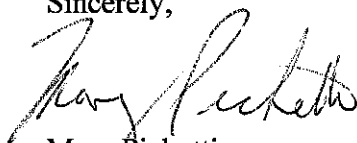
- For grades 9-12: 1,475 students.
- For grades 8-12: 1,845 students.
- For kindergarten: 380 students.

The MSBA's study enrollment recommendations assume full utilization of all school facilities. Accordingly, as part of the Feasibility Study, the District will be required to determine the enrollment capacity of each existing facility anticipated to remain in service. If grade reconfiguration is determined to be the Preferred Solution, the District will be required to demonstrate in the Preferred Schematic Report that any reconfiguration proposed as the District's Preferred Solution has been approved by the School Committee and other necessary District officials. Further, the MSBA will require a written plan from the District describing the process for determining local support for potential grade reconfiguration.

The MSBA believes that these study enrollments recommendation will position the District to efficiently meet space capacity needs throughout future enrollment variations. Please sign and return the attached certification within 14 calendar days to confirm agreement on these study enrollments. If the District feels that these study enrollments do not meet the needs of the District, please respond to this letter via e-mail to Jess Deleconio and propose three meeting/conference call times for which the District can be available to discuss enrollment.

If you have any questions regarding this matter, please do not hesitate to contact me or Jess Deleconio (Jess.Deleconio@massschoolbuildings.org) at 617-720-4466.

Sincerely,



Mary Richetti  
Director of Capital Planning

Cc: Legislative Delegation  
David J. Kale, Belmont Town Administrator  
Floyd S. Carman, Belmont Treasurer & Collector  
Lisa Fiore, Chair, Belmont School Committee  
John P. Phelan, Superintendent, Belmont Public Schools  
File: 10.2 Letters (Region 4)

**MASSACHUSETTS SCHOOL BUILDING AUTHORITY  
TOWN OF BELMONT  
BELMONT HIGH SCHOOL  
STUDY ENROLLMENT CERTIFICATION**

As a result of a collaborative analysis with the Massachusetts School Building Authority (the "MSBA") of enrollment projections and space capacity needs for the proposed project at the Belmont High School, the Town of Belmont hereby acknowledges and agrees that the design of preliminary options which may be evaluated as part of the feasibility study for the proposed project at the Belmont High School shall be based in accordance with the following:

| <b>Enrollment for Grades 9-12 at<br/>the Belmont High School</b> | <b>Enrollment for Grades 8-12 at<br/>the Belmont High School</b> | <b>Enrollment for Kindergarten at<br/>the Belmont High School</b> |
|--|--|---|
| 1,475 students   | 1,845 students   | 380 students  |

The space allowance for each alternative evaluated shall assume no more than the enrollments as detailed in the table above. The Town of Belmont acknowledges and agrees that it has no right or entitlement to any particular study enrollment, square feet per student space allowance, or total square footage referenced in the table above for the preliminary options, and further acknowledges and agrees that it shall not bring any or action, legal or equitable, against the MSBA, or any of its officers or employees, for the purpose of obtaining an increase in the study enrollment of Belmont High School that it has acknowledged and agreed herein. The Town of Belmont further acknowledges and agrees that the study enrollment presented herein is only applicable to the evaluation of preliminary options conducted as part of the feasibility study for the proposed Belmont High School project. Upon receipt of the District's recommendation of a Preferred Schematic Design for the proposed Belmont High School project, and subject to the MSBA's review of such recommendation, the MSBA shall forward a Design Enrollment Certification with a design enrollment specific to the recommended and approved Preferred Schematic Design, which shall supersede this certification.

The undersigned, for themselves and the Town of Belmont, hereby certify that they have read and understand the contents of this Study Enrollment Certification and that each of the above statements is true, complete and accurate. The undersigned hereby certify that they have been duly authorized by the appropriate governmental body to execute this Certification on behalf of the Town of Belmont and to bind the Town of Belmont to its terms.

\_\_\_\_\_  
Chief Executive Officer

\_\_\_\_\_  
Duly Authorized Representative of School  
Committee

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

\_\_\_\_\_  
Superintendent of Schools

\_\_\_\_\_  
Date