Arlington Public Schools
2019 10-Year Projections Report

Contents

Attachments:

- Attachment A: Fall 2019 10-Year Enrollment Projections, 2020-21 through 2029-30
- Attachment B: Fall 2019 Housing Unit Forecast and Projected Student Yield
- Attachment C: Fall 2019 Student Generation Rates
- Attachment D: Background on Projections

Executive Summary

Every fall, APS publishes 10-year enrollment projections that are used for planning purposes.
- In the short term, the projections help inform needs such as budgeting and staffing for the next fiscal year.
- In the long term, the projections are used in planning processes such as the biennial Capital Improvement Plan (CIP).

The Fall 2019 10-year projections will be used for budgeting and staffing in Fiscal Year 2021, as well as for developing the FY 2021-30 CIP.

Preparing this Report

The "Fall 2019 10-year Projections for 2020-29" was produced by the Department of Planning and Evaluation, based on the following:
- Student enrollment on Sept. 30, 2019
- Methods validated by the 2015 Community Facilities Study and improved upon regularly in consultation with the external consulting firm of RLS Demographics
- Estimates for additional enrollment over the next decade are based on data from Arlington County Government that consider:
  - Approved and potential housing developments
  - Births and future Kindergarten students, which are based on population estimates and fertility rates

The County and APS collaborate closely in this effort. For background on how APS has worked with the County, the community, and consultants to evaluate County and APS methodologies and develop recommendations for the projections process, please see Attachment D of this report.

Key Findings

The new projections show that PreK-Grade 12 enrollment is expected to surpass 30,000 students by 2021-22, to peak in 2026-27 at about 31,000 students, and decline by about 200 students by 2029-30. When compared with enrollment on Sept. 30, 2019, the 2019 projections demonstrate the following at each school level:
- **High school** enrollment will increase by about 2,000 students, from 7,500 students in 2019-20 to about 9,600 by 2029-30.
- **Middle school** enrollment will increase by about 700 students from 6,119 in 2019-20 to about 6,800 students in 2029-30.
- **Elementary school** enrollment, including PreK, will increase by almost 1,000 students from 14,276 in 2019-20 to 15,200 in 2022-23, followed by a decline back to 14,400 students by 2029-30.

In developing the 2019 10-year projections, it was apparent that previous estimates in the 2018 10-year report were higher than the actual numbers due to a change in the countywide forecasts of births and housing construction. At the elementary school level, this was specifically informed by the following:

- **This was the first year that APS could compare two years of actual and forecasted births.** 2019 marks the third year that the County has shared its forecast of births with APS and the first year when two years' worth of actual and forecasted births can be compared, for 2017 and 2018.

- **Births were overestimated in 2017 and 2018.** The births forecast model resulted in overestimated births for 2017 and 2018, leading to higher enrollment forecasts for the entering Kindergarten classes in 2023-24 and 2024-25 than are now expected.

- **Assumptions about upcoming births in the next 10 years have changed.** The County's forecast was recalibrated to incorporate a lower fertility rate and fewer births than had been previously forecast. (The update and recalibration to the model which forecasts births is covered in the methodology section of this report.)

- **This change means lower elementary school growth is now expected over 10 years than previously anticipated.** While elementary school enrollment growth remains constant until 2022, the recalibration of this model has led to a new birth forecast that is significantly lower than previously estimates for the 10-year period.

More information on this model and the birth forecast can be found in the "Assumptions and Methodology" section of this report.

Using the Projections

As APS continues to update the projections annually and the CIP every two years, this iterative approach to long-term planning allows us to use more current information. APS is closely monitoring the possible impact of the new Amazon headquarters in Arlington, and the impact on housing development. We will continue to monitor information by neighborhoods that could suggest changes to where families with students live, particularly as the number of high-rise apartment buildings increases along transit corridors.

In terms of the Elementary School Planning Process for 2021-22, these new projections:

- Do not affect Phase 1 of the Elementary School Planning initiative, which is focused on moving some elementary schools to maximize capacity and support current enrollment needs

- Will be used in Phases 2 and 3 of the Elementary School Planning process that will result in new boundaries taking effect in September 2021.
    - Planning Unit-level projections will be prepared for the Phase 2 data review (Spring 2020).
    - In Phase 3 (Fall 2020), APS will propose boundary adjustments using data refined in Phase 2.

Next Steps

In February 2020, the School Board will hold a Work Session on the CIP. The session will cover updated information comparing the new projections with planned seats based on updated projections, and priorities for the FY 2021-30 Capital Improvement Plan. Supporting information will be published on the CIP webpage, available at https://www.apsva.us/engage/preparing-for-the-2021-30-capital-improvement-plan-cip/.

Glossary

Birth to Kindergarten Ratio (Capture Rate)
This rate reflects the historical percentage of children entering kindergarten in a particular year as compared to the total number of children born five years earlier to Arlington residents. The historical three-year birth to kindergarten rate is applied to assumed future births to estimate the number of entering kindergarten students five years later.

Cohort
A group of students having a statistical factor (such as the same grade or school level) in common.

Cohort Transition Rate (CTR)
This ratio uses historic enrollment data to identify trends (of growth or loss) over time. A CTR is calculated by dividing the number of students in a cohort (i.e., grade) by the number of students from the previous cohort in the previous school year. A cohort transition rate greater than one means there are more students entering school that year than there are enrolled in the previous grade. A cohort transition rate that is less than one means there are fewer students entering school than in the previous grade. The cohort transition rate is impacted by such factors as students moving in or out of a neighborhood or the County, APS student transfers, and other external forces affecting migration.

Because grade-specific CTRs may vary considerably from one year to the next, APS uses an average to estimate future school enrollment and produce the ten-year projections by grade for each school. The cohort transition statistic is a linear calculation. As such, sporadic fluctuations of historical enrollment data from year to year could affect the estimated projections of future enrollments.

Please note that school boundary adjustments or changes in the options and transfers policy will change historical enrollment trends at the school level and compel APS planning staff to make methodological changes to reflect the new boundaries or enrollment policy update.

Estimate
Calculations of past or present conditions, utilizing counts and known statistics

Projection
Measures future growth by extrapolating current trends and making assumptions regarding growth. The APS enrollment projections methodology uses assumptions regarding future births and future housing. Enrollment projections are only done for Grades K to 12.

Resident Live Births
Live births to mothers that reside in Arlington.

Student Generation Rate
The Student Generation Rate is used to estimates the student yield from new or "future" housing. This rate is the mathematical representation of the relationship between the number of existing housing units in Arlington County and the number of students—by housing unit type and affordability designation—enrolled at APS on September 30 for a given year. The student generation rate can be calculated each year because of the information sharing between APS (student data by address) and ACG (housing data by parcel).

Student Yield
The anticipated student yield from "future" housing units are included in the projections by the impacted neighborhood elementary, middle, and high schools. The projected student yield is calculated using the relevant student generation factor by the housing unit type (i.e., high-rise apartment, garden apartment, town house, etc.) and school attendance zone. The elementary school and middle school student generation rates by school attendance zones reflect the 2019-20 boundary updates.

In incorporating the student yield from new development, it is assumed that the yield from newly developed housing units will produce the same number of students every year once the development is constructed. This new approach has a cumulative effect that increases projected student enrollment at schools that have future housing developments within their neighborhood school attendance zones. This approach to student yields is applied to incoming cohorts in Kindergarten, Grade 6 and Grade 9. Prior to the Fall 2018 10-year projections, a new residential unit's student yield impact was only factored in the year of construction, but not in subsequent years; the previous method did not account for the impact of the student yield beginning the first year after the future housing development was slated for completion.

Phasing of Student Yield
Student yields from Committed Affordable Units (CAFs) and single family detached homes are incorporated into the enrollment projections in the year that these units are assumed to be built. Meanwhile, the student yield from market rate residential developments were phased into the enrollment projections over a two-year period from the date that a residential development is forecast to be completed.

Data Sources

Annual Housing Unit Forecast
Starting in Fall 2017, the Arlington County Government (ACG) Department of [Community Planning, Housing and Development (CPHD)](#) began providing APS with a forecast of housing units for the County. This housing unit forecast is informed by the land use policy guidance of Arlington's [General Land Use Plan (GLUP)](#). The forecast uses two primary sources of development information which include the county-wide development pipeline data on recently completed projects, projects under construction, and approved projects and housing development assumptions derived from parcels with anticipated growth from approved sector plans and small area plans. Most importantly, the timeline of residential construction projects are identified by year, residential type, number of net new units, and affordability levels. This information helps APS estimate the number of new students and the year that a given housing development will add more students to neighborhood schools.

Births
Actual Resident Live Births
The Virginia Department of Health provided ACG with historical figures on live births to mothers that reside in Arlington through calendar year 2018.

Forecast of Births by Year
As recommended in the Arlington [Community Facilities Study ("CFS")](#) completed by Statistical Forecasting and RLS Demographics in October 2016, ACG uses the Cohort Component Model to project births in the long term for APS. In this method, the number of women of childbearing age (15-49) are projected and then multiplied by the corresponding age-specific fertility rate. Age-specific fertility rates are computed by averaging the actual number of births by each age cohort over a specified number of years and dividing by the age-specific populations. The Cohort Component Model was produced by RLS Demographics in 2016 and last updated in October 2019. With the latest update, the Cohort Component Model now estimates births for 2019 through 2024. This information helps APS to estimate future incoming Kindergarten cohorts, five-years after the forecasted births.

Master Housing Unit Database (MHUD)
The ACG Real Estate Assessment, A-Track, and Development Tracking were used to compile the MHUD database. The database provides an inventory of all housing in the County, including housing type, number of units, details on the number of CAF, and affordability classification for each complex (CAF only, Market Rate, or Mixed), and the presence of an approved Accessory Dwelling Unit (ADU) on a residential parcel. This information helps APS to develop student generation rates by housing unit type and school level. The Student Generation Rate is a mathematical representation of the relationship between housing units in Arlington County and the number of students enrolled in Arlington Public Schools on September 30 of each year. In other words, it is a factor applied to new housing to estimate the expected number of enrolled students from the new housing; this is specific to the building's location, housing type, and affordability characteristics.

September 30 Official Enrollment Count
Historical September 30 enrollment counts, by grade for each school, are used to develop the cohort progression ratios that estimate future enrollment. The data comes from the APS Monthly Membership Report for the month of September, which is prepared by the Information Services Department, see

https://www.apsva.us/statistics/monthly-enrollment/. This data is analyzed by school and by grade for purposes of developing historical enrollment trends.

In addition, APS staff has access to address level enrollment information from September 30. This information is relevant for assessing enrollment trends when boundary changes occur, see "Assumptions and Methodology" section.

Assumptions and Methodology

Actual Births

Since 2006, births have steadily grown by about 25% to 3,207 births in 2016. Since then, actual births have declined about 9% to 2,934 births in 2018[1].

According to the Virginia Department of Health, Division of Health Statistics data for live births by place of residence, this decline in births between 2016 and 2018 is not unique to Arlington County. In this same period, live births by place of residence declined by 12%, 6%, 2% and 2% in the City of Alexandria, Fairfax County, Prince William County, and Loudon County respectively. Similarly, a comparison of US Census Bureau, Population Estimate Program figures of births show a decline of 2% in national and Virginia births in the 2016-2017 to 2017-2018 period.

In the Fall 2019 10-year projections, actual births from 2015 to 2018 are used to project the incoming Kindergarten cohorts for 2020 through 2023.

Chart 1. Actual Birth to Arlington County Parents (2000 to 2018)
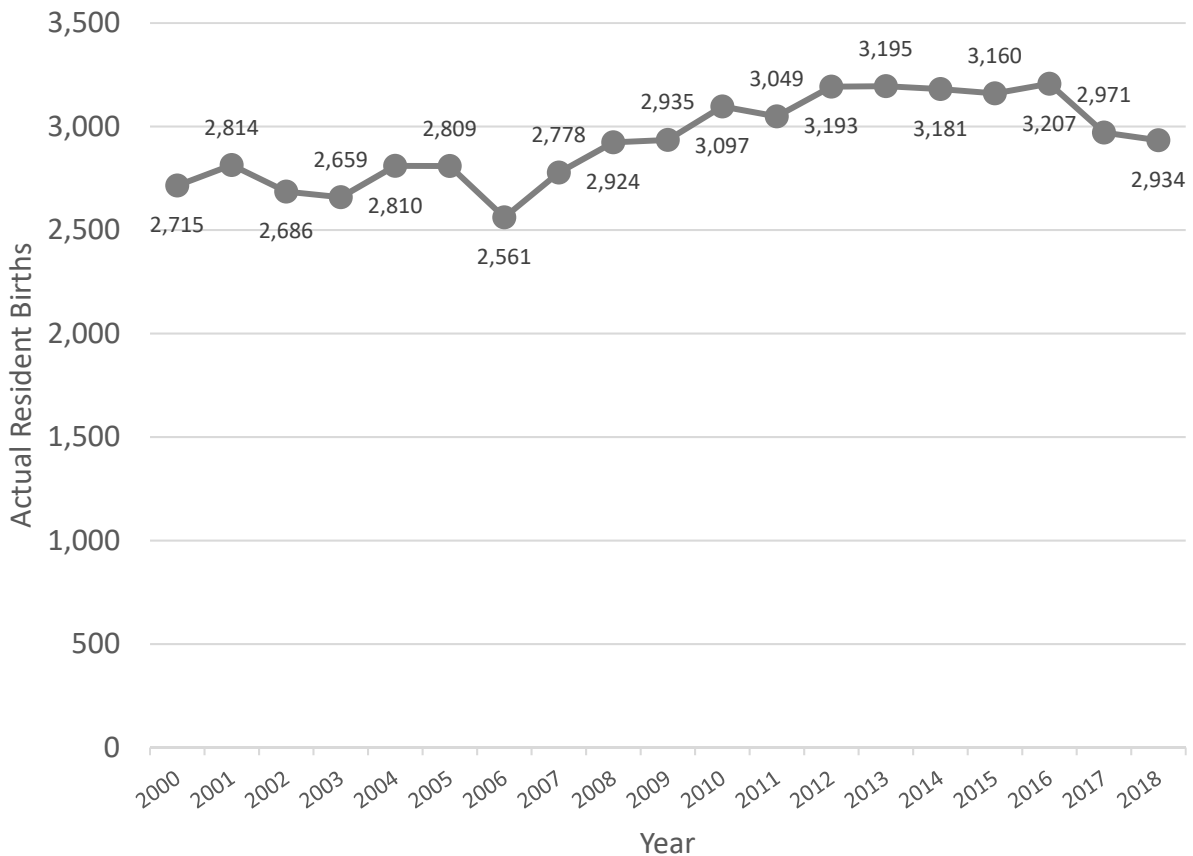
Source: Arlington County Government, Department of Community Planning, Housing and Development and the Virginia Department of Health, Division of Health Statistics.

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[1] Note that the 2018 birth figure of 2,934 has since been revised down by 5 births to 2,929 births by the Virginia Department of Health, Division of Health Statistics. Because of timing, the revised figure was not incorporated into the projections modeling.

Forecast of Births

In Sept. 2018, ACG provided APS with the number of actual births to Arlington County parents for 2017 and 2018[2]. This data provided an opportunity to compare actual births counts to forecasted births estimates from ACG for 2017 and 2018. On comparing these data, it was noted that the difference between actual and forecasted births was diverging and this divergence was widening: When comparing 2017 actual and forecasted births, the forecast over-estimated births by about 350 births; the 2018 comparison found that the forecast over-estimated births by about 470 births, see Chart 2.

