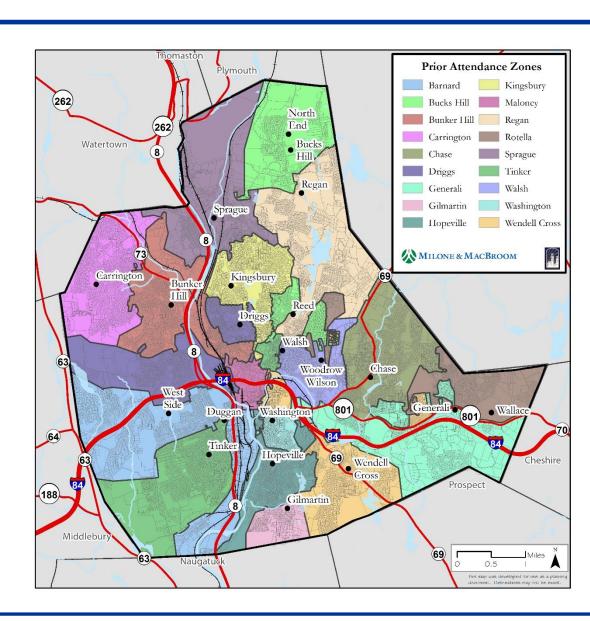


Public School Facility Utilization & Redistricting Study

School Facilities Utilization and Redistricting Study

DRAFT

June 15, 2015



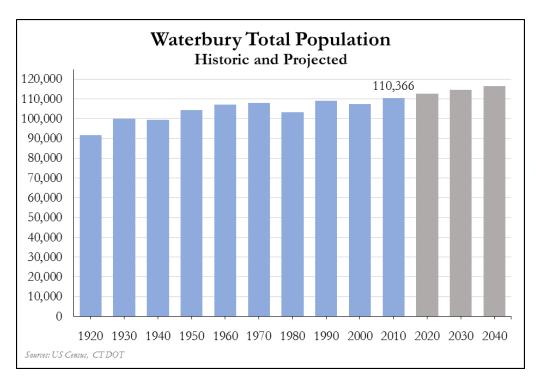


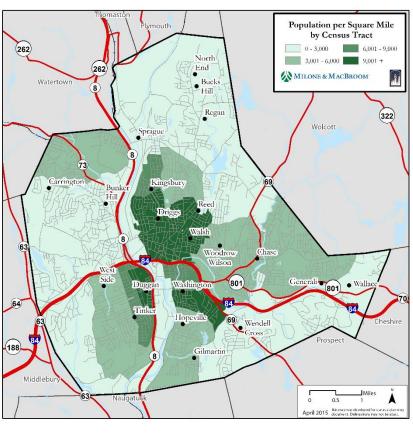
Introduction

- **♦** Factors Influencing Enrollments
 - **♦** Demographics
 - **♦** Housing
 - **♦ Enrollment Patterns and Trends**
- **♦** Enrollment Projections
- ♦ Facilities Capacity and Utilization
- **◇ Draft Recommendations for Discussion**
- **♦ Next Steps...**



Total Population





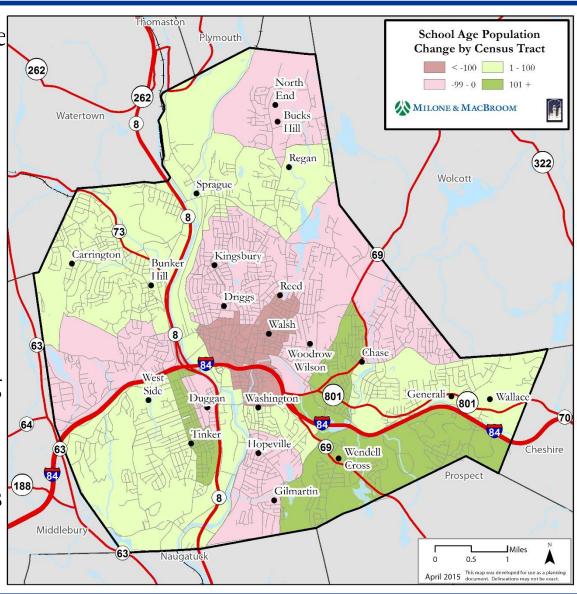
- ♦ Highest ever recorded population in City in 2010
- ♦ Projected to continue to grow
- Oreatest density in center, south end, and eastern neighborhoods





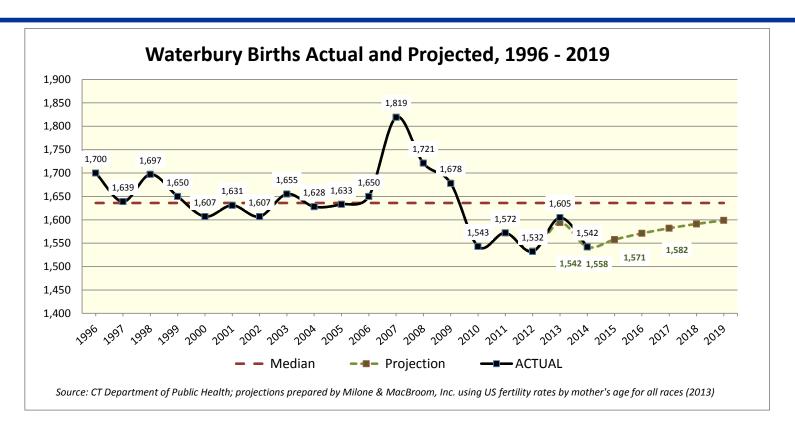
Population Change

- ♦ Total population increase2.9% from 2000 to 2010
- ♦ Total school age population stable from 2000 to 2010 (.3% increase)
- ♦ 10% of total population ages 5-17 that speaks a language other than English reports speaking English less than "very well"
 - ♦ Self-reported Census data
 - ♦ Under-reporting





Resident Births



- ♦ Large spike in births 2007-2009
 - ♦ Incoming Kindergarten classes of 2012-2014
- ♦ Births fell significantly below long-term median beginning in 2010





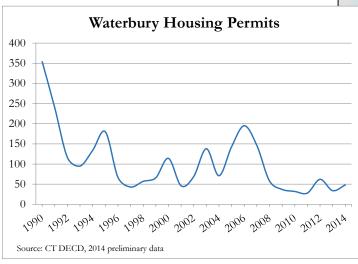
Demographics Key Findings

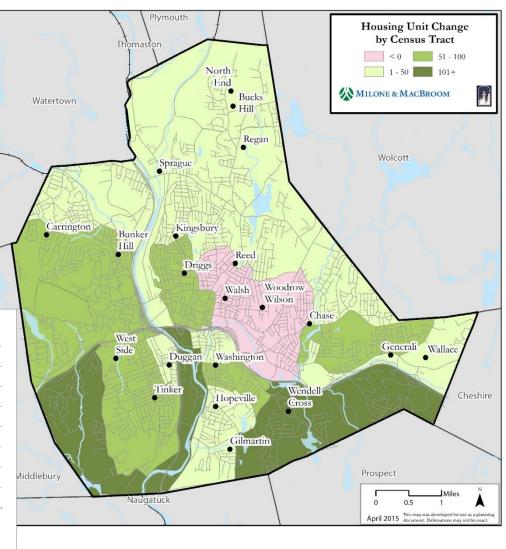
- Highest population levels ever and continuing to grow
- ♦ Eastern neighborhoods, such as East Mt., East End, Bouley Manor, Mill Plain, Scott Rd., Reidville, experiencing most growth
- ♦ English language learning need greatest in core and eastern side of City
- ♦ Unusually large spike in births from 2007 2009 likely influence on current elementary enrollments
 - ♦ Lower than usual annual births began in 2010 and are projected to continue at lower than usual rates



Housing Unit Change

- Housing units increased in western and eastern portions of City from 2000 to 2010
- New development lagged since Recession
- No major residential developments in permitting process



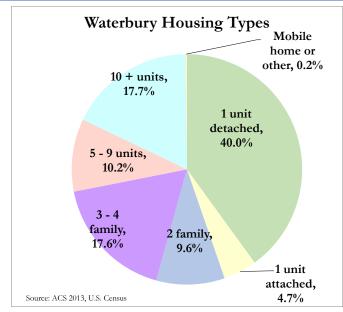


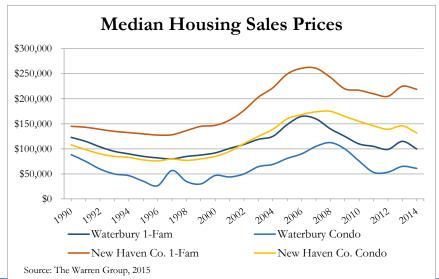


Housing Types

- ♦ Just over 50% of housing stock is apartment-style
- Affordable ownership units relative to region

| City | Section 8 Project-Based Units |
|------------|-------------------------------------|
| Hartford | 2,916 |
| Waterbury | 2,540 |
| New Haven | 2,224 |
| Stamford | 1,123 |
| Bridgeport | 1,042 |
| Norwalk | 524 |







Households

- Family households make up 59% of all households
 - ♦ 64% of all family households consist of 3 or more persons
- Non-family households are made up primarily of householders living alone (84%)

Waterbury Households

| 39,856 |
|--------|
| |

| Family households: | 23,330 |
|--------------------|--------|
| 2-person | 8,349 |
| 3-person | 7,501 |
| 4-person | 2,976 |
| 5-person | 2,717 |
| 6-person | 1,269 |
| 7+ person | 518 |

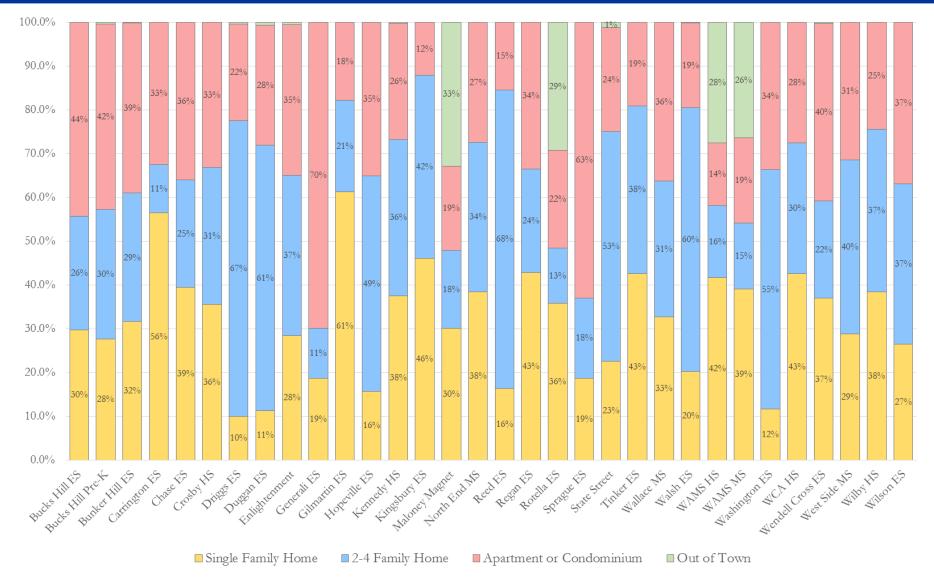
| Nonfamily households: | 16,526 |
|-----------------------|--------|
| 1-person | 13,804 |
| 2-person | 2,400 |
| 3-person | 187 |
| 4-person | 135 |
| 5+ person | 0 |
| | |

Source: ACS 2013



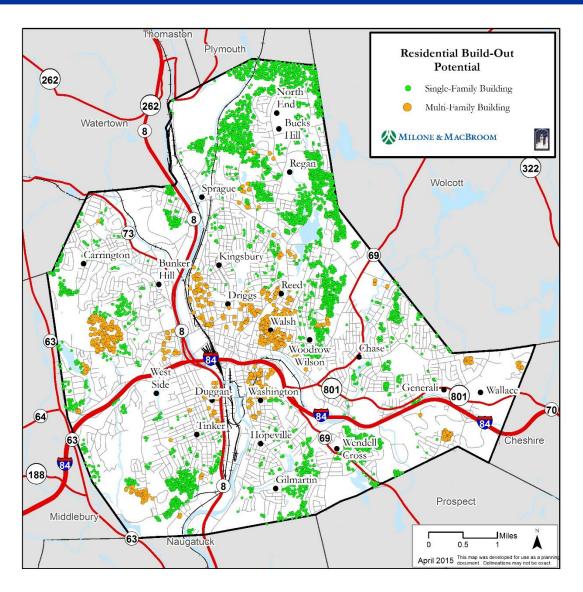


Enrollment by Housing Type





Residential Build-Out Analysis



Single-Family Build-Out

♦ 5,600 potential singlefamily dwelling units

Multi-Family Build-Out

♦ 4,230 potential multifamily dwelling units

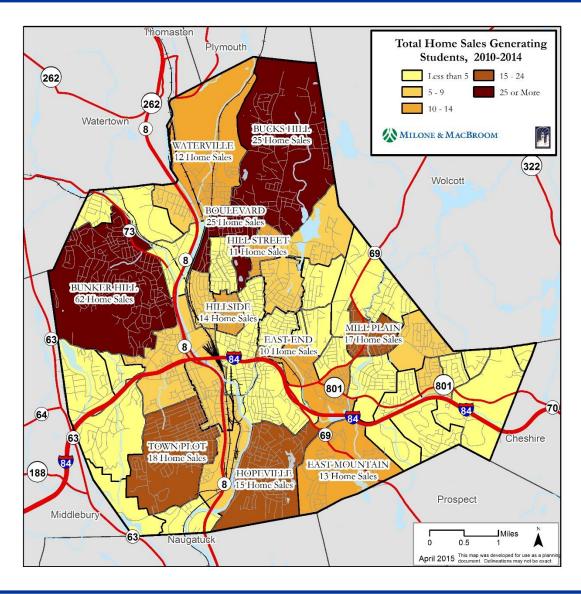
Total Residential Build-Out

- ♦ 9,830 potential new dwelling units
- ♦ 24,968 new residents





New Students Generated by Home Sales



♦ New enrollment from home sales is limited

- \$\delta\$ 308 new students were matched to home sales between 2010 and 2014
- ♦ 42 grade 9-12 students
- ♦ 258 grade K-8 students
- ♦ Covers home sales during the 9 months prior to enrollment
 (Jan Sep)
- Neighborhoods with highest rates of student generation from sales:

| Neighborhood | Total Home Sales | Home Sales Generating New Students | Average New Students Per Home Sale |
|--------------|------------------------|--|--|
| Hillside | 34 | 14 | 0.50 |
| Waterville | 59 | 12 | 0.20 |
| Boulevard | 139 | 25 | 0.18 |
| Fairmount | 32 | 6 | 0.16 |
| Mill Plain | 121 | 17 | 0.15 |
| Total | 3,156 | 308 | 0.10 |