Chart 2. Comparison of actual births and births used in the Fall 2018 and Fall 2019 10-Year Enrollment Projections
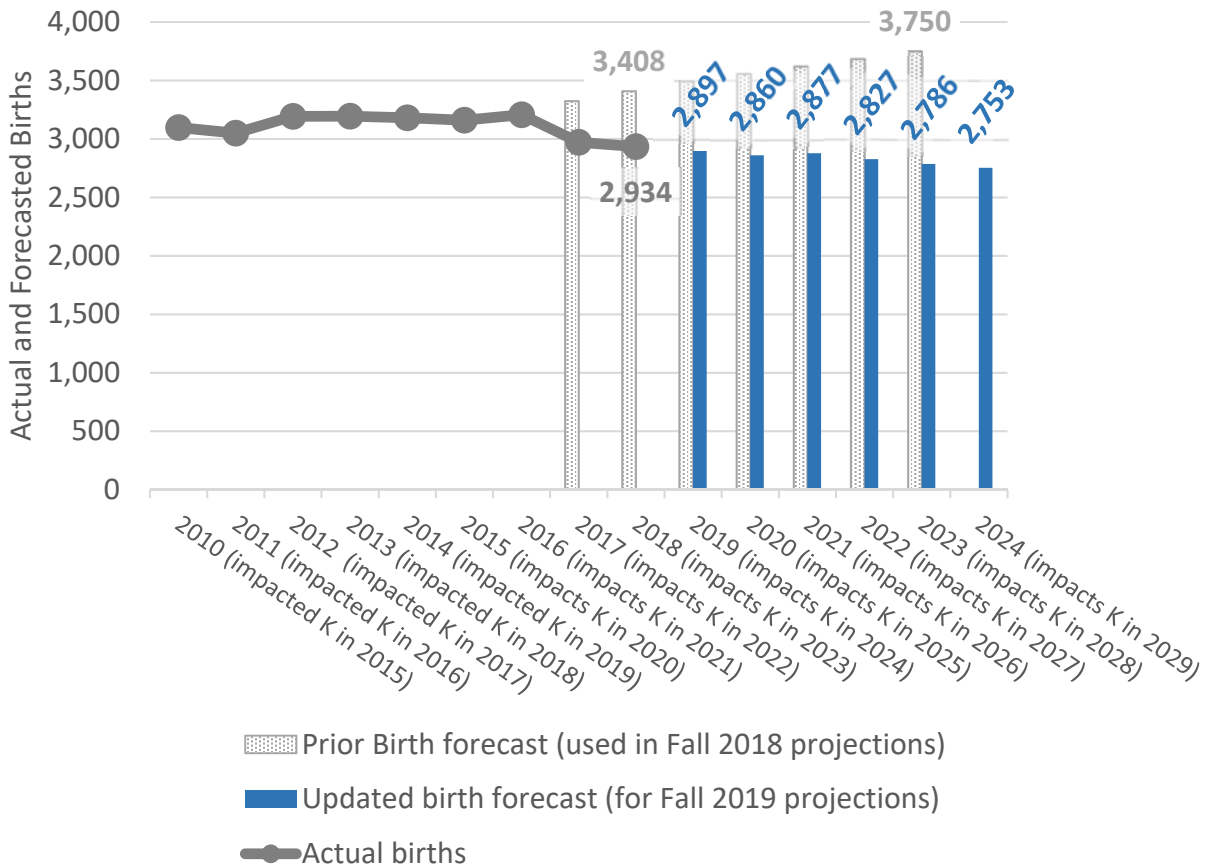
Source: Arlington County Government, Department of Community Planning, Housing Development; Virginia Department of Health, Division of Health Statistics; and RLS Demographics.

Because of the widening difference between actual and forecasted births, it was decided that ACG's cohort component model, known as the *Cohort Projection System*, needed to be recalibrated since some of its assumptions were last updated in 2016. RLS Demographics undertook the work recalibrating the *Cohort Projection System* by incorporating (a) the ACG's latest Arlington County Cooperative Forecast, known as Round 9.1, for population; (b) an updated analysis of age-specific fertility rates using 2010 to 2018 historical birth data and US Census bureau estimates of the distribution of the female population

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[2] Note that the 2018 birth figure of 2,934 has since been revised down by 5 births to 2,929 births by the Virginia Department of Health, Division of Health Statistics. Because of timing, the revised figure was not incorporated into the projections modeling.

by age; and (c) an updated analysis of age-specific migration using US Census Bureau estimates up to July 1, 2018. With the recent recalibration to the *Cohort Component System*, the births forecasts have been revised to be net positive, as previously calculated, but the year-to-year growth from 2019 to 2024 is forecast to moderate over time. By 2023, the new birth forecast is 964 births (or about 26%) lower than forecasted last year.

Birth to Kindergarten Ratio
The birth to kindergarten ratio is defined as the percentage of children entering kindergarten in a particular year as compared to the total number of children born five years earlier to Arlington County parents. Since 2000, this ratio has increased, which indicates that more resident families with children born in the county are staying in Arlington and/or more families with children born elsewhere are moving to Arlington County and enrolling their children in kindergarten at APS. For example, early in the decade the birth to kindergarten ratio was about 0.600, which indicates that about 60% of children born in the county enrolled as entering kindergarten students five-years later, see Chart 3. More recently this ratio has ticked up closer to 70%. For the past three school years, for example, the birth to kindergarten ratio averaged 0.708.

Table 2. Historical birth to kindergarten ratios

Birth Year	Resident Births	School Year Entering Grade K	Actual APS Grade K Enrollment	Birth to Kindergarten Ratio (Capture Rate)
2000	2,715	2005	1,501	0.553
2001	2,814	2006	1,627	0.578
2002	2,686	2007	1,610	0.599
2003	2,659	2008	1,697	0.638
2004	2,810	2009	1,924	0.685
2005	2,809	2010	2,003	0.713
2006	2,561	2011	1,968	0.768
2007	2,778	2012	2,179	0.784
2008	2,924	2013	2,139	0.732
2009	2,935	2014	2,196	0.748
2010	3,097	2015	2,152	0.695
2011	3,049	2016	2,127	0.698
2012	3,193	2017	2,253	0.706
2013	3,195	2018	2,293	0.718
2014	3,181	2019	2,231	0.701
Latest 3-Year Average, Birth to Kindergarten Ratio:				**0.708**

Source: APS, Department of Planning and Evaluation and Arlington County Government, Department of Community Planning, Housing Development.

In the Fall 2019 enrollment projections, the latest 3-year average birth to kindergarten ratio of 0.708 is applied to births that have occurred, or are expected to occur, between 2015 and 2024, to estimate the number of entering kindergarten students 5-years later.

New Residential Construction

ACG provided updated assumptions for the number, housing type, affordability levels, and location of new housing between the later-half of 2019 (Q3 and Q4) and 2029. This data is provided in a spatial format for use with GIS software, so that the new housing assumptions may be matched to neighborhood school and planning unit boundaries. In this timeframe, ACG anticipates a total of about 15,700 net new units--above and beyond the existing housing stock--to be delivered in the county. Much of the new housing, with a 95% share, is expected to be multi-family highrise, followed by multi-family garden at 3%, townhouse at just over 1%, and single-family detached at just under 1%.

Table 3. Historical birth to kindergarten ratios

Projection Year	Multi-family Garden	Multi-family Highrise	Single-family Detached	Townhome	Total Net New Units
2019		1,275			1,275
2020	12	2,188		3	2,203
2021	36	1,230			1,266
2022*		1,273		27	1,300
2023	172	1,167	3	57	1,400
2024	12	1,325		86	1,423
2025*	97	1,324		43	1,464
2026		1,379			1,379
2027		1,379			1,379
2028	85	1,232			1,317
2029	99	1,178			1,277
Total	**513**	**14,950**	**3**	**216**	**15,683**
Share	**3.27%**	**95.33%**	**0.02%**	**1.38%**	**100.00%**

Source: Arlington County Government, Department of Community Planning, Housing Development.
* The ACG, Sept. 2019 net new unit information for two residential projects was adjusted by APS staff in Dec. 2019.

The forecast of new residential construction is updated each year by ACG for APS's use in enrollment projections. Chart 3 displays how last years' residential construction forecast differs from the updated Fall 2019 residential unit forecast. Note that last year there was an over estimation of residential construction for the later half of 2018. ACG has shifted the completion date for many of these units from 2018 to 2019 or 2020 in the new housing unit forecast.

Chart 3. Comparison of Future Residential Units Assumed in the 10-Year Fall 2018 and Fall 2019 Enrollment Projections
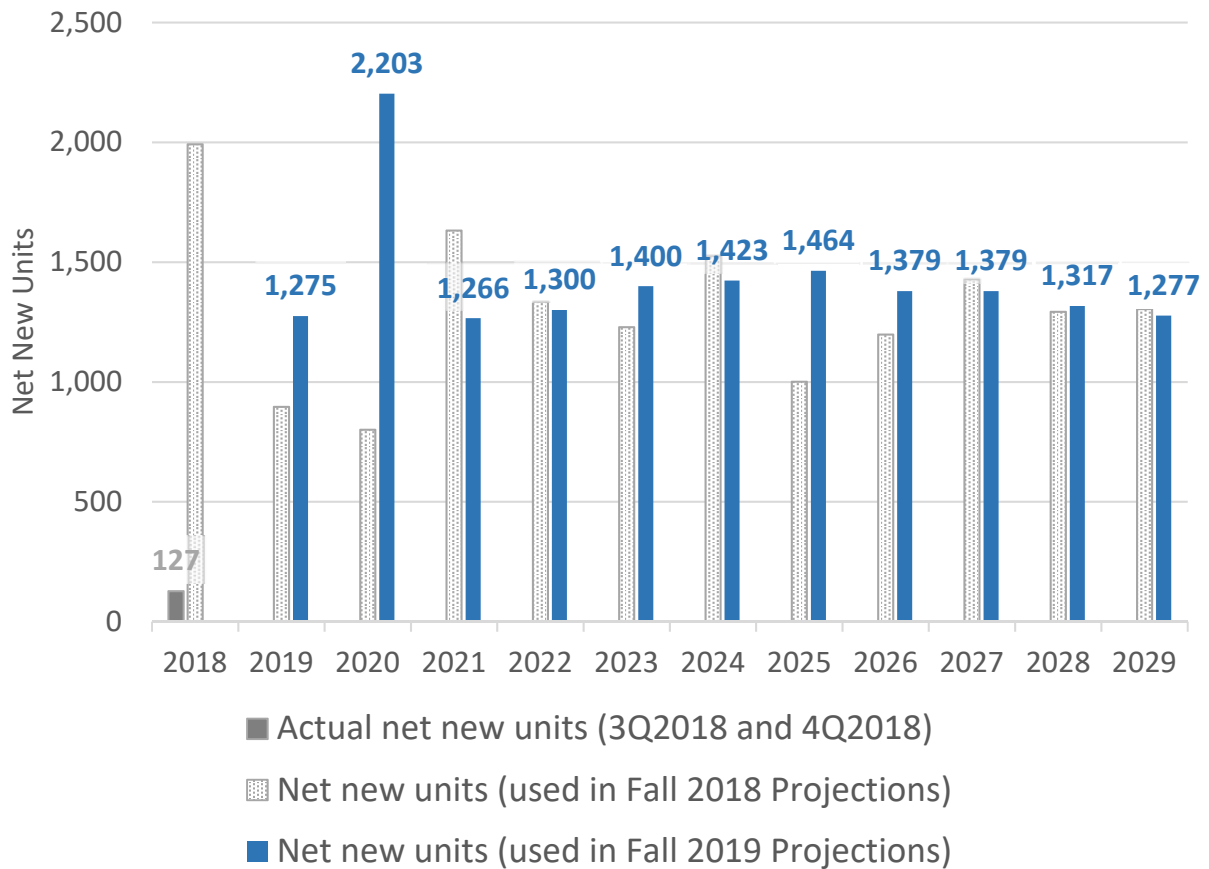
Source: Arlington County Government, Department of Community Planning, Housing Development.

A list of every residential project, its planning unit, and total number of expected students from each housing development can be found in "Attachment B: Fall 2019 Housing Unit Forecast and Projected Student Yield."

Student Generation Rates

The Student Generation Rates are used to estimate the student yield from "new" housing based on latest trends. It is the mathematical representation of the relationship between the number of existing housing units in Arlington County and the number of students—by housing unit type—enrolled at APS on September 30 for a given year. The student generation rate can be calculated each year because of the information sharing between APS and ACG on the MHUD housing snapshot by parcel, and matching this information to APS' student records[3].

The student generation rates are updated each year to reflect the most current September 30 enrollment and county-wide housing unit inventory from the county (the MHUD data). Table 4 displays the Fall 2019 and Fall 2018 differences in county-wide Student Generation Rates for twelve combinations of housing types and affordability levels. Between Fall 2018 and Fall 2019, the largest relative increase in student generation rates occurred among multi-family garden CAF units, with an

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[3] Individual student information is not shared by APS with ACG because of data privacy.

increase of 0.048. Note that multi-family garden CAF units represent less than 3% of the county's housing stock. Between Fall 2019 and Fall 2018, the relatively largest decline in student generation rates was experienced among duplex housing units, with a student generation rate fall of 0.013. A primary reason for this decline is that the number of duplex units increased by 102 units in the county between 2019 and 2018, according to MHUD data, while the number of students associated with this housing type remained fairly stable in this same period.

Table 4. Comparison of the County-Wide Student Generation Rates Used in the 10-Year Fall 2018 and Fall 2019 Enrollment Projections

| Grades K to 12 | Single Family Detached | Single Family Detached with Accessory Dwelling | Townhome | Duplex | Multi-family Elevator | | | Multi-family Garden | | | Condo | | Total by School |
					Market Rate	Mixed Income	CAF Only [1]	Market Rate	Mixed Income	CAF Only	Elevator	Garden	
Fall 2019													
Student Generation Rates *	0.498	N/A	0.214	0.345	0.066	0.127	0.656	0.254	0.383	0.632	0.055	0.113	0.232
Fall 2018													
Student Generation Rates **	0.497	N/A	0.194	0.358	0.061	0.126	0.617	0.258	0.380	0.584	0.054	0.110	0.229
Difference	**0.001**	N/A	**0.020**	**(0.013)**	**0.005**	**0.001**	**0.039**	**(0.004)**	**0.003**	**0.048**	**0.001**	**0.003**	**0.003**
2019 Master Housing Unit Database (MHUD) housing by type shares [1]	24.09%	0.03%	3.77%	2.27%	25.24%	7.86%	0.53%	8.55%	1.88%	2.99%	12.78%	10.00%	100.00%

[1] Excludes Apartment Elevator Senior Housing

Source: APS, Department of Planning and Evaluation.

The student generation rate by school level, neighborhood school boundary, housing type, and affordability level is included with "Attachment C: Fall 2019 Student Generation Rates." Note that the Fall 2019 Student Generation Rate factor includes a field for "Single Family Detached with Accessory Dwelling." Although ACG provided this information to APS, ACG requested that analysis which uses this housing designation not be published yet pending further refinements to the addresses for accessory dwelling units that share a single family detached home's parcel.

Projection Approaches by School Level

In the 2019-20 school year, adjusted boundaries came into effect for certain elementary neighborhood schools[4] and all middle schools. The Sept. 30, 2019 Enrollment Official Count, which is an important data input for the projections, for the first time reflects the actual enrollment impact of these adjusted boundaries. These boundary adjustments necessitated updates to the methodology used since last year for elementary and middle school enrollment projections, which did not have a data input which reflects the *actual* enrollment impact of the adjusted boundary. The method used in last year's projections is outlined in a report available here, https://www.apsva.us/wp-content/uploads/2019/02/Fall-2019-28-APS-Enrollment-Report_v12_.pdf.

Meanwhile, high schools were last affected by boundary adjustments in the 2017-18 school year. The 2019-20 school year marks the third year in which there is access to Sept. 30 Enrollment Official Count data which reflects the *actual* school enrollment impact from the adjusted boundaries.

Elementary School Assumptions:
Elementary Option Schools Enrollment Assumptions:

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[4] The elementary schools with adjusted or new boundaries which took effect in the 2019-20 school year include Abingdon, Alice West Fleet, Barcroft, Dr. Charles R. Drew, Hoffman-Boston, Long Branch, and Oakridge elementary schools.

- For 2020-21, the incoming Kindergarten (K) cohorts at all elementary options schools reflect the K cohort assumed in the "Spring 1-Year Projections Update for the 2019-20 School Year" student estimate, see https://www.apsva.us/wp-content/uploads/2019/05/Spring-Update-to-the-2019-20-Projection-04.26.2019-FINAL.pdf
- Starting in 2021-22, the incoming K cohorts at three elementary options schools—Arlington Traditional, Claremont, and Key—were adjusted to keep each school's K to Grade 5 capacity within historical capacity utilization thresholds. For Campbell and the Montessori Public School of Arlington, the incoming kindergarten enrollment for all projections years is fixed at the K cohorts assumed in the Spring 2019-20 estimate.
- Based on historical capacity utilization trends for K to Grade 5 students, projected enrollment at three option schools were allowed to grow above permanent seat capacity up to the following thresholds:
    o Arlington Traditional – 89 K to Grade 5 students[5]
    o Claremont – 127 K to Grade 5 students
    o Key – 53 K to Grade 5 students
- When adjusting future K cohorts to stay within K to Grade 5 school capacity thresholds, each incoming kindergarten class is assumed to have K cohorts at the maximum class size of 24 students per classroom. The immersion programs also necessitated a paring of K classrooms.
- No K to Grade 5 student capacity adjustments were made to Campbell and the Montessori Public School of Arlington.
- The CTR at Arlington Traditional and the Montessori Public School of Arlington was assumed to be 1.0. A CTR of 1.0 was applied to Arlington Traditional under the assumption that its classrooms can accommodate the maximum number of students at any one time because of its extensive wait list.
- A three-year weighted average CTR was applied to Claremont and Key Immersion. A three-year weighted average is assumed for these schools since students that might leave the program cannot be easily replaced with students on wait lists because of the immersion programs' language requirements. The weights were 40% for 2018 to 2019, 20% for 2017 to 2018, and 20% for 2016 to 2017; any possible impact to option school enrollment stemming from the neighborhood school boundary adjustments account for the greater emphasis on a CTR based on 2018 to 2019 enrollment trends.
- The three-year weighted average CTR—using weights of 40% for 2018 to 2019, 20% for 2017 to 2018, and 20% for 2016 to 2017—was also applied to Campbell.