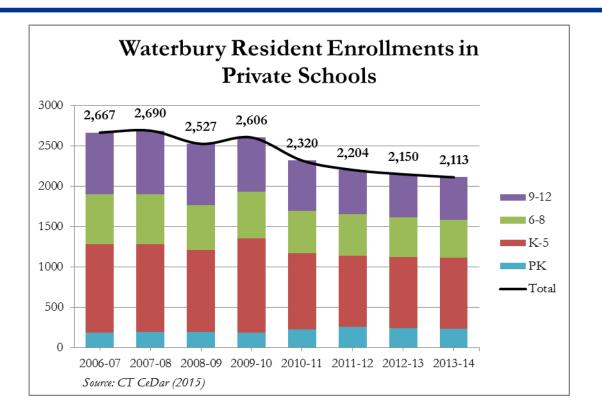


Housing Key Findings

- Housing unit increases affecting eastern and western areas of City
- ♦ Residential types scattered throughout City; however, the composition of residential land uses by school attendance zone vary widely
- ♦ Relatively little new construction permitted in the last five years
- ♦ Significant rental housing stock naturally lends itself to more transient population
- ♦ Housing sales not a significant driver of enrollment



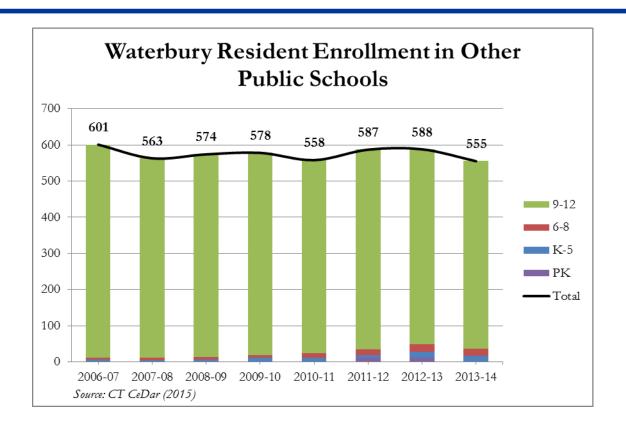
Non-Public School Enrollment Trends



- ♦ Declining private school enrollments since Great Recession began
- ♦ Largely parochial schools in the region declining enrollment and closures



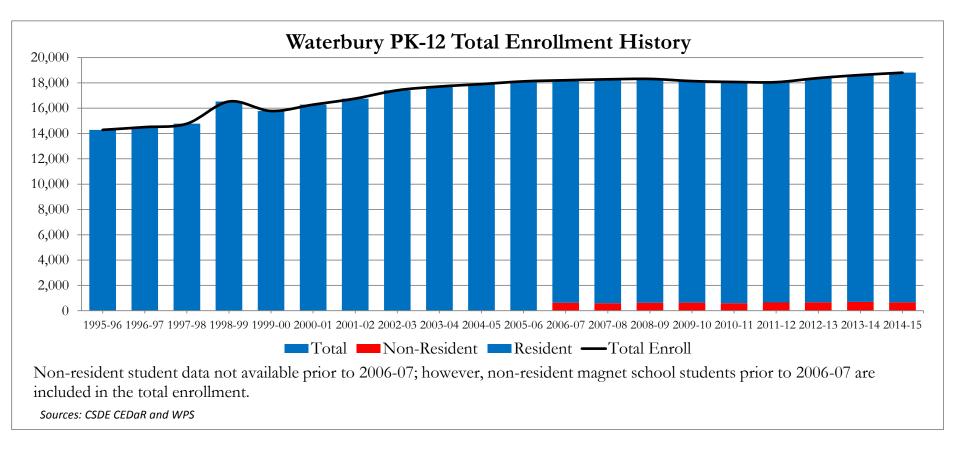
Other Public School Enrollment Trends



- Enrollments in other public schools relatively stable
- Primarily high schoolers enrolling in technical schools



PK-12 WPS Enrollment Trends

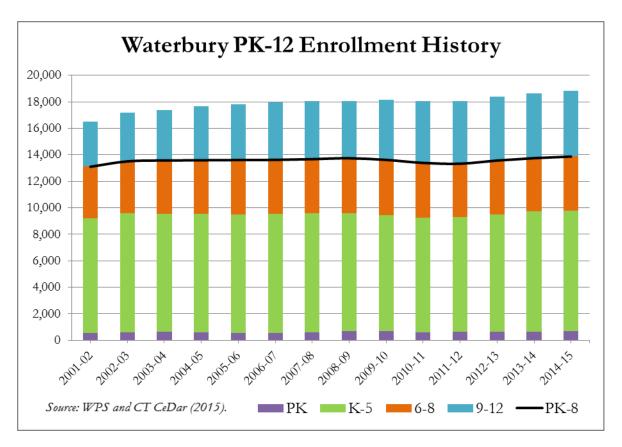


- ♦ Total enrollment increased 4.1% over the last four years
- ♦ Non-resident enrollments in WPS stable around 650 per year





PK-12 WPS Enrollment Trends



- ♦ Total K-8 enrollment increased 3.8% the last four years
- ♦ Largely the result of K-5 increases, which increased 5.0%



PK-12 Enrollment History

| Year | Birth Year | Births | PK | к | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | PK-8 | 9-12 | PK-12 |
|---------|---------------|--------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|
| 2001-02 | 1996 | 1,700 | 523 | 1,628 | 1,550 | 1,416 | 1,441 | 1,381 | 1,274 | 1,331 | 1,299 | 1,261 | 1,207 | 884 | 694 | 629 | 13,104 | 3,414 | 16,762 |
| 2002-03 | 1997 | 1,639 | 590 | 1,698 | 1,625 | 1,422 | 1,429 | 1,430 | 1,385 | 1,309 | 1,377 | 1,248 | 1,331 | 909 | 749 | 675 | 13,513 | 3,664 | 17,418 |
| 2003-04 | 1998 | 1,697 | 623 | 1,712 | 1,545 | 1,481 | 1,411 | 1,411 | 1,379 | 1,358 | 1,324 | 1,328 | 1,316 | 921 | 863 | 719 | 13,572 | 3,819 | 17,714 |
| 2004-05 | 1999 | 1,650 | 583 | 1,679 | 1,562 | 1,456 | 1,489 | 1,369 | 1,401 | 1,389 | 1,382 | 1,282 | 1,224 | 1,163 | 864 | 802 | 13,592 | 4,053 | 17,907 |
| 2005-06 | 2000 | 1,607 | 563 | 1,650 | 1,564 | 1,460 | 1,455 | 1,461 | 1,344 | 1,391 | 1,353 | 1,368 | 1,160 | 1,149 | 1,025 | 879 | 13,609 | 4,213 | 18,123 |
| 2006-07 | 2001 | 1,631 | 540 | 1,590 | 1,590 | 1,513 | 1,424 | 1,462 | 1,439 | 1,405 | 1,349 | 1,309 | 1,174 | 1,141 | 1,085 | 948 | 13,621 | 4,348 | 18,211 |
| 2007-08 | 2002 | 1,607 | 605 | 1,637 | 1,498 | 1,473 | 1,483 | 1,418 | 1,453 | 1,405 | 1,377 | 1,327 | 1,137 | 1,140 | 1,053 | 1,027 | 13,676 | 4,357 | 18,284 |
| 2008-09 | 2003 | 1,655 | 670 | 1,642 | 1,533 | 1,466 | 1,419 | 1,467 | 1,395 | 1,427 | 1,379 | 1,344 | 1,148 | 1,122 | 1,048 | 997 | 13,742 | 4,315 | 18,316 |
| 2009-10 | 2004 | 1,628 | 678 | 1,653 | 1,501 | 1,435 | 1,379 | 1,372 | 1,428 | 1,330 | 1,449 | 1,397 | 1,237 | 1,204 | 1,073 | 1,009 | 13,622 | 4,523 | 18,145 |
| 2010-11 | 2005 | 1,633 | 579 | 1,614 | 1,504 | 1,440 | 1,377 | 1,375 | 1,356 | 1,397 | 1,328 | 1,421 | 1,268 | 1,241 | 1,073 | 1,102 | 13,391 | 4,684 | 18,075 |
| 2011-12 | 2006 | 1,650 | 617 | 1,601 | 1,545 | 1,414 | 1,418 | 1,337 | 1,349 | 1,322 | 1,410 | 1,320 | 1,279 | 1,276 | 1,131 | 1,042 | 13,333 | 4,728 | 18,061 |
| 2012-13 | 2007 | 1,819 | 627 | 1,743 | 1,511 | 1,446 | 1,400 | 1,419 | 1,351 | 1,313 | 1,359 | 1,404 | 1,216 | 1,283 | 1,200 | 1,111 | 13,573 | 4,810 | 18,383 |
| 2013-14 | 2008 | 1,721 | 654 | 1,688 | 1,624 | 1,479 | 1,441 | 1,421 | 1,418 | 1,338 | 1,315 | 1,373 | 1,292 | 1,228 | 1,200 | 1,154 | 13,751 | 4,874 | 18,625 |
| 2014-15 | 2009 | 1,678 | 677 | 1,654 | 1,563 | 1,538 | 1,445 | 1,434 | 1,461 | 1,413 | 1,337 | 1,349 | 1,283 | 1,284 | 1,186 | 1,185 | 13,871 | 4,938 | 18,809 |

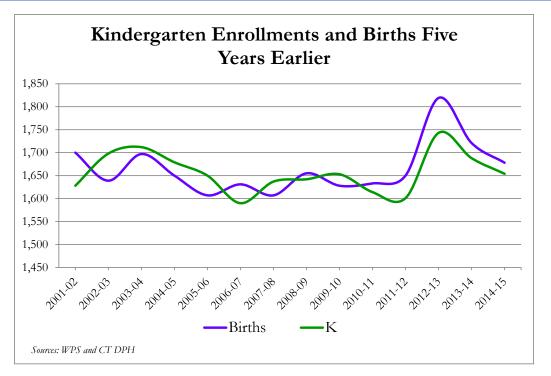
State Department of Education - Public School Information System, Summary Report, Waterbury Public Schools for 2009-10 through 2014-15.

♦ Enrollment history used to generate persistency ratios in order to project enrollments





Incoming Classes Compared to Births



| District | 2011-12 to 2013-14 Average Birth-K Ratio |
|---------------|--|
| Waterbury | 0.970 |
| Danbury | 0.758 |
| Bridgeport | 0.793 |
| East Hartford | 0.74 |
| Hartford | 0.821 |
| Manchester | 0.714 |
| Meriden | 0.800 |
| New Haven | 0.836 |
| Norwalk | 0.727 |
| Stamford | 0.746 |

- ♦ Incoming class sizes are generally responsive to birth numbers five years prior
- ♦ Recent increases in incoming class sizes clearly correspond to birth spike of 2007 2009
- ♦ Unusually high Birth K for an urban Connecticut community attractive district for families



K-8 Enrollment History by School

| | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 |
|---------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| B. W. Tinker | 568 | 581 | 521 | 552 | 543 | 533 | 573 | 555 | 550 | 508 | 566 | 563 | 572 | 572 |
| Barnard | 295 | 326 | 285 | 277 | 267 | 276 | 270 | 267 | 250 | 264 | | | | |
| Brooklyn Elementary | | | 132 | 172 | 167 | 184 | 229 | 205 | 203 | 189 | | | | |
| Bucks Hill | 532 | 569 | 534 | 548 | 588 | 541 | 566 | 538 | 547 | 542 | 554 | 408 | 536 | 546 |
| Bunker Hill | 477 | 479 | 511 | 493 | 476 | 487 | 501 | 505 | 470 | 467 | 478 | 485 | 496 | 497 |
| Carrington | 500 | 506 | 489 | 474 | 524 | 552 | 515 | 532 | 494 | 487 | 461 | 457 | 415 | 455 |
| Chase | 774 | 789 | 798 | 806 | 835 | 849 | 797 | 802 | 784 | 715 | 756 | 756 | 783 | 816 |
| Driggs | 582 | 591 | 583 | 558 | 541 | 547 | 536 | 560 | 535 | 515 | 530 | 541 | 533 | 515 |
| Duggan | | | | | | | | | | | 348 | 401 | 430 | 432 |
| F. J. Kingsbury | 509 | 570 | 550 | 487 | 500 | 516 | 493 | 465 | 471 | 473 | 515 | 510 | 515 | 512 |
| Gilmartin | 260 | 288 | 262 | 209 | 214 | 204 | 220 | 208 | 214 | 296 | 364 | 452 | 483 | 471 |
| Hopeville | 425 | 438 | 390 | 444 | 457 | 469 | 464 | 437 | 414 | 417 | 445 | 460 | 485 | 475 |
| Maloney Interdistrict Magnet | 506 | 477 | 482 | 519 | 491 | 492 | 509 | 519 | 521 | 535 | 531 | 529 | 530 | 520 |
| Margaret M. Generali Elementary | 595 | 578 | 584 | 581 | 599 | 617 | 561 | 596 | 582 | 557 | 533 | 585 | 601 | 603 |
| Michael F. Wallace Middle | 1,323 | 1,319 | 1,364 | 1,337 | 1,360 | 1,346 | 1,342 | 1,329 | 1,340 | 1,348 | 1,223 | 1,220 | 1,171 | 1,159 |
| North End Middle | 1,220 | 1,176 | 1,166 | 1,180 | 1,261 | 1,252 | 1,257 | 1,226 | 1,231 | 1,206 | 1,195 | 1,105 | 1,050 | 1,016 |
| Jonathan Reed | | | | | | | | | | | | 293 | 343 | 402 |
| Regan | 298 | 317 | 317 | 324 | 330 | 294 | 313 | 299 | 291 | 280 | 292 | 254 | 261 | 279 |
| Rotella Interdistrict Magnet | 439 | 501 | 532 | 536 | 538 | 541 | 542 | 542 | 542 | 544 | 543 | 543 | 542 | 541 |
| Sprague | 388 | 366 | 383 | 388 | 402 | 423 | 404 | 392 | 369 | 351 | 351 | 381 | 455 | 429 |
| Walsh | 498 | 564 | 540 | 553 | 523 | 515 | 534 | 538 | 526 | 549 | 484 | 493 | 446 | 443 |
| Washington | 346 | 318 | 344 | 314 | 296 | 322 | 299 | 299 | 297 | 306 | 335 | 481 | 323 | 327 |
| Waterbury Arts Magnet (Middle) | | | | 300 | 310 | 316 | 313 | 319 | 316 | 319 | 330 | 333 | 331 | 330 |
| Wendell L. Cross | 307 | 344 | 325 | 351 | 344 | 374 | 348 | 336 | 350 | 358 | 359 | 340 | 350 | 350 |
| West Side Middle | 1,318 | 1,396 | 1,480 | 1,236 | 1,181 | 1,149 | 1,197 | 1,276 | 1,193 | 1,147 | 1,076 | 1,057 | 988 | 1,021 |
| Woodrow Wilson | 421 | 429 | 377 | 370 | 299 | 282 | 288 | 327 | 348 | 353 | 349 | 359 | 373 | 391 |



Magnet

K-8

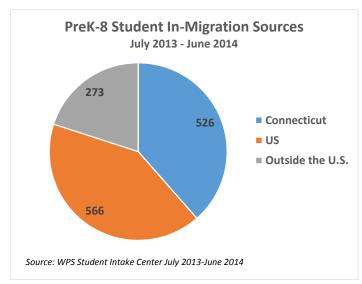
K-5

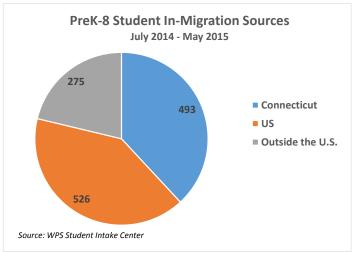
6-8



Student In-Migration Analysis

- Analyzed WPS Intake Center data for July 2013 June 2014 and July 2014 May 2015
- ♦ Puerto Rico and Dominican Republic consistently account for about 75% of enrollment from outside of the US
 - Source of significant ELL/bilingual education needs
- In-migration from within Connecticut largely from Naugatuck and large cities in the state: New Haven, Bridgeport, New Britain, Hartford, Meriden, Danbury and Torrington



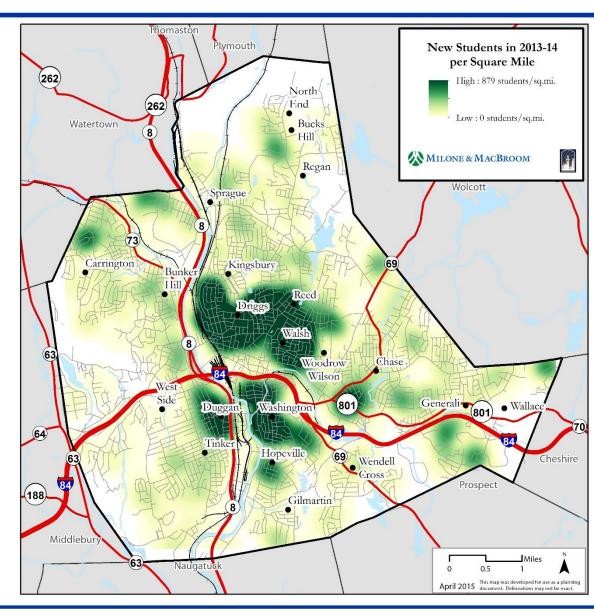






Student In-Migration Analysis

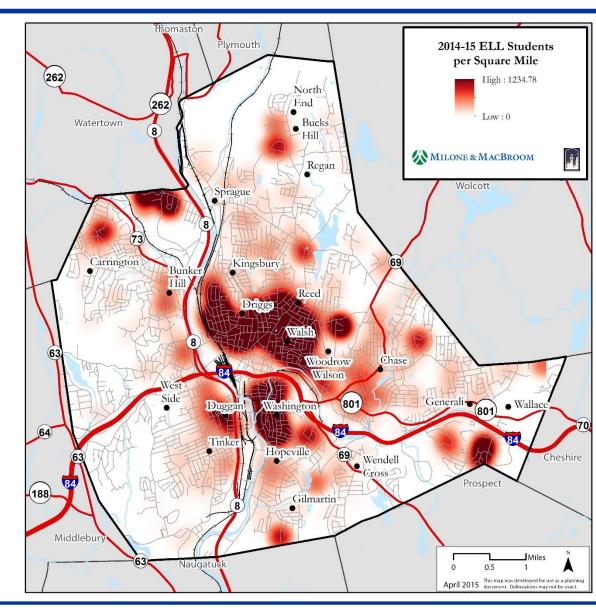
- Highest concentrations
 of new students in
 following
 neighborhoods:
 - ♦ Brooklyn
 - ♦ Crownbrook
 - ♦ East End
 - ♦ Hillside
 - Walnut/Orange/Walsh
 - ♦ Washington Hill
 - ♦ West End
 - ♦ Willow Plaza





Districtwide Language Needs

- Highest concentrations of existing ELL and bilingual students in close proximity to following schools:
 - ♦ Driggs
 - ♦ Hopeville
 - ♦ Reed
 - ♦ Walsh
 - ♦ Washington
 - ♦ Wilson





Enrollment Projections Primer

- ♦ The cohort survival methodology relies on observed data from the recent past in order to project the near future
- ♦ Persistency Ratios calculated from historic enrollment data to determine growth or loss in a class as it progresses through school system
- Persistency Ratios account for the various external factors affecting enrollments: housing characteristics, residential development, economic conditions, student transfers in and out of system, and student mobility
- ♦ Changes in population, housing stock and tenure, and economic conditions help explain persistency ratios
- Recent instability in economic climate adds variability to enrollments, births, and residential mobility



Persistency Ratios

| Grade to Grade Persistency Ratios by School Year | |
|--|--|
| 2002-03 to 2014-15 | |