Elementary Neighborhood Schools Enrollment Assumptions:
- Incoming K cohorts by neighborhood schools for 2020 and beyond was determined through the following process:
    o A birth to kindergarten ratio is applied to actual or forecasted births to estimate the number of incoming kindergarten students five-years later.
    o From the total incoming kindergarten cohort, the number of K student allocated to option schools is subtracted.

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[5] Arlington Traditional's projected enrollment for 2020-21 and 2021-22 was permitted to go above the overcapacity threshold of 89 students in consultation with educational leaders. All other projection years adhere to the overcapacity threshold of 89 students.

- o The remaining kindergarten students, that only reflect neighborhood school K cohorts, are distributed to individual neighborhood schools based on each neighborhood schools 3-year historical share of kindergarten students.
- Neighborhood school CTRs:
  - o For schools with boundary adjustments which took effect on Sept. 2019, the CTR was weighted 50%, 25%, and 25% for 2018 to 2019, 2017 to 2018, and 2016 to 2017 respectively. These weights give more emphasis to enrollment trends from 2018 to 2019, which includes 2019 when adjusted boundaries took effect.
  - o For schools with no boundary adjustments, the CTR weights were 40%, 40%, 20% for 2018 to 2019, 2017 to 2018, and 2016 to 2017 respectively. These weights give more emphasis to enrollment trends since 2018 when updates to the Options and Transfer policy took effect.
  - o Exceptions to the above method for calculating CTRs were made at two schools:
    - ▪ Dr. Charles R. Drew, CTRs for Grades 3 to 4 and 4 to 5 used the county-wide rates of 0.99 and 1.00 respectively. Otherwise it would have been 0.87 and 0.85 respectively which were deemed low and anomalies.
    - ▪ Long Branch, CTR for Grades 4 to 5 used the county-wide rate of 1.00. Otherwise it would have been 1.22 which was deemed high and an anomaly.
- Note:
  - o For neighborhood elementary schools that experienced boundary adjustments starting in the 2019-20 school year, historical K to Grade 5 student data (pre-Sept. 30, 2019) by students' residence address was used to calculate CTRs. Because student addresses are spatially fixed, these addresses can be retroactively associated with adjusted boundaries that did not exist in 2018, 2017, or 2016 using GIS software.
  - o Adjustments to 2020 and 2021 enrollment figures were performed to account for sibling/grandfathering and the Fort Myer CDC exceptions.

Middle School Assumptions:
In the 2019-20 school year, all neighborhood middle schools experience boundary adjustments. Below are methodological approaches and assumptions used to accommodate changes in historical enrollment trends stemming from the Fall 2019 boundary adjustments:
- The neighborhood school CTRs were calculated based on the following assumptions:
  - o Grades 5 to 6
    - ▪ Weights of 50%, 25%, 25% for 2018 to 2019, 2017 to 2018, and 2016 to 2017 were applied. These weights give more emphasis to enrollment trends from 2018 to 2019, which includes 2019 when adjusted boundaries took effect.
    - ▪ To calculate Grade 5 to 6 CTRs for 2016 through 2018, trends among 2016 through 2018 attending Grade 5 students (reflecting pre-Fall 2019 boundaries) were compared with Grade 6 enrollment for 2016 through 2018, which also reflect the former (pre-Fall 2019) boundaries.
    - ▪ The 2019 to 2018 CTR was based on 2018 Grade 5 students residing in the new (Fall 2019) boundary, calculated using GIS software, and the Sept. 30, 2019,

school neighborhood boundaries.
- o Grades 6 to 7 and 7 to 8 CTRs:
    - The two-year average of the 2016 to 2017 and 2017 to 2018 CTRs was used, which reflect the former (pre-Fall 2019) boundaries, to project future Grade 7 and 8 cohorts.
- Middle School Option Schools/Programs:
  - o Eunice Kennedy Shriver program's enrollment as of Sept. 30, 2019 is used for all projected years; no CTRs are applied.
  - o H-B Woodlawn's incoming Grade 6 cohort is assumed to be the same as that from Sept. 30, 2019 for all projected years.
  - o H-B Woodlawn uses a three year average CTR for Grades 6 to 7 and 7 to 8.

High School Assumptions:
High school boundaries were last adjusted in the 2017-18 school year. There are now three years' worth of enrollment information for neighborhood high schools which reflect the enrollment impacts of the 2017-18 boundary adjustments.
- All neighborhood schools' CTRs for Grades 9 to 12 were calculated based on a three-year average, no weights were applied.
- As of Sept. 30, 2019, Arlington Career Center's official enrollment now reflects only full-time Arlington Tech, ACADE, HILT and PEP students. Conversely, neighborhood high schools no longer include full-time Arlington Career Center students in their official enrollment counts. Because of this new method to reporting Arlington Career Center's and neighborhood schools' enrollment, historical enrollments for neighborhood schools were retroactively adjusted to exclude full-time Arlington Career Center students. This was done so that pre-2019 neighborhood high school enrollment counts align with 2019 neighborhood high school enrollment counts when calculating CTRs.
- Arlington Career Center's enrollment projections are a combination of:
  - o Assumption that the Sept. 30, 2019 enrollment by grade for ACADE, HILT, and PEP will continue for all the projection years.
  - o Assumption that the Arlington Tech incoming Grade 9 cohort will be 150 students, the CTR used for each grade is 1.0, and enrollment has a ceiling of 600 students.
- H-B Woodlawn's enrollment projections assume:
  - o A 1.25 CTR for Grade 8 to 9, based on 2016 through 2018 enrollment trends. Enrollment for 2019 was excluded since it would have increased the Grade 8 to 9 CTR to 1.61, which was assessed as high and an anomaly.
  - o The Grade 9 to 10, 10 to 11, and 11 to 12 CTRs are based on historical enrollment three-year averages.
  - o Each incoming Grade 9 is based on assuming a Grade 8 cohort of 82 students, from the Sept. 30, 2019 enrollment.
- Enrollment by grade as of Sept. 30, 2019 is used for all projection years for Arlington Community High School, Eunice Kennedy Shriver, Langston, and New Directions programs.

Estimated student impact from new housing:

- Assumptions on the timing of the enrollment impacts from new housing:
  - Full impact in the year of construction is assume for Committed Affordable Units (CAFs) and Single Family Detached (SFD) units.
  - The impact from all other housing types, mixed-income, and market-rate units is spread over a two-year period.
- The student yield from new housing is added on a cumulative basis across projection years for Grades K, 6, and 9.
- For all other grades, the student yield from new housing is not added on a cumulative basis. Rather the student yield from new residential construction is added on the year of construction (for CAFs and SFD) or over the course of two years (for all other housing types) only once.

Steps to Validate Projections

To validate the enrollment projections, an internal review committee met during the enrollment projection process to discuss assumptions, technical issues that arose, and review projection results. This process was put in place to allow various perspectives and expertise to assist with decision-making on assumptions. The stakeholders from APS included staff from the departments of Planning and Evaluation (P&E), Facilities and Operations, and Finance and Management Services. In addition, external experts from Arlington County Government, CPHD and Dr. Richard Grip from Statistical Forecasting LLC also offered perspectives.

The P&E staff tasked to perform the enrollment projections modeling identified key assumptions, such as how to adjust cohort transition rates to reflect the update to the Options and Transfer Policy, that needed input from the Internal Review Committee. After this committee provided feedback, the P&E staff drafted various modeling approaches that reflected the committee's suggestion and performed quality control checks on the projections modeling formulas. Dr. Grip was then consulted to see which modeling approach was most appropriate and validated the approach and results.

An important review step suggested last year by the Internal Review Committee was the development of an alternative projection model that used county-wide enrollment figures, construction assumptions, and cohort transition rates. The enrollment projections from this approach, known as a "top-down" approach, was compared to the projections from the "bottom-up" approach, which is outlined in this report. The purpose of this comparison was to observe the enrollment growth trends from each approach with the goal that they both reflect similar scales of enrollment growth trends. The enrollment projections from the two approaches was reviewed and ultimately validated with assistance from Dr. Grip.

Chart 3. Enrollment Projections Comparisons, Grades K to 12
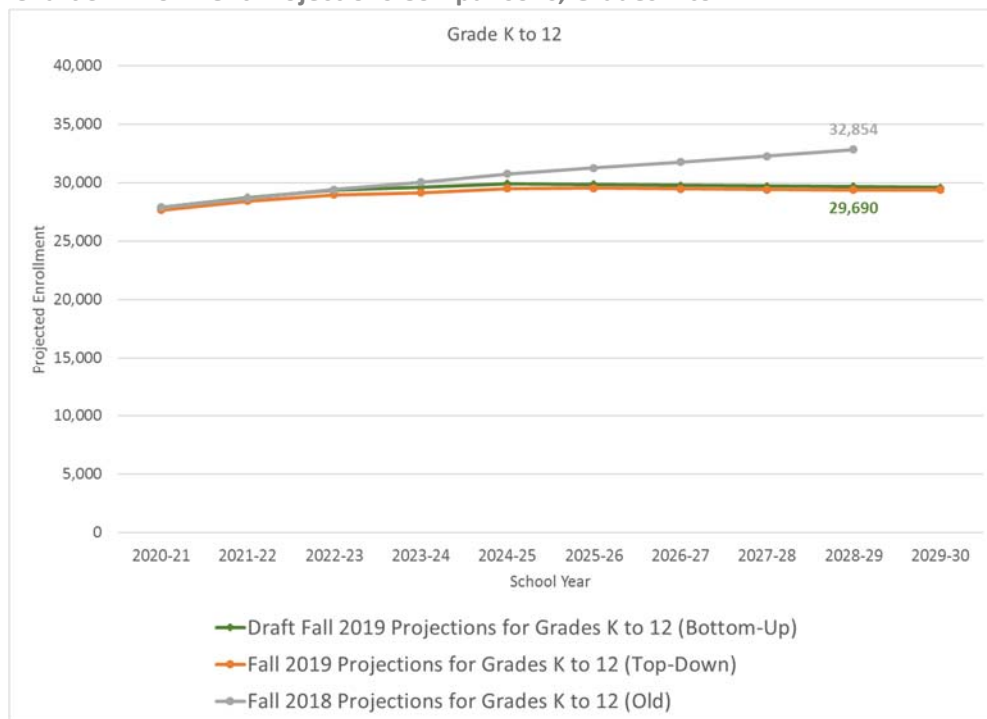
Source: APS, Department of Planning and Evaluation.

Chart 4. Enrollment Projections Comparisons, Grades K to 5
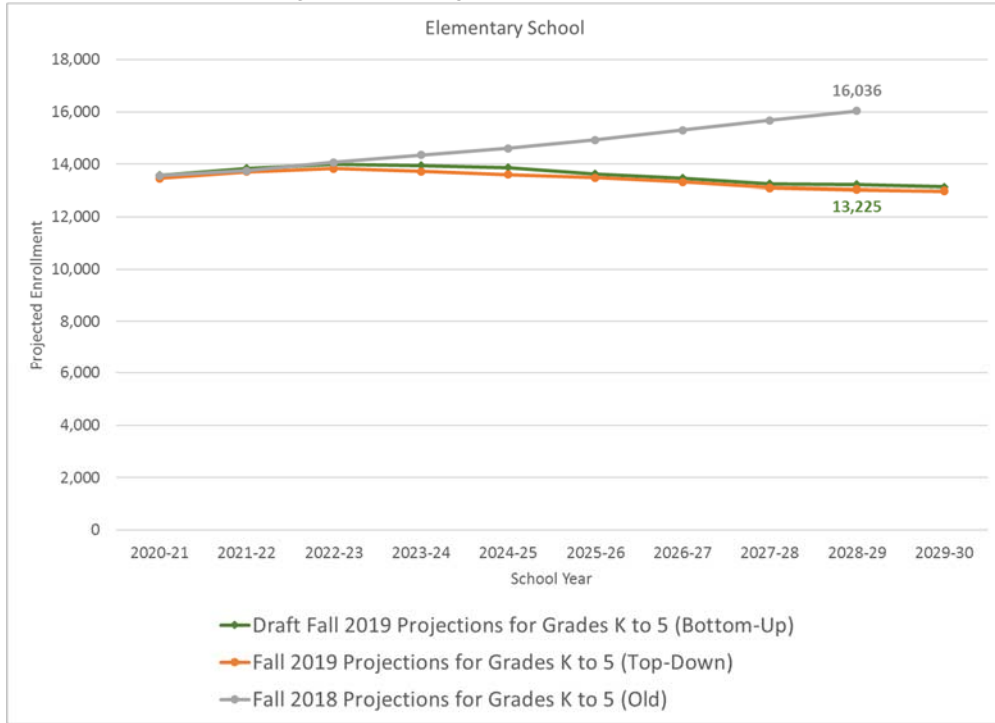
Source: APS, Department of Planning and Evaluation.

Chart 5. Enrollment Projections Comparisons, Grades 6 to 8
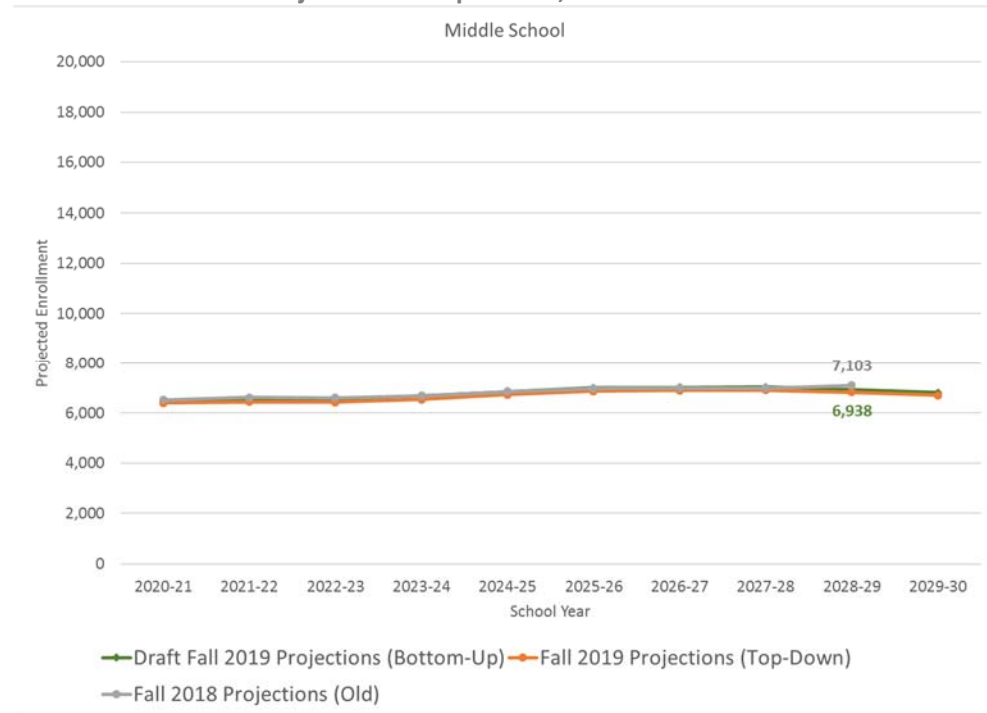
Source: APS, Department of Planning and Evaluation.