| Birth-K | K-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | Est. Migra- tion ¹ |
|---------|--|---|---|---|--|--|--|---|---|--|--|---|---|
| 1.0360 | 0.9982 | 0.9174 | 1.0092 | 0.9924 | 1.0029 | 1.0275 | 1.0346 | 0.9607 | 1.0555 | 0.7531 | 0.8473 | 0.9726 | |
| 1.0088 | 0.9099 | 0.9114 | 0.9923 | 0.9874 | 0.9643 | 0.9805 | 1.0115 | 0.9644 | 1.0545 | 0.6920 | 0.9494 | 0.9599 | 0.44% |
| 1.0176 | 0.9124 | 0.9424 | 1.0054 | 0.9702 | 0.9929 | 1.0073 | 1.0177 | 0.9683 | 0.9217 | 0.8837 | 0.9381 | 0.9293 | -1.69% |
| 1.0268 | 0.9315 | 0.9347 | 0.9993 | 0.9812 | 0.9817 | 0.9929 | 0.9741 | 0.9899 | 0.9048 | 0.9387 | 0.8813 | 1.0174 | -0.62% |
| 0.9749 | 0.9636 | 0.9674 | 0.9753 | 1.0048 | 0.9849 | 1.0454 | 0.9698 | 0.9675 | 0.8582 | 0.9836 | 0.9443 | 0.9249 | -1.34% |
| 1.0187 | 0.9421 | 0.9264 | 0.9802 | 0.9958 | 0.9938 | 0.9764 | 0.9801 | 0.9837 | 0.8686 | 0.9710 | 0.9229 | 0.9465 | -0.90% |
| 0.9921 | 0.9365 | 0.9786 | 0.9633 | 0.9892 | 0.9838 | 0.9821 | 0.9815 | 0.9760 | 0.8651 | 0.9868 | 0.9193 | 0.9468 | -1.50% |
| 1.0154 | 0.9141 | 0.9367 | 0.9379 | 0.9669 | 0.9748 | 0.9656 | 1.0028 | 0.9942 | 0.9256 | 1.0078 | 0.9394 | 1.0773 | -2.07% |
| 0.9890 | 0.9093 | 0.9594 | 0.9610 | 0.9993 | 0.9920 | 0.9958 | 0.9896 | 0.9860 | 0.9322 | 1.0032 | 0.9110 | 1.2353 | -2.65% |
| 0.9703 | 0.9573 | 0.9428 | 0.9833 | 0.9717 | 0.9869 | 0.9816 | 1.0028 | 0.9827 | 0.9128 | 0.9930 | 0.9046 | 1.1898 | -1.29% |
| 0.9582 | 0.9438 | 0.9353 | 0.9880 | 1.0021 | 1.0075 | 0.9683 | 1.0172 | 0.9832 | 0.9282 | 0.9961 | 0.9456 | 0.9841 | -1.50% |
| 0.9808 | 0.9317 | 0.9788 | 0.9965 | 1.0150 | 0.9993 | 0.9904 | 1.0015 | 1.0103 | 0.9202 | 1.0099 | 0.9353 | 0.9617 | -0.58% |
| 0.9857 | 0.9259 | 0.9470 | 0.9770 | 0.9951 | 1.0281 | 0.9965 | 0.9993 | 1.0259 | 0.9345 | 0.9938 | 0.9658 | 0.9875 | 0.22% |
| 0.9980 | 0.9366 | 0.9445 | 0.9822 | 0.9901 | 0.9918 | 0.9931 | 0.9986 | 0.9841 | 0.9294 | 0.9394 | 0.9234 | 1.0102 | |
| 0.9768 | 0.9336 | 0.9527 | 0.9812 | 0.9967 | 1.0028 | 0.9865 | 1.0021 | 0.9976 | 0.9256 | 0.9992 | 0.9325 | 1.0717 | |
| 0.9749 | 0.9338 | 0.9537 | 0.9872 | 1.0041 | 1.0116 | 0.9850 | 1.0060 | 1.0065 | 0.9276 | 0.9999 | 0.9489 | 0.9777 | |
| 0.9833 | 0.9288 | 0.9629 | 0.9868 | 1.0051 | 1.0137 | 0.9934 | 1.0004 | 1.0181 | 0.9273 | 1.0018 | 0.9506 | 0.9746 | |
| 0.9795 | 0.9308 | 0.9557 | 0.9854 | 1.0029 | 1.0151 | 0.9897 | 1.0030 | 1.0136 | 0.9287 | 0.9995 | 0.9523 | 0.9783 | |
| | 1.0360 1.0088 1.0176 1.0268 0.9749 1.0187 0.9921 1.0154 0.9890 0.9703 0.9582 0.9808 0.9857 0.9980 0.9768 0.9749 | 1.0360 0.9982 1.0088 0.9099 1.0176 0.9124 1.0268 0.9315 0.9749 0.9636 1.0187 0.9421 0.9921 0.9365 1.0154 0.9141 0.9890 0.9093 0.9703 0.9573 0.9582 0.9438 0.9808 0.9317 0.9857 0.9259 0.9980 0.9366 0.9768 0.9336 0.9749 0.9338 0.9833 0.9288 | 1.0360 0.9982 0.9174 1.0088 0.9099 0.9114 1.0176 0.9124 0.9424 1.0268 0.9315 0.9347 0.9749 0.9636 0.9674 1.0187 0.9421 0.9264 0.9921 0.9365 0.9786 1.0154 0.9141 0.9367 0.9890 0.9093 0.9594 0.9703 0.9573 0.9428 0.9582 0.9438 0.9353 0.9808 0.9317 0.9788 0.9857 0.9259 0.9470 0.9980 0.9366 0.9445 0.9749 0.9338 0.9537 0.9833 0.9288 0.9629 | 1.0360 0.9982 0.9174 1.0092 1.0088 0.9099 0.9114 0.9923 1.0176 0.9124 0.9424 1.0054 1.0268 0.9315 0.9347 0.9993 0.9749 0.9636 0.9674 0.9753 1.0187 0.9421 0.9264 0.9802 0.9921 0.9365 0.9786 0.9633 1.0154 0.9141 0.9367 0.9379 0.9890 0.9093 0.9594 0.9610 0.9703 0.9573 0.9428 0.9833 0.9582 0.9438 0.9353 0.9880 0.9808 0.9317 0.9788 0.9965 0.9857 0.9259 0.9470 0.9770 0.9980 0.9366 0.9445 0.9822 0.9768 0.9336 0.9527 0.9812 0.9749 0.9338 0.9537 0.9872 0.9833 0.9288 0.9629 0.9868 | 1.0360 0.9982 0.9174 1.0092 0.9924 1.0088 0.9099 0.9114 0.9923 0.9874 1.0176 0.9124 0.9424 1.0054 0.9702 1.0268 0.9315 0.9347 0.9993 0.9812 0.9749 0.9636 0.9674 0.9753 1.0048 1.0187 0.9421 0.9264 0.9802 0.9958 0.9921 0.9365 0.9786 0.9633 0.9892 1.0154 0.9141 0.9367 0.9379 0.9669 0.9890 0.9093 0.9594 0.9610 0.9993 0.9703 0.9573 0.9428 0.9833 0.9717 0.9582 0.9438 0.9353 0.9880 1.0021 0.9808 0.9317 0.9788 0.9965 1.0150 0.9857 0.9259 0.9470 0.9770 0.9951 0.9968 0.9336 0.9527 0.9812 0.9967 0.9749 0.9338 0.9537 0.987 | 1.0360 0.9982 0.9174 1.0092 0.9924 1.0029 1.0088 0.9099 0.9114 0.9923 0.9874 0.9643 1.0176 0.9124 0.9424 1.0054 0.9702 0.9929 1.0268 0.9315 0.9347 0.9993 0.9812 0.9817 0.9749 0.9636 0.9674 0.9753 1.0048 0.9849 1.0187 0.9421 0.9264 0.9802 0.9958 0.9938 0.9921 0.9365 0.9786 0.9633 0.9892 0.9838 1.0154 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0.9636 0.9674 0.9753 1.0048 0.9849 1.0454 0.9698 1.0187 0.9421 0.9264 0.9802 0.9958 0.9938 0.9764 0.9801 0.9921 0.9365 0.9786 0.9633 0.9892 0.9838 0.9821 0.9815 1.0154 0.9141 0.9367 0.9379 0.9669 0.9748 0.9656 1.0028 0.9890 0.9093 0.9594 0.9610 0.9993 0.9920 0.9958 0.9866 0.9703 0.9573 0.9428 0.9833 0.9717 0.98</td> <td>1.0360 0.9982 0.9174 1.0092 0.9924 1.0029 1.0275 1.0346 0.9607 1.0088 0.9099 0.9114 0.9923 0.9874 0.9643 0.9805 1.0115 0.9644 1.0176 0.9124 0.9424 1.0054 0.9702 0.9929 1.0073 1.0177 0.9683 1.0268 0.9315 0.9347 0.9993 0.9812 0.9817 0.9929 0.9741 0.9899 0.9749 0.9636 0.9674 0.9753 1.0048 0.9849 1.0454 0.9698 0.9675 1.0187 0.9421 0.9264 0.9802 0.9958 0.9938 0.9764 0.9801 0.9837 0.9921 0.9365 0.9786 0.9633 0.9892 0.9838 0.9821 0.9815 0.9760 1.0154 0.9141 0.9367 0.9379 0.9669 0.9748 0.9656 1.0028 0.9842 0.9890 0.9093 0.9594 0.9610 0.9993 0.9920 <td< td=""><td>1.0360 0.9982 0.9174 1.0092 0.9924 1.0029 1.0275 1.0346 0.9607 1.0555 1.0088 0.9099 0.9114 0.9923 0.9874 0.9643 0.9805 1.0115 0.9644 1.0545 1.0176 0.9124 0.9424 1.0054 0.9702 0.9929 1.0073 1.0177 0.9683 0.9217 1.0268 0.9315 0.9347 0.9993 0.9812 0.9817 0.9929 0.9741 0.9899 0.9048 0.9749 0.9636 0.9674 0.9753 1.0048 0.9849 1.0454 0.9698 0.9675 0.8582 1.0187 0.9421 0.9264 0.9802 0.9958 0.9938 0.9764 0.9801 0.9837 0.8686 0.9921 0.9365 0.9786 0.9633 0.9892 0.9838 0.9821 0.9815 0.9760 0.8651 1.0154 0.9141 0.9367 0.9379 0.9669 0.9748 0.9656 1.0028 0.9942</td><td>1.0360 0.9982 0.9174 1.0092 0.9924 1.0029 1.0275 1.0346 0.9607 1.0555 0.7531 1.0088 0.9099 0.9114 0.9923 0.9874 0.9643 0.9805 1.0115 0.9644 1.0545 0.6920 1.0176 0.9124 0.9424 1.0054 0.9702 0.9929 1.0073 1.0177 0.9683 0.9217 0.8837 1.0268 0.9315 0.9347 0.9993 0.9812 0.9817 0.9929 0.9741 0.9899 0.9048 0.9387 0.9749 0.9636 0.9674 0.9753 1.0048 0.9849 1.0454 0.9698 0.9675 0.8582 0.9836 1.0187 0.9421 0.9264 0.9802 0.9958 0.9938 0.9764 0.9801 0.9837 0.8686 0.9710 0.9921 0.9365 0.9786 0.9633 0.9892 0.9838 0.9821 0.9815 0.9760 0.8651 0.9868 1.0154 0.9141</td><td>1.0360 0.9982 0.9174 1.0092 0.9924 1.0029 1.0275 1.0346 0.9607 1.0555 0.7531 0.8473 1.0088 0.9099 0.9114 0.9923 0.9874 0.9643 0.9805 1.0115 0.9644 1.0545 0.6920 0.9494 1.0176 0.9124 0.9424 1.0054 0.9702 0.9929 1.0073 1.0177 0.9683 0.9217 0.8837 0.9381 1.0268 0.9315 0.9347 0.9993 0.9812 0.9817 0.9929 0.9741 0.9899 0.9048 0.9387 0.8813 0.9749 0.9636 0.9674 0.9753 1.0048 0.9849 1.0454 0.9698 0.9675 0.8582 0.9836 0.9443 1.0187 0.9421 0.9264 0.9802 0.9958 0.9938 0.9764 0.9801 0.9837 0.8686 0.9710 0.9229 0.9921 0.9365 0.9786 0.9633 0.9892 0.9838 0.9821 0.9815</td><td>1.0360 0.9982 0.9174 1.0092 0.9924 1.0029 1.0275 1.0346 0.9607 1.0555 0.7531 0.8473 0.9726 1.0088 0.9099 0.9114 0.9923 0.9874 0.9643 0.9805 1.0115 0.9644 1.0545 0.6920 0.9494 0.9599 1.0176 0.9124 0.9424 1.0054 0.9702 0.9929 1.0073 1.0177 0.9683 0.9217 0.8837 0.9381 0.9293 1.0268 0.9315 0.9347 0.9993 0.9812 0.9817 0.9929 0.9741 0.9899 0.9048 0.9387 0.8813 1.0174 0.9749 0.9636 0.9674 0.9753 1.0048 0.9849 1.0454 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0.9849 1.0454 0.9698 0.9675 1.0187 0.9421 0.9264 0.9802 0.9958 0.9938 0.9764 0.9801 0.9837 0.9921 0.9365 0.9786 0.9633 0.9892 0.9838 0.9821 0.9815 0.9760 1.0154 0.9141 0.9367 0.9379 0.9669 0.9748 0.9656 1.0028 0.9842 0.9890 0.9093 0.9594 0.9610 0.9993 0.9920 <td< td=""><td>1.0360 0.9982 0.9174 1.0092 0.9924 1.0029 1.0275 1.0346 0.9607 1.0555 1.0088 0.9099 0.9114 0.9923 0.9874 0.9643 0.9805 1.0115 0.9644 1.0545 1.0176 0.9124 0.9424 1.0054 0.9702 0.9929 1.0073 1.0177 0.9683 0.9217 1.0268 0.9315 0.9347 0.9993 0.9812 0.9817 0.9929 0.9741 0.9899 0.9048 0.9749 0.9636 0.9674 0.9753 1.0048 0.9849 1.0454 0.9698 0.9675 0.8582 1.0187 0.9421 0.9264 0.9802 0.9958 0.9938 0.9764 0.9801 0.9837 0.8686 0.9921 0.9365 0.9786 0.9633 0.9892 0.9838 0.9821 0.9815 0.9760 0.8651 1.0154 0.9141 0.9367 0.9379 0.9669 0.9748 0.9656 1.0028 0.9942</td><td>1.0360 0.9982 0.9174 1.0092 0.9924 1.0029 1.0275 1.0346 0.9607 1.0555 0.7531 1.0088 0.9099 0.9114 0.9923 0.9874 0.9643 0.9805 1.0115 0.9644 1.0545 0.6920 1.0176 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0.9924 1.0029 1.0275 1.0346 0.9607 1.0555 0.7531 0.8473 0.9726 1.0088 0.9099 0.9114 0.9923 0.9874 0.9643 0.9805 1.0115 0.9644 1.0545 0.6920 0.9494 0.9599 1.0176 0.9124 0.9424 1.0054 0.9702 0.9929 1.0073 1.0177 0.9683 0.9217 0.8837 0.9381 0.9293 1.0268 0.9315 0.9347 0.9993 0.9812 0.9817 0.9929 0.9741 0.9899 0.9048 0.9387 0.8813 1.0174 0.9749 0.9636 0.9674 0.9753 1.0048 0.9849 1.0454 0.9698 0.9675 0.8582 0.9836 0.9443 0.9249 1.0187 0.9421 0.9264 0.9802 0.9958 0.9938 0.9764 0.9801 0.9837 0.8686 0.9710 0.9229 0.9465 0.9921 0.9365</td></td<> | 1.0360 0.9982 0.9174 1.0092 0.9924 1.0029 1.0275 1.0346 0.9607 1.0555 1.0088 0.9099 0.9114 0.9923 0.9874 0.9643 0.9805 1.0115 0.9644 1.0545 1.0176 0.9124 0.9424 1.0054 0.9702 0.9929 1.0073 1.0177 0.9683 0.9217 1.0268 0.9315 0.9347 0.9993 0.9812 0.9817 0.9929 0.9741 0.9899 0.9048 0.9749 0.9636 0.9674 0.9753 1.0048 0.9849 1.0454 0.9698 0.9675 0.8582 1.0187 0.9421 0.9264 0.9802 0.9958 0.9938 0.9764 0.9801 0.9837 0.8686 0.9921 0.9365 0.9786 0.9633 0.9892 0.9838 0.9821 0.9815 0.9760 0.8651 1.0154 0.9141 0.9367 0.9379 0.9669 0.9748 0.9656 1.0028 0.9942 | 1.0360 0.9982 0.9174 1.0092 0.9924 1.0029 1.0275 1.0346 0.9607 1.0555 0.7531 1.0088 0.9099 0.9114 0.9923 0.9874 0.9643 0.9805 1.0115 0.9644 1.0545 0.6920 1.0176 0.9124 0.9424 1.0054 0.9702 0.9929 1.0073 1.0177 0.9683 0.9217 0.8837 1.0268 0.9315 0.9347 0.9993 0.9812 0.9817 0.9929 0.9741 0.9899 0.9048 0.9387 0.9749 0.9636 0.9674 0.9753 1.0048 0.9849 1.0454 0.9698 0.9675 0.8582 0.9836 1.0187 0.9421 0.9264 0.9802 0.9958 0.9938 0.9764 0.9801 0.9837 0.8686 0.9710 0.9921 0.9365 0.9786 0.9633 0.9892 0.9838 0.9821 0.9815 0.9760 0.8651 0.9868 1.0154 0.9141 | 1.0360 0.9982 0.9174 1.0092 0.9924 1.0029 1.0275 1.0346 0.9607 1.0555 0.7531 0.8473 1.0088 0.9099 0.9114 0.9923 0.9874 0.9643 0.9805 1.0115 0.9644 1.0545 0.6920 0.9494 1.0176 0.9124 0.9424 1.0054 0.9702 0.9929 1.0073 1.0177 0.9683 0.9217 0.8837 0.9381 1.0268 0.9315 0.9347 0.9993 0.9812 0.9817 0.9929 0.9741 0.9899 0.9048 0.9387 0.8813 0.9749 0.9636 0.9674 0.9753 1.0048 0.9849 1.0454 0.9698 0.9675 0.8582 0.9836 0.9443 1.0187 0.9421 0.9264 0.9802 0.9958 0.9938 0.9764 0.9801 0.9837 0.8686 0.9710 0.9229 0.9921 0.9365 0.9786 0.9633 0.9892 0.9838 0.9821 0.9815 | 1.0360 0.9982 0.9174 1.0092 0.9924 1.0029 1.0275 1.0346 0.9607 1.0555 0.7531 0.8473 0.9726 1.0088 0.9099 0.9114 0.9923 0.9874 0.9643 0.9805 1.0115 0.9644 1.0545 0.6920 0.9494 0.9599 1.0176 0.9124 0.9424 1.0054 0.9702 0.9929 1.0073 1.0177 0.9683 0.9217 0.8837 0.9381 0.9293 1.0268 0.9315 0.9347 0.9993 0.9812 0.9817 0.9929 0.9741 0.9899 0.9048 0.9387 0.8813 1.0174 0.9749 0.9636 0.9674 0.9753 1.0048 0.9849 1.0454 0.9698 0.9675 0.8582 0.9836 0.9443 0.9249 1.0187 0.9421 0.9264 0.9802 0.9958 0.9938 0.9764 0.9801 0.9837 0.8686 0.9710 0.9229 0.9465 0.9921 0.9365 |