Chart 6. Enrollment Projections Comparisons, Grades 9 to 12
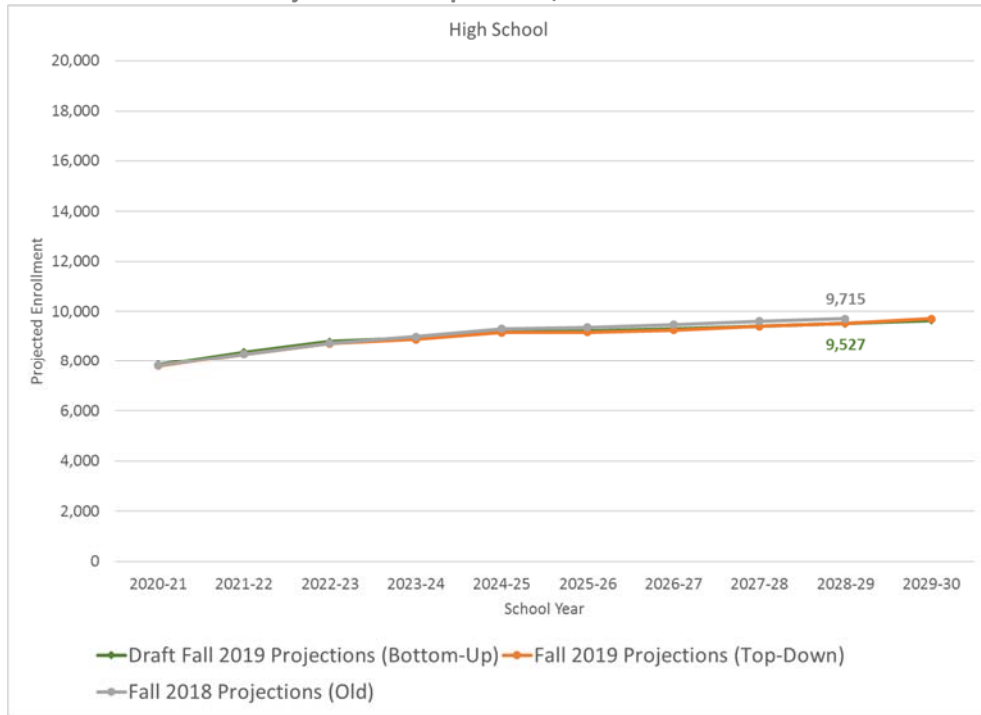
Source: APS, Department of Planning and Evaluation.

Attachment A, Table 1 - Enrollment Projection for 2020-21 (Grade K to 12) and 2019-20 estimate for PreK

	Enrollment Projection: Grade K to 12														2020-21 School Year Estimate: PreK [6]					
	K	1	2	3	4	5	6	7	8	9	10	11	12	Grade K-12 Total	VPI	PreK SPED	3&4 Mont	Comm Peers	PreK Total	Total
ELEMENTARY SCHOOL																				
Abingdon Elementary School	140	146	128	113	130	118								775	32	16	0	0	48	823
Alice West Fleet Elementary School	112	121	102	105	117	120								677	32	6	34	6	78	755
Arlington Science Focus Elementary	112	134	136	121	111	135								749	0	0	0	0	0	749
Arlington Traditional Elementary	96	96	120	96	100	75								583	32	6	0	0	38	621
Ashlawn Elementary School	123	131	118	135	92	131								730	16	16	0	0	32	762
Barcroft Elementary School	66	72	73	78	52	67								408	32	15	0	7	54	462
Barrett Elementary School	84	89	100	76	82	77								508	42	22	17	0	81	589
Campbell Elementary School	72	62	74	70	65	69								412	48	0	0	0	48	460
Carlin Springs Elementary School	86	95	100	107	79	86								553	58	31	17	11	117	670
Claremont Elementary School	144	132	134	112	116	84								722	32	0	0	0	32	754
Discovery Elementary School	92	95	94	107	92	96								576	0	8	28	0	36	612
Dr. Charles R. Drew Elementary School	65	65	83	64	60	61								398	26	37	0	7	70	468
Glebe Elementary School	89	73	87	102	107	99								557	0	7	0	7	14	571
Hoffman-Boston Elementary School	74	69	93	77	62	65								440	52	37	0	7	96	536
Jamestown Elementary School	85	90	94	86	106	96								557	0	16	51	4	71	628
Key Elementary School	144	118	106	120	104	91								683	32	0	0	0	32	715
Long Branch Elementary School	67	74	78	84	88	92								483	32	6	0	0	38	521
McKinley Elementary School	128	120	146	130	123	128								775	0	0	0	0	0	775
Montessori Public School of Arlington [1]	50	52	75	75	59	57								368	0	8	111	0	119	487
Nottingham Elementary School	71	81	54	85	88	82								461	0	14	0	14	28	489
Oakridge Elementary School	113	119	88	96	86	83								585	16	8	34	0	58	643
Randolph Elementary School	72	70	75	72	60	58								407	44	16	0	0	60	467
Taylor Elementary School	99	110	108	117	108	129								671	0	7	0	7	14	685
Tuckahoe Elementary School	80	74	95	90	77	85								501	0	14	0	14	28	529
Integration Station [2]	-	-	-	-	-	-								-	0	72	0	0	72	72
Elementary School Subtotal	2,264	2,288	2,361	2,318	2,164	2,184	-	-	-	-	-	-	-	13,579	526	362	292	84	1,264	14,843
MIDDLE SCHOOL [3]																				0
Dorothy Hamm Middle School							330	306	238					874						874
Eunice Kennedy Shriver Program							4	1	4					9						9
Gunston Middle School							388	412	376					1,176						1,176
H-B Woodlawn Secondary Program							81	82	82					245						245
Jefferson Middle School							360	328	409					1,097						1,097
Kenmore Middle School							373	332	334					1,039						1,039
Swanson Middle School							329	355	338					1,022						1,022
Williamsburg Middle School							309	336	335					980						980
Middle School Subtotal	-	-	-	-	-	-	2,174	2,152	2,116	-	-	-	-	6,442						6,442
HIGH SCHOOL [3]																				0
Arlington Career Center (Full-Time) [4]										175	149	122	146	592						592
Arlington Community High School										7	11	26	40	84						84
Eunice Kennedy Shriver Program										9	7	4	18	38						38
H-B Woodlawn Secondary Program										103	149	127	112	491						491
Langston High School Continuation [5]										1	8	34	65	108						108
New Directions Program										1	9	5	2	17						17
Wakefield High School										652	600	536	451	2,239						2,239
Washington-Liberty High School										552	575	562	445	2,134						2,134
Yorktown High School										521	617	508	508	2,154						2,154
High School Subtotal	-	-	-	-	-	-	-	-	-	2,021	2,125	1,924	1,787	7,857						7,857
Total (Grade K to Grade 12)	2,264	2,288	2,361	2,318	2,164	2,184	2,174	2,152	2,116	2,021	2,125	1,924	1,787	27,878						
Total (PreK to Grade 12)	2,264	2,288	2,361	2,318	2,164	2,184	2,174	2,152	2,116	2,021	2,125	1,924	1,787	27,878	526	362	292	84	1,264	29,142

[1] Five-year-old Montessori students are reported in Kindergarten.

[2] PreK SPED classes (16) are in Integration Station as placeholders for Fiscal Year (FY) 2021. Integration Station is housed outside of APS with community PreK partners; totals do not include 5.0 FTE staffing for 60 community-based resource students.

[3] Schools that accept enrollment through a lottery process can also include students from the Secondary Program for Students with Autism (Grade 6 to 12) and H.S. HILT students (English Learners) enter through the year (Grade 9 to 12). H-B Woodlawn is an example of such a school.

[4] Arlington Career Center full-time students include Arlington Tech, Academic Academy, HILT Institute, and PEP. Arlington Career Center part-time students are included at their neighborhood school.

[5] Langston and Arlington Community membership does not include students over 20 years old. The above projections do not include the adult students at Arlington Community and at Langston.

[6] PreK estimates are prepared by the Department of Teaching & Learning.

Note:
All Grade K-12 Special Education students, including those in self-contained classes, and English Learners are included within the grade totals at each school.
The projections for option schools were calculated differently from neighborhood schools. For certain option schools, either their enrollment was static as of Sept. 30, 2018 or the incoming class was based on the prior year's Spring Update to the Fall Projections.

All Arlington Public Schools (APS) budget and operations decisions are based on the best information available at the time. Staff and community members are reminded that funding forecasts from Arlington County and the state may change, based on many external factors. Similarly, student enrollment and projections are based on the best available information, but are also subject to change due to employment, housing and other economic factors. For these reasons, APS and the Arlington School Board may adjust future budget allocations, staffing and other operations decisions to reflect the existing community and operating landscape.

Attachment A, Table 2 - Enrollment Projection for 2021-22 (Grade K to 12) and 2019-20 estimate for PreK

	K	1	2	3	4	5	6	7	8	9	10	11	12	Grade K-12 Total	VPI	PreK SPED	3&4 Mont	Comm Peers	PreK Total	Total
							Enrollment Projection: Grade K to 12									2020-21 School Year Estimate: PreK[6]				
ELEMENTARY SCHOOL																				
Abingdon Elementary School	143	142	158	145	119	140								847	32	16	-	-	48	895
Alice West Fleet Elementary School	114	118	111	105	106	117								671	32	6	34.00	6.00	78	749
Arlington Science Focus Elementary	116	126	145	139	129	110								765	0	0	-	-	0	765
Arlington Traditional Elementary	48	96	96	120	96	100								556	32	6	-	-	38	594
Ashlawn Elementary School	127	128	137	123	132	96								743	16	16	-	-	32	775
Barcroft Elementary School	67	71	70	78	80	55								421	32	15	-	7.00	54	475
Barrett Elementary School	85	83	92	101	74	88								523	42	22	17.00	-	81	604
Campbell Elementary School	72	67	63	79	71	64								416	48	0	-	-	48	464
Carlin Springs Elementary School	87	91	99	106	106	83								572	58	31	17.00	11.00	117	689
Claremont Elementary School	96	140	127	123	106	110								702	32	0	-	-	32	734
Discovery Elementary School	94	95	93	98	109	95								584	0	8	28.00	-	36	620
Dr. Charles R. Drew Elementary School	67	63	69	80	65	66								410	26	37	-	7.00	70	480
Glebe Elementary School	91	88	71	89	106	105								550	0	7	-	7.00	14	564
Hoffman-Boston Elementary School	76	68	79	85	71	63								442	52	37	-	7.00	96	538
Jamestown Elementary School	87	86	94	100	87	110								564	0	16	51.00	4.00	71	635
Key Elementary School	144	137	110	100	113	96								700	32	0	-	-	32	732
Long Branch Elementary School	69	73	77	87	87	88								481	32	6	-	-	38	519
McKinley Elementary School	130	132	118	148	127	127								782	0	0	-	-	0	782
Montessori Public School of Arlington [1]	50	50	52	75	75	59								361	0	8	111.00	-	119	480
Nottingham Elementary School	72	75	79	55	85	86								452	0	14	-	14.00	28	480
Oakridge Elementary School	132	135	139	107	115	103								731	16	8	34.00	-	58	789
Randolph Elementary School	73	73	70	72	71	59								418	44	16	-	-	60	478
Taylor Elementary School	102	102	116	108	119	111								658	0	7	-	7.00	14	672
Tuckahoe Elementary School	82	82	73	93	88	75								493	0	14	-	14.00	28	521
Integration Station [2]	-	-	-	-	-	-								-	0	72	-	-	72	72
Elementary School Subtotal	2,224	2,321	2,338	2,416	2,337	2,206	-	-	-	-	-	-	-	13,842	526	362	292	84	1,264	15,106
MIDDLE SCHOOL [3]																				0
Dorothy Hamm Middle School							370	331	307					1,008						1,008
Eunice Kennedy Shriver Program							4	1	4					9						9
Gunston Middle School							369	395	412					1,176						1,176
H-B Woodlawn Secondary Program							81	82	83					246						246
Jefferson Middle School							386	368	331					1,085						1,085
Kenmore Middle School							346	373	328					1,047						1,047
Swanson Middle School							323	332	356					1,011						1,011
Williamsburg Middle School							302	307	335					944						944
Middle School Subtotal	-	-	-	-	-	-	2,181	2,189	2,156	-	-	-	-	6,526						6,526
HIGH SCHOOL [3]																				0
Arlington Career Center (Full-Time) [4]										175	168	171	170	684						684
Arlington Community High School										7	11	26	40	84						84
Eunice Kennedy Shriver Program										9	7	4	18	38						38
H-B Woodlawn Secondary Program										103	113	152	130	498						498
Langston High School Continuation [5]										1	8	34	65	108						108
New Directions Program										1	9	5	2	17						17
Wakefield High School										733	661	572	498	2,464						2,464
Washington-Liberty High School										610	554	576	509	2,249						2,249
Yorktown High School										604	530	605	489	2,228						2,228
High School Subtotal	-	-	-	-	-	-	-	-	-	2,243	2,061	2,145	1,921	8,370						8,370
Total (Grade K to Grade 12)	2,224	2,321	2,338	2,416	2,337	2,206	2,181	2,189	2,156	2,243	2,061	2,145	1,921	28,738						
Total (PreK to Grade 12)	2,224	2,321	2,338	2,416	2,337	2,206	2,181	2,189	2,156	2,243	2,061	2,145	1,921	28,738	526	362	292	84	1,264	30,002

[1] Five-year-old Montessori students are reported in Kindergarten.

[2] PreK SPED classes *(16)* are in Integration Station as placeholders for Fiscal Year (FY) 2021. Integration Station is housed outside of APS with community PreK partners; totals do not include 5.0 FTE staffing for 60 community-based resource students.

[3] Schools that accept enrollment through a lottery process can also include students from the Secondary Program for Students with Autism (Grade 6 to 12) and H.S. HILT students (English Learners) enter through the year (Grade 9 to 12). H-B Woodlawn is an example of such a school.

[4] Arlington Career Center full-time students include Arlington Tech, Academic Academy, HILT Institute, and PEP. Arlington Career Center part-time students are included at their neighborhood school.

[5] Langston and Arlington Community membership does not include students over 20 years old. The above projections do not include the adult students at Arlington Community and at Langston.

[6] PreK estimates are prepared by the Department of Teaching & Learning.

Note:
All Grade K-12 Special Education students, including those in self-contained classes, and English Learners are included within the grade totals at each school.
The projections for option schools were calculated differently from neighborhood schools. For certain option schools, either their enrollment was static as of Sept. 30, 2018 or the incoming class was based on the prior year's Spring Update to the Fall Projections.

All Arlington Public Schools (APS) budget and operations decisions are based on the best information available at the time. Staff and community members are reminded that funding forecasts from Arlington County and the state may change, based on many external factors. Similarly, student enrollment and projections are based on the best available information, but are also subject to change due to employment, housing and other economic factors. For these reasons, APS and the Arlington School Board may adjust future budget allocations, staffing and other operations decisions to reflect the existing community and operating landscape.

Attachment A, Table 3 - Enrollment Projection for 2022-23 (Grade K to 12) and 2019-20 estimate for PreK

	K	1	2	3	4	5	6	7	8	9	10	11	12	Grade K-12 Total	VPI	PreK SPED	3&4 Mont	Comm Peers	PreK Total	Total
ELEMENTARY SCHOOL																				
Abingdon Elementary School	129	145	153	176	152	127								882	32	16	-	-	48	930
Alice West Fleet Elementary School	104	120	127	122	112	117								702	32	6	34.00	6.00	78	780
Arlington Science Focus Elementary	114	137	142	154	153	134								834	0	0	-	-	0	834
Arlington Traditional Elementary	96	48	96	96	120	96								552	32	6	-	-	38	590
Ashlawn Elementary School	115	130	132	141	120	136								774	16	16	-	-	32	806
Barcroft Elementary School	61	73	68	74	79	84								439	32	15	-	7.00	54	493
Barrett Elementary School	77	84	86	94	98	79								518	42	22	17.00	-	81	599
Campbell Elementary School	72	67	68	67	80	71								425	48	0	-	-	48	473
Carlin Springs Elementary School	79	92	95	105	104	111								586	58	31	17.00	11.00	117	703
Claremont Elementary School	144	93	135	117	116	100								705	32	0	-	-	32	737
Discovery Elementary School	85	97	93	97	99	112								583	0	8	28.00	-	36	619
Dr. Charles R. Drew Elementary School	62	65	62	65	80	66								400	26	37	-	7.00	70	470
Glebe Elementary School	82	90	86	72	92	104								526	0	7	-	7.00	14	540
Hoffman-Boston Elementary School	70	69	74	72	77	71								433	52	37	-	7.00	96	529
Jamestown Elementary School	79	88	88	100	101	90								546	0	16	51.00	4.00	71	617
Key Elementary School	96	137	127	104	94	104								662	32	0	-	-	32	694
Long Branch Elementary School	62	75	75	86	90	86								474	32	6	-	-	38	512
McKinley Elementary School	118	134	130	120	146	131								779	0	0	-	-	0	779
Montessori Public School of Arlington [1]	50	50	50	52	75	75								352	0	8	111.00	-	119	471
Nottingham Elementary School	65	76	73	81	55	82								432	0	14	-	14.00	28	460
Oakridge Elementary School	121	138	133	139	110	114								755	16	8	34.00	-	58	813
Randolph Elementary School	67	74	71	67	71	67								417	44	16	-	-	60	477
Taylor Elementary School	104	117	120	128	122	135								726	0	7	-	7.00	14	740
Tuckahoe Elementary School	74	84	82	72	91	86								489	0	14	-	14.00	28	517
Integration Station [2]	-	-	-	-	-	-								-	0	72	-	-	72	72
Elementary School Subtotal	**2,126**	**2,283**	**2,366**	**2,401**	**2,437**	**2,378**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**13,991**	**526**	**362**	**292**	**84**	**1,264**	**15,255**
MIDDLE SCHOOL [3]																				0
Dorothy Hamm Middle School							335	382	343					1,060						1,060
Eunice Kennedy Shriver Program							4	1	4					9						9
Gunston Middle School							400	363	382					1,145						1,145
H-B Woodlawn Secondary Program							81	82	83					246						246
Jefferson Middle School							398	395	371					1,164						1,164
Kenmore Middle School							318	346	368					1,032						1,032
Swanson Middle School							350	325	332					1,007						1,007
Williamsburg Middle School							291	301	307					899						899
Middle School Subtotal	**-**	**-**	**-**	**-**	**-**	**-**	**2,177**	**2,195**	**2,190**	**-**	**-**	**-**	**-**	**6,562**						**6,562**
HIGH SCHOOL [3]																				0
Arlington Career Center (Full-Time) [4]										175	168	190	219	752						752
Arlington Community High School										7	11	26	40	84						84
Eunice Kennedy Shriver Program										9	7	4	18	38						38
H-B Woodlawn Secondary Program										103	113	116	157	489						489
Langston High School Continuation [5]										1	8	34	65	108						108
New Directions Program										1	9	5	2	17						17
Wakefield High School										706	731	619	521	2,577						2,577
Washington-Liberty High School										644	622	565	531	2,362						2,362
Yorktown High School										640	620	526	587	2,373						2,373
High School Subtotal	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2,286**	**2,289**	**2,085**	**2,140**	**8,800**						**8,800**
Total (Grade K to Grade 12)	**2,126**	**2,283**	**2,366**	**2,401**	**2,437**	**2,378**	**2,177**	**2,195**	**2,190**	**2,286**	**2,289**	**2,085**	**2,140**	**29,353**						
Total (PreK to Grade 12)	**2,126**	**2,283**	**2,366**	**2,401**	**2,437**	**2,378**	**2,177**	**2,195**	**2,190**	**2,286**	**2,289**	**2,085**	**2,140**	**29,353**	**526**	**362**	**292**	**84**	**1,264**	**30,617**

[1] Five-year-old Montessori students are reported in Kindergarten.

[2] PreK SPED classes *(16)* are in Integration Station as placeholders for Fiscal Year (FY) 2021. Integration Station is housed outside of APS with community PreK partners; totals do not include 5.0 FTE staffing for 60 community-based resource students.

[3] Schools that accept enrollment through a lottery process can also include students from the Secondary Program for Students with Autism (Grade 6 to 12) and H.S. HILT students (English Learners) enter through the year (Grade 9 to 12). H-B Woodlawn is an example of such a school.

[4] Arlington Career Center full-time students include Arlington Tech, Academic Academy, HILT Institute, and PEP. Arlington Career Center part-time students are included at their neighborhood school.

[5] Langston and Arlington Community membership does not include students over 20 years old. The above projections do not include the adult students at Arlington Community and at Langston.

[6] PreK estimates are prepared by the Department of Teaching & Learning.

Note:
All Grade K-12 Special Education students, including those in self-contained classes, and English Learners are included within the grade totals at each school.
The projections for option schools were calculated differently from neighborhood schools. For certain option schools, either their enrollment was static as of Sept. 30, 2018 or the incoming class was based on the prior year's Spring Update to the Fall Projections.

All Arlington Public Schools (APS) budget and operations decisions are based on the best information available at the time. Staff and community members are reminded that funding forecasts from Arlington County and the state may change, based on many external factors. Similarly, student enrollment and projections are based on the best available information, but are also subject to change due to employment, housing and other economic factors. For these reasons, APS and the Arlington School Board may adjust future budget allocations, staffing and other operations decisions to reflect the existing community and operating landscape.

Attachment A, Table 4 - Enrollment Projection for 2023-24 (Grade K to 12) and 2019-20 estimate for PreK

	K	1	2	3	4	5	6	7	8	9	10	11	12	Grade K-12 Total	VPI	PreK SPED	3&4 Mont	Comm Peers	PreK Total	Total
ELEMENTARY SCHOOL																				
Abingdon Elementary School	127	131	157	171	184	162								932	32	16	-	-	48	980
Alice West Fleet Elementary School	103	110	129	139	130	123								734	32	6	34.00	6.00	78	812
Arlington Science Focus Elementary	112	128	146	144	161	150								841	0	0	-	-	0	841
Arlington Traditional Elementary	96	96	48	96	96	120								552	32	6	-	-	38	590
Ashlawn Elementary School	113	118	134	135	136	122								758	16	16	-	-	32	790
Barcroft Elementary School	60	66	69	71	75	83								424	32	15	-	7.00	54	478
Barrett Elementary School	76	77	88	88	91	105								525	42	22	17.00	-	81	606
Campbell Elementary School	72	67	68	73	67	80								427	48	0	-	-	48	475
Carlin Springs Elementary School	78	84	96	100	103	109								570	58	31	17.00	11.00	117	687
Claremont Elementary School	144	140	90	124	111	110								719	32	0	-	-	32	751
Discovery Elementary School	84	88	95	97	98	102								564	0	8	28.00	-	36	600
Dr. Charles R. Drew Elementary School	64	62	66	60	67	83								402	26	37	-	7.00	70	472
Glebe Elementary School	81	81	88	87	75	91								503	0	7	-	7.00	14	517
Hoffman-Boston Elementary School	69	64	76	68	66	77								420	52	37	-	7.00	96	516
Jamestown Elementary School	78	79	91	94	100	105								547	0	16	51.00	4.00	71	618
Key Elementary School	144	91	127	120	97	87								666	32	0	-	-	32	698
Long Branch Elementary School	61	67	77	83	88	90								466	32	6	-	-	38	504
McKinley Elementary School	116	121	132	131	118	150								768	0	0	-	-	0	768
Montessori Public School of Arlington [1]	50	50	50	50	52	75								327	0	8	111.00	-	119	446
Nottingham Elementary School	64	69	74	75	81	53								416	0	14	-	14.00	28	444
Oakridge Elementary School	122	129	138	136	145	110								780	16	8	34.00	-	58	838
Randolph Elementary School	65	68	72	68	67	67								407	44	16	-	-	60	467
Taylor Elementary School	106	111	127	123	134	129								730	0	7	-	7.00	14	744
Tuckahoe Elementary School	74	77	85	81	71	90								478	0	14	-	14.00	28	506
Integration Station [2]	-	-	-	-	-	-								-	0	72	-	-	72	72
Elementary School Subtotal	2,159	2,174	2,323	2,414	2,413	2,473	-	-	-	-	-	-	-	13,956	526	362	292	84	1,264	15,220
MIDDLE SCHOOL [3]																				0
Dorothy Hamm Middle School							380	337	384					1,101						1,101
Eunice Kennedy Shriver Program							4	1	4					9						9
Gunston Middle School							438	395	353					1,186						1,186
H-B Woodlawn Secondary Program							81	82	83					246						246
Jefferson Middle School							401	407	397					1,205						1,205
Kenmore Middle School							354	318	341					1,013						1,013
Swanson Middle School							350	353	326					1,029						1,029
Williamsburg Middle School							301	290	301					892						892
Middle School Subtotal	-	-	-	-	-	-	2,309	2,183	2,189	-	-	-	-	6,681						6,681
HIGH SCHOOL [3]																				0
Arlington Career Center (Full-Time) [4]										175	168	190	238	771						771
Arlington Community High School										7	11	26	40	84						84
Eunice Kennedy Shriver Program										9	7	4	18	38						38
H-B Woodlawn Secondary Program										103	113	116	119	451						451
Langston High School Continuation [5]										1	8	34	65	108						108
New Directions Program										1	9	5	2	17						17
Wakefield High School										717	708	687	566	2,678						2,678
Washington-Liberty High School										671	645	622	511	2,449						2,449
Yorktown High School										602	650	607	505	2,364						2,364
High School Subtotal	-	-	-	-	-	-	-	-	-	2,286	2,319	2,291	2,064	8,960						8,960
Total (Grade K to Grade 12)	2,159	2,174	2,323	2,414	2,413	2,473	2,309	2,183	2,189	2,286	2,319	2,291	2,064	29,597						
Total (PreK to Grade 12)	2,159	2,174	2,323	2,414	2,413	2,473	2,309	2,183	2,189	2,286	2,319	2,291	2,064	29,597	526	362	292	84	1,264	30,861

Column group headers: **Enrollment Projection: Grade K to 12** (K–Grade K-12 Total); **2020-21 School Year Estimate: PreK [6]** (VPI, PreK SPED, 3&4 Mont, Comm Peers, PreK Total); **Total**

[1] Five-year-old Montessori students are reported in Kindergarten.

[2] PreK SPED classes *(16)* are in Integration Station as placeholders for Fiscal Year (FY) 2021. Integration Station is housed outside of APS with community PreK partners; totals do not include 5.0 FTE staffing for 60 community-based resource students.

[3] Schools that accept enrollment through a lottery process can also include students from the Secondary Program for Students with Autism (Grade 6 to 12) and H.S. HILT students (English Learners) enter through the year (Grade 9 to 12). H-B Woodlawn is an example of such a school.

[4] Arlington Career Center full-time students include Arlington Tech, Academic Academy, HILT Institute, and PEP. Arlington Career Center part-time students are included at their neighborhood school.

[5] Langston and Arlington Community membership does not include students over 20 years old. The above projections do not include the adult students at Arlington Community and at Langston.

[6] PreK estimates are prepared by the Department of Teaching & Learning.

Note:
All Grade K-12 Special Education students, including those in self-contained classes, and English Learners are included within the grade totals at each school.
The projections for option schools were calculated differently from neighborhood schools. For certain option schools, either their enrollment was static as of Sept. 30, 2018 or the incoming class was based on the prior year's Spring Update to the Fall Projections.

All Arlington Public Schools (APS) budget and operations decisions are based on the best information available at the time. Staff and community members are reminded that funding forecasts from Arlington County and the state may change, based on many external factors. Similarly, student enrollment and projections are based on the best available information, but are also subject to change due to employment, housing and other economic factors. For these reasons, APS and the Arlington School Board may adjust future budget allocations, staffing and other operations decisions to reflect the existing community and operating landscape.

Attachment A, Table 5 - Enrollment Projection for 2024-25 (Grade K to 12) and 2019-20 estimate for PreK

	Enrollment Projection: Grade K to 12														2020-21 School Year Estimate: PreK [6]					
	K	1	2	3	4	5	6	7	8	9	10	11	12	Grade K-12 Total	VPI	PreK SPED	3&4 Mont	Comm Peers	PreK Total	Total
ELEMENTARY SCHOOL																				
Abingdon Elementary School	125	129	141	175	179	196								945	32	16	-	-	48	993
Alice West Fleet Elementary School	101	109	118	142	148	144								762	32	6	34.00	6.00	78	840
Arlington Science Focus Elementary	113	127	137	149	152	159								837	0	0	-	-	0	837
Arlington Traditional Elementary	96	96	96	48	96	96								528	32	6	-	-	38	566
Ashlawn Elementary School	122	125	131	147	141	149								815	16	16	-	-	32	847
Barcroft Elementary School	59	65	62	73	72	79								410	32	15	-	7.00	54	464
Barrett Elementary School	76	76	80	89	85	98								504	42	22	17.00	-	81	585
Campbell Elementary School	72	67	68	73	73	67								420	48	0	-	-	48	468
Carlin Springs Elementary School	77	82	87	101	99	108								554	58	31	17.00	11.00	117	671
Claremont Elementary School	144	140	135	83	117	105								724	32	0	-	-	32	756
Discovery Elementary School	82	87	86	99	99	101								554	0	8	28.00	-	36	590
Dr. Charles R. Drew Elementary School	66	64	63	64	62	70								389	26	37	-	7.00	70	459
Glebe Elementary School	79	80	79	88	90	74								490	0	7	-	7.00	14	504
Hoffman-Boston Elementary School	69	64	71	70	62	66								402	52	37	-	7.00	96	498
Jamestown Elementary School	76	78	82	96	95	104								531	0	16	51.00	4.00	71	602
Key Elementary School	144	137	85	120	113	90								689	32	0	-	-	32	721
Long Branch Elementary School	60	66	70	86	86	88								456	32	6	-	-	38	494
McKinley Elementary School	114	119	119	133	129	121								735	0	0	-	-	0	735
Montessori Public School of Arlington [1]	50	50	50	50	50	52								302	0	8	111.00	-	119	421
Nottingham Elementary School	63	68	67	76	75	78								427	0	14	-	14.00	28	455
Oakridge Elementary School	123	130	130	142	142	146								813	16	8	34.00	-	58	871
Randolph Elementary School	64	66	66	69	68	63								396	44	16	-	-	60	456
Taylor Elementary School	105	109	117	127	125	138								721	0	7	-	7.00	14	735
Tuckahoe Elementary School	74	76	77	83	79	70								459	0	14	-	14.00	28	487
Integration Station [2]	-	-	-	-	-	-								-	0	72	-	-	72	72
Elementary School Subtotal	2,154	2,210	2,217	2,383	2,437	2,462	-	-	-	-	-	-	-	13,863	526	362	292	84	1,264	15,127
MIDDLE SCHOOL [3]																				0
Dorothy Hamm Middle School							350	380	337					1,067						1,067
Eunice Kennedy Shriver Program							4	1	4					9						9
Gunston Middle School							461	434	385					1,280						1,280
H-B Woodlawn Secondary Program							81	82	83					246						246
Jefferson Middle School							426	409	409					1,244						1,244
Kenmore Middle School							381	354	314					1,049						1,049
Swanson Middle School							383	362	363					1,108						1,108
Williamsburg Middle School							271	300	290					861						861
Middle School Subtotal	-	-	-	-	-	-	2,357	2,322	2,185	-	-	-	-	6,864						6,864
HIGH SCHOOL [3]																				0
Arlington Career Center (Full-Time) [4]										175	168	190	238	771						771
Arlington Community High School										7	11	26	40	84						84
Eunice Kennedy Shriver Program										9	7	4	18	38						38
H-B Woodlawn Secondary Program										103	113	116	119	451						451
Langston High School Continuation [5]										1	8	34	65	108						108
New Directions Program										1	9	5	2	17						17
Wakefield High School										702	720	667	630	2,719						2,719
Washington-Liberty High School										650	680	652	569	2,551						2,551
Yorktown High School										630	611	637	583	2,461						2,461
High School Subtotal	-	-	-	-	-	-	-	-	-	2,278	2,327	2,331	2,264	9,200						9,200
Total (Grade K to Grade 12)	2,154	2,210	2,217	2,383	2,437	2,462	2,357	2,322	2,185	2,278	2,327	2,331	2,264	29,927						
Total (PreK to Grade 12)	2,154	2,210	2,217	2,383	2,437	2,462	2,357	2,322	2,185	2,278	2,327	2,331	2,264	29,927	526	362	292	84	1,264	31,191

[1] Five-year-old Montessori students are reported in Kindergarten.

[2] PreK SPED classes (16) are in Integration Station as placeholders for Fiscal Year (FY) 2021. Integration Station is housed outside of APS with community PreK partners; totals do not include 5.0 FTE staffing for 60 community-based resource students.

[3] Schools that accept enrollment through a lottery process can also include students from the Secondary Program for Students with Autism (Grade 6 to 12) and H.S. HILT students (English Learners) enter through the year (Grade 9 to 12). H-B Woodlawn is an example of such a school.

[4] Arlington Career Center full-time students include Arlington Tech, Academic Academy, HILT Institute, and PEP. Arlington Career Center part-time students are included at their neighborhood school.