Source: Calculated by MMI from CSDE CEDaR and Waterbury Public Schools for 2009-10 through 2014-15

- Persistency ratios account for growth or loss in a class as it progresses through school system
- Ratios factor in the various external factors affecting enrollments: housing characteristics, residential development, economic conditions, student transfers in and out of system, and student mobility
- ♦ Include magnet schools



¹ Derived from the comparison of 3-8 enrollment aggregate one year with the 2-7 aggregate from the prior year



Enrollment Projections

| | Birth Year | Births | PK | K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | PK-5 | 6-8 | 9-12 | PK-12 |
|---------|---------------|--------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 2014-15 | 2009 | 1,678 | 677 | 1,654 | 1,563 | 1,538 | 1,445 | 1,434 | 1,461 | 1,413 | 1,337 | 1,349 | 1,283 | 1,284 | 1,186 | 1,185 | 9,772 | 4,099 | 4,938 | 18,809 |
| 2015-16 | 2010 | 1,543 | 677 | 1,517 | 1,536 | 1,505 | 1,518 | 1,452 | 1,454 | 1,451 | 1,414 | 1,361 | 1,251 | 1,285 | 1,221 | 1,156 | 9,659 | 4,226 | 4,913 | 18,798 |
| 2016-17 | 2011 | 1,572 | 677 | 1,546 | 1,409 | 1,479 | 1,485 | 1,525 | 1,472 | 1,444 | 1,452 | 1,439 | 1,262 | 1,253 | 1,222 | 1,189 | 9,594 | 4,335 | 4,927 | 18,856 |
| 2017-18 | 2012 | 1,535 | 677 | 1,509 | 1,436 | 1,357 | 1,460 | 1,493 | 1,546 | 1,463 | 1,445 | 1,478 | 1,335 | 1,265 | 1,191 | 1,191 | 9,478 | 4,385 | 4,981 | 18,844 |
| 2018-19 | 2013 | 1,607 | 717 | 1,581 | 1,402 | 1,382 | 1,339 | 1,467 | 1,513 | 1,536 | 1,463 | 1,471 | 1,371 | 1,337 | 1,202 | 1,161 | 9,401 | 4,470 | 5,071 | 18,942 |
| 2019-20 | 2014 | 1,544 | 757 | 1,518 | 1,468 | 1,350 | 1,364 | 1,346 | 1,487 | 1,503 | 1,537 | 1,490 | 1,364 | 1,373 | 1,271 | 1,172 | 9,290 | 4,530 | 5,180 | 19,000 |
| 2020-21 | 2015 | 1,581 | 797 | 1,554 | 1,410 | 1,414 | 1,332 | 1,371 | 1,364 | 1,478 | 1,504 | 1,565 | 1,381 | 1,366 | 1,305 | 1,239 | 9,242 | 4,546 | 5,292 | 19,080 |
| 2021-22 | 2016 | 1,592 | 837 | 1,565 | 1,444 | 1,358 | 1,395 | 1,339 | 1,390 | 1,355 | 1,478 | 1,531 | 1,451 | 1,384 | 1,299 | 1,272 | 9,327 | 4,364 | 5,406 | 19,098 |
| 2022-23 | 2017 | 1,588 | 877 | 1,562 | 1,454 | 1,390 | 1,340 | 1,402 | 1,357 | 1,381 | 1,356 | 1,505 | 1,420 | 1,453 | 1,315 | 1,266 | 9,381 | 4,241 | 5,455 | 19,078 |
| 2023-24 | 2018 | 1,599 | 877 | 1,572 | 1,450 | 1,400 | 1,372 | 1,347 | 1,421 | 1,348 | 1,381 | 1,380 | 1,395 | 1,422 | 1,382 | 1,282 | 9,439 | 4,110 | 5,482 | 19,031 |
| 2024-25 | 2019 | 1,604 | 877 | 1,577 | 1,461 | 1,397 | 1,382 | 1,379 | 1,365 | 1,412 | 1,349 | 1,406 | 1,280 | 1,398 | 1,352 | 1,347 | 9,436 | 4,167 | 5,377 | 18,980 |

- Prepared low, medium and high growth model projections high growth model most likely due to continued overall population growth, ongoing student in-migration and statewide trend in down-sizing/ closure of parochial schools
- ♦ Greatest confidence in first 5-yrs of projections based on known data
- Assumed growth in PreK program beginning in 2018-19 based on statewide initiatives and discussions with Administration

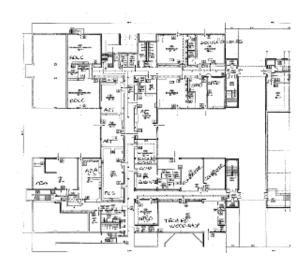




Facility Inventory & Conditions

- ♦ Field survey of PreK-5, 6-8 & PK-8 schools to inventory spaces and collect data for:
 - ♦ Classrooms by grade level
 - ♦ Classrooms used for special programs:
 - ♦ BDLC, Autistic (ABA),
 - ♦ Essential Skills Classroom (ESC)
 - ♦ Bilingual, ESL, etc.
 - ♦ Room areas
 - ♦ Location (i.e. portables, basement, etc.)
 - ♦ Appropriateness of space for use
 - ♦ Presence of specials classrooms (Gym, Art, Music, other)
 - ♦ Accessibility







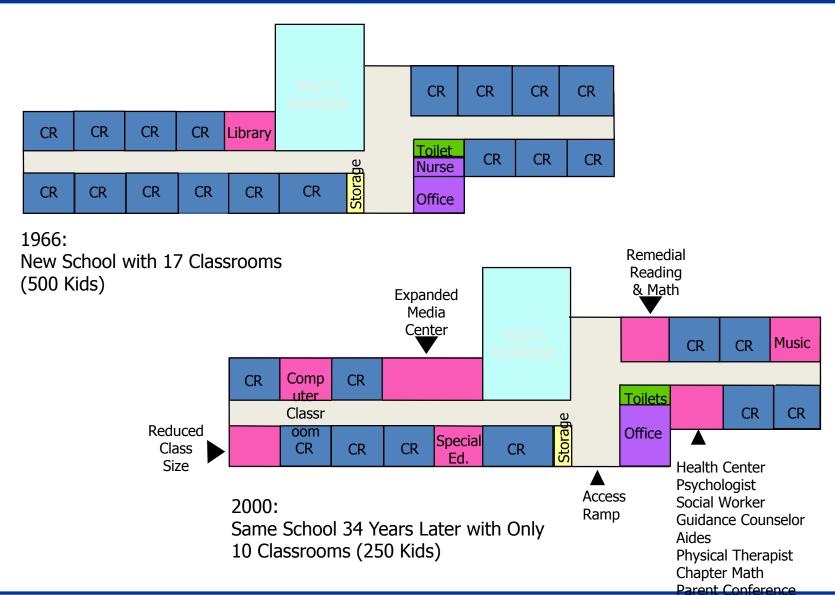
Facility Summary Matrix

| | | 1 | | 1 | 1 | 1 | | ı | | | | 1 |
|----------------|----------------|---------------|---------------------------------|----------------------------------|-----------------------------|---------------|---------|-----------|--------------|------------|--------|----------------------|
| | Grade Level | Year Built | Number of Core Classrooms | Number of Music Classrooms | Number of Art Classrooms | Computer Labs | Library | Gymnasium | Cafeteria | Auditorium | Stage | Site Area (Acres) |
| | | | | | | | | | | | | |
| Bucks Hill | PK-5 | 1953 | 26 | 1 | 1 | 1 | | Combined | Combined | Combined | Υ | 10.0 |
| Bunker Hill | PK-5 | 1905 | 23 | 1 | 1 | 1 | Υ | Combined | Υ | Combined | Υ | 1.3 |
| Chase | K-5 | 1905 | 34 | 0 | 1 | 2 | Υ | Combined | Y, Portables | Combined | Υ | 3.6 |
| Driggs | PK-5 | 1899 | 25 | 0 | 1 | 1 | Υ | Combined | Υ | Combined | Υ | 1.2 |
| Generali | K-5 | 1923 | 26 | 1 | 0 | 1 | Υ | Combined | Υ | Combined | Υ | 2.7 |
| Hopeville | K-5 | 1917 | 24 | Combined | Combined | 1 | Υ | Combined | Υ | Combined | N | 3.8 |
| Kingsbury | K-5 | 1917 | 22 | 0 | 0 | 1 | Υ | Combined | Υ | Combined | Υ | 2.0 |
| Regan | K-5 | 1968 | 11 | 0 | 0 | 1 | Υ | Combined | Combined | N | N | 8.6 |
| Sprague | PK-5 | 1913 | 22 | 1 | 1 | 1 | Υ | Combined | Combined | Combined | N | 1.2 |
| Tinker | K-5 | 1925 | 23 | 0 | 1 | 1 | Υ | Combined | Υ | Combined | Υ | 1.3 |
| Walsh | PK-5 | 1957 | 25 | 1 | 1 | 1 | Υ | Combined | Combined | Combined | Υ | 2.8 |
| Washington | PK-5 | 1882 | 16 | 1 | 1 | 0 | Υ | Combined | Combined | N | N | 1.2 |
| Wendell Cross | PK-5 | 1953 | 16 | 0 | 0 | 0 | Υ | Combined | Combined | Combined | Υ | 9.5 |
| Wilson | PK-5 | 1927 | 20 | 1 | 1 | 1 | | Combined | Υ | Combined | Υ | 3.9 |
| | | | | | | | | | | | | |
| Carrington | PK-8 | 2013 | 21 | 4 | 2 | 2 | Υ | Υ | Combined | Combined | Υ | 15.0 |
| Duggan | PK-8 | 2011 | 20 | 2 | 1 | 1 | Υ | Υ | Combined | Combined | Υ | 2.6 |
| Gilmartin | PK-8 | 2010 | 20 | 2 | 1 | 1 | Υ | Υ | Combined | Combined | Υ | 5.0 |
| Reed | PK-8 | 2012 | 20 | 1 | 1 | 1 | Υ | Υ | Combined | Combined | Υ | 9.3 |
| | | | | | | | | | | | | |
| North End | | | | | | | | | | | | |
| Middle | 6-8 | 1978 | 46 | Common | Common | 1 | Υ | Common | Common | Common | Common | 84.0 |
| Wallace Middle | 6-8 | 1973 | 47 | Common | Common | 1 | Υ | Common | Common | Common | Common | 77.5 |
| West Side | | | | | | | | | | | | |
| Middle | 6-8 | 1976 | 50 | 2 | 3 | 4 | | Υ | Υ | Aux Gym | Υ | 9.1 |



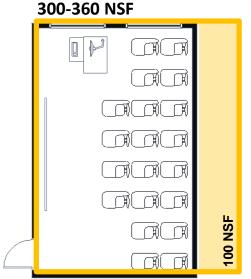


Where Have All the Classrooms Gone?

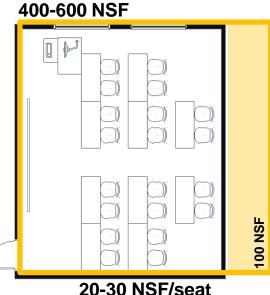


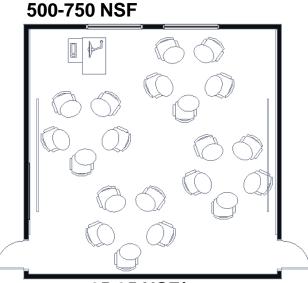


Evolution of Classroom Space: 20 Seat Classroom









25-35 NSF/seat

Instructor-Directed Learning





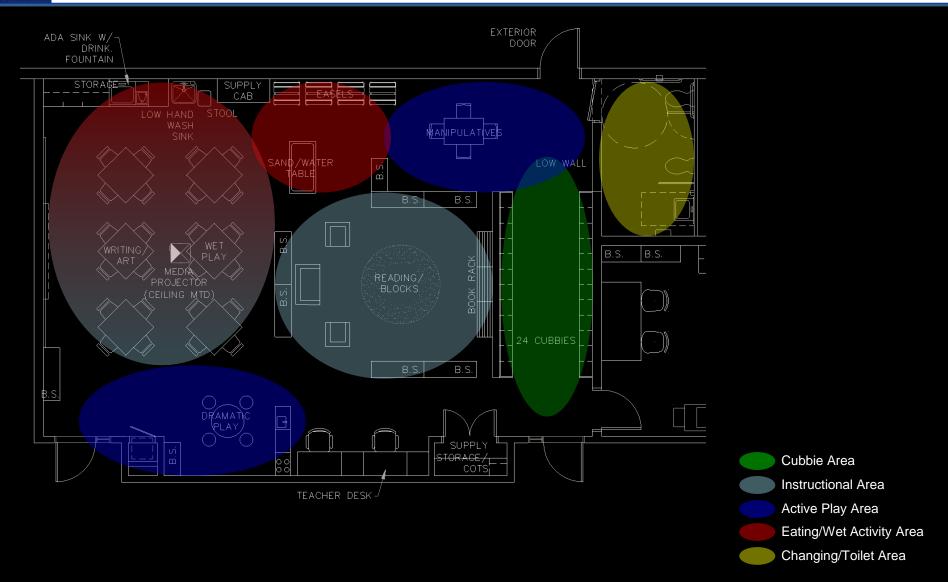








PreK and K Classrooms

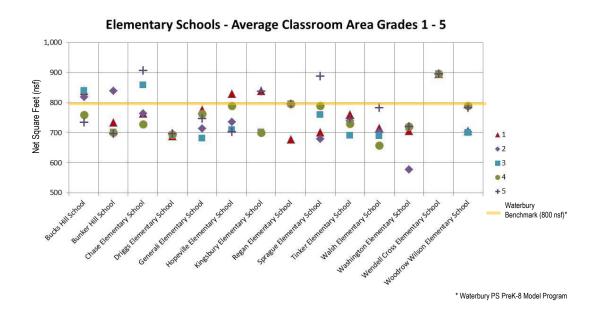






Facilities Benchmarking

- ♦ Benchmarked individual schools against district model PreK-8 building
- Due to the various ages of buildings and evolution of classroom needs, majority of existing classrooms are smaller than the benchmark PreK-8 model
- Evidence of co-opting of spaces due to enrollment pressures