[5] Langston and Arlington Community membership does not include students over 20 years old. The above projections do not include the adult students at Arlington Community and at Langston.

[6] PreK estimates are prepared by the Department of Teaching & Learning.

Note:
All Grade K-12 Special Education students, including those in self-contained classes, and English Learners are included within the grade totals at each school.
The projections for option schools were calculated differently from neighborhood schools. For certain option schools, either their enrollment was static as of Sept. 30, 2018 or the incoming class was based on the prior year's Spring Update to the Fall Projections.

All Arlington Public Schools (APS) budget and operations decisions are based on the best information available at the time. Staff and community members are reminded that funding forecasts from Arlington County and the state may change, based on many external factors. Similarly, student enrollment and projections are based on the best available information, but are also subject to change due to employment, housing and other economic factors. For these reasons, APS and the Arlington School Board may adjust future budget allocations, staffing and other operations decisions to reflect the existing community and operating landscape.

Attachment A, Table 6 - Enrollment Projection for 2025-26 (Grade K to 12) and 2019-20 estimate for PreK

	K	1	2	3	4	5	6	7	8	9	10	11	12	Grade K-12 Total	VPI	PreK SPED	3&4 Mont	Comm Peers	PreK Total	Total
						Enrollment Projection: Grade K to 12									2020-21 School Year Estimate: PreK [6]					
ELEMENTARY SCHOOL																				
Abingdon Elementary School	123	127	139	158	183	191								921	32	16	-	-	48	969
Alice West Fleet Elementary School	100	107	117	130	151	164								769	32	6	34.00	6.00	78	847
Arlington Science Focus Elementary	114	129	137	141	158	151								830	0	0	-	-	0	830
Arlington Traditional Elementary	96	96	96	96	48	96								528	32	6	-	-	38	566
Ashlawn Elementary School	120	125	130	135	143	144								797	16	16	-	-	32	829
Barcroft Elementary School	58	64	61	66	73	76								398	32	15	-	7.00	54	452
Barrett Elementary School	81	82	86	88	93	98								528	42	22	17.00	-	81	609
Campbell Elementary School	72	67	68	73	73	73								426	48	0	-	-	48	474
Carlin Springs Elementary School	75	81	86	92	100	103								537	58	31	17.00	11.00	117	654
Claremont Elementary School	96	140	135	124	78	111								684	32	0	-	-	32	716
Discovery Elementary School	81	85	85	90	101	102								544	0	8	28.00	-	36	580
Dr. Charles R. Drew Elementary School	66	64	63	59	64	63								379	26	37	-	7.00	70	449
Glebe Elementary School	78	78	78	80	92	88								494	0	7	-	7.00	14	508
Hoffman-Boston Elementary School	69	64	70	65	64	63								395	52	37	-	7.00	96	491
Jamestown Elementary School	75	76	81	87	97	99								515	0	16	51.00	4.00	71	586
Key Elementary School	96	137	127	80	113	104								657	32	0	-	-	32	689
Long Branch Elementary School	59	65	68	77	88	85								442	32	6	-	-	38	480
McKinley Elementary School	112	117	117	121	131	133								731	0	0	-	-	0	731
Montessori Public School of Arlington [1]	50	50	50	50	50	50								300	0	8	111.00	-	119	419
Nottingham Elementary School	62	66	66	69	76	72								411	0	14	-	14.00	28	439
Oakridge Elementary School	122	130	130	132	147	142								803	16	8	34.00	-	58	861
Randolph Elementary School	63	65	64	64	69	64								389	44	16	-	-	60	449
Taylor Elementary School	103	108	115	116	129	129								700	0	7	-	7.00	14	714
Tuckahoe Elementary School	72	75	76	75	81	77								456	0	14	-	14.00	28	484
Integration Station [2]	-	-	-	-	-	-								-	0	72	-	-	72	72
Elementary School Subtotal	**2,043**	**2,198**	**2,245**	**2,268**	**2,402**	**2,478**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**13,634**	**526**	**362**	**292**	**84**	**1,264**	**14,898**
MIDDLE SCHOOL [3]																				0
Dorothy Hamm Middle School							369	352	382					1,103						1,103
Eunice Kennedy Shriver Program							4	1	4					9						9
Gunston Middle School							484	455	422					1,361						1,361
H-B Woodlawn Secondary Program							81	82	83					246						246
Jefferson Middle School							409	435	411					1,255						1,255
Kenmore Middle School							361	381	350					1,092						1,092
Swanson Middle School							353	390	366					1,109						1,109
Williamsburg Middle School							260	270	299					829						829
Middle School Subtotal	**-**	**-**	**-**	**-**	**-**	**-**	**2,321**	**2,366**	**2,317**	**-**	**-**	**-**	**-**	**7,004**						**7,004**
HIGH SCHOOL [3]																				0
Arlington Career Center (Full-Time) [4]										175	168	190	238	771						771
Arlington Community High School										7	11	26	40	84						84
Eunice Kennedy Shriver Program										9	7	4	18	38						38
H-B Woodlawn Secondary Program										103	113	116	119	451						451
Langston High School Continuation [5]										1	8	34	65	108						108
New Directions Program										1	9	5	2	17						17
Wakefield High School										740	703	676	609	2,728						2,728
Washington-Liberty High School										637	655	683	593	2,568						2,568
Yorktown High School										600	641	600	613	2,454						2,454
High School Subtotal	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2,273**	**2,315**	**2,334**	**2,297**	**9,219**						**9,219**
Total (Grade K to Grade 12)	**2,043**	**2,198**	**2,245**	**2,268**	**2,402**	**2,478**	**2,321**	**2,366**	**2,317**	**2,273**	**2,315**	**2,334**	**2,297**	**29,857**						
Total (PreK to Grade 12)	**2,043**	**2,198**	**2,245**	**2,268**	**2,402**	**2,478**	**2,321**	**2,366**	**2,317**	**2,273**	**2,315**	**2,334**	**2,297**	**29,857**	**526**	**362**	**292**	**84**	**1,264**	**31,121**

[1] Five-year-old Montessori students are reported in Kindergarten.

[2] PreK SPED classes (16) are in Integration Station as placeholders for Fiscal Year (FY) 2021. Integration Station is housed outside of APS with community PreK partners; totals do not include 5.0 FTE staffing for 60 community-based resource students.

[3] Schools that accept enrollment through a lottery process can also include students from the Secondary Program for Students with Autism (Grade 6 to 12) and H.S. HILT students (English Learners) enter through the year (Grade 9 to 12). H-B Woodlawn is an example of such a school.

[4] Arlington Career Center full-time students include Arlington Tech, Academic Academy, HILT Institute, and PEP. Arlington Career Center part-time students are included at their neighborhood school.

[5] Langston and Arlington Community membership does not include students over 20 years old. The above projections do not include the adult students at Arlington Community and at Langston.

[6] PreK estimates are prepared by the Department of Teaching & Learning.

Note:
All Grade K-12 Special Education students, including those in self-contained classes, and English Learners are included within the grade totals at each school.
The projections for option schools were calculated differently from neighborhood schools. For certain option schools, either their enrollment was static as of Sept. 30, 2018 or the incoming class was based on the prior year's Spring Update to the Fall Projections.

All Arlington Public Schools (APS) budget and operations decisions are based on the best information available at the time. Staff and community members are reminded that funding forecasts from Arlington County and the state may change, based on many external factors. Similarly, student enrollment and projections are based on the best available information, but are also subject to change due to employment, housing and other economic factors. For these reasons, APS and the Arlington School Board may adjust future budget allocations, staffing and other operations decisions to reflect the existing community and operating landscape.

Attachment A, Table 7 - Enrollment Projection for 2026-27 (Grade K to 12) and 2019-20 estimate for PreK

							Enrollment Projection: Grade K to 12									2020-21 School Year Estimate: PreK [6]					
	K	1	2	3	4	5	6	7	8	9	10	11	12	Grade K-12 Total	VPI	PreK SPED	3&4 Mont	Comm Peers	PreK Total	Total
ELEMENTARY SCHOOL																				
Abingdon Elementary School	124	125	137	155	165	195								901	32	16	-	-	48	949
Alice West Fleet Elementary School	100	106	115	128	138	167								754	32	6	34.00	6.00	78	832
Arlington Science Focus Elementary	117	130	140	141	150	158								836	0	0	-	-	0	836
Arlington Traditional Elementary	96	96	96	96	96	48								528	32	6	-	-	38	566
Ashlawn Elementary School	121	123	129	133	131	146								783	16	16	-	-	32	815
Barcroft Elementary School	59	63	60	65	67	77								391	32	15	-	7.00	54	445
Barrett Elementary School	82	81	85	87	85	100								520	42	22	17.00	-	81	601
Campbell Elementary School	72	67	68	73	73	73								426	48	0	-	-	48	474
Carlin Springs Elementary School	77	81	86	92	92	105								533	58	31	17.00	11.00	117	650
Claremont Elementary School	144	93	135	124	117	74								687	32	0	-	-	32	719
Discovery Elementary School	82	84	83	89	91	104								533	0	8	28.00	-	36	569
Dr. Charles R. Drew Elementary School	67	63	62	58	59	64								373	26	37	-	7.00	70	443
Glebe Elementary School	78	77	76	79	83	90								483	0	7	-	7.00	14	497
Hoffman-Boston Elementary School	70	63	69	63	59	63								387	52	37	-	7.00	96	483
Jamestown Elementary School	75	75	79	86	88	101								504	0	16	51.00	4.00	71	575
Key Elementary School	144	91	127	120	75	104								661	32	0	-	-	32	693
Long Branch Elementary School	60	64	67	76	79	88								434	32	6	-	-	38	472
McKinley Elementary School	113	115	115	119	119	135								716	0	0	-	-	0	716
Montessori Public School of Arlington [1]	50	50	50	50	50	50								300	0	8	111.00	-	119	419
Nottingham Elementary School	62	65	65	68	68	73								401	0	14	-	14.00	28	429
Oakridge Elementary School	124	129	129	132	136	146								796	16	8	34.00	-	58	854
Randolph Elementary School	64	64	63	62	63	65								381	44	16	-	-	60	441
Taylor Elementary School	105	107	114	115	119	133								693	0	7	-	7.00	14	707
Tuckahoe Elementary School	73	73	75	74	73	79								447	0	14	-	14.00	28	475
Integration Station [2]	-	-	-	-	-	-								-	0	72	-	-	72	72
Elementary School Subtotal	2,159	2,085	2,225	2,285	2,276	2,438	-	-	-	-	-	-	-	13,468	526	362	292	84	1,264	14,732
MIDDLE SCHOOL [3]																				0
Dorothy Hamm Middle School							364	371	354					1,089						1,089
Eunice Kennedy Shriver Program							4	1	4					9						9
Gunston Middle School							479	476	440					1,395						1,395
H-B Woodlawn Secondary Program							81	82	83					246						246
Jefferson Middle School							419	417	437					1,273						1,273
Kenmore Middle School							356	365	380					1,101						1,101
Swanson Middle School							367	356	391					1,114						1,114
Williamsburg Middle School							266	259	270					795						795
Middle School Subtotal	-	-	-	-	-	-	2,336	2,327	2,359	-	-	-	-	7,022						7,022
HIGH SCHOOL [3]																				0
Arlington Career Center (Full-Time) [4]										175	168	190	238	771						771
Arlington Community High School										7	11	26	40	84						84
Eunice Kennedy Shriver Program										9	7	4	18	38						38
H-B Woodlawn Secondary Program										103	113	116	119	451						451
Langston High School Continuation [5]										1	8	34	65	108						108
New Directions Program										1	9	5	2	17						17
Wakefield High School										788	738	658	615	2,799						2,799
Washington-Liberty High School										689	636	652	614	2,591						2,591
Yorktown High School										622	610	629	577	2,438						2,438
High School Subtotal	-	-	-	-	-	-	-	-	-	2,395	2,300	2,314	2,288	9,297						9,297
Total (Grade K to Grade 12)	2,159	2,085	2,225	2,285	2,276	2,438	2,336	2,327	2,359	2,395	2,300	2,314	2,288	29,787						
Total (PreK to Grade 12)	2,159	2,085	2,225	2,285	2,276	2,438	2,336	2,327	2,359	2,395	2,300	2,314	2,288	29,787	526	362	292	84	1,264	31,051

[1] Five-year-old Montessori students are reported in Kindergarten.

[2] PreK SPED classes *(16)* are in Integration Station as placeholders for Fiscal Year (FY) 2021. Integration Station is housed outside of APS with community PreK partners; totals do not include 5.0 FTE staffing for 60 community-based resource students.

[3] Schools that accept enrollment through a lottery process can also include students from the Secondary Program for Students with Autism (Grade 6 to 12) and H.S. HILT students (English Learners) enter through the year (Grade 9 to 12). H-B Woodlawn is an example of such a school.

[4] Arlington Career Center full-time students include Arlington Tech, Academic Academy, HILT Institute, and PEP. Arlington Career Center part-time students are included at their neighborhood school.

[5] Langston and Arlington Community membership does not include students over 20 years old. The above projections do not include the adult students at Arlington Community and at Langston.

[6] PreK estimates are prepared by the Department of Teaching & Learning.

Note:
All Grade K-12 Special Education students, including those in self-contained classes, and English Learners are included within the grade totals at each school.
The projections for option schools were calculated differently from neighborhood schools. For certain option schools, either their enrollment was static as of Sept. 30, 2018 or the incoming class was based on the prior year's Spring Update to the Fall Projections.

All Arlington Public Schools (APS) budget and operations decisions are based on the best information available at the time. Staff and community members are reminded that funding forecasts from Arlington County and the state may change, based on many external factors. Similarly, student enrollment and projections are based on the best available information, but are also subject to change due to employment, housing and other economic factors. For these reasons, APS and the Arlington School Board may adjust future budget allocations, staffing and other operations decisions to reflect the existing community and operating landscape.

Attachment A, Table 8 - Enrollment Projection for 2027-28 (Grade K to 12) and 2019-20 estimate for PreK

	K	1	2	3	4	5	6	7	8	9	10	11	12	Grade K-12 Total	VPI	PreK SPED	3&4 Mont	Comm Peers	PreK Total	Total
ELEMENTARY SCHOOL																				
Abingdon Elementary School	121	126	135	153	163	176								874	32	16	-	-	48	922
Alice West Fleet Elementary School	98	106	113	126	136	152								731	32	6	34.00	6.00	78	809
Arlington Science Focus Elementary	119	133	140	143	150	149								834	0	0	-	-	0	834
Arlington Traditional Elementary	72	96	96	96	96	96								552	32	6	-	-	38	590
Ashlawn Elementary School	119	125	128	133	130	134								769	16	16	-	-	32	801
Barcroft Elementary School	58	64	59	64	66	70								381	32	15	-	7.00	54	435
Barrett Elementary School	80	82	85	87	85	92								511	42	22	17.00	-	81	592
Campbell Elementary School	72	67	68	73	73	73								426	48	0	-	-	48	474
Carlin Springs Elementary School	77	83	85	92	92	97								526	58	31	17.00	11.00	117	643
Claremont Elementary School	96	140	90	124	117	111								678	32	0	-	-	32	710
Discovery Elementary School	80	85	82	87	90	94								518	0	8	28.00	-	36	554
Dr. Charles R. Drew Elementary School	65	64	61	57	58	59								364	26	37	-	7.00	70	434
Glebe Elementary School	77	77	75	77	82	82								470	0	7	-	7.00	14	484
Hoffman-Boston Elementary School	68	64	68	62	57	58								377	52	37	-	7.00	96	473
Jamestown Elementary School	74	75	78	84	87	92								490	0	16	51.00	4.00	71	561
Key Elementary School	144	137	85	120	113	70								669	32	0	-	-	32	701
Long Branch Elementary School	58	65	66	75	78	79								421	32	6	-	-	38	459
McKinley Elementary School	110	116	113	117	117	122								695	0	0	-	-	0	695
Montessori Public School of Arlington [1]	50	50	50	50	50	50								300	0	8	111.00	-	119	419
Nottingham Elementary School	61	65	64	66	67	66								389	0	14	-	14.00	28	417
Oakridge Elementary School	122	130	127	130	135	134								778	16	8	34.00	-	58	836
Randolph Elementary School	62	65	63	61	61	60								372	44	16	-	-	60	432
Taylor Elementary School	104	109	114	115	118	124								684	0	7	-	7.00	14	698
Tuckahoe Elementary School	72	76	74	75	74	73								444	0	14	-	14.00	28	472
Integration Station [2]	-	-	-	-	-	-								-	0	72	-	-	72	72
Elementary School Subtotal	2,059	2,200	2,119	2,267	2,295	2,313	-	-	-	-	-	-	-	13,253	526	362	292	84	1,264	14,517
MIDDLE SCHOOL [3]																				0
Dorothy Hamm Middle School							372	366	373					1,111						1,111
Eunice Kennedy Shriver Program							4	1	4					9						9
Gunston Middle School							485	469	459					1,413						1,413
H-B Woodlawn Secondary Program							81	82	83					246						246
Jefferson Middle School							425	427	419					1,271						1,271
Kenmore Middle School							365	360	364					1,089						1,089
Swanson Middle School							373	370	357					1,100						1,100
Williamsburg Middle School							271	266	260					797						797
Middle School Subtotal	-	-	-	-	-	-	2,376	2,341	2,319	-	-	-	-	7,036						7,036
HIGH SCHOOL [3]																				0
Arlington Career Center (Full-Time) [4]										175	168	190	238	771						771
Arlington Community High School										7	11	26	40	84						84
Eunice Kennedy Shriver Program										9	7	4	18	38						38
H-B Woodlawn Secondary Program										103	113	116	119	451						451
Langston High School Continuation [5]										1	8	34	65	108						108
New Directions Program										1	9	5	2	17						17
Wakefield High School										835	786	690	598	2,909						2,909
Washington-Liberty High School										690	688	633	587	2,598						2,598
Yorktown High School										613	633	599	605	2,450						2,450
High School Subtotal	-	-	-	-	-	-	-	-	-	2,434	2,423	2,297	2,272	9,426						9,426
Total (Grade K to Grade 12)	2,059	2,200	2,119	2,267	2,295	2,313	2,376	2,341	2,319	2,434	2,423	2,297	2,272	29,715						
Total (PreK to Grade 12)	2,059	2,200	2,119	2,267	2,295	2,313	2,376	2,341	2,319	2,434	2,423	2,297	2,272	29,715	526	362	292	84	1,264	30,979

[1] Five-year-old Montessori students are reported in Kindergarten.

[2] PreK SPED classes (16) are in Integration Station as placeholders for Fiscal Year (FY) 2021. Integration Station is housed outside of APS with community PreK partners; totals do not include 5.0 FTE staffing for 60 community-based resource students.

[3] Schools that accept enrollment through a lottery process can also include students from the Secondary Program for Students with Autism (Grade 6 to 12) and H.S. HILT students (English Learners) enter through the year (Grade 9 to 12). H-B Woodlawn is an example of such a school.

[4] Arlington Career Center full-time students include Arlington Tech, Academic Academy, HILT Institute, and PEP. Arlington Career Center part-time students are included at their neighborhood school.

[5] Langston and Arlington Community membership does not include students over 20 years old. The above projections do not include the adult students at Arlington Community and at Langston.

[6] PreK estimates are prepared by the Department of Teaching & Learning.

Note:
All Grade K-12 Special Education students, including those in self-contained classes, and English Learners are included within the grade totals at each school.
The projections for option schools were calculated differently from neighborhood schools. For certain option schools, either their enrollment was static as of Sept. 30, 2018 or the incoming class was based on the prior year's Spring Update to the Fall Projections.

All Arlington Public Schools (APS) budget and operations decisions are based on the best information available at the time. Staff and community members are reminded that funding forecasts from Arlington County and the state may change, based on many external factors. Similarly, student enrollment and projections are based on the best available information, but are also subject to change due to employment, housing and other economic factors. For these reasons, APS and the Arlington School Board may adjust future budget allocations, staffing and other operations decisions to reflect the existing community and operating landscape.

Attachment A, Table 9 - Enrollment Projection for 2028-29 (Grade K to 12) and 2019-20 estimate for PreK

						Enrollment Projection: Grade K to 12										2020-21 School Year Estimate: PreK [6]					
	K	1	2	3	4	5	6	7	8	9	10	11	12	Grade K-12 Total		VPI	PreK SPED	3&4 Mont	Comm Peers	PreK Total	Total
ELEMENTARY SCHOOL																					
Abingdon Elementary School	119	123	136	150	160	173								861		32	16	-	-	48	909
Alice West Fleet Elementary School	99	105	115	126	135	152								732		32	6	34.00	6.00	78	810
Arlington Science Focus Elementary	118	133	142	143	151	148								835		0	0	-	-	0	835
Arlington Traditional Elementary	96	72	96	96	96	96								552		32	6	-	-	38	590
Ashlawn Elementary School	118	122	130	132	130	133								765		16	16	-	-	32	797
Barcroft Elementary School	57	63	61	63	65	69								378		32	15	-	7.00	54	432
Barrett Elementary School	79	80	85	86	84	91								505		42	22	17.00	-	81	586
Campbell Elementary School	72	67	68	73	73	73								426		48	0	-	-	48	474
Carlin Springs Elementary School	78	85	90	94	95	100								542		58	31	17.00	11.00	117	659
Claremont Elementary School	144	93	135	83	117	111								683		32	0	-	-	32	715
Discovery Elementary School	78	83	83	86	88	93								511		0	8	28.00	-	36	547
Dr. Charles R. Drew Elementary School	64	62	62	56	57	57								358		26	37	-	7.00	70	428
Glebe Elementary School	75	76	75	76	80	81								463		0	7	-	7.00	14	477
Hoffman-Boston Elementary School	67	62	69	61	56	56								371		52	37	-	7.00	96	467
Jamestown Elementary School	72	74	78	83	85	90								482		0	16	51.00	4.00	71	553
Key Elementary School	144	137	127	80	113	104								705		32	0	-	-	32	737
Long Branch Elementary School	57	63	67	73	77	78								415		32	6	-	-	38	453
McKinley Elementary School	108	113	114	115	115	120								685		0	0	-	-	0	685
Montessori Public School of Arlington [1]	50	50	50	50	50	50								300		0	8	111.00	-	119	419
Nottingham Elementary School	60	64	64	65	66	65								384		0	14	-	14.00	28	412
Oakridge Elementary School	121	129	130	129	135	135								779		16	8	34.00	-	58	837
Randolph Elementary School	61	63	63	60	60	58								365		44	16	-	-	60	425
Taylor Elementary School	102	107	115	114	118	122								678		0	7	-	7.00	14	692
Tuckahoe Elementary School	73	76	77	75	75	74								450		0	14	-	14.00	28	478
Integration Station [2]	-	-	-	-	-	-								-		0	72	-	-	72	72
Elementary School Subtotal	2,112	2,102	2,232	2,169	2,281	2,329	-	-	-	-	-	-	-	13,225		526	362	292	84	1,264	14,489
MIDDLE SCHOOL [3]																					0
Dorothy Hamm Middle School							348	372	366					1,086							1,086
Eunice Kennedy Shriver Program							4	1	4					9							9
Gunston Middle School							453	477	454					1,384							1,384
H-B Woodlawn Secondary Program							81	82	83					246							246
Jefferson Middle School							396	435	430					1,261							1,261
Kenmore Middle School							342	368	358					1,068							1,068
Swanson Middle School							347	375	370					1,092							1,092
Williamsburg Middle School							253	272	267					792							792
Middle School Subtotal	-	-	-	-	-	-	2,224	2,382	2,332	-	-	-	-	6,938							6,938
HIGH SCHOOL [3]																					0
Arlington Career Center (Full-Time) [4]										175	168	190	238	771							771
Arlington Community High School										7	11	26	40	84							84
Eunice Kennedy Shriver Program										9	7	4	18	38							38
H-B Woodlawn Secondary Program										103	113	116	119	451							451
Langston High School Continuation [5]										1	8	34	65	108							108
New Directions Program										1	9	5	2	17							17
Wakefield High School										848	835	736	629	3,048							3,048
Washington-Liberty High School										656	689	685	570	2,600							2,600
Yorktown High School										590	623	621	576	2,410							2,410
High School Subtotal	-	-	-	-	-	-	-	-	-	2,390	2,463	2,417	2,257	9,527							9,527
Total (Grade K to Grade 12)	2,112	2,102	2,232	2,169	2,281	2,329	2,224	2,382	2,332	2,390	2,463	2,417	2,257	29,690							
Total (PreK to Grade 12)	2,112	2,102	2,232	2,169	2,281	2,329	2,224	2,382	2,332	2,390	2,463	2,417	2,257	29,690		526	362	292	84	1,264	30,954

[1] Five-year-old Montessori students are reported in Kindergarten.

[2] PreK SPED classes *(16)* are in Integration Station as placeholders for Fiscal Year (FY) 2021. Integration Station is housed outside of APS with community PreK partners; totals do not include 5.0 FTE staffing for 60 community-based resource students.

[3] Schools that accept enrollment through a lottery process can also include students from the Secondary Program for Students with Autism (Grade 6 to 12) and H.S. HILT students (English Learners) enter through the year (Grade 9 to 12). H-B Woodlawn is an example of such a school.

[4] Arlington Career Center full-time students include Arlington Tech, Academic Academy, HILT Institute, and PEP. Arlington Career Center part-time students are included at their neighborhood school.

[5] Langston and Arlington Community membership does not include students over 20 years old. The above projections do not include the adult students at Arlington Community and at Langston.

[6] PreK estimates are prepared by the Department of Teaching & Learning.

Note:
All Grade K-12 Special Education students, including those in self-contained classes, and English Learners are included within the grade totals at each school.
The projections for option schools were calculated differently from neighborhood schools. For certain option schools, either their enrollment was static as of Sept. 30, 2018 or the incoming class was based on the prior year's Spring Update to the Fall Projections.

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Attachment A, Table 10 - Enrollment Projection for 2029-30 (Grade K to 12) and 2019-20 estimate for PreK

	Enrollment Projection: Grade K to 12														2020-21 School Year Estimate: PreK [6]					
	K	1	2	3	4	5	6	7	8	9	10	11	12	Grade K-12 Total	VPI	PreK SPED	3&4 Mont	Comm Peers	PreK Total	Total
ELEMENTARY SCHOOL																				
Abingdon Elementary School	117	121	133	152	157	170								850	32	16	-	-	48	898
Alice West Fleet Elementary School	98	106	114	128	136	151								733	32	6	34.00	6.00	78	811
Arlington Science Focus Elementary	117	132	142	144	150	148								833	0	0	-	-	0	833
Arlington Traditional Elementary	96	96	72	96	96	96								552	32	6	-	-	38	590
Ashlawn Elementary School	118	121	127	134	129	133								762	16	16	-	-	32	794
Barcroft Elementary School	58	64	62	66	66	71								387	32	15	-	7.00	54	441
Barrett Elementary School	78	79	83	86	83	90								499	42	22	17.00	-	81	580
Campbell Elementary School	72	67	68	73	73	73								426	48	0	-	-	48	474
Carlin Springs Elementary School	82	88	93	100	97	104								564	58	31	17.00	11.00	117	681
Claremont Elementary School	144	140	90	124	78	111								687	32	0	-	-	32	719
Discovery Elementary School	77	81	81	87	87	91								504	0	8	28.00	-	36	540
Dr. Charles R. Drew Elementary School	63	61	60	58	56	57								355	26	37	-	7.00	70	425
Glebe Elementary School	74	74	74	76	79	79								456	0	7	-	7.00	14	470
Hoffman-Boston Elementary School	66	61	67	62	55	56								367	52	37	-	7.00	96	463
Jamestown Elementary School	71	72	77	83	84	88								475	0	16	51.00	4.00	71	546
Key Elementary School	96	137	127	120	75	104								659	32	0	-	-	32	691
Long Branch Elementary School	56	62	65	75	76	77								411	32	6	-	-	38	449
McKinley Elementary School	107	111	111	116	113	118								676	0	0	-	-	0	676
Montessori Public School of Arlington [1]	50	50	50	50	50	50								300	0	8	111.00	-	119	419
Nottingham Elementary School	59	63	63	65	65	64								379	0	14	-	14.00	28	407
Oakridge Elementary School	121	129	129	132	134	134								779	16	8	34.00	-	58	837
Randolph Elementary School	60	62	62	61	59	57								361	44	16	-	-	60	421
Taylor Elementary School	102	106	113	115	116	121								673	0	7	-	7.00	14	687
Tuckahoe Elementary School	72	75	75	76	73	73								444	0	14	-	14.00	28	472
Integration Station [2]	-	-	-	-	-	-								-	0	72	-	-	72	72
Elementary School Subtotal	2,054	2,158	2,138	2,279	2,187	2,316	-	-	-	-	-	-	-	13,132	526	362	292	84	1,264	14,396
MIDDLE SCHOOL [3]																				0
Dorothy Hamm Middle School							345	348	372					1,065						1,065
Eunice Kennedy Shriver Program							4	1	4					9						9
Gunston Middle School							449	445	462					1,356						1,356
H-B Woodlawn Secondary Program							81	82	83					246						246
Jefferson Middle School							393	405	438					1,236						1,236
Kenmore Middle School							346	350	371					1,067						1,067
Swanson Middle School							344	350	376					1,070						1,070
Williamsburg Middle School							250	252	272					774						774
Middle School Subtotal	-	-	-	-	-	-	2,212	2,233	2,378	-	-	-	-	6,823						6,823
HIGH SCHOOL [3]																				0
Arlington Career Center (Full-Time) [4]										175	168	190	238	771						771
Arlington Community High School										7	11	26	40	84						84
Eunice Kennedy Shriver Program										9	7	4	18	38						38
H-B Woodlawn Secondary Program										103	113	116	119	451						451
Langston High School Continuation [5]										1	8	34	65	108						108
New Directions Program										1	9	5	2	17						17
Wakefield High School										832	848	783	672	3,135						3,135
Washington-Liberty High School										674	656	687	617	2,634						2,634
Yorktown High School										600	599	610	596	2,405						2,405
High School Subtotal	-	-	-	-	-	-	-	-	-	2,402	2,419	2,455	2,367	9,643						9,643
Total (Grade K to Grade 12)	2,054	2,158	2,138	2,279	2,187	2,316	2,212	2,233	2,378	2,402	2,419	2,455	2,367	29,598						
Total (PreK to Grade 12)	2,054	2,158	2,138	2,279	2,187	2,316	2,212	2,233	2,378	2,402	2,419	2,455	2,367	29,598	526	362	292	84	1,264	30,862

[1] Five-year-old Montessori students are reported in Kindergarten.

[2] PreK SPED classes *(16)* are in Integration Station as placeholders for Fiscal Year (FY) 2021. Integration Station is housed outside of APS with community PreK partners; totals do not include 5.0 FTE staffing for 60 community-based resource students.

[3] Schools that accept enrollment through a lottery process can also include students from the Secondary Program for Students with Autism (Grade 6 to 12) and H.S. HILT students (English Learners) enter through the year (Grade 9 to 12). H-B Woodlawn is an example of such a school.

[4] Arlington Career Center full-time students include Arlington Tech, Academic Academy, HILT Institute, and PEP. Arlington Career Center part-time students are included at their neighborhood school.

[5] Langston and Arlington Community membership does not include students over 20 years old. The above projections do not include the adult students at Arlington Community and at Langston.

[6] PreK estimates are prepared by the Department of Teaching & Learning.

Note:
All Grade K-12 Special Education students, including those in self-contained classes, and English Learners are included within the grade totals at each school.
The projections for option schools were calculated differently from neighborhood schools. For certain option schools, either their enrollment was static as of Sept. 30, 2018 or the incoming class was based on the prior year's Spring Update to the Fall Projections.