Facilities Utilization

| | PK | К | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | TOTAL ENROLL MENT (10/2014) | FUNCTIONAL CAPACITY BASED ON SPACE | % UTILIZED |
|---------------------|----------------|------|------|------|------|------|------|------|------|------|--------------------------------------|--|------------|
| | PK-5's | ı | T | T | | T | T | | T | T | , | | |
| Bucks Hill | 15 | 122 | 106 | 93 | 85 | 65 | 75 | 0 | 0 | 0 | 561 | 545 | 103% |
| Bunker Hill | 13 | 101 | 88 | 73 | 78 | 73 | 84 | 0 | 0 | 0 | 510 | 464 | 110% |
| Chase | 0 | 135 | 135 | 147 | 121 | 138 | 140 | 0 | 0 | 0 | 816 | 714 | 114% |
| Driggs | 13 | 100 | 101 | 87 | 78 | 68 | 81 | 0 | 0 | 0 | 528 | 446 | 119% |
| Generali | 0 | 113 | 114 | 99 | 93 | 77 | 107 | 0 | 0 | 0 | 603 | 552 | 109% |
| Hopeville | 0 | 98 | 79 | 84 | 88 | 54 | 72 | 0 | 0 | 0 | 475 | 467 | 102% |
| Kingsbury | 0 | 82 | 89 | 84 | 92 | 81 | 84 | 0 | 0 | 0 | 512 | 445 | 115% |
| Regan | 0 | 39 | 46 | 48 | 45 | 51 | 50 | 0 | 0 | 0 | 279 | 223 | 125% |
| Sprague | 32 | 91 | 75 | 75 | 72 | 64 | 52 | 0 | 0 | 0 | 461 | 430 | 107% |
| Tinker | 0 | 92 | 90 | 102 | 101 | 98 | 89 | 0 | 0 | 0 | 572 | 464 | 123% |
| Walsh | 12 | 69 | 73 | 80 | 71 | 79 | 71 | 0 | 0 | 0 | 455 | 509 | 89% |
| Washington | 13 | 60 | 54 | 61 | 50 | 47 | 55 | 0 | 0 | 0 | 340 | 287 | 118% |
| Wendell Cross | 16 | 73 | 71 | 51 | 50 | 49 | 56 | 0 | 0 | 0 | 366 | 375 | 98% |
| Wilson | 54 | 98 | 78 | 54 | 50 | 57 | 54 | 0 | 0 | 0 | 445 | 440 | 101% |
| | PK-8'S | | | | | | | | | | | | |
| Carrington | 32 | 54 | 48 | 70 | 47 | 77 | 55 | 51 | 53 | 0 | 487 | 434 | 112% |
| Duggan | 32 | 45 | 48 | 53 | 50 | 55 | 56 | 43 | 41 | 41 | 464 | 407 | 114% |
| Gilmartin | 35 | 60 | 49 | 47 | 46 | 55 | 55 | 56 | 53 | 50 | 506 | 464 | 109% |
| Reed | 25 | 51 | 46 | 49 | 50 | 59 | 42 | 47 | 32 | 26 | 427 | 517 | 83% |
| | Middle Schools | | | | | | | | | | | | |
| North End Middle | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 339 | 323 | 354 | 1,016 | 887 | 115% |
| Wallace Middle | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 412 | 382 | 365 | 1,159 | 959 | 121% |
| West Side Middle | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 345 | 324 | 352 | 1,021 | 1,004 | 102% |
| TOTAL: | 292 | 1483 | 1390 | 1357 | 1267 | 1247 | 1278 | 1293 | 1208 | 1188 | 12,003 | 11,030 | 109% |

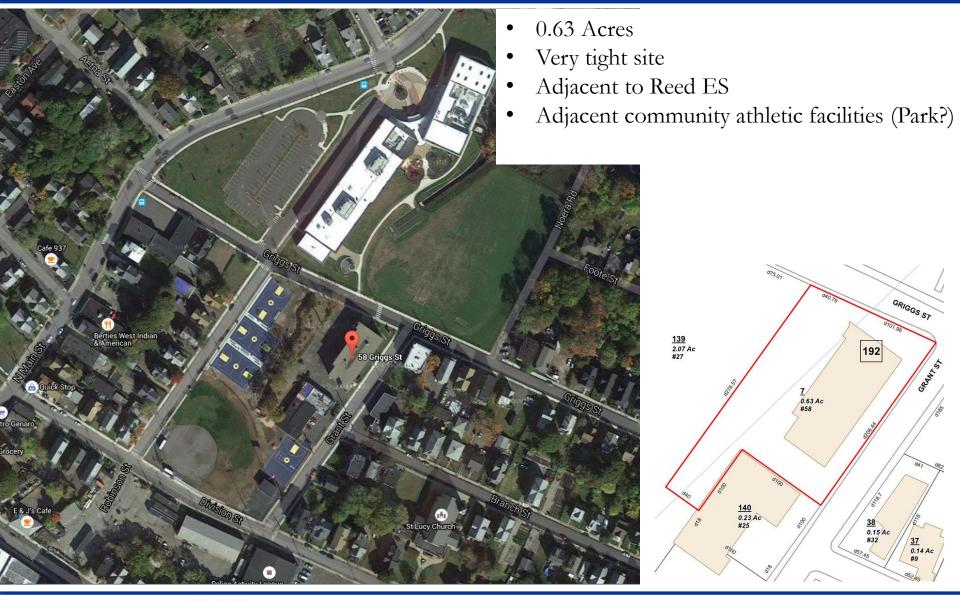
^{*} BDLC and ES classrooms assume max enrollment of 12 despite physical space capacity based on current use.

Calculated school capacity based on recommended net square feet per seat factors



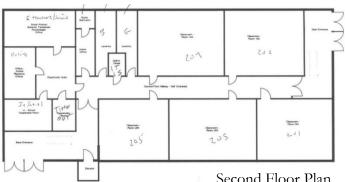


State Street School (St. Lucy's) PAL

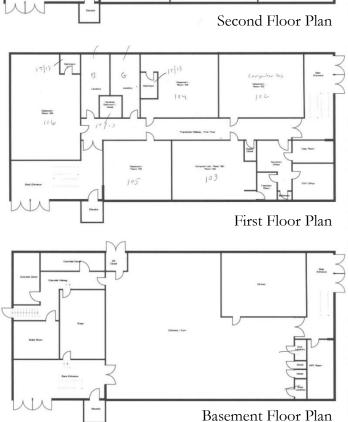


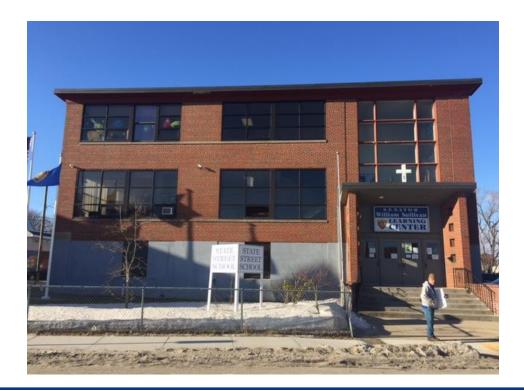


State Street School (St. Lucy's) PAL



- 3 story building, approx. 15-18,000 gsf
- Masonry exterior
- Punched windows
- 10 reasonably sized classrooms (700 800 nsf)
- Shared spaces in Basement level







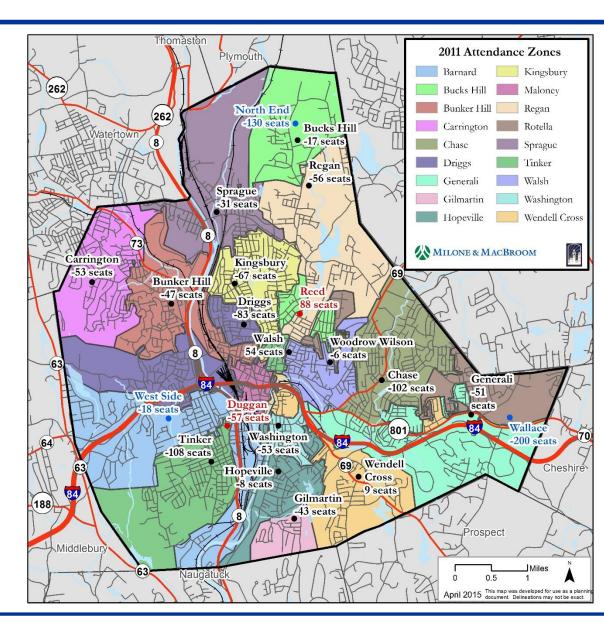
Parochial Facilities

- ♦ Generally sites are too small to support PreK-8, 2 CR/Gr.
- ♦ Facilities with potential for alternative education programs or swing space
 - ♦ St. Anne's
 - ♦ St. Josephs
 - ♦ St. Margaret's
 - ♦ St. Mary's
- ♦ Potential for PreK-8, 2 CR/Gr.
 - ♦ St. Peter & Paul
 - ♦ 4-5 acres
 - ♦ Could support school the size of Reed ES with playgrounds, and 70-80 off-street parking spaces



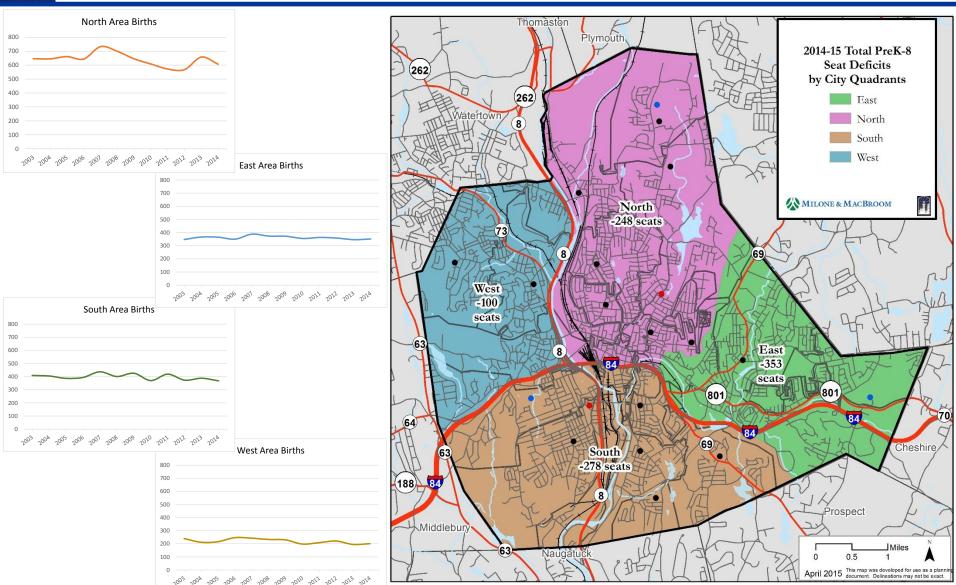
Current Seat Deficit by School

- Deficits are widespread due to ad hoc placement of students with many students placed outside of neighborhood
- Nearly all schools require a measure of relief
- ♦ Deficits are from meeting 100% utilization