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Attachment B: Fall 2019 Housing Unit Forecast and Projected Student Yield

Housing Unit Forecast and Projected Student Yield, 2019 to 2029

Forecast Year	Development Name	Net New Units	Planning Unit	Projected Student Yield
2019	S. Rhodes St.	402	48150	27.3
2019	Columbia Pike Village Center	365	37032	46.0
2019	Gables N. Rolfe ST (does not include shelter 14 units)	335	24082	50.9
2019	Gilliam Place	173	37051	102.4
2020	750 N. Glebe Road (Mazda Block)	483	13070	41.5
2020	Pentagon Centre PDSP & Final Site Plan - Phase IB	440	48110	29.9
2020	Potomac Yard - Land Bay D-East (Brittany East)	360	48250	24.1
2020	Potomac Yard - Land Bay D - West (Brittany West)	331	48250	22.2
2020	4000 Fairfax Drive	330	23230	13.9
2020	Founder's Square - North Office/Residential	244	46093	22.2
2020	1201 N Quinn St	12	24130	1.3
2020		4	48171	0.9
2020	5713 10th Rd N Townhomes	-1	14061	-0.2
2021	The Highlands	884	24051	37.1
2021	The Berkeley	256	48960	144.4
2021	2000 Clarendon Blvd	90	24081	3.8
2021	Axumite Village	36	46010	14.8
2022	1122 N Kirkwood Rd	255	23190	40.3
2022	Pentagon Centre PDSP & Final Site Plan - Phase IA	253	48110	15.9
2022	Clarendon West Site #1 - Building 1	251	23210	39.7
2022	1801 N Quinn St *	249	24051	72.2
2022	American Legion/APAH	160	23190	97.8
2022	2400 Columbia Pike	105	46131	10.0
2022	6711 Lee Highway (Sun Trust Site)	27	16020	7.2
2023	Cyrstal City Plan J1	519	48260	34.8
2023	Crystal Houses III	252	48192	16.9
2023	Harris Teeter and American Service Center Phase 2	238	12040	8.6
2023	Rosslyn Gateway PDSP (Phase 1 - Residential/Hotel Building)	133	24051	5.6
2023		92	36102	37.4
2023	11th and Vermont Residences South Block -Garden	58	13090	8.9
2023		26	16121	6.8
2023		25	46102	3.1
2023	2515 Lee Hwy	22	23151	3.2
2023	11th and Vermont Residences South Block -TH	14	13090	2.0
2023	11th and Vermont Residences North Block	12	13090	1.7
2023		6	23210	1.0
2023	Honeysuckle Hills URD	3	16050	1.6
2024	Holiday Inn	490	24051	20.6
2024		418	48110	26.3
2024		225	48260	15.1
2024	Ballston Station	144	13090	116.5
2024		84	48173	17.4
2024	Best Western	48	24071	7.3
2024	4601-4607 Old Dominion Dr	12	23920	2.8
2024		2	16121	0.6
2025		343	24080	14.4
2025	New Century Center Residential	302	48260	20.2
2025	1401 Wilson Blvd - Phase 1 (Residential)	274	24051	11.5
2025	RCA Building	256	24051	10.8

Housing Unit Forecast and Projected Student Yield, 2019 to 2029

Forecast Year	Development Name	Net New Units	Planning Unit	Projected Student Yield
2025	Harris Teeter and American Service Center Phase 1	149	12040	5.4
2025	Red Cross/Trenton St. Residential *	97	12080	71.0
2025		20	48170	4.1
2025	Red Cross/Trenton St. Residential *	17	12080	3.8
2025		6	23220	0.9
2026	Columbia Pike Plan	447	35100	45.1
2026	Clarendon West Site Building 3	333	23210	15.7
2026	The Spire	237	13081	10.0
2026	Wakefield Manor	188	24082	28.6
2026	Harris Teeter and American Service Center Phase 3	174	12040	6.3
2027	Ames Building	671	24051	28.2
2027	East falls church	527	16121	32.1
2027	Cherrydale	181	23111	8.5
2028	Crystal City	500	48260	33.5
2028	Virginia Square	312	23231	13.1
2028	Columbia Pike Plan	235	46022	29.4
2028	COLUMBIA PIKE	85	35070	65.4
2028	North Quincy Street Plan	80	46093	3.4
2028	BALLSTON 8	69	13090	2.9
2028		36	37032	4.5
2029	COLUMBIA PIKE	335	35072	33.8
2029	Architect's Building	307	24071	12.9
2029	Clarendon Sector Plan	124	23220	5.2
2029	East Falls Church	111	16121	6.8
2029	Crystal City	103	48260	6.9
2029	Cherrydale Plan	83	23160	3.9
2029	COLUMBIA PIKE	70	37034	41.9
2029	Fort Myer Heights North	58	24071	2.4
2029	Williamsburg Apst	57	24071	2.4
2029	COLUMBIA PIKE	15	46010	6.2
2029	Washington Blvd Frontage	14	13090	2.1

* The Sept. 2019 net new unit information for two residential projects was adjusted by APS staff in Dec. 2019.

Caveat

Forecasted development has high potential, but not all proposed projects may be built.

Data Source

Arlington County Government, CPHD, Round 9.1 Cooperative Forecast. Data provided to APS, Fall 2019

Attachment C: Fall 2019 Student Generation Rates

Fall 2019 Student Generation Rates
for 2019-20 School Boundaries
by School and Housing Type

Elementary School Level (K-5)[1]	Single Family Detached	Single Family Detached with Accessory Dwelling	Townhome	Duplex	Multi-family Elevator			Multi-family Garden			Condo		Total by School
					Market Rate	Mixed Income	CAF Only [2]	Market Rate	Mixed Income	CAF Only	Elevator	Garden	
Abingdon Elementary School	0.281	-	0.108	0.213	0.099	0.052	-	0.038	-	0.341	0.020	0.091	**0.124**
Alice West Fleet Elementary School	0.235	-	0.163	0.207	0.079	-	-	0.089	-	0.081	0.073	0.035	**0.132**
Arlington Science Focus Elementary	0.190	-	0.178	0.042	0.023	0.086	0.160	0.034	-	0.231	0.025	0.017	**0.049**
Ashlawn Elementary School	0.245	-	0.073	0.078	0.024	0.024	0.411	0.030	0.473	-	0.015	0.024	**0.063**
Barcroft Elementary School	0.221	-	0.077	-	0.050	-	0.500	0.346	-	0.324	0.071	0.093	**0.183**
Barrett Elementary School	0.211	-	0.152	-	0.018	0.140	-	0.153	0.278	0.387	0.009	0.031	**0.146**
Carlin Springs Elementary School	0.133	-	0.130	0.312	-	0.319	0.302	0.527	-	0.439	0.155	0.110	**0.270**
Discovery Elementary School	0.278	-	0.110	-	-	-	-	-	-	-	-	-	**0.269**
Dr. Charles R. Drew Elementary School	0.262	-	0.112	0.193	0.049	0.028	0.333	0.277	-	0.422	0.242	0.043	**0.126**
Glebe Elementary School	0.231	-	0.134	0.107	0.114	-	-	0.129	-	0.411	0.029	0.053	**0.177**
Hoffman-Boston Elementary School	0.173	-	0.159	0.200	0.030	0.025	-	0.103	-	0.273	0.010	0.074	**0.038**
Jamestown Elementary School	0.240	-	0.055	-	-	-	-	-	-	-	-	-	**0.234**
Long Branch Elementary School	0.189	-	0.035	0.076	0.007	0.030	0.269	0.060	0.125	0.178	0.040	0.044	**0.103**
McKinley Elementary School	0.282	-	0.157	0.212	-	-	-	0.055	-	0.207	-	-	**0.245**
Nottingham Elementary School	0.307	-	0.043	-	-	-	-	0.154	-	-	-	0.054	**0.291**
Oakridge Elementary School	0.170	-	0.099	0.127	0.034	-	-	0.100	0.087	0.376	0.029	0.049	**0.085**
Randolph Elementary School	0.168	-	0.114	0.300	0.016	-	-	0.193	0.291	0.525	-	-	**0.187**
Taylor Elementary School	0.237	-	0.095	0.068	0.029	0.078	-	0.043	-	0.202	0.028	0.016	**0.144**
Tuckahoe Elementary School	0.242	-	0.174	0.220	-	0.051	-	0.182	-	-	0.031	0.045	**0.200**
Total	**0.238**	**N/A**	**0.122**	**0.170**	**0.036**	**0.062**	**0.342**	**0.125**	**0.172**	**0.310**	**0.029**	**0.063**	**0.115**

Middle School Level (6-8)[1]	Single Family Detached	Single Family Detached with Accessory Dwelling	Townhome	Duplex	Multi-family Elevator			Multi-family Garden			Condo		Total by School
					Market Rate	Mixed Income	CAF Only [2]	Market Rate	Mixed Income	CAF Only	Elevator	Garden	
Dorothy Hamm Middle School	0.113	-	0.050	0.008	0.009	0.033	0.060	0.029	-	0.100	0.007	0.006	**0.033**
Gunston Middle School	0.093	-	0.042	0.076	0.013	0.017	0.139	0.045	0.033	0.174	0.009	0.026	**0.031**
Jefferson Middle School	0.097	-	0.045	0.066	0.026	0.014	0.167	0.052	0.083	0.130	0.006	0.024	**0.058**
Kenmore Middle School	0.104	-	0.072	0.144	0.056	0.100	0.146	0.169	0.309	0.175	0.039	0.065	**0.099**
Swanson Middle School	0.127	-	0.031	0.041	0.009	0.015	0.189	0.050	0.157	0.125	0.005	0.018	**0.053**
Williamsburg Middle School	0.138	-	0.037	0.058	-	0.023	-	0.061	-	-	0.039	0.019	**0.124**
Total	**0.116**	**N/A**	**0.043**	**0.074**	**0.015**	**0.028**	**0.149**	**0.056**	**0.090**	**0.143**	**0.011**	**0.024**	**0.053**

High School Level (9-12)	Single Family Detached	Single Family Detached with Accessory Dwelling	Townhome	Duplex	Multi-family Elevator			Multi-family Garden			Condo		Total by School
					Market Rate	Mixed Income	CAF Only [2]	Market Rate	Mixed Income	CAF Only	Elevator	Garden	
Wakefield High School	0.123	-	0.054	0.104	0.020	0.026	0.083	0.083	0.076	0.195	0.020	0.027	**0.053**
Washington-Liberty High School	0.134	-	0.038	0.116	0.009	0.047	0.209	0.073	0.152	0.220	0.016	0.037	**0.066**
Yorktown High School	0.160	-	0.055	0.037	0.010	0.033	0.070	0.047	0.189	0.133	0.009	0.012	**0.080**
Total	**0.144**	**N/A**	**0.048**	**0.102**	**0.015**	**0.037**	**0.165**	**0.072**	**0.120**	**0.179**	**0.014**	**0.026**	**0.065**

K-12	Single Family Detached	Single Family Detached with Accessory Dwelling	Townhome	Duplex	Multi-family Elevator			Multi-family Garden			Condo		Total by School
					Market Rate	Mixed Income	CAF Only [2]	Market Rate	Mixed Income	CAF Only	Elevator	Garden	
Total	**0.498**	**N/A**	**0.214**	**0.345**	**0.066**	**0.127**	**0.656**	**0.254**	**0.383**	**0.632**	**0.055**	**0.113**	**0.232**

| 2019 Master Housing Unit Database (MHUD) housing by type shares [2] | 24.09% | 0.03% | 3.77% | 2.27% | 25.24% | 7.86% | 0.53% | 8.55% | 1.88% | 2.99% | 12.78% | 10.00% | 100.00% |

[1] Rates reflect the updated elementary and middle school boundaries which took effect in the 2019-20 school year .

[2] Excludes Apartment Elevator Senior Housing

Note:
• A dash "-" is used when a particular housing type with residing students is not present in an individual school attendance boundary.
• Some students were not geocoded for reasons such as (i) they are children of employees who live outside Arlington County, (ii) they reside on Joint Base Myer-Henderson Hall (federal jurisdiction), or (iii) they are homeless or in foster care outside Arlington County, or live at a shelter.

Source:
Rates are based on September 30, 2019 APS Enrollments (Grades K-12) and July 1, 2019 Master Housing Unit Database (MHUD) from Arlington County Government, CPHD, Planning Division.

Attachment D: Background on Projections

Consultant and Community Review
The 2015 Community Facilities Study (CFS) included a review of changing demographics. (Community Facility Study, p. 48) Source: https://commissions.arlingtonva.us/community-facilities-study/

This 2015 study came out of concerns about the accuracy of the County's and Schools' forecasts and projections, given the significant growth in school enrollment in recent years and projections indicating that the pace of growth would continue over the next decade. The County and Schools brought in consultants from Statistical Forecasting and RLS Demographics to review and evaluate the County's and Schools' methodologies.

- The consultants concluded that the forecast and projection methodologies[1] employed by the County and Schools are valid and appropriate for Arlington.
- The consultants also determined that two different datasets and methodologies are necessary to meet different purposes.
- While the consultants validated the forecast and projection methodologies, they recommended steps that could be taken to further improve accuracy.

Recommendation	Steps APS has taken to date

APS: develop annual reports on projections and improve projections webpages
 	
 County: document the forecast methodology comprehensively
	• Revised format of Annual 10-Year Projections Report
	   – Clarify methodology
	   – Show data inputs
	 www.apsva.us/wp-content/uploads/2019/02/Fall-2019-28-APS-Enrollment-Report_v12_.pdf
	
	 • Reorganized, more user-friendly projections webpage: www.apsva.us/statistics/enrollment-projections/

County: refine school enrollment projections by analyzing housing data such as unit type, number of bedrooms and length of homeownership	The county provides APS with housing data by type and affordability, that is used by APS to develop student generation rates. More information available via Joint School Board-County Board Work Session on Dec. 3, 2019 • Collaboration and data sharing to inform school projections • In-depth information about analyses of housing unit type go.boarddocs.com/vsba/arlington/Board.nsf/files/BJHVTB824303/$file/120319%20Joint%20Work%20Session%20-Projections%20and%20Population%20Growth%20Presentation%20-%20rev.pdf

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[1] Statistical Forecasting LLC and RLS Demographics Inc. (2015). A Review of Projection Methodologies for the Arlington County Government and Arlington Public Schools. Retrieved from http://www.arlingtonva.us/

Recommendation	Steps APS has taken to date
<u>APS</u>: monitor emerging trends in multi-family housing and potential changes in student generation rates	The 10-Year Projection Reports annually update student generation rates by housing types More information available via Joint School Board-County Board Work Session on Dec. 3, 2019; in-depth information about: • Emerging trends in multi-family housing • Changes in student generation rates go.boarddocs.com/vsba/arlington/Board.nsf/files/BJHVTB824303/$file/120319%20Joint%20Work%20Session%20-Projections%20and%20Population%20Growth%20Presentation%20-%20rev.pdf

<u>County</u>: Supplement County forecasts with a cohort-component and demographic analysis, which could help predict future births and students by focusing on the County's population of women of childbearing age and fertility rates	• More information available via Joint School Board-County Board Work Session on Dec. 3, 2019, which included factors to predict future births:
	  – Cohort component
	  – Demographic analysis
	
	• Contracted RLS Demographics in Fall 2019 to update County forecast model, the Cohort Projection system (last updated in 2016).[2]
	
	Key findings:
	  – Comparisons of forecasted and actual births for 2017 and 2018 showed that births were over-estimated in the forecast model
	  – Total Fertility Rate estimated to decline from 1.44 for 2010-2015 to 1.34 in 2015-2020
	  – Reduced level of in-migration for ages 20-29, compared with 2016 model[3]
	
	go.boarddocs.com/vsba/arlington/Board.nsf/files/BJHVTB824303/$file/120319%20Joint%20Work%20Session%20-Projections%20and%20Population%20Growth%20Presentation%20-%20rev.pdf

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[2] RLS Demographics' update of the birth forecasts includes:
- The latest AGC population forecast (Round 9.1)
- Updated analysis of age-specific fertility rates using 2010 to 2018 historical birth data and US Census bureau estimates of the distribution of the female population by age
- Updated analysis of age-specific migration using US Census Bureau estimates up to July 1, 2018

[3] The updated migration uses the latest Census estimates extrapolated to 2020

Consultant Review

March 2017 Review of APS' Enrollment Projection Process (Presented to School Board on April 6, 2017)
https://www.apsva.us/wp-content/uploads/2015/04/March-22-2017-Projections-Review-Report.pdf

In Spring 2017, Statistical Forecasting was hired by APS to review the enrollment projection process and to offer recommendations on standardizing the process for the future. As a result, the following steps were taken:

- In September 2017, a reorganization moved the Director of Facilities Planning and responsibility for enrollment projections from Facilities and Operations to the new Department of Planning and Evaluation.
- APS started to implement the recommendations in the 2017 10-Year Projections.
- In January of 2018, APS hired a principal planner to oversee the projections process.
- The 2018 10-Year Projections did the following:
  - Continued to build upon the recommendations defined in the Statistical Forecasting report
  - Factored in new boundaries for 2019-20 for elementary and middle school, and changes to the Options and Transfer Policy
- The work plan for the enrollment projections builds three reviews into the process, including:
  - An internal review in the summer and again in November by:
    - APS staff in P&E, Finance & Management Services, and Facilities & Operations
    - County government staff from CPHD
    - Statistical Forecasting consultant
  - An external review with representatives from the community and advisory committees in November
- Additional work was done in 2019 by RLS Demographics to update the Arlington County births forecast model, the Cohort Projection System, last updated in 2016.