2014-15 PreK-8 Seat Deficit and Births by Area







Projected Utilization

| | 14- | -15 | 15- | -16 | 16 | -17 | 17- | -18 | 18 | -19 | 19 | -20 | 20- | -21 | 21- | -22 | 22- | -23 |
|------------------|------|--------------|------|--------------|------|--------------|------|--------------|------|--------------|------|--------------|------|--------------|------|--------------|------|--------------|
| | Util | Seat Diff |
| Bucks Hill | 103% | -17 | 113% | -69 | 123% | -123 | 129% | -158 | 133% | -177 | 132% | -172 | 131% | -171 | 132% | -175 | 132% | -175 |
| Bunker Hill | 110% | -47 | 109% | -44 | 109% | -40 | 106% | -28 | 105% | -24 | 109% | -40 | 107% | -32 | 108% | -35 | 108% | -35 |
| Chase | 114% | -102 | 116% | -112 | 115% | -110 | 117% | -118 | 115% | -109 | 113% | -95 | 112% | -83 | 112% | -87 | 112% | -88 |
| Driggs | 119% | -83 | 113% | -59 | 111% | -48 | 106% | -27 | 108% | -36 | 106% | -26 | 105% | -24 | 110% | -46 | 111% | -47 |
| Generali | 109% | -51 | 104% | -24 | 105% | -25 | 103% | -19 | 102% | -13 | 100% | 0 | 99% | 4 | 100% | 1 | 100% | 0 |
| Hopeville | 102% | -8 | 99% | 3 | 101% | -7 | 98% | 8 | 97% | 12 | 97% | 16 | 95% | 22 | 96% | 20 | 96% | 19 |
| Kingsbury | 115% | -67 | 114% | -61 | 112% | -54 | 110% | -44 | 107% | -33 | 106% | -25 | 104% | -17 | 104% | -20 | 105% | -20 |
| Regan | 125% | -56 | 132% | -70 | 136% | -80 | 140% | -88 | 138% | -86 | 134% | -77 | 134% | -75 | 134% | -77 | 135% | -77 |
| Sprague | 107% | -31 | 114% | -60 | 116% | -70 | 115% | -63 | 113% | -58 | 113% | -57 | 113% | -54 | 118% | -77 | 118% | -77 |
| Tinker | 123% | -108 | 121% | -98 | 119% | -88 | 115% | -72 | 112% | -56 | 111% | -50 | 110% | -45 | 110% | -47 | 110% | -48 |
| Walsh | 89% | 54 | 84% | 80 | 80% | 103 | 81% | 96 | 78% | 110 | 77% | 119 | 75% | 125 | 76% | 124 | 80% | 103 |
| Washington | 118% | -53 | 101% | -3 | 92% | 22 | 92% | 22 | 90% | 29 | 89% | 33 | 95% | 14 | 95% | 13 | 96% | 12 |
| Wendell Cross | 98% | 9 | 95% | 18 | 95% | 19 | 94% | 22 | 96% | 16 | 94% | 22 | 99% | 3 | 100% | 1 | 105% | -19 |
| Wilson | 101% | -6 | 101% | -6 | 101% | -5 | 101% | -5 | 101% | -6 | 100% | 1 | 99% | 6 | 99% | 4 | 99% | 3 |
| SUB-TOTAL | 109% | -565 | 108% | -504 | 108% | -506 | 107% | -474 | 107% | -430 | 105% | -350 | 105% | -326 | 106% | -401 | 107% | -451 |
| Carrington | 112% | -53 | 111% | -46 | 100% | 1 | 91% | 38 | 86% | 63 | 79% | 91 | 77% | 101 | 72% | 120 | 72% | 122 |
| Duggan | 114% | -57 | 113% | -53 | 112% | -48 | 112% | -47 | 110% | -41 | 107% | -30 | 105% | -20 | 100% | -1 | 98% | 9 |
| Gilmartin | 109% | -43 | 110% | -48 | 110% | -47 | 111% | -49 | 111% | -52 | 111% | -50 | 112% | -53 | 111% | -49 | 109% | -40 |
| Reed | 83% | 88 | 91% | 47 | 97% | 17 | 100% | 1 | 104% | -22 | 104% | -21 | 104% | -20 | 102% | -11 | 103% | -13 |
| SUB-TOTAL | 104% | -65 | 105% | -99 | 104% | -77 | 103% | -57 | 103% | -52 | 101% | -11 | 100% | 8 | 97% | 59 | 96% | 77 |
| North End Middle | 115% | -130 | 113% | -116 | 115% | -133 | 122% | -196 | 131% | -271 | 140% | -355 | 143% | -378 | 142% | -368 | 139% | -345 |
| Wallace Middle | 121% | -200 | 128% | -273 | 133% | -318 | 134% | -325 | 130% | -292 | 129% | -283 | 130% | -291 | 128% | -265 | 125% | -240 |
| West Side Middle | 102% | -18 | 103% | -32 | 105% | -51 | 103% | -33 | 104% | -42 | 104% | -39 | 103% | -32 | 96% | 42 | 92% | 83 |
| SUB-TOTAL | 112% | -347 | 115% | -421 | 118% | -502 | 119% | -554 | 121% | -605 | 124% | -676 | 125% | -702 | 121% | -591 | 118% | -503 |
| TOTAL: | 109% | -977 | 109% | -1,024 | 110% | -1,084 | 110% | -1,086 | 110% | -1,088 | 109% | -1,037 | 109% | -1,020 | 108% | -932 | 108% | -877 |

Walsh school utilization low due to status as a Commissioner's Network/ Turnaround school



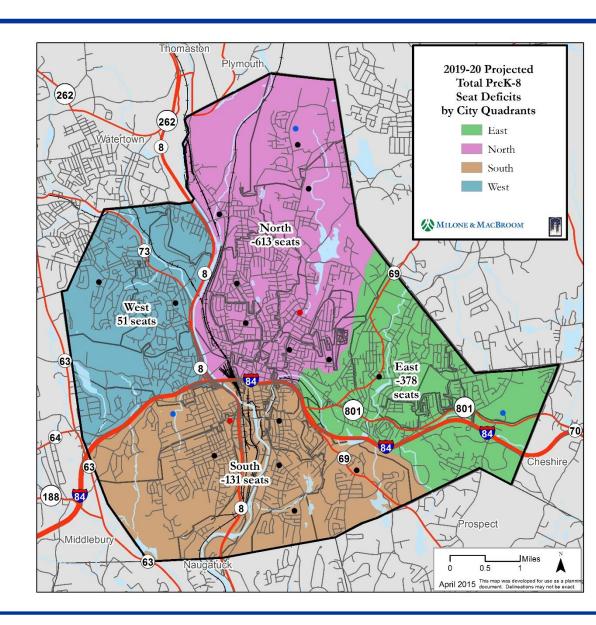
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Projected 2019-20 PreK-8 Seat Deficits by Area

- Deficits continue

 and burden begins
 shifting towards 6th 8th grades as bubbles
 matriculate through
- Deficits persist and intensify in EastEnd and North End





Facilities Utilization

- Overall seat deficit for all PreK-5, PreK-8 and 6-8 Schools average 1,014 students over the next 8-years
 - ♦ PreK-5 School seat deficit averages 445 students over next 8years
 - ♦ PreK-8 School deficit average self corrects to a modest surplus of 77 seats in 2022-23
 - ♦ 6th-8th School seat deficit averages 545 students over the next 8-years
- System averages 109% utilization over the planning horizon over crowding will not self-correct



Is Redistricting Alone a Solution?

- Without adding capacity to overall PK-8 system, redistricting cannot alleviate current and anticipated overcrowding
- Need for approximately 1,000 additional seats in each of the next seven years just to deliver current programming and phase in an expanded PreK program beginning in 2018-19
- Redistricting alone would only shuffle overcrowding concerns among schools



Objectives

- ♦ Provide sufficient capacity in the PreK-8 system to address districtwide space shortage
- Alleviate overcrowding at PreK-5, Prek-8 and 6-8 schools with greatest need for the foreseeable future
- ♦ Attain Waterbury PreK-8 neighborhood school model
- ♦ Provide appropriate space at facilities strategically located for growing PreK, Bilingual and ELL, SPED, BDLC needs



Challenges

- Mitigating overcrowding while "bubbles" are moving through the system
- ♦ Lack of elasticity and swing space within existing facilities
- Finding appropriate swing space for middle school students particularly difficult due to facility requirements
- ♦ Growing districtwide special education and ESL space needs require space
- ♦ Many existing PreK-5 school sites in areas of greatest density and need are undersized for expansion opportunities
- Delivering programming to neighborhoods and schools of greatest need with a growing seat deficit
- ♦ Fulfilling PreK-8 deployment



Options Summary

- Developed & tested several scenarios including a new PreK-8 (550) school in the East End.
- ♦ Presenting three scenarios for consideration that best meet objectives.
- ♦ Phase I alternatives strive to accommodate current enrollment bubble over the next <u>eight</u> years while continuing to move towards neighborhood PreK-8 system
- ♦ Completion, or near completion, of Phase I provides opportunity to re-assess needs and priorities for next phases
- Subsequent phases might continue neighborhood PK-8 school expansion while consolidating facilities that do not fit the model or have outlived their useful life



Initial Option – PreK-8 (550) "Test-Fit"

Tested options that started with building one new 550 student PreK-8 school, following the Waterbury neighborhood school model

| | Projected Seat Deficit 2019-20 | With one new 550 PreK-8 | | Projected Seat Deficit 2019-20 |
|------|---|-------------------------------|------|---|
| PK-5 | -350 | school | PK-5 | 12 |
| PK-8 | -11 | 3011001 | PK-8 | -11 |
| 6-8 | -676 | | 6-8 | -508 |
| | -1,037 | | ' | -507 |

- ♦ By 2019-20, only 850 6th-8th graders would be in PK-8 schools, with roughly 3,300 non-magnet 6th-8th graders remaining (100 more than currently enrolled in the three middle schools)
- Additional PreK-8 renovations of existing buildings while creating 6-8 seats result in a <u>loss</u> of PreK-5 seats
- Not enough initial space gain: District would continue to shift overcrowding between middle and elementary levels



Option A

Option A, Phase I

New PK-8 550 Students Eastern Quadrant

> New PK-8 550 Students Northern Quadrant

Relieves Chase, Generali, Bucks Hill, Wilson, Wallace and North End



2019-20 Reduces total PK-8 projected seat deficit to deficit of 25 Renovate to PK-8 Wendell Cross 550 Students

Renovate to PK-8 Kingsbury 550 Students

Further relieves North End and Wallace



2022-23
Reduces total PK-8 seat projected deficit to surplus of 270





Option A1

Option A1, Phase I

Concurrent Construction/ Renovation Projects

New PK-8 550 Students Eastern Quadrant

+

Renovate to PK-8 Wendell Cross 550 Students

New PK-8 550 Students Northern Quadrant

Relieves Chase, Generali, Bucks Hill, Wilson, Wallace and North End



Further relieves North End and Wallace





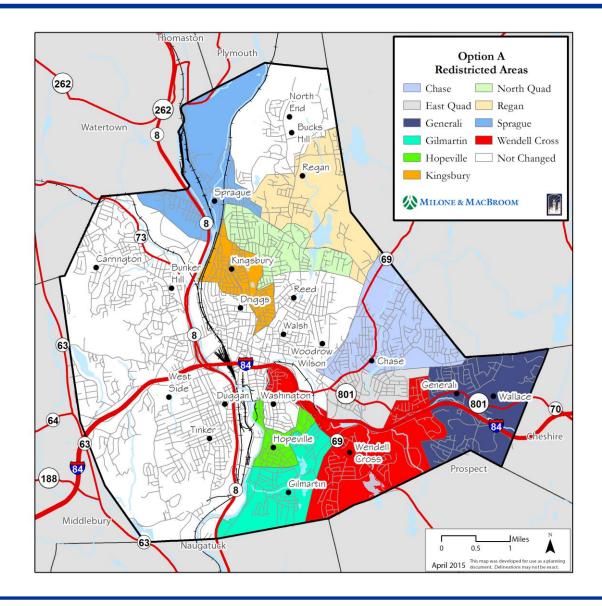
2019-20

Reduces total PK-8 projected seat deficit to surplus of 110





Option A – Phase I Conceptual Boundaries







Option A – Phase I Impacts (2014-15 Enroll)

| | Exi | sting Conditi | ons | | Net | | | |
|----------------------------|------------------------|------------------------|---------------------|------------|------------------------|---------------------|------------|--------------------|
| School | Functional Capacity | Existing Enrollment | Surplus/ Deficit | % Utilized | Proposed Enrollment | Surplus/ Deficit | % Utilized | Change in Students |
| Chase | 714 | 816 | (102) | 114% | 651 | 63 | 91% | -165 |
| Generali | 552 | 603 | (51) | 109% | 544 | 8 | 99% | -59 |
| Gilmartin ¹³ | 464 | 506 | (42) | 109% | 453 | 11 | 98% | -53 |
| Hopeville | 467 | 475 | (8) | 102% | 430 | 37 | 92% | -45 |
| Wendell Cross ² | 400 | 366 | 34 | 92% | 359 | 41 | 90% | -7 |
| Kingsbury ² | 400 | 512 | (112) | 128% | 331 | 69 | 83% | -181 |
| Sprague | 430 | 461 | (31) | 107% | 389 | 41 | 90% | -72 |
| Regan | 223 | 279 | (56) | 125% | 207 | 16 | 93% | -72 |
| North End MS | 887 | 1,016 | (129) | 115% | 851 | 36 | 96% | -165 |
| Wallace MS ³ | 959 | 1,159 | (200) | 121% | 994 | (35) | 104% | -165 |
| North Quad (New) 4 | 550 | - | - | - | 545 | 5 | 99% | 545 |
| East Quad (New) 4 | 550 | - | - | - | 549 | 1 | 100% | 549 |

- 1. Gilmartin School is PK-8, total enrollment includes all grades
- 2. Wendell Cross and Kingsbury will be converted to 550 PK-8 schools. K-5 enrollment cannot exceed 400
- 3. 36 Grade 6-8 students from Gilmartin were transferred to East Quad. It was assumed that Gilmartin would absorb 36 6-8 students from Wallace
- 4. North and East Quad schools would each create 55 Pre-K seats. Assumed that existing Pre-K deployments remain the same at all other schools





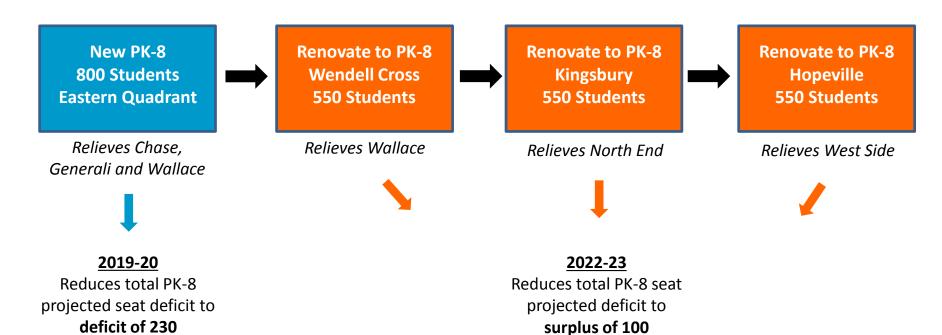
Option A - Considerations

- Aims to mitigate overcrowding in East End and North End of City as quickly as possible
- ♦ Greatest initial investment required with two <u>new</u> schools
- Option A may not gain seats fast enough to sufficiently accommodate middle school enrollment bubble, Option A1 would
- Additional swing space may be required to facilitate renovation projects
- Opportunity to realign boundaries to develop permanent coterminous neighborhood schools in East End
- Challenge to find two new school sites, as well as fund and manage concurrent construction projects
- ♦ Moderate surplus of seats at end of projection horizon could facilitate additional phases by serving as swing space



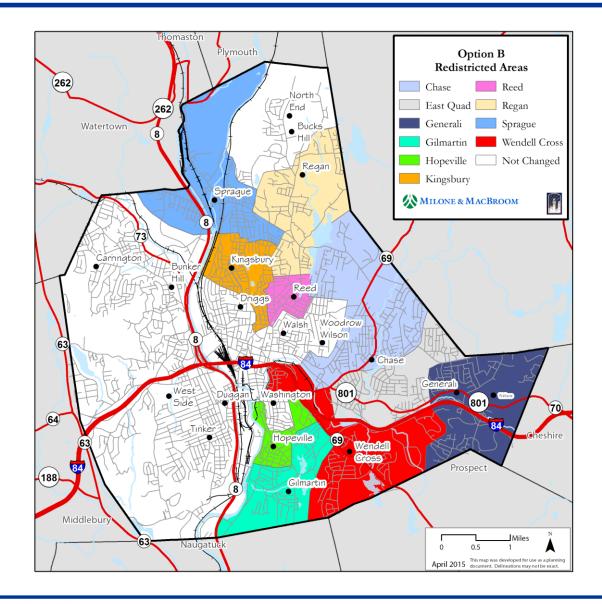
Option B

Option B, Phase I





Option B – Phase I Conceptual Boundaries







Option B – Phase I Impacts (2014-15 Enroll)

| | Exi | sting Conditi | ions | | Net | | | |
|----------------------------|---------------------|------------------------|---------------------|------------|------------------------|---------------------|------------|--------------------|
| School | Functional Capacity | Existing Enrollment | Surplus/ Deficit | % Utilized | Proposed Enrollment | Surplus/ Deficit | % Utilized | Change in Students |
| Chase | 714 | 816 | (102) | 114% | 673 | 41 | 94% | -143 |
| Generali | 552 | 603 | (51) | 109% | 524 | 28 | 95% | -79 |
| Gilmartin ¹⁵ | 464 | 506 | (42) | 109% | 447 | 17 | 96% | -59 |
| Hopeville ² | 400 | 475 | (75) | 119% | 406 | (6) | 102% | -69 |
| Wendell Cross ² | 400 | 366 | 34 | 92% | 320 | 80 | 80% | -46 |
| Kingsbury ² | 400 | 512 | (112) | 128% | 395 | 5 | 99% | -117 |
| Reed 135 | 517 | 460 | 57 | 89% | 514 | 3 | 99% | 54 |
| Regan | 223 | 279 | (56) | 125% | 267 | (44) | 120% | -12 |
| Sprague | 430 | 461 | (31) | 107% | 459 | (29) | 107% | -2 |
| Wallace | 959 | 1,159 | (200) | 121% | 919 | 40 | 96% | -240 |
| East End (New) 4 | 800 | - | - | - | 827 | (27) | 103% | 827 |

- 1. Gilmartin and Reed Schools are PK-8, total enrollment includes all grades
- 2. Hopeville, Wendell Cross, and Kingsbury will be converted to 550 PK-8 schools. K-5 enrollment cannot exceed 400
- 3. Assumed that average 8th grade class size at Reed would increase to 60 students
- 4. The new East End School would create 80 pre-K seats. Assumed that existing Pre-K deployments remain at all other schools
- 5. Reed and Gilmartin schools added 34 6-8th grade students from redistricted areas (22 to Reed, 12 to Gilmartin)





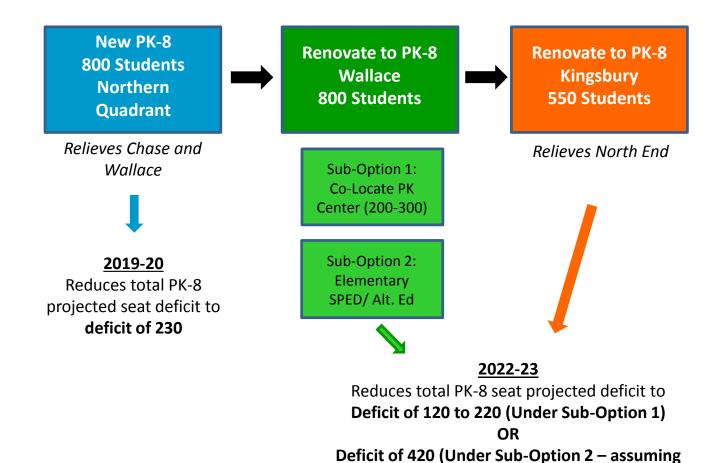
Option B - Considerations

- ♦ Larger PreK-8 school at 3 classrooms per grade economizes on construction investment, while providing infusion of space in more timely manner
- ♦ Renovating Wendell Cross gains more seats than other school renovations, therefore, early in construction sequencing
- Additional swing space may be needed to facilitate renovation projects
- ♦ Challenge to find new school site
- Modest surplus of seats at end of Phase I could provide swing space to facilitate additional phases



Option C

Option C, Phase I

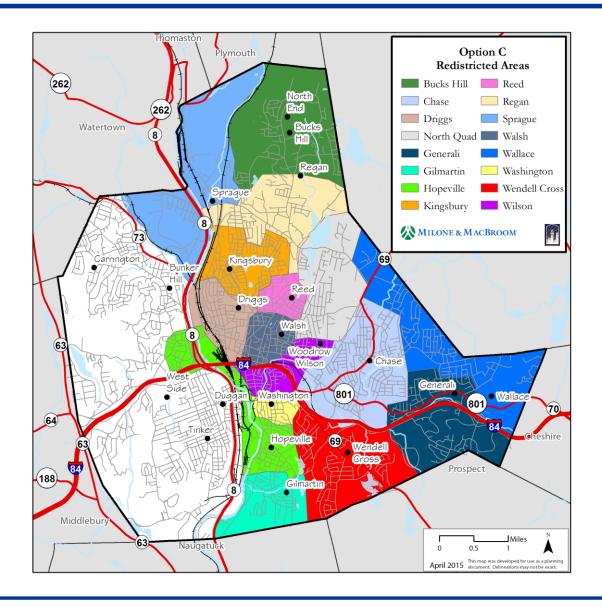




students relocated from Enlightenment/ State St)



Option C – Phase I Conceptual Boundaries







Option C – Phase I Impacts (2014-15 Enroll)

| | Existing Conditions | | | | | Net | | | |
|----------------------------|------------------------|---------------------|---------------------|------------|------------------------|---------------------|------------|--------|--|
| School | Functional Capacity | Existing Enrollment | Surplus/ Deficit | % Utilized | Proposed Enrollment | Surplus/ Deficit | % Utilized | Change | |
| Bucks Hill | 545 | 561 | (16) | 103% | 534 | 11 | 98% | -27 | |
| Chase | 714 | 816 | (102) | 114% | 688 | 26 | 96% | -128 | |
| Driggs | 446 | 528 | (82) | 118% | 434 | 12 | 97% | -94 | |
| Generali | 552 | 603 | (51) | 109% | 527 | 25 | 95% | -76 | |
| Gilmartin ^{1 3 5} | 464 | 506 | (42) | 109% | 286 | 178 | 62% | -220 | |
| Kingsbury ² | 400 | 512 | (112) | 128% | 391 | 9 | 98% | -121 | |
| Hopeville | 426 | 467 | (41) | 110% | 312 | 114 | 73% | -155 | |
| Regan | 223 | 279 | (56) | 125% | 209 | 14 | 94% | -70 | |
| Reed 1 3 5 6 | 517 | 460 | 57 | 89% | 504 | 13 | 97% | 44 | |
| Sprague | 430 | 461 | (31) | 107% | 368 | 62 | 86% | -93 | |
| Wallace 134 | 800 | 1,159 | - | - | 798 | 2 | 100% | -361 | |
| Walsh | 509 | 455 | - | - | 449 | 60 | 88% | -6 | |
| Washington | 287 | 340 | (53) | 118% | 275 | 12 | 96% | -65 | |
| Wendell Cross | 375 | 366 | - | - | 350 | 25 | 93% | -16 | |
| Wilson | 440 | 445 | (5) | 101% | 450 | (10) | 102% | 5 | |
| North Quad (New) 4 | 800 | 0 | - | - | 807 | (7) | 101% | 807 | |

- 1. Gilmartin, Wallace, and Reed Schools are PK-8. Total enrollment includes all grades
- 2. Kingsbury will be converted to 550 PK-8 schools. K-5 enrollment cannot exceed 400
- 3. Results in a deficit of 736 seats for students in Grades 6-8
- 4. North Quad and Wallace would each create 80 Pre-K seats. Assumed that existing Pre-K deployments remain the same at all other schools
- 5. Grade 6-8 enrollment at Gilmartin and Reed was estimated at 50% of the K-5 enrollment
- 6. Assumed that average 8th rade class at Reed would increase to 60 students





Option C - Considerations

- Aims to address shortages in Eastern and Northern quadrants first
- ♦ Larger PreK-8 school at 3 classrooms per grade economizes on construction, while providing necessary infusion of space in more timely manner
- Second 800 PreK-8 at 3 classrooms per grade at Wallace provides opportunity to alleviate other programming space concerns within Phase I
- ♦ Wallace will require phased renovation and additional swing space
- Recent additions at Wallace would remain and function as designed in renovated structure
- ♦ Challenge to find appropriate site for 800 student new school
- Most conservative addition of space- seat deficit remains at end of Phase I
- Seat deficit will need to be addressed early in Phase II to address areas of overcrowding and provide swing space.



Discussion

& Q & A



Appendix – Projections by School

| | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | | |
|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|
| | | | | PK-5s | | | | | | | |
| Bucks Hill | 561 | 613 | 667 | 702 | 722 | 716 | 715 | 720 | 720 | | |
| Bunker Hill | 511 | 508 | 505 | 493 | 488 | 504 | 496 | 499 | 500 | | |
| Chase | 816 | 826 | 824 | 832 | 823 | 809 | 797 | 801 | 802 | | |
| Driggs | 528 | 504 | 494 | 473 | 481 | 471 | 469 | 491 | 492 | | |
| Generali | 603 | 576 | 577 | 570 | 565 | 551 | 548 | 551 | 552 | | |
| Hopeville | 475 | 464 | 474 | 459 | 455 | 451 | 445 | 448 | 448 | | |
| Kingsbury | 512 | 505 | 498 | 489 | 478 | 470 | 461 | 464 | 465 | | |
| Regan | 279 | 294 | 303 | 311 | 309 | 300 | 298 | 300 | 300 | | |
| Sprague | 461 | 490 | 500 | 493 | 488 | 487 | 484 | 507 | 507 | | |
| Tinker | 572 | 563 | 552 | 536 | 520 | 514 | 509 | 512 | 513 | | |
| Walsh | 455 | 428 | 406 | 412 | 398 | 389 | 383 | 385 | 406 | | |
| Washington | 340 | 290 | 265 | 265 | 258 | 254 | 273 | 274 | 275 | | |
| Wendell Cross | 366 | 357 | 356 | 353 | 359 | 354 | 372 | 374 | 395 | | |
| Wilson | 446 | 446 | 445 | 445 | 446 | 439 | 434 | 436 | 437 | | |
| | | | | PK-8s | | | | | | | |
| Carrington | 487 | 480 | 432 | 396 | 371 | 343 | 332 | 314 | 312 | | |
| Duggan | 464 | 460 | 455 | 454 | 448 | 437 | 426 | 408 | 398 | | |
| Gilmartin | 506 | 511 | 510 | 513 | 515 | 514 | 517 | 512 | 504 | | |
| Reed | 429 | 469 | 500 | 516 | 539 | 538 | 537 | 528 | 530 | | |
| Middles | | | | | | | | | | | |
| North End Middle | 1,016 | 1,002 | 1,020 | 1,083 | 1,157 | 1,241 | 1,265 | 1,254 | 1,232 | | |
| Wallace Middle | 1,159 | 1,233 | 1,277 | 1,285 | 1,251 | 1,242 | 1,250 | 1,225 | 1,200 | | |
| West Side Middle | 1,021 | 1,036 | 1,055 | 1,037 | 1,046 | 1,043 | 1,036 | 961 | 921 | | |
| TOTAL: | 12,007 | 12,054 | 12,115 | 12,116 | 12,118 | 12,068 | 12,050 | 11,963 | 11,907 | | |